

09 Finishes

09 30 Tiling

09 30 13 Ceramic Tiling



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 13 00-0014			Residential Ceramic Tiling <small>(09 30 13)</small>		
09 30 13 00-0015	SF		Mounted Floor Tile, Residential Grade.....	8.57	2.25
			Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets.		
			For Up To 50, Add	5.51	
			For >50 To 250, Add	0.90	
			For >1,000, Deduct	-0.45	
			For Epoxy Grout, Add	1.12	
09 30 13 00-0016	SF		Mounted Wall Tile, Residential Grade.....	9.52	2.72
			Note: Includes glazed porcelain, unglazed porcelain and glazed ceramic tiles. Tiles mounted from back, side or front in 12" x 12", 12" x 24", or similar sized sheets.		
			For Up To 50, Add	6.46	
			For >50 To 250, Add	1.09	
			For >1,000, Deduct	-0.54	
			For Epoxy Grout, Add	1.27	
09 30 13 00-0017	SF		2" x 2" x 1/4" Thick, Unpolished Ceramic Mounted Floor Tile, Residential Grade.....	7.90	2.25
			Note: Tiles mounted from back, side or front in 12" x 12", 12" x 24", 12" x 48", or similar sized sheets.		
			For Up To 50, Add	5.34	
			For >50 To 250, Add	0.90	
			For >1,000, Deduct	-0.45	
			For Epoxy Grout, Add	1.12	
09 30 16			Quarry Tiling <small>(09 30)</small>		
			Note: Includes grout and sealing. Excludes setting method. See CSI section 09 31 00 00-0000 for thin-set, 09 32 00 00-0000 for mortar-bed, 09 35 00 00-0000 for chemical-resistant.		
09 30 16 00-0001	SF		Unglazed Quarry Floor Tile.....	9.15	1.58
			Note: With or without embedded abrasive grit.		
			For Up To 50, Add	7.00	
			For >50 To 250, Add	1.26	
			For >1,000, Deduct	-0.63	
			For Epoxy Grout, Add	1.39	
			For Chemical Resistant Epoxy Grout, Add	1.24	
09 30 16 00-0002	SF		Glazed Quarry Floor Tile.....	18.02	1.58
			For Up To 50, Add	9.22	
			For >50 To 250, Add	1.26	
			For >1,000, Deduct	-0.63	
			For Epoxy Grout, Add	1.39	
			For Chemical Resistant Epoxy Grout, Add	1.24	
09 30 16 00-0003	SF		Unglazed Quarry Wall Tile.....	10.41	1.87
			Note: With or without embedded abrasive grit.		
			For Up To 50, Add	8.26	
			For >50 To 250, Add	1.51	
			For >1,000, Deduct	-0.75	
			For Epoxy Grout, Add	1.58	
			For Chemical Resistant Epoxy Grout, Add	1.43	
09 30 16 00-0004	SF		Glazed Quarry Wall Tile.....	19.28	1.87
			For Up To 50, Add	10.48	
			For >50 To 250, Add	1.51	
			For >1,000, Deduct	-0.75	
			For Epoxy Grout, Add	1.58	
			For Chemical Resistant Epoxy Grout, Add	1.43	
09 30 16 00-0005	LF		6" High Unglazed Quarry Tile Cove Base Or Trim.....	12.78	2.08
			For Epoxy Grout, Add	1.46	
			For Chemical Resistant Epoxy Grout, Add	1.54	
09 30 16 00-0006	LF		6" High Glazed Quarry Tile Cove Base Or Trim.....	27.31	2.08
			For Epoxy Grout, Add	1.46	
			For Chemical Resistant Epoxy Grout, Add	1.54	
09 30 23			Glass Mosaic Tiling <small>(09 30)</small>		
			Note: Excludes setting method. See CSI section 09 31 00 00-0000 for thin-set, 09 32 00 00-0000 for mortar-bed, 09 35 00 00-0000 for chemical-resistant.		
09 30 23 00-0001	SF		Unmounted Glass Tile.....	20.12	1.73
09 30 33			Stone Tiling <small>(09 30)</small>		
			Note: Excludes setting method. See CSI section 09 31 00 00-0000 for thin-set, 09 32 00 00-0000 for mortar-bed, 09 35 00 00-0000 for chemical-resistant.		
09 30 33 00-0001			Marble Floor Tile <small>(09 30 33)</small>		
09 30 33 00-0002	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Cherry Blossom".....	10.02	1.39
			For Up To 50, Add	6.71	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0003	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Laurent Brown".....	10.43	1.39
			For Up To 50, Add	6.82	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	



Finishes	09
Tiling	09 30
Stone Tiling	09 30 33

09

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0004	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Temple Gray".....	10.65	1.39
			For Up To 50, Add	6.87	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0005	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Emperador Cafe".....	10.75	1.39
			For Up To 50, Add	6.90	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0006	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "China Black".....	10.81	1.39
			For Up To 50, Add	6.91	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0007	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Sea Grass Honed".....	10.90	1.39
			For Up To 50, Add	6.93	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0008	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Gris Magma or Gris Nebula".....	11.12	1.39
			For Up To 50, Add	6.99	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0009	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Dark Green".....	12.56	1.39
			For Up To 50, Add	7.35	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0010	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Cappuccino Light".....	12.71	1.39
			For Up To 50, Add	7.39	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0011	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Botticino Cream".....	13.01	1.39
			For Up To 50, Add	7.46	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0012	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Crema Marfil Classic".....	13.34	1.39
			For Up To 50, Add	7.54	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0013	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Arabescato Carrara".....	13.58	1.39
			For Up To 50, Add	7.60	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0014	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Giallo Crystal Onyx".....	14.37	1.39
			For Up To 50, Add	7.80	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0015	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Cafe Forest or Rain Forest".....	15.85	1.39
			For Up To 50, Add	8.17	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0016	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Arabescato".....	15.94	1.39
			For Up To 50, Add	8.19	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0017	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Carrara White".....	17.05	1.39
			For Up To 50, Add	8.47	
			For >50 To 250, Add	1.12	
			For >1,000, Deduct	-0.56	
			For Epoxy Grout, Add	1.29	
			For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	

09 Finishes**09 30 Tiling****09 30 33 Stone Tiling**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0018	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Crema Marfil Select Or Sahara Gold"	17.42	1.39
			<i>For Up To 50, Add</i>	8.56	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0019	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Botticino Fiorito Or Michelangelo"	17.58	1.39
			<i>For Up To 50, Add</i>	8.60	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0020	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Crema Marfil Antique"	17.83	1.39
			<i>For Up To 50, Add</i>	8.67	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0021	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Emperador Dark Or Super Thassos Glass"	19.88	1.39
			<i>For Up To 50, Add</i>	9.18	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0022	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Rosa Verona"	21.05	1.39
			<i>For Up To 50, Add</i>	9.47	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0023	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Rojo Alicante"	21.36	1.39
			<i>For Up To 50, Add</i>	9.55	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0024	SF		12" x 12" x 3/8" And Larger Unmounted Marble Floor Tile, "Emperador Light"	21.52	1.39
			<i>For Up To 50, Add</i>	9.59	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0025			Granite Floor Tile <small>(09 30 33)</small>		
09 30 33 00-0026	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Crystal Gray"	8.92	1.39
			<i>For Up To 50, Add</i>	6.44	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0027	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Peach Flower"	9.71	1.39
			<i>For Up To 50, Add</i>	6.64	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0028	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Golden Yellow"	10.34	1.39
			<i>For Up To 50, Add</i>	6.79	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0029	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Absolute Black"	12.86	1.39
			<i>For Up To 50, Add</i>	7.42	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0030	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Tan Brown"	13.34	1.39
			<i>For Up To 50, Add</i>	7.54	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0031	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Black Galaxy"	13.80	1.39
			<i>For Up To 50, Add</i>	7.66	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	



Finishes	09
Tiling	09 30
Stone Tiling	09 30 33

09

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0032	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Kashmir White Or Gold".....	14.27	1.39
			<i>For Up To 50, Add</i>	7.78	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0033	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Giallo Santa Cecelia".....	14.84	1.39
			<i>For Up To 50, Add</i>	7.92	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0034	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Verde UbaTuba".....	15.38	1.39
			<i>For Up To 50, Add</i>	8.05	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0035	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "New Venetian Gold".....	15.94	1.39
			<i>For Up To 50, Add</i>	8.19	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0036	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Tropic Brown".....	16.48	1.39
			<i>For Up To 50, Add</i>	8.33	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0037	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Baltic Brown Or Indian Dakota".....	17.11	1.39
			<i>For Up To 50, Add</i>	8.49	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0038	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Dynamic Blue".....	17.74	1.39
			<i>For Up To 50, Add</i>	8.64	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0039	SF		12" x 12" x 3/8" And Larger Unmounted Granite Floor Tile, "Blue Pearl Or Emerald Pearl".....	19.94	1.39
			<i>For Up To 50, Add</i>	9.19	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0040			Slate Floor Tile <small>(09 30 33)</small>		
09 30 33 00-0041	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Raja Classic".....	7.97	1.39
			<i>For Up To 50, Add</i>	6.20	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0042	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Rustic Gold".....	8.38	1.39
			<i>For Up To 50, Add</i>	6.30	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0043	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "California Gold Or Black Rust".....	8.60	1.39
			<i>For Up To 50, Add</i>	6.36	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0044	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Indian Autumn".....	8.60	1.39
			<i>For Up To 50, Add</i>	6.36	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0045	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "China Multi, Earth, Or Autumn Blend".....	8.76	1.39
			<i>For Up To 50, Add</i>	6.40	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	

09 Finishes

09 30 Tiling

09 30 33 Stone Tiling



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0046	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Lilac Kashmir Or Madras Yellow"	9.23	1.39
			<i>For Up To 50, Add</i>	6.52	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0047	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Montauk Blue, Copper Quartzite, Montauk Black, San Rio Rustic, Or Gold Green Quartzite"	9.71	1.39
			<i>For Up To 50, Add</i>	6.64	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0048	SF		12" x 12" And Larger Unmounted Slate Floor Tile, "Ocean Green Quartzite Or Golden White Quartzite"	9.86	1.39
			<i>For Up To 50, Add</i>	6.67	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0049			Travertine Floor Tile <small>(09 30 33)</small>		
09 30 33 00-0050	SF		12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Noce Rustic"	9.71	1.39
			<i>For Up To 50, Add</i>	6.64	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0051	SF		12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Denizli Beige Or Oasis Walnut"	10.18	1.39
			<i>For Up To 50, Add</i>	6.75	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0052	SF		12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Oasis Gold"	10.49	1.39
			<i>For Up To 50, Add</i>	6.83	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0053	SF		12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Navona Light - Ivory"	10.97	1.39
			<i>For Up To 50, Add</i>	6.95	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0054	SF		12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Oasis Noce"	11.12	1.39
			<i>For Up To 50, Add</i>	6.99	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0055	SF		12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Durango Antique"	11.28	1.39
			<i>For Up To 50, Add</i>	7.03	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0056	SF		12" x 12" x 3/8" And Larger Unmounted Travertine Floor Tile, "Durango Cream"	12.79	1.39
			<i>For Up To 50, Add</i>	7.41	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0057			Limestone Floor Tile <small>(09 30 33)</small>		
09 30 33 00-0058	SF		12" x 12" And Larger Unmounted Limestone Floor Tile, "Isis Gold"	12.70	1.39
			<i>For Up To 50, Add</i>	7.38	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0059	SF		12" x 12" And Larger Unmounted Limestone Floor Tile, "Tiara Beige"	13.17	1.39
			<i>For Up To 50, Add</i>	7.50	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	
09 30 33 00-0060	SF		12" x 12" And Larger Unmounted Limestone Floor Tile, "Halila Cream"	15.63	1.39
			<i>For Up To 50, Add</i>	8.12	
			<i>For >50 To 250, Add</i>	1.12	
			<i>For >1,000, Deduct</i>	-0.56	
			<i>For Epoxy Grout, Add</i>	1.29	
			<i>For Heavy Duty Floors With A PEI 5 Rating, Add</i>	1.00	



Finishes	09	09
Tiling	09 30	
Stone Tiling	09 30 33	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 30 33 00-0061 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Ramon Gold".....	17.11	1.39
For Up To 50, Add	8.49	
For >50 To 250, Add	1.12	
For >1,000, Deduct	-0.56	
For Epoxy Grout, Add	1.29	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0062 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Chestnut Brown Or Jerusalem Bone".....	17.11	1.39
For Up To 50, Add	8.49	
For >50 To 250, Add	1.12	
For >1,000, Deduct	-0.56	
For Epoxy Grout, Add	1.29	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0063 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Lagos Blue".....	17.58	1.39
For Up To 50, Add	8.60	
For >50 To 250, Add	1.12	
For >1,000, Deduct	-0.56	
For Epoxy Grout, Add	1.29	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 30 33 00-0064 SF 12" x 12" And Larger Unmounted Limestone Floor Tile, "Jura Gray".....	19.31	1.39
For Up To 50, Add	9.04	
For >50 To 250, Add	1.12	
For >1,000, Deduct	-0.56	
For Epoxy Grout, Add	1.29	
For Heavy Duty Floors With A PEI 5 Rating, Add	1.00	
09 31 Thin-Set Tiling (09 30)		
Note: Tile setting methods in this section are used with ceramic or quarry tile materials as applicable, for a complete installation.		
09 31 13 Thin-Set Ceramic Tiling (09 31)		
09 31 13 00-0001 Thin-Set Ceramic Tiling (09 31 13)		
09 31 13 00-0002 SF Thin Set - Latex Portland Cement Mortar.....	1.40	0.74
For Up To 50, Add	1.19	
For >50 To 250, Add	0.22	
For >1,000, Deduct	-0.11	
09 31 13 00-0003 SF Clean And Scarify Existing Tile For Installation Of New Tile Over Existing.....	0.72	
For Up To 50, Add	0.72	
For >50 To 250, Add	0.14	
For >1,000, Deduct	-0.07	
09 32 Mortar-Bed Tiling (09 30)		
Note: Tile setting methods in this section are used with ceramic or quarry tile materials as applicable, for a complete installation.		
09 32 13 Mortar-Bed Ceramic Tiling (09 32)		
09 32 13 00-0001 Mortar-Bed Ceramic Tiling (09 32 13)		
09 32 13 00-0002 SF 3/4" Minimum Thickness Portland Cement Mortar Setting Bed.....	3.24	1.50
Note: For residential floors. Includes 15 LB felt and wire reinforcement.		
For Up To 50, Add	2.50	
For >50 To 250, Add	0.45	
For >1,000, Deduct	-0.23	
For Exterior Installation (Galvanized Reinforcement), Add	0.15	
09 32 13 00-0003 SF 1-1/4" Minimum Thickness Portland Cement Mortar Setting Bed.....	4.60	2.00
Note: For commercial floors. Includes 15 LB felt and wire reinforcement.		
For Up To 50, Add	3.39	
For >50 To 250, Add	0.60	
For >1,000, Deduct	-0.30	
For Exterior Installation (Galvanized Reinforcement), Add	0.15	
09 32 13 00-0004 SF 3/4" Portland Cement Plaster Scratch Coat for Walls.....	10.37	4.49
Note: Includes 15 LB felt and expanded metal lath.		
For Up To 50, Add	9.32	
For >50 To 250, Add	1.79	
For >1,000, Deduct	-0.90	
For Exterior Installation (Galvanized Reinforcement), Add	0.15	
For Installation Without Felt And Metal Lath, Deduct	-1.87	
09 34 Waterproofing-Membrane Tiling (09 30)		
09 34 00 00-0001 Bonded Waterproofing System for Tiled Showers, Steam Showers, and Bathtub Surrounds (09 34)		
09 34 00 00-0002 Prefabricated Assemblies For Tiled Showers (Schluter® KERDI Shower ST) (09 34 00 00-0001)		
Note: For creating a watertight sloped shower assembly without a mortar bed. Includes a prefabricated polystyrene foam shower tray, 6" x 4-1/2" prefabricated polystyrene foam shower curb, waterproofing membrane for shower tray and surround, and center shower drain. Excludes tile, mortar, grout and shower accessories.		
09 34 00 00-0003 EA 48" x 48", Prefabricated Assembly For Tiled Showers (Schluter® KERDI Shower ST/SC).....	863.42	
09 34 00 00-0004 EA 32" x 60", Prefabricated Assembly For Tiled Showers (Schluter® KERDI Shower ST/SC).....	992.15	
09 34 00 00-0005 EA 72" x 72", Prefabricated Assembly For Tiled Showers (Schluter® KERDI Shower ST/SC).....	1,457.11	

09	09 Finishes	
	09 30	Tiling
	09 34	Waterproofing-Membrane Tiling



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 34 00 00-0006	Prefabricated Polystyrene Shower Curbs And Ramps (09 34 00 00-0001) Note: Prefabricated shower curbs and ramps for tiling over. Excludes tile.		
09 34 00 00-0007	EA 15-7/8" Width, 48" Length, Prefabricated Polystyrene Shower Ramp (Schluter® SR-122).....	104.97	
09 34 00 00-0008	EA 4-1/2" Width, 6" Height, 48" Length, Prefabricated Polystyrene Shower Curb (Schluter® SC-122).....	99.14	

09 34 00 00-0009	Prefabricated Polystyrene Shower Benches (09 34 00 00-0001) Note: Prefabricated shower bench for tiling over. Excludes tile.		
09 34 00 00-0010	EA 16" Width, 16" Depth, 20" Height, Triangular Prefabricated Polystyrene Shower Bench (Schluter® SB41)	205.86	
09 34 00 00-0011	EA 32" Width, 16" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB4181)	409.22	
09 34 00 00-0012	EA 48" Width, 16" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB41122)	504.12	
09 34 00 00-0013	EA 32" Width, 11-1/2" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB2981)	368.55	
09 34 00 00-0014	EA 42" Width, 11-1/2" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB29107).....	409.22	
09 34 00 00-0015	EA 48" Width, 11-1/2" Depth, 20" Height, Rectangular Prefabricated Polystyrene Shower Bench (Schluter® SB29122).....	436.33	

09 34 00 00-0016	Prefabricated Polystyrene Shower Tray (09 34 00 00-0001) Note: Prefabricated shower tray for tiling over. Excludes tile.		
09 34 00 00-0017	EA 32" x 60", Prefabricated Polystyrene Shower Tray (Schluter® ST-81/152).....	179.53	
09 34 00 00-0018	EA 48" x 48", Prefabricated Polystyrene Shower Tray (Schluter® ST-122).....	179.53	
09 34 00 00-0019	EA 72" x 72", Prefabricated Polystyrene Shower Tray (Schluter® ST-183).....	274.44	

09 34 00 00-0020	Waterproofing, Uncoupling And Vapor Management Membranes (Schluter® DITRA) (09 34 00 00-0001)		
09 34 00 00-0021	SF 1/8" Thick, High-Density Polyethylene Membrane With Grid Structure And Underside Anchoring Fleece, Waterproofing, Uncoupling And Vapor Management Membrane (Schluter® DITRA).....	3.20	
09 34 00 00-0022	SF 5/16" Thick, High-Density Polyethylene Membrane With Grid Structure And Underside Anchoring Fleece, Waterproofing, Uncoupling And Vapor Management Membrane (Schluter® DITRA-XL)	3.67	

09 34 00 00-0023	Bonded Waterproof Underlayment Membranes (Schluter® KERDI) (09 34 00 00-0001)		
09 34 00 00-0024	SF 0.008" Polyethylene Membrane With Polypropylene Fleece Laminated On Both Sides, Bonded Waterproof Underlayment Membrane (Schluter® KERDI 200/5M)	2.84	

09 35 Chemical-Resistant Tiling (09 30)
Note: Tile setting methods in this section are used with ceramic or quarry tile materials as applicable, for a complete installation.

09 35 13 Chemical-Resistant Ceramic Tiling (09 35)			
09 35 13 00-0001 Chemical-Resistant Ceramic Tiling (09 35 13)			
09 35 13 00-0002	SF Thin Set - Epoxy Mortar	4.56	0.98
	Note: Impact and chemical resistant.		
	For Up To 50, Add	2.27	
	For >50 To 250, Add	0.30	
	For >1,000, Deduct	-0.15	

09 39 Tiling Transitions (09 30)

09 39 00 00-0001 Tile Waterproofing And Crack Prevention (09 39)			
09 39 00 00-0002	CSF 30 Mil Waterproofing And Crack Prevention Membrane; RedGard.....	84.86	

09 39 00 00-0003 Waterproof Strip Membranes (Schluter® KERDI) (09 39)			
09 39 00 00-0004	LF 5" Wide, 4 mil Polyethylene Waterproof Strip Membrane (Schluter® KERDI BAND)	3.65	
09 39 00 00-0005	LF 10" Wide, 12 mil Polyethylene Waterproof Strip Membrane (Schluter® KERDI FLEX).....	7.26	

09 39 00 00-0006 Coved Shaped Transition Profiles For Floor To Wall For Tile (09 39)			
09 39 00 00-0007	LF 5/16" Height, Satin Anodized Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-AHK)	4.77	
09 39 00 00-0008	LF 3/8" Height, Satin Anodized Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-AHK)	4.76	
09 39 00 00-0009	LF 1/2" Height, Satin Anodized Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-AHK)	4.93	
09 39 00 00-0010	LF 5/16" Height, PVC Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-PHK)	4.55	
09 39 00 00-0011	LF 3/8" Height, Aluminum Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-PHK)	4.72	

09 39 00 00-0012 Coved Shaped Inside Edge Protection And Transition Profiles For Wall To Wall For Tile (09 39)			
09 39 00 00-0013	LF 9/32" x 9/32" Height, Stainless Steel Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-EHK).....	9.56	
09 39 00 00-0014	LF 11/32" x 11/32" Height, Stainless Steel Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-EHK).....	9.82	
09 39 00 00-0015	LF 7/16" x 7/16" Height, Stainless Steel Cove Shaped Transition Profile Trim For Tile (Schluter® Dillex-EHK).....	10.12	

09 39 00 00-0016 Tile Substrate (Schluter® KERDI BOARD) (09 39)			
09 39 00 00-0017	SF 1/2" Tile Substrate And Building Panel (Schluter® KERDI BOARD).....	5.82	0.62



Finishes	09	
Tiling	09 30	09
Tiling Transitions	09 39	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 39 00 00-0018	SF		5/8" Tile Substrate And Building Panel (Schluter® KERDI BOARD).....	6.53	0.70
09 39 00 00-0019			Floor Edge Protection And Transition Profiles For Tile (09 39)		
09 39 00 00-0020	LF		1/4" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE).....	2.62	
09 39 00 00-0021	LF		5/16" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE).....	2.68	
09 39 00 00-0022	LF		3/8" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE).....	2.76	
09 39 00 00-0023	LF		1/2" Height, Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE).....	2.89	
09 39 00 00-0024	LF		1/4" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS).....	3.39	
09 39 00 00-0025	LF		5/16" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS).....	3.48	
09 39 00 00-0026	LF		3/8" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS).....	3.56	
09 39 00 00-0027	LF		1/2" Height, Curved Aluminum Edge Protection Trim For Tile (Schluter® SCHIENE-RADIUS).....	3.63	
09 39 00 00-0028	LF		9/16" Height, Aluminum Transition Trim For Tile (Schluter® RENO-T).....	2.73	
09 39 00 00-0029	LF		1" Height, Aluminum Transition Trim For Tile (Schluter® RENO-T).....	3.63	
09 39 00 00-0030	LF		1/4" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK).....	3.40	
09 39 00 00-0031	LF		5/16" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK).....	3.56	
09 39 00 00-0032	LF		3/8" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK).....	3.72	
09 39 00 00-0033	LF		1/2" Height, Aluminum Transition Trim For Tile (Schluter® RENO-TK).....	4.44	
09 39 00 00-0034	LF		5/16" Height, Aluminum Transition Trim For Tile (Schluter® RENO-U).....	3.51	
09 39 00 00-0035	LF		3/8" Height, Aluminum Transition Trim For Tile (Schluter® RENO-U).....	3.67	
09 39 00 00-0036	LF		1/2" Height, Aluminum Transition Trim For Tile (Schluter® RENO-U).....	4.40	
09 39 00 00-0037			Outside Wall Edge Protection And Transition Profiles For Tile (09 39)		
09 39 00 00-0038	LF		1/4" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC).....	3.49	
09 39 00 00-0039	LF		5/16" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC).....	3.66	
09 39 00 00-0040	LF		3/8" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC).....	3.91	
09 39 00 00-0041	LF		1/2" Height, Aluminum Edge Protection Trim For Tile (Schluter® QUADEC).....	4.17	
09 39 00 00-0042	LF		1/4" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC).....	3.83	
09 39 00 00-0043	LF		5/16" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC).....	4.16	
09 39 00 00-0044	LF		3/8" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC).....	4.48	
09 39 00 00-0045	LF		1/2" Height, Aluminum Edge Protection Trim For Tile (Schluter® RONDEC).....	5.04	
09 50			Ceilings (09)		
			Note: Includes cutting for area around columns, speakers, sprinklers, diffusers, etc.		
09 51			Acoustical Ceilings (09 50)		
			Note: Excludes suspension system. See CSI section 09 53 00 00-0000 for suspension systems.		
09 51 13			Acoustical Panel Ceilings (09 51)		
			Note: Includes cutting around sprinkler heads, speakers, or other penetrations through the ceiling.		
09 51 13 00-0001			Fiberglass Panels (09 51 13)		
09 51 13 00-0002			Fiberglass Acoustical Panels (09 51 13 00-0001)		
09 51 13 00-0003	SF		2' x 2' x 3/4" Fiberglass Acoustical Ceiling Panel (Armstrong Optima®).....	4.98	0.44
			For Up To 50, Add	1.15	
			For >50 To 200, Add	0.70	
			For >200 To 500, Add	0.30	
			For >2,500 To 4,000, Deduct	-0.10	
			For >4,000 To 5,000, Deduct	-0.17	
			For >5,000, Deduct	-0.26	
			For Individual Room Quantities <495, Add	0.70	
			Note: For use with projects >500 SF		
			For Owner Furnished Material, Deduct	-3.97	
			For Ceilings >10' High, Add	0.08	
09 51 13 00-0004	SF		2' x 4' x 3/4" Fiberglass Acoustical Ceiling Panel (Armstrong Optima®).....	5.15	0.44
			For Up To 50, Add	1.18	
			For >50 To 200, Add	0.72	
			For >200 To 500, Add	0.31	
			For >2,500 To 4,000, Deduct	-0.11	
			For >4,000 To 5,000, Deduct	-0.17	
			For >5,000, Deduct	-0.27	
			For Individual Room Quantities <495, Add	0.72	
			Note: For use with projects >500 SF		
			For Owner Furnished Material, Deduct	-4.14	
			For Ceilings >10' High, Add	0.08	
09 51 13 00-0005	SF		2' x 2' x 1" Fiberglass Acoustical Ceiling Panel (Armstrong Optima®).....	5.49	0.53
			For Up To 50, Add	1.23	
			For >50 To 200, Add	0.75	
			For >200 To 500, Add	0.33	
			For >2,500 To 4,000, Deduct	-0.11	
			For >4,000 To 5,000, Deduct	-0.18	
			For >5,000, Deduct	-0.28	
			For Individual Room Quantities <495, Add	0.75	
			Note: For use with projects >500 SF		
			For Owner Furnished Material, Deduct	-4.48	
			For Ceilings >10' High, Add	0.08	

09 Finishes

09 50 Ceilings

09 51 Acoustical Ceilings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 51 13 00-0006	SF 2' x 4' x 1" Fiberglass Acoustical Ceiling Panel (Armstrong Optima®).....	5.45	0.53
	For Up To 50, Add	1.22	
	For >50 To 200, Add	0.75	
	For >200 To 500, Add	0.32	
	For >2,500 To 4,000, Deduct	-0.11	
	For >4,000 To 5,000, Deduct	-0.18	
	For >5,000, Deduct	-0.28	
	For Individual Room Quantities <495, Add	0.75	
	Note: For use with projects >500 SF		
	For Owner Furnished Material, Deduct	-4.44	
	For Ceilings >10' High, Add	0.08	
09 51 13 00-0007	SF 2' x 2' x 1" Fiberglass Acoustical Ceiling Panel (Armstrong Lyra™).....	13.11	0.53
	For Up To 50, Add	2.37	
	For >50 To 200, Add	1.51	
	For >200 To 500, Add	0.71	
	For >2,500 To 4,000, Deduct	-0.27	
	For >4,000 To 5,000, Deduct	-0.41	
	For >5,000, Deduct	-0.59	
	For Individual Room Quantities <495, Add	1.51	
	Note: For use with projects >500 SF		
	For Owner Furnished Material, Deduct	-12.10	
	For Ceilings >10' High, Add	0.08	
09 51 13 00-0008	SF 2' x 4' x 1" Fiberglass Acoustical Ceiling Panel (Armstrong Lyra™).....	13.11	0.53
	For Up To 50, Add	2.37	
	For >50 To 200, Add	1.51	
	For >200 To 500, Add	0.71	
	For >2,500 To 4,000, Deduct	-0.27	
	For >4,000 To 5,000, Deduct	-0.41	
	For >5,000, Deduct	-0.59	
	For Individual Room Quantities <495, Add	1.51	
	Note: For use with projects >500 SF		
	For Owner Furnished Material, Deduct	-12.10	
	For Ceilings >10' High, Add	0.08	
09 51 13 00-0009	Mineral Fiber Panels (09 51 13)		
09 51 13 00-0010	Mineral Fiber Acoustical Ceiling Panels (09 51 13 00-0009)		
	Note: Includes square or tegular edge and class A fire rating.		
09 51 13 00-0011	SF 2' x 2' x 5/8" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured)	2.37	0.53
	For Up To 50, Add	0.82	
	For >50 To 200, Add	0.47	
	For >200 To 500, Add	0.18	
	For >2,500 To 4,000, Deduct	-0.05	
	For >4,000 To 5,000, Deduct	-0.09	
	For >5,000, Deduct	-0.16	
	For Individual Room Quantities <495, Add	0.47	
	Note: For use with projects >500 SF		
	For Vertical Application, Add	0.52	
	For Ceilings >10' High, Add	0.09	
09 51 13 00-0012	SF 2' x 4' x 5/8" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fissured)	2.18	0.53
	For Up To 50, Add	0.79	
	For >50 To 200, Add	0.45	
	For >200 To 500, Add	0.17	
	For >2,500 To 4,000, Deduct	-0.05	
	For >4,000 To 5,000, Deduct	-0.09	
	For >5,000, Deduct	-0.16	
	For Individual Room Quantities <495, Add	0.45	
	Note: For use with projects >500 SF		
	For Vertical Application, Add	0.52	
	For Ceilings >10' High, Add	0.09	
09 51 13 00-0013	SF 2' x 2' x 5/8" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™).....	2.66	0.53
	For Up To 50, Add	0.86	
	For >50 To 200, Add	0.50	
	For >200 To 500, Add	0.19	
	For >2,500 To 4,000, Deduct	-0.06	
	For >4,000 To 5,000, Deduct	-0.10	
	For >5,000, Deduct	-0.18	
	For Individual Room Quantities <495, Add	0.50	
	Note: For use with projects >500 SF		
	For Vertical Application, Add	0.52	
	For Ceilings >10' High, Add	0.09	
09 51 13 00-0014	SF 2' x 4' x 5/8" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Georgian™).....	2.57	0.53
	For Up To 50, Add	0.85	
	For >50 To 200, Add	0.49	
	For >200 To 500, Add	0.19	
	For >2,500 To 4,000, Deduct	-0.06	
	For >4,000 To 5,000, Deduct	-0.10	
	For >5,000, Deduct	-0.17	
	For Individual Room Quantities <495, Add	0.49	
	Note: For use with projects >500 SF		
	For Vertical Application, Add	0.52	
	For Ceilings >10' High, Add	0.09	



		Finishes	09
		Ceilings	09 50
		Acoustical Ceilings	09 51

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51	13 00-0015	SF	2' x 2' x 5/8" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune)	4.06	0.53
			For Up To 50, Add	1.07	
			For >50 To 200, Add	0.64	
			For >200 To 500, Add	0.26	
			For >2,500 To 4,000, Deduct	-0.09	
			For >4,000 To 5,000, Deduct	-0.15	
			For >5,000, Deduct	-0.23	
			For Individual Room Quantities <495, Add	0.64	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.52	
			For Ceilings >10' High, Add	0.09	
09 51	13 00-0016	SF	2' x 4' x 5/8" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Dune)	3.19	0.53
			For Up To 50, Add	0.94	
			For >50 To 200, Add	0.55	
			For >200 To 500, Add	0.22	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.12	
			For >5,000, Deduct	-0.20	
			For Individual Room Quantities <495, Add	0.55	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.52	
			For Ceilings >10' High, Add	0.09	
09 51	13 00-0017	SF	2' x 2' x 3/4" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured)	3.42	0.53
			For Up To 50, Add	0.98	
			For >50 To 200, Add	0.57	
			For >200 To 500, Add	0.23	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.13	
			For >5,000, Deduct	-0.21	
			For Individual Room Quantities <495, Add	0.57	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.52	
			For Ceilings >10' High, Add	0.09	
09 51	13 00-0018	SF	2' x 4' x 3/4" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Fine Fissured)	3.02	0.53
			For Up To 50, Add	0.92	
			For >50 To 200, Add	0.53	
			For >200 To 500, Add	0.21	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.11	
			For >5,000, Deduct	-0.19	
			For Individual Room Quantities <495, Add	0.53	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.52	
			For Ceilings >10' High, Add	0.09	
09 51	13 00-0019	SF	2' x 2' x 3/4" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®)	4.45	0.53
			For Up To 50, Add	1.13	
			For >50 To 200, Add	0.68	
			For >200 To 500, Add	0.28	
			For >2,500 To 4,000, Deduct	-0.09	
			For >4,000 To 5,000, Deduct	-0.16	
			For >5,000, Deduct	-0.25	
			For Individual Room Quantities <495, Add	0.68	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.52	
			For Ceilings >10' High, Add	0.09	
09 51	13 00-0020	SF	2' x 4' x 3/4" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima®)	4.44	0.53
			For Up To 50, Add	1.13	
			For >50 To 200, Add	0.68	
			For >200 To 500, Add	0.28	
			For >2,500 To 4,000, Deduct	-0.09	
			For >4,000 To 5,000, Deduct	-0.16	
			For >5,000, Deduct	-0.25	
			For Individual Room Quantities <495, Add	0.68	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.52	
			For Ceilings >10' High, Add	0.09	
09 51	13 00-0021	SF	2' x 2' x 3/4" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™/High Washability)	6.00	0.53
			For Up To 50, Add	1.36	
			For >50 To 200, Add	0.83	
			For >200 To 500, Add	0.36	
			For >2,500 To 4,000, Deduct	-0.13	
			For >4,000 To 5,000, Deduct	-0.20	
			For >5,000, Deduct	-0.31	
			For Individual Room Quantities <495, Add	0.83	
			Note: For use with projects >500 SF		
			For Vertical Application, Add	0.52	
			For Ceilings >10' High, Add	0.09	

09 Finishes**09 50 Ceilings****09 51 Acoustical Ceilings**

SAN BERNARDINO
COUNTY

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 51 13 00-0022	SF	2' x 4' x 3/4" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong Ultima Health Zone™/High Washability)	6.60	0.53
		For Up To 50, Add	1.45	
		For >50 To 200, Add	0.89	
		For >200 To 500, Add	0.39	
		For >2,500 To 4,000, Deduct	-0.14	
		For >4,000 To 5,000, Deduct	-0.22	
		For >5,000, Deduct	-0.33	
		For Individual Room Quantities <495, Add	0.89	
		Note: For use with projects >500 SF		
		For Vertical Application, Add	0.52	
		For Ceilings >10' High, Add	0.09	
09 51 13 00-0023	SF	2' x 2' x 5/8" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong VL Perforated)	5.74	0.53
		For Up To 50, Add	1.33	
		For >50 To 200, Add	0.81	
		For >200 To 500, Add	0.35	
		For >2,500 To 4,000, Deduct	-0.12	
		For >4,000 To 5,000, Deduct	-0.20	
		For >5,000, Deduct	-0.30	
		For Individual Room Quantities <495, Add	0.81	
		Note: For use with projects >500 SF		
		For Vertical Application, Add	0.52	
		For Ceilings >10' High, Add	0.09	
09 51 13 00-0024	SF	2' x 4' x 5/8" Square Edge, Mineral Fiber Acoustical Ceiling Panel (Armstrong VL Perforated)	5.71	0.53
		For Up To 50, Add	1.32	
		For >50 To 200, Add	0.80	
		For >200 To 500, Add	0.34	
		For >2,500 To 4,000, Deduct	-0.12	
		For >4,000 To 5,000, Deduct	-0.19	
		For >5,000, Deduct	-0.30	
		For Individual Room Quantities <495, Add	0.80	
		Note: For use with projects >500 SF		
		For Vertical Application, Add	0.52	
		For Ceilings >10' High, Add	0.09	
09 51 13 00-0025	SF	20" x 60" x 5/8" Square Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™2617)	2.32	0.53
		For Ceilings >10' High, Add	0.09	
09 51 13 00-0026	SF	20" x 60" x 5/8" Tapered Edge, Mineral Fiber Acoustical Ceiling Panel (USG Radar™2627)	2.56	0.53
		For Ceilings >10' High, Add	0.09	
09 51 13 00-0027		Wood Fiber Panels <small>(09 51 13)</small>		
09 51 13 00-0028	SF	2' x 2' x 1/2" Wood Fiber Acoustical Ceiling Panels	4.03	0.70
		For Up To 50, Add	1.24	
		For >50 To 200, Add	0.72	
		For >200 To 500, Add	0.28	
		For >2,500 To 4,000, Deduct	-0.09	
		For >4,000 To 5,000, Deduct	-0.15	
		For >5,000, Deduct	-0.26	
		For Individual Room Quantities <495, Add	0.72	
		Note: For use with projects >500 SF		
		For Owner Furnished Material, Deduct	-2.45	
		For Ceilings >10' High, Add	0.12	
09 51 13 00-0029	SF	2' x 4' x 1/2" Wood Fiber Acoustical Ceiling Panels	3.87	0.62
		For Up To 50, Add	1.15	
		For >50 To 200, Add	0.67	
		For >200 To 500, Add	0.26	
		For >2,500 To 4,000, Deduct	-0.08	
		For >4,000 To 5,000, Deduct	-0.14	
		For >5,000, Deduct	-0.24	
		For Individual Room Quantities <495, Add	0.67	
		Note: For use with projects >500 SF		
		For Owner Furnished Material, Deduct	-2.45	
		For Ceilings >10' High, Add	0.11	
09 51 13 00-0030	SF	2' x 2' x 5/8" Wood Fiber Acoustical Ceiling Panels	5.12	0.70
		For Up To 50, Add	1.40	
		For >50 To 200, Add	0.83	
		For >200 To 500, Add	0.34	
		For >2,500 To 4,000, Deduct	-0.11	
		For >4,000 To 5,000, Deduct	-0.19	
		For >5,000, Deduct	-0.30	
		For Individual Room Quantities <495, Add	0.83	
		Note: For use with projects >500 SF		
		For Owner Furnished Material, Deduct	-3.54	
		For Ceilings >10' High, Add	0.12	
09 51 13 00-0031	SF	2' x 4' x 5/8" Wood Fiber Acoustical Ceiling Panels	4.96	0.62
		For Up To 50, Add	1.31	
		For >50 To 200, Add	0.78	
		For >200 To 500, Add	0.32	
		For >2,500 To 4,000, Deduct	-0.11	
		For >4,000 To 5,000, Deduct	-0.18	
		For >5,000, Deduct	-0.28	
		For Individual Room Quantities <495, Add	0.78	
		Note: For use with projects >500 SF		
		For Owner Furnished Material, Deduct	-3.54	
		For Ceilings >10' High, Add	0.11	



Finishes	09	
Ceilings	09 50	09
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 13 00-0032 SF 2' x 2' x 3/4" Wood Fiber Acoustical Ceiling Panels .....6.17 0.70 For Up To 50, Add 1.56 For >50 To 200, Add 0.93 For >200 To 500, Add 0.39 For >2,500 To 4,000, Deduct -0.13 For >4,000 To 5,000, Deduct -0.22 For >5,000, Deduct -0.34 For Individual Room Quantities <495, Add 0.93 Note: For use with projects >500 SF For Owner Furnished Material, Deduct -4.59 For Ceilings >10' High, Add 0.12		
09 51 13 00-0033 SF 2' x 4' x 3/4" Wood Fiber Acoustical Ceiling Panels .....6.01 0.62 For Up To 50, Add 1.47 For >50 To 200, Add 0.89 For >200 To 500, Add 0.37 For >2,500 To 4,000, Deduct -0.13 For >4,000 To 5,000, Deduct -0.21 For >5,000, Deduct -0.33 For Individual Room Quantities <495, Add 0.89 Note: For use with projects >500 SF For Owner Furnished Material, Deduct -4.59 For Ceilings >10' High, Add 0.11		
09 51 13 00-0034 SF 2' x 2' x 1" Wood Fiber Acoustical Ceiling Panels .....4.67 0.70 For Up To 50, Add 1.33 For >50 To 200, Add 0.78 For >200 To 500, Add 0.31 For >2,500 To 4,000, Deduct -0.10 For >4,000 To 5,000, Deduct -0.17 For >5,000, Deduct -0.28 For Individual Room Quantities <495, Add 0.78 Note: For use with projects >500 SF For Owner Furnished Material, Deduct -3.09 For Ceilings >10' High, Add 0.12		
09 51 13 00-0035 SF 2' x 4' x 1" Wood Fiber Acoustical Ceiling Panels .....4.51 0.62 For Up To 50, Add 1.24 For >50 To 200, Add 0.74 For >200 To 500, Add 0.30 For >2,500 To 4,000, Deduct -0.10 For >4,000 To 5,000, Deduct -0.16 For >5,000, Deduct -0.27 For Individual Room Quantities <495, Add 0.74 Note: For use with projects >500 SF For Owner Furnished Material, Deduct -3.09 For Ceilings >10' High, Add 0.11		
09 51 13 00-0036 Removal And Reinstallation Of Acoustical Ceiling Panels (09 51 13) Note: 2'x2' Or 2'x4'. Includes storage and cleaning.		
09 51 13 00-0037 SF Removal And Reinstallation Of Acoustical Ceiling Tile And Grid, 2' x 2' Or 2' x 4' .....1.31 For Ceilings >10' High, Add 0.10		
09 51 13 00-0038 SF Removal And Reinstallation Of Acoustical Panels Only .....0.85 For Ceilings >10' High, Add 0.06		
09 51 13 00-0039 SF Removal And Reinstallation Of Grid System Only .....0.79 For Ceilings >10' High, Add 0.06		
09 51 23 Acoustical Tile Ceilings (09 51) Note: Includes fastening with staples and/or adhesive.		
09 51 23 00-0001 Mineral Fiber Acoustical Tile Ceilings (09 51 23)		
09 51 23 00-0002 SF 12" x 12" x 1/2" Tongue And Groove Mineral Fiber Acoustical Ceiling Tile .....4.06 0.98 For Furring 1 x 3 Strips 12" On Center, Add 0.50 For Up To 50, Add 1.49 For >50 To 200, Add 0.85 For >200 To 500, Add 0.31 For >2,500, Deduct -0.20 For Ceilings >10' High, Add 0.17		
09 51 23 00-0003 SF 12" x 12" x 5/8" Spline Mineral Fiber Acoustical Ceiling Tile .....4.75 0.98 For Furring 1 x 3 Strips 12" On Center, Add 0.50 For Up To 50, Add 1.60 For >50 To 200, Add 0.92 For >200 To 500, Add 0.35 For >2,500, Deduct -0.24 For Placing Tiles In Suspended Ceiling System, Deduct -0.28 For Ceilings >10' High, Add 0.17		
09 51 23 00-0004 SF 12" x 12" x 3/4" Spline Mineral Fiber Acoustical Ceiling Tile .....5.30 0.98 For Furring 1 x 3 Strips 12" On Center, Add 0.50 For Up To 50, Add 1.68 For >50 To 200, Add 0.97 For >200 To 500, Add 0.38 For >2,500, Deduct -0.27 For Placing Tiles In Suspended Ceiling System, Deduct -0.28 For Ceilings >10' High, Add 0.17		
09 51 23 00-0005 Wood Fiber Acoustical Tile Ceilings (09 51 23)		

09 Finishes

09 50 Ceilings

09 51 Acoustical Ceilings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 51 23 00-0006	SF		12" x 12" x 1/2" Staple Flange Wood Fiber Acoustical Ceiling Tile <i>For Furring 1 x 3 Strips 12" On Center, Add</i> <i>For Up To 50, Add</i> <i>For >50 To 200, Add</i> <i>For >200 To 500, Add</i> <i>For >2,500, Deduct</i> <i>For Ceilings >10' High, Add</i>	3.77 0.50 1.45 0.82 0.30 -0.19 0.17	0.98
09 51 33 Acoustical Metal Pan Ceilings (09 51)					
09 51 33 13 Acoustical Snap-in Metal Pan Ceilings (09 51 33)					
09 51 33 13-0001 Galvanized Steel, Acoustical Snap-In Metal Ceiling Panels (09 51 33 13)					
09 51 33 13-0002	SF		24" x 24", Unperforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™)	13.71	0.77
09 51 33 13-0003	SF		24" x 24", Perforated, Tamper-Resistant, 18 Gauge, Galvanized Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ SecureLock™)	14.65	0.77
09 51 33 13-0004 Aluminum, Acoustical Snap-In Metal Ceiling Panels (09 51 33 13)					
09 51 33 13-0005	SF		24" x 24", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	10.32	0.88
09 51 33 13-0006	SF		24" x 24", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	17.31	0.88
09 51 33 13-0007	SF		24" x 24", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	33.59	0.88
09 51 33 13-0008	SF		24" x 24", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	15.37	0.88
09 51 33 13-0009	SF		24" x 24", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	10.88	0.88
09 51 33 13-0010	SF		24" x 24", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	16.87	0.88
09 51 33 13-0011	SF		24" x 24", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	33.35	0.88
09 51 33 13-0012	SF		24" x 24", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	15.25	0.88
09 51 33 13-0013	SF		30" x 30", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	13.94	0.88
09 51 33 13-0014	SF		30" x 30", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	18.24	0.88
09 51 33 13-0015	SF		30" x 30", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	37.03	0.88
09 51 33 13-0016	SF		30" x 30", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	18.06	0.88
09 51 33 13-0017	SF		30" x 30", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	14.75	0.88
09 51 33 13-0018	SF		30" x 30", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	18.68	0.88
09 51 33 13-0019	SF		30" x 30", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	38.27	0.88
09 51 33 13-0020	SF		30" x 30", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	18.49	0.88
09 51 33 13-0021	SF		12" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	12.63	0.88
09 51 33 13-0022	SF		12" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	20.49	0.88
09 51 33 13-0023	SF		12" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	36.22	0.88
09 51 33 13-0024	SF		12" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	17.62	0.88
09 51 33 13-0025	SF		12" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	13.56	0.88
09 51 33 13-0026	SF		12" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	20.74	0.88
09 51 33 13-0027	SF		12" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	37.53	0.88
09 51 33 13-0028	SF		12" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	18.18	0.88
09 51 33 13-0029	SF		24" x 48", Unperforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	10.06	0.88
09 51 33 13-0030	SF		24" x 48", Unperforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	15.30	0.88
09 51 33 13-0031	SF		24" x 48", Unperforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	31.52	0.88
09 51 33 13-0032	SF		24" x 48", Unperforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	14.55	0.88
09 51 33 13-0033	SF		24" x 48", Perforated, 0.040" Thick, Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	10.68	0.88
09 51 33 13-0034	SF		24" x 48", Perforated, 0.040" Thick, Metallic Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	15.17	0.88
09 51 33 13-0035	SF		24" x 48", Perforated, 0.040" Thick, Wood Tone Painted Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	31.59	0.88



Finishes	09	09
Ceilings	09 50	
Acoustical Ceilings	09 51	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 51 33 13-0036	SF	24" x 48", Perforated, 0.040" Thick, Anodized Aluminum, Acoustical Snap-In Metal Ceiling Panel (Armstrong MetalWorks™)	14.55	0.88
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09 51 33 23 Acoustical Lay-in Metal Pan Ceilings (09 51 33)

09 51 33 23-0001 Acoustical Lay-In Metal Pan Ceilings (09 51 33 23)

09 51 33 23-0002 Aluminum, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)

09 51 33 23-0003	SF	24" x 24", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	10.69	0.66
09 51 33 23-0004	SF	24" x 24", Unperforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	12.09	0.66
09 51 33 23-0005	SF	24" x 24", Unperforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	17.71	0.66
09 51 33 23-0006	SF	24" x 24", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	15.06	0.66
09 51 33 23-0007	SF	24" x 24", Perforated, Metallic Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	16.15	0.66
09 51 33 23-0008	SF	24" x 24", Perforated, Wood Tone Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	25.35	0.66
09 51 33 23-0009	SF	30" x 30", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	15.91	0.66
09 51 33 23-0010	SF	30" x 30", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	19.70	0.66
09 51 33 23-0011	SF	48" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	15.99	0.66
09 51 33 23-0012	SF	48" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	19.82	0.66
09 51 33 23-0013	SF	12" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	16.07	0.66
09 51 33 23-0014	SF	12" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	19.74	0.66
09 51 33 23-0015	SF	24" x 48", Unperforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	16.07	0.66
09 51 33 23-0016	SF	24" x 48", Perforated, Painted Aluminum, Acoustical Lay-In Metal Ceiling Panel (USG Panz™)	19.89	0.66

09 51 33 23-0017 Steel, Acoustical Lay-In Metal Ceiling Panels (09 51 33 23-0001)

09 51 33 23-0018	SF	24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	13.76	0.66
09 51 33 23-0019	SF	24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	16.38	0.66
09 51 33 23-0020	SF	24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	17.57	0.66
09 51 33 23-0021	SF	24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	16.51	0.66
09 51 33 23-0022	SF	24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	16.94	0.66
09 51 33 23-0023	SF	24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Lay-In Metal Ceiling Panel (Armstrong MetalWorks™ Vector®)	17.94	0.66

09 51 33 33 Acoustical Tegular Lay-in Metal Pan Ceilings (09 51 33)

09 51 33 33-0001 Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33)

09 51 33 33-0002 Steel, Acoustical Tegular Lay-In Metal Pan Ceilings (09 51 33 33-0001)

09 51 33 33-0003	SF	24" x 24", Unperforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	10.08	0.66
09 51 33 33-0004	SF	24" x 24", Unperforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	11.33	0.66
09 51 33 33-0005	SF	24" x 24", Unperforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	15.94	0.66
09 51 33 33-0006	SF	24" x 24", Perforated, 0.021" Thick, Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	11.45	0.66
09 51 33 33-0007	SF	24" x 24", Perforated, 0.021" Thick, Metallic Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	12.95	0.66
09 51 33 33-0008	SF	24" x 24", Perforated, 0.021" Thick, Wood Tone Painted Steel, Acoustical Tegular Lay-In Metal Ceiling Panel (Armstrong MetalWorks™)	17.38	0.66

09 53 Acoustical Ceiling Suspension Assemblies (09 50)

09 53 23 Metal Acoustical Ceiling Suspension Assemblies (09 53)

09 53 23 00-0001 Ceiling Suspension Systems (09 53 23)

09 53 23 00-0002	SF	1' x 1' Grid, Concealed, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System	3.65	0.44
Note: Hot-dipped galvanized steel. Includes single 8 gauge wire hangers (between 3' To 4') attached from wood deck or wood members above to main members 4' on center. Includes all main tees, cross tees, wall angle, wall anchors, connector clips, hold down clips, double faced tape (where required). All above shall be mechanically installed by minimum 2-1/4" x 3/8" wedge anchors. Excludes chain supports for lights.				
Note: Excludes ceiling tile.				
For Fastening To Concrete, Add			1.14	
For Fastening To Steel, Add			1.23	
For Vertical Application, Add			1.87	
For Individual Room Quantities <495, Add			0.40	
Note: For use with projects >500 SF				
For Up To 50, Add			1.40	
For >50 To 200, Add			0.79	
For >200 To 500, Add			0.29	
For >2,500 To 4,000, Deduct			-0.08	
For >4,000 To 5,000, Deduct			-0.15	
For >5,000, Deduct			-0.22	
For Ceilings >10' High, Add			0.16	

09 Finishes**09 50 Ceilings****09 53 Acoustical Ceiling Suspension Assemblies**

SAN BERNARDINO
COUNTY

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 53 23 00-0003	SF		1' x 2' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	2.91	0.44
			For UL Listed (Fire Guard), Add	0.17	
			For 1-1/2" Wide Faced Grid, Add	0.32	
			For Fastening To Concrete, Add	1.11	
			For Fastening To Steel, Add	1.20	
			For Vertical Application, Add	1.55	
			For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
			For Individual Room Quantities <495, Add	0.32	
			Note: For use with projects >500 SF		
			For Aluminum T-Bar System, Add	0.51	
			For Up To 50, Add	1.14	
			For >50 To 200, Add	0.65	
			For >200 To 500, Add	0.23	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.12	
			For >5,000, Deduct	-0.18	
			For Ceilings >10' High, Add	0.13	
09 53 23 00-0004	SF		2' x 2' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	2.28	0.44
			For UL Listed (Fire Guard), Add	0.12	
			For 1-1/2" Wide Faced Grid, Add	0.22	
			For Fastening To Concrete, Add	1.08	
			For Fastening To Steel, Add	1.17	
			For Vertical Application, Add	1.30	
			For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
			For Individual Room Quantities <495, Add	0.26	
			Note: For use with projects >500 SF		
			For Aluminum T-Bar System, Add	0.36	
			For Up To 50, Add	0.93	
			For >50 To 200, Add	0.52	
			For >200 To 500, Add	0.19	
			For >2,500 To 4,000, Deduct	-0.05	
			For >4,000 To 5,000, Deduct	-0.10	
			For >5,000, Deduct	-0.14	
			For Black Grid, Add	0.10	
			For Ceilings >10' High, Add	0.11	
			For Concealed Spline Grid, Add	0.35	
09 53 23 00-0005	SF		2' x 4' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	1.87	0.44
			For UL Listed (Fire Guard), Add	0.09	
			For 1-1/2" Wide Faced Grid, Add	0.18	
			For Fastening To Concrete, Add	1.05	
			For Fastening To Steel, Add	1.14	
			For Vertical Application, Add	1.24	
			For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
			For Individual Room Quantities <495, Add	0.22	
			Note: For use with projects >500 SF		
			For Aluminum T-Bar System, Add	0.28	
			For Up To 50, Add	0.78	
			For >50 To 200, Add	0.44	
			For >200 To 500, Add	0.16	
			For >2,500 To 4,000, Deduct	-0.04	
			For >4,000 To 5,000, Deduct	-0.08	
			For >5,000, Deduct	-0.12	
			For Black Grid, Add	0.08	
			For Ceilings >10' High, Add	0.09	
			For Concealed Spline Grid, Add	0.28	
09 53 23 00-0006	SF		1'-8" To 2' x 5' Grid, Hot Dipped Galvanized Steel, 15/16" T Bar Ceiling Suspension System.....	1.64	0.44
			For UL Listed (Fire Guard), Add	0.09	
			For 1-1/2" Wide Faced Grid, Add	0.16	
			For Fastening To Concrete, Add	1.04	
			For Fastening To Steel, Add	1.13	
			For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
			For Individual Room Quantities <495, Add	0.19	
			Note: For use with projects >500 SF		
			For Aluminum T-Bar System, Add	0.26	
			For Up To 50, Add	0.67	
			For >50 To 200, Add	0.38	
			For >200 To 500, Add	0.14	
			For >2,500 To 4,000, Deduct	-0.04	
			For >4,000 To 5,000, Deduct	-0.07	
			For >5,000, Deduct	-0.10	
			For Ceilings >10' High, Add	0.08	
09 53 23 00-0007	SF		2' x 2' Grid, Hot Dipped Galvanized Steel, 9/16" T Bar Ceiling Suspension System.....	3.00	0.44
			For UL Listed (Fire Guard), Add	0.14	
			For Fastening To Concrete, Add	1.13	
			For Fastening To Steel, Add	1.22	
			For Vertical Application, Add	1.79	
			For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add	2.50	
			For Individual Room Quantities <495, Add	0.35	
			Note: For use with projects >500 SF		
			For Up To 50, Add	1.27	
			For >50 To 200, Add	0.71	
			For >200 To 500, Add	0.25	
			For >2,500 To 4,000, Deduct	-0.07	
			For >4,000 To 5,000, Deduct	-0.13	
			For >5,000, Deduct	-0.19	
			For Black Grid, Add	0.12	
			For Ceilings >10' High, Add	0.15	



Finishes	09	
Ceilings	09 50	09
Acoustical Ceiling Suspension Assemblies	09 53	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 53 23 00-0008	SF		2' x 4' Grid, Hot Dipped Galvanized Steel, 9/16" T Bar Ceiling Suspension System.....	2.52	0.44
			<i>For UL Listed (Fire Guard), Add</i>	0.11	
			<i>For Fastening To Concrete, Add</i>	1.11	
			<i>For Fastening To Steel, Add</i>	1.20	
			<i>For Vertical Application, Add</i>	1.77	
			<i>For Chemical Corrosion Resistant, Polyvinyl Chloride (PVC) Coated, Add</i>	2.50	
			<i>For Individual Room Quantities <495, Add</i>	0.30	
			<i>Note: For use with projects >500 SF</i>		
			<i>For Up To 50, Add</i>	1.09	
			<i>For >50 To 200, Add</i>	0.61	
			<i>For >200 To 500, Add</i>	0.21	
			<i>For >2,500 To 4,000, Deduct</i>	-0.06	
			<i>For >4,000 To 5,000, Deduct</i>	-0.11	
			<i>For >5,000, Deduct</i>	-0.16	
			<i>For Black Grid, Add</i>	0.09	
			<i>For Ceilings >10' High, Add</i>	0.13	
09 53 23 00-0009			Ceiling Suspension System Accessories (09 53 23)		
09 53 23 00-0010	LF		Pencil Rod Support For Suspended Ceiling with Accessories	0.99	
09 53 23 00-0011	LF		1" x 1/8" Flat Bar Bracing For Suspended Ceiling.....	2.40	1.24
			<i>For 304 Stainless Steel, Add</i>	1.54	
			<i>For 316 Stainless Steel, Add</i>	1.73	
			<i>For Aluminum, Add</i>	0.10	
			<i>For Galvanized Steel, Add</i>	0.33	
09 53 23 00-0012	LF		1" x 3/16" Flat Bar Bracing For Suspended Ceiling.....	3.41	1.33
			<i>For 304 Stainless Steel, Add</i>	2.37	
			<i>For 316 Stainless Steel, Add</i>	2.66	
			<i>For Aluminum, Add</i>	0.15	
			<i>For Galvanized Steel, Add</i>	0.51	
09 53 23 00-0013	LF		1-1/2" x 1/4" Flat Bar Bracing For Suspended Ceiling	4.59	1.42
			<i>For 304 Stainless Steel, Add</i>	4.73	
			<i>For 316 Stainless Steel, Add</i>	5.31	
			<i>For Aluminum, Add</i>	0.30	
			<i>For Galvanized Steel, Add</i>	1.03	
09 53 23 00-0014	EA		2', Exposed 15/16" Hot-dipped Galvanized Steel, Suspended Ceiling Cross Tee	5.52	0.26
			<i>Note: Can be used to convert an existing 2' x 4' suspension system to a 2' x 2' system or to replace an individual component.</i>		
09 53 23 00-0015	EA		Up To 30" Compression Posts, Telescopic, With Splay Wires, Attached To Structure	67.29	18.01
09 53 23 00-0016	EA		>30" To 48" Compression Posts, Telescopic, With Splay Wires, Attached To Structure	69.83	18.36
09 53 23 00-0017	EA		>48" To 84" Compression Posts, Telescopic, With Splay Wires, Attached To Structure	78.86	18.36
09 54			Specialty Ceilings (09 50)		
09 54 16			Luminous Ceilings (09 54)		
09 54 16 00-0001			Translucent Ceiling Panels (09 54 16)		
09 54 16 00-0002	SF		2' x 2' x 0.013" Thick, Rigid Vinyl Plastic, Translucent Ceiling Panel	2.91	0.44
			<i>For Ceilings >10' High, Add</i>	0.08	
			<i>For >100 To 200, Deduct</i>	-0.13	
			<i>For >200 To 300, Deduct</i>	-0.34	
			<i>For >300, Deduct</i>	-0.58	
09 54 23			Linear Metal Ceilings (09 54)		
09 54 23 00-0001			Linear Ceiling Systems (09 54 23)		
09 54 23 00-0002			0.032" Aluminum, Linear Ceiling Systems (09 54 23 00-0001)		
			<i>Note: For flat ceilings. Includes round or box style panels with KYNAR 500® or HYLAR 5000® PVDF finish. Includes ceiling suspension system and flush or recessed filler strips.</i>		
09 54 23 00-0003	SF		4" Panel Width, 0.032" Aluminum, Linear Ceiling System.....	14.04	1.81
			<i>For Up To 50, Add</i>	3.85	
			<i>For >50 To 200, Add</i>	2.28	
			<i>For >200 To 500, Add</i>	0.92	
			<i>For >2,500, Deduct</i>	-0.70	
			<i>For Ceilings >10' High, Add</i>	0.33	
			<i>For Linear Ceiling Systems Without Filler Strips, Deduct</i>	-2.39	
			<i>For Curved Ceilings, Add</i>	1.10	
09 54 23 00-0004	SF		8" Panel Width, 0.032" Aluminum, Linear Ceiling System.....	11.47	1.81
			<i>For Up To 50, Add</i>	3.43	
			<i>For >50 To 200, Add</i>	2.00	
			<i>For >200 To 500, Add</i>	0.79	
			<i>For >2,500, Deduct</i>	-0.57	
			<i>For Ceilings >10' High, Add</i>	0.32	
			<i>For Linear Ceiling Systems Without Filler Strips, Deduct</i>	-1.20	
			<i>For Curved Ceilings, Add</i>	1.08	
09 54 23 00-0005	SF		12" Panel Width, 0.032" Aluminum, Linear Ceiling System.....	10.46	1.81
			<i>For Up To 50, Add</i>	3.24	
			<i>For >50 To 200, Add</i>	1.88	
			<i>For >200 To 500, Add</i>	0.73	
			<i>For >2,500, Deduct</i>	-0.52	
			<i>For Ceilings >10' High, Add</i>	0.31	
			<i>For Linear Ceiling Systems Without Filler Strips, Deduct</i>	-0.80	
			<i>For Curved Ceilings, Add</i>	1.06	

09	09 Finishes
	09 50 Ceilings
	09 54 Specialty Ceilings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 54 23 00-0006	Tin Ceilings <small>(09 54 23)</small>		
09 54 23 00-0007	SF 2' x 2' Tin Ceiling Embossed Panels	19.09	2.82
	<i>For Up To 50, Add</i>	4.22	
	<i>For >50 To 200, Add</i>	2.59	
	<i>For >200 To 500, Add</i>	1.12	
	<i>For >2,500, Deduct</i>	-0.95	
	<i>For Ceilings >10' High, Add</i>	0.25	
09 54 23 00-0008	SF 12" x 12" Tin Ceiling Embossed Plates	28.60	1.81
	<i>For Up To 50, Add</i>	5.72	
	<i>For >50 To 200, Add</i>	3.58	
	<i>For >200 To 500, Add</i>	1.61	
	<i>For >2,500, Deduct</i>	-1.43	
	<i>For Ceilings >10' High, Add</i>	0.27	
09 54 23 00-0009	SF 12" x 24" Tin Ceiling Embossed Plates	20.64	1.81
	<i>For Up To 50, Add</i>	4.53	
	<i>For >50 To 200, Add</i>	2.78	
	<i>For >200 To 500, Add</i>	1.21	
	<i>For >2,500, Deduct</i>	-1.03	
	<i>For Ceilings >10' High, Add</i>	0.27	
09 54 23 00-0010	SF 24" x 24" Tin Ceiling Embossed Plates	18.95	1.81
	<i>For Up To 50, Add</i>	4.16	
	<i>For >50 To 200, Add</i>	2.56	
	<i>For >200 To 500, Add</i>	1.11	
	<i>For >2,500, Deduct</i>	-0.95	
	<i>For Ceilings >10' High, Add</i>	0.25	
09 54 23 00-0011	SF 24" x 48" Tin Ceiling Embossed Plates	16.54	1.36
	<i>For Up To 50, Add</i>	3.64	
	<i>For >50 To 200, Add</i>	2.23	
	<i>For >200 To 500, Add</i>	0.97	
	<i>For >2,500, Deduct</i>	-0.83	
	<i>For Ceilings >10' High, Add</i>	0.22	
09 54 23 00-0012	LF 3" Or 4" Wide Embossed Molding	12.23	2.73
09 54 23 00-0013	LF 6" Wide Embossed Molding	15.46	3.18
09 54 23 00-0014	LF 12" Wide Embossed Molding	20.86	3.72
09 54 23 00-0015	EA 3", 4" Or 6" Wide Embossed Cross, Tee Or Ell	35.04	8.63
09 54 23 00-0016	EA 12" Wide Embossed Cross, Tee Or Ell	49.34	10.08

09 57 Special Function Ceilings (09 50)

09 57 63 High Impact Ceilings (09 57)

09 57 63 00-0001	High Impact Ceilings <small>(09 57 63)</small>		
09 57 63 00-0002	SF Polyvinyl Chloride Face High Impact Ceiling Panels	6.30	0.88
	<i>For Ceilings >10' High, Add</i>	0.11	
09 57 63 00-0003	SF High Impact Clips	2.38	0.70
	<i>For Ceilings >10' High, Add</i>	0.08	

09 60 Flooring (09)

Note: Perform moisture testing as recommended by manufacturer.

09 61 Flooring Treatment (09 60)

09 61 13 Slip-Resistant Flooring Treatment (09 61)

09 61 13 00-0001	Anti-Slip Tape <small>(09 61 13)</small>		
	Note: Grit sandpaper surface with adhesive back.		
09 61 13 00-0002	LF 1" Anti-Slip Tape	2.21	1.77
09 61 13 00-0003	LF 2" Anti-Slip Tape	2.74	1.95
09 61 13 00-0004	LF 3" Anti-Slip Tape	3.25	2.14
09 61 13 00-0005	LF 4" Anti-Slip Tape	3.74	2.35
09 61 13 00-0006	LF 6" Anti-Slip Tape	4.68	2.59
09 61 13 00-0007	LF 12" Anti-Slip Tape	8.06	3.89
09 61 13 00-0008	LF 24" Anti-Slip Tape	11.48	5.84

09 63 Masonry Flooring (09 60)

09 63 13 Brick Flooring (09 63)

09 63 13 00-0001	Clay Bricks <small>(09 63 13)</small>		
09 63 13 00-0002	SF 2-1/4" Thick Clay Brick Floor	23.31	7.91
	<i>For Basket Weave Pattern, Add</i>	1.69	
	<i>For Herringbone Pattern, Add</i>	2.26	
	<i>For Epoxy Joints, Add</i>	4.54	
09 63 13 00-0003	SF 3" Thick Clay Brick Floor	26.29	7.91
	<i>For Basket Weave Pattern, Add</i>	1.69	
	<i>For Herringbone Pattern, Add</i>	2.26	
	<i>For Epoxy Joints, Add</i>	4.54	



Finishes	09	
Flooring	09 60	2
Masonry Flooring	09 63	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 63 13 00-0004	SF		1/2" Thick Unglazed Clay Brick Floor..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	14.90 1.69 2.26 4.54	7.91
09 63 13 00-0005	SF		1/2" Thick Glazed Clay Brick Floor..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	17.61 1.69 2.26 4.54	7.91
09 63 13 00-0006	SF		3/4" Thick Unglazed Clay Brick Floor..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	16.11 1.69 2.26 4.54	7.91
09 63 13 00-0007	SF		3/4" Thick Glazed Clay Brick Floor..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	19.71 1.69 2.26 4.54	7.91
09 63 13 00-0008	SF		15/16" Thick Unglazed Clay Brick Floor..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	17.28 1.69 2.26 4.54	7.91
09 63 13 00-0009	SF		15/16" Thick Glazed Clay Brick Floor..... <i>For Basket Weave Pattern, Add</i> <i>For Herringbone Pattern, Add</i> <i>For Epoxy Joints, Add</i>	21.83 1.69 2.26 4.54	7.91
09 63 43 Composition Stone Flooring (09 63)					
09 63 43 00-0001			Cupric Oxychloride Cement, Seamless Flooring System (09 63 43) Note: Chemical and slip resistant. OSHA and USDA approved.		
09 63 43 00-0002	SF		3/8" Thick, Cupric Oxychloride Cement, Seamless Flooring System, Trowel Applied	12.36	4.31
09 64 Wood Flooring (09 60)					
09 64 13 Wood Flooring Underlayment (09 64)					
09 64 13 00-0001			Wood Flooring Underlayment (09 64 13)		
09 64 13 00-0002	SF		Regular Weight Red Rosin Paper, Wood Flooring Underlayment.....	0.39	
09 64 13 00-0003	SF		Heavy Weight Red Rosin Paper, Wood Flooring Underlayment.....	0.39	
09 64 13 00-0004	SF		30 LB, Waxed Paper, Wood Flooring Underlayment.....	0.41	
09 64 13 00-0005	SF		15 LB, Asphalt Saturated Organic Felt, Wood Flooring Underlayment.....	0.45	
09 64 13 00-0006	SF		6 Mil Thick, Polyethylene Film, Wood Flooring Underlayment.....	0.41	
09 64 13 00-0007	SF		8 Mil Thick, Polyethylene Film, Wood Flooring Underlayment.....	0.44	
09 64 13 00-0008	SF		1/8" Thick, Natural Cork, Wood Flooring Underlayment.....	1.52	
09 64 13 00-0009	SF		1/4" Thick, Natural Cork, Wood Flooring Underlayment.....	1.58	
09 64 13 00-0010	SF		3/32" Thick, Polyethylene Foam, Wood Flooring Underlayment (Roberts® Unison™ 70-025-15).....	0.61	
09 64 13 00-0011	SF		2.0mm Thick, Progressive Foam Technology, Wood Flooring Underlayment (Roberts® Quiet Cushion 70-180).....	0.73	
09 64 13 00-0012	SF		4.0mm Thick, Compressed Fiber, Wood Flooring Underlayment (Roberts® Super Felt 70-193).....	0.78	
09 64 13 00-0013	SF		2.5mm Thick, Closed Cell Foam, Wood Flooring Underlayment (Roberts® Black Jack™ 70-026).....	0.93	
09 64 13 00-0014	SF		1/8" Thick, Moisture Barrier, Sound Reduction And Cushioning, Wood Flooring Underlayment (Roberts® AirGuard™ 70-105).....	0.95	
09 64 23 Wood Parquet Flooring (09 64)					
Note: All wood parquet flooring is prefinished at factory.					
09 64 23 00-0001			Hardwood Parquet Flooring (09 64 23)		
09 64 23 00-0002	SF		5/16" Thick Oak Parquet Flooring	8.45	0.88
			<i>For Up To 20, Add</i>	3.76	
			<i>For >20 To 50, Add</i>	1.95	
			<i>For >50 To 100, Add</i>	0.98	
			<i>For >100 To 300, Add</i>	0.49	
09 64 29 Wood Strip And Plank Flooring (09 64)					
Note: All wood strip flooring is unfinished, tongue and groove.					
09 64 29 00-0001			Unfinished Fir, Wood Strip Flooring (09 64 29)		
09 64 29 00-0002	SF		3-1/8" Plank Width, 3/4" Thick, Plain Sawn, Clear Vertical Grain (C Or Better) Unfinished Fir, Wood Strip Flooring.....	10.42	0.88
			<i>For Factory Finish, Add</i>	0.64	
			<i>For Random Width Floor, Add</i>	2.41	
			<i>For Up To 20, Add</i>	3.36	
			<i>For >20 To 50, Add</i>	1.84	
			<i>For >50 To 100, Add</i>	0.92	
			<i>For >100 To 300, Add</i>	0.46	
09 64 29 00-0003			Unfinished Oak, Wood Strip Flooring (09 64 29)		
09 64 29 00-0004			Unfinished White Oak, Wood Strip Flooring (09 64 29 00-0003)		

09 Finishes

09 60 Flooring

09 64 Wood Flooring



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 64 29 00-0005	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished White Oak, Wood Strip Flooring	8.56	0.88
			<i>For Factory Finish, Add</i>	0.34	
			<i>For Random Width Floor, Add</i>	1.88	
			<i>For Up To 20, Add</i>	3.63	
			<i>For >20 To 50, Add</i>	1.90	
			<i>For >50 To 100, Add</i>	0.95	
			<i>For >100 To 300, Add</i>	0.47	
09 64 29 00-0006	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished White Oak, Wood Strip Flooring	9.00	0.88
			<i>For Factory Finish, Add</i>	0.38	
			<i>For Random Width Floor, Add</i>	1.99	
			<i>For Up To 20, Add</i>	3.69	
			<i>For >20 To 50, Add</i>	1.94	
			<i>For >50 To 100, Add</i>	0.97	
			<i>For >100 To 300, Add</i>	0.49	
09 64 29 00-0007	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished White Oak, Wood Strip Flooring	9.66	0.88
			<i>For Factory Finish, Add</i>	0.45	
			<i>For Random Width Floor, Add</i>	2.15	
			<i>For Up To 20, Add</i>	3.79	
			<i>For >20 To 50, Add</i>	2.01	
			<i>For >50 To 100, Add</i>	1.00	
			<i>For >100 To 300, Add</i>	0.50	
09 64 29 00-0008	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished White Oak, Wood Strip Flooring	7.49	0.88
			<i>For Factory Finish, Add</i>	0.35	
			<i>For Random Width Floor, Add</i>	1.67	
			<i>For Up To 20, Add</i>	2.92	
			<i>For >20 To 50, Add</i>	1.55	
			<i>For >50 To 100, Add</i>	0.77	
			<i>For >100 To 300, Add</i>	0.39	
09 64 29 00-0009	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished White Oak, Wood Strip Flooring	7.84	0.88
			<i>For Factory Finish, Add</i>	0.39	
			<i>For Random Width Floor, Add</i>	1.76	
			<i>For Up To 20, Add</i>	2.97	
			<i>For >20 To 50, Add</i>	1.58	
			<i>For >50 To 100, Add</i>	0.79	
			<i>For >100 To 300, Add</i>	0.40	
09 64 29 00-0010	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished White Oak, Wood Strip Flooring	8.51	0.88
			<i>For Factory Finish, Add</i>	0.45	
			<i>For Random Width Floor, Add</i>	1.93	
			<i>For Up To 20, Add</i>	3.07	
			<i>For >20 To 50, Add</i>	1.65	
			<i>For >50 To 100, Add</i>	0.82	
			<i>For >100 To 300, Add</i>	0.41	
09 64 29 00-0011			Unfinished Red Oak, Wood Strip Flooring <small>(09 64 29 00-0003)</small>		
09 64 29 00-0012	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished Red Oak, Wood Strip Flooring	8.64	0.88
			<i>For Factory Finish, Add</i>	0.34	
			<i>For Random Width Floor, Add</i>	1.90	
			<i>For Up To 20, Add</i>	3.64	
			<i>For >20 To 50, Add</i>	1.91	
			<i>For >50 To 100, Add</i>	0.95	
			<i>For >100 To 300, Add</i>	0.48	
09 64 29 00-0013	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished Red Oak, Wood Strip Flooring	9.07	0.88
			<i>For Factory Finish, Add</i>	0.39	
			<i>For Random Width Floor, Add</i>	2.01	
			<i>For Up To 20, Add</i>	3.71	
			<i>For >20 To 50, Add</i>	1.95	
			<i>For >50 To 100, Add</i>	0.97	
			<i>For >100 To 300, Add</i>	0.49	
09 64 29 00-0014	SF		2-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished Red Oak, Wood Strip Flooring.....	9.73	0.88
			<i>For Factory Finish, Add</i>	0.45	
			<i>For Random Width Floor, Add</i>	2.17	
			<i>For Up To 20, Add</i>	3.80	
			<i>For >20 To 50, Add</i>	2.02	
			<i>For >50 To 100, Add</i>	1.01	
			<i>For >100 To 300, Add</i>	0.50	
09 64 29 00-0015	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #2 Common Unfinished Red Oak, Wood Strip Flooring	7.56	0.88
			<i>For Factory Finish, Add</i>	0.36	
			<i>For Random Width Floor, Add</i>	1.69	
			<i>For Up To 20, Add</i>	2.93	
			<i>For >20 To 50, Add</i>	1.55	
			<i>For >50 To 100, Add</i>	0.78	
			<i>For >100 To 300, Add</i>	0.39	
09 64 29 00-0016	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, #1 Common Unfinished Red Oak, Wood Strip Flooring	8.00	0.88
			<i>For Factory Finish, Add</i>	0.40	
			<i>For Random Width Floor, Add</i>	1.80	
			<i>For Up To 20, Add</i>	3.00	
			<i>For >20 To 50, Add</i>	1.60	
			<i>For >50 To 100, Add</i>	0.80	
			<i>For >100 To 300, Add</i>	0.40	



Finishes	09	09
Flooring	09 60	
Wood Flooring	09 64	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 64 29 00-0017	SF		3-1/4" Plank Width, 3/4" Thick, Plain Sawn, Select Unfinished Red Oak, Wood Strip Flooring .....8.58		0.88
			<i>For Factory Finish, Add</i>	0.46	
			<i>For Random Width Floor, Add</i>	1.95	
			<i>For Up To 20, Add</i>	3.08	
			<i>For >20 To 50, Add</i>	1.66	
			<i>For >50 To 100, Add</i>	0.83	
			<i>For >100 To 300, Add</i>	0.41	
09 64 29 00-0018			Unfinished Maple, Wood Strip Flooring (09 64 29)		
09 64 29 00-0019			25/32" Thick, Unfinished Maple, Wood Strip Flooring (09 64 29 00-0018)		
09 64 29 00-0020	SF		2-1/4" Plank Width, 25/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring.....10.24		0.88
			<i>For Factory Finish, Add</i>	0.50	
			<i>For Random Width Floor, Add</i>	2.30	
			<i>For Up To 20, Add</i>	3.88	
			<i>For >20 To 50, Add</i>	2.07	
			<i>For >50 To 100, Add</i>	1.03	
			<i>For >100 To 300, Add</i>	0.52	
09 64 29 00-0021	SF		2-1/4" Plank Width, 25/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring.....9.51		0.88
			<i>For Factory Finish, Add</i>	0.43	
			<i>For Random Width Floor, Add</i>	2.12	
			<i>For Up To 20, Add</i>	3.77	
			<i>For >20 To 50, Add</i>	1.99	
			<i>For >50 To 100, Add</i>	1.00	
			<i>For >100 To 300, Add</i>	0.50	
09 64 29 00-0022	SF		3" Plank Width, 25/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring .....9.31		0.88
			<i>For Factory Finish, Add</i>	0.53	
			<i>For Random Width Floor, Add</i>	2.13	
			<i>For Up To 20, Add</i>	3.19	
			<i>For >20 To 50, Add</i>	1.73	
			<i>For >50 To 100, Add</i>	0.86	
			<i>For >100 To 300, Add</i>	0.43	
09 64 29 00-0023	SF		3" Plank Width, 25/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring .....8.58		0.88
			<i>For Factory Finish, Add</i>	0.46	
			<i>For Random Width Floor, Add</i>	1.95	
			<i>For Up To 20, Add</i>	3.08	
			<i>For >20 To 50, Add</i>	1.66	
			<i>For >50 To 100, Add</i>	0.83	
			<i>For >100 To 300, Add</i>	0.41	
09 64 29 00-0024			33/32" Thick, Unfinished Maple, Wood Strip Flooring (09 64 29 00-0018)		
09 64 29 00-0025	SF		2-1/4" Plank Width, 33/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring.....11.81		0.88
			<i>For Factory Finish, Add</i>	0.66	
			<i>For Random Width Floor, Add</i>	2.69	
			<i>For Up To 20, Add</i>	4.12	
			<i>For >20 To 50, Add</i>	2.22	
			<i>For >50 To 100, Add</i>	1.11	
			<i>For >100 To 300, Add</i>	0.56	
09 64 29 00-0026	SF		2-1/4" Plank Width, 33/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring.....10.83		0.88
			<i>For Factory Finish, Add</i>	0.56	
			<i>For Random Width Floor, Add</i>	2.45	
			<i>For Up To 20, Add</i>	3.97	
			<i>For >20 To 50, Add</i>	2.13	
			<i>For >50 To 100, Add</i>	1.06	
			<i>For >100 To 300, Add</i>	0.53	
09 64 29 00-0027	SF		3" Plank Width, 33/32" Thick, Plain Sawn, First Grade (Select Or Better) Unfinished Maple, Wood Strip Flooring .....10.98		0.88
			<i>For Factory Finish, Add</i>	0.70	
			<i>For Random Width Floor, Add</i>	2.55	
			<i>For Up To 20, Add</i>	3.44	
			<i>For >20 To 50, Add</i>	1.90	
			<i>For >50 To 100, Add</i>	0.95	
			<i>For >100 To 300, Add</i>	0.47	
09 64 29 00-0028	SF		3" Plank Width, 33/32" Thick, Plain Sawn, Second Grade (#1 Common) Unfinished Maple, Wood Strip Flooring .....10.01		0.88
			<i>For Factory Finish, Add</i>	0.60	
			<i>For Random Width Floor, Add</i>	2.30	
			<i>For Up To 20, Add</i>	3.30	
			<i>For >20 To 50, Add</i>	1.80	
			<i>For >50 To 100, Add</i>	0.90	
			<i>For >100 To 300, Add</i>	0.45	
09 64 29 00-0029			Prefinished Engineered Wood Flooring (09 64 29)		
			Note: Glued or nailed. Excludes underlayment. See CSI section 09 64 13 00-0001 for wood flooring underlayment.		
09 64 29 00-0030	SF		1/2" Thick, Red Oak, Prefinished Engineered Wood Flooring.....10.76		0.88
			<i>For Up To 20, Add</i>	3.18	
			<i>For >20 To 50, Add</i>	1.77	
			<i>For >50 To 100, Add</i>	0.89	
			<i>For >100 To 300, Add</i>	0.44	

09	09 Finishes
	09 60 Flooring
	09 64 Wood Flooring



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 64 29 00-0031	SF		1/2" Thick, White Oak, Prefinished Engineered Wood Flooring	10.76	0.88
			<i>For Up To 20, Add</i>	3.18	
			<i>For >20 To 50, Add</i>	1.77	
			<i>For >50 To 100, Add</i>	0.89	
			<i>For >100 To 300, Add</i>	0.44	
09 64 29 00-0032	SF		1/2" Thick, Select Maple, Prefinished Engineered Wood Flooring	10.44	0.88
			<i>For Up To 20, Add</i>	3.13	
			<i>For >20 To 50, Add</i>	1.74	
			<i>For >50 To 100, Add</i>	0.87	
			<i>For >100 To 300, Add</i>	0.44	
09 64 29 00-0033	SF		1/2" Thick, Natural Hickory, Prefinished Engineered Wood Flooring	10.68	0.88
			<i>For Up To 20, Add</i>	3.17	
			<i>For >20 To 50, Add</i>	1.76	
			<i>For >50 To 100, Add</i>	0.88	
			<i>For >100 To 300, Add</i>	0.44	

09 64 66 Wood Athletic Flooring (09 64)

Note: On shims, sleepers and/or screeds. 1-1/2" or 2-1/4" widths. Excludes finish.

09 64 66 00-0001 Wood Gym/Stage/Dance Floors (09 64 66)

Note: Includes sanding and vent cove base. Excludes concrete repairs to subbase, thresholds, and finishing.

09 64 66 00-0002	SF		25/32" Maple Wood Gym/Stage/Dance Floor	12.14	4.43
			<i>For Oak Or Birch, Deduct</i>	-0.20	
			<i>For Pine, Deduct</i>	-0.30	
			<i>For #1 Grade Material, Add</i>	0.50	
09 64 66 00-0003	SF		Floating 25/32" Maple Wood Gym/Stage/Dance Floor System, Two Layers Of Plywood Panel Subfloor With Resilient Pads (Connor DuraCushion)	16.19	5.76
			Note: Includes 6 mil polyethylene vapor barrier, two layers of 15/32" plywood subfloor and 3/8" resilient pads.		
			<i>For Oak Or Birch, Deduct</i>	-0.20	
			<i>For Pine, Deduct</i>	-0.30	
			<i>For #1 Grade Material, Add</i>	0.50	
09 64 66 00-0004	SF		Floating 25/32" Maple Wood Gym/Stage/Dance Floor System, Two Layers Of Plywood Panel Subfloor With Two Stage Resilient Pads (Connor NeoShok)	17.10	5.76
			Note: Includes 6 mil polyethylene vapor barrier, two layers of 15/32" plywood subfloor and 3/4" hemispherical two stage polyurethane resilient pads.		
			<i>For Oak Or Birch, Deduct</i>	-0.20	
			<i>For Pine, Deduct</i>	-0.30	
			<i>For #1 Grade Material, Add</i>	0.50	
09 64 66 00-0005	SF		Floating 25/32" Maple Wood Gym/Stage/Dance Floor System, One Layer Of Plywood Subfloor With Continuous Steel Channel Encased Sleepers And Resilient Pads (Connor PermaFlex)	19.05	5.76
			Note: Includes 6 mil polyethylene vapor barrier, one layer of 15/32" plywood subfloor, a continuous steel channel encasing a 23/32" fixed sleeper, a 7/16" resilient pad and a 23/32" flex sleeper.		
			<i>For Oak Or Birch, Deduct</i>	-0.20	
			<i>For Pine, Deduct</i>	-0.30	
			<i>For #1 Grade Material, Add</i>	0.50	
09 64 66 00-0006	SF		Fixed Resilient 25/32" Maple Wood Gym/Stage/Dance Floor System, One Layer Of Plywood Panel Subfloor With Resilient Pads (Connor Focus)	18.15	5.76
			Note: Includes 6 mil polyethylene vapor barrier, one layer of 3/4" subfloor, 9/16" resilient pads and concrete anchors and clips.		
			<i>For Oak Or Birch, Deduct</i>	-0.20	
			<i>For Pine, Deduct</i>	-0.30	
			<i>For #1 Grade Material, Add</i>	0.50	
09 64 66 00-0007	SF		Clip And Channel, Fixed 33/32" Maple Wood Gym/Stage/Dance Floor System (Connor PermaLock)	20.57	5.76
			Note: Includes 6 mil polyethylene vapor barrier, one layer of 1/2" impregnated fiberboard with channel grooves for 16 gauge steel anchor channel.		
			<i>For Oak Or Birch, Deduct</i>	-0.20	
			<i>For Pine, Deduct</i>	-0.30	
			<i>For #1 Grade Material, Add</i>	0.50	

09 65 Resilient Flooring (09 60)

See CSI section 03 54 16 00-0001 for self leveling underlayment for uneven floors.

09 65 13 Resilient Base And Accessories (09 65)

09 65 13 13 Resilient Base (09 65 13)

09 65 13 13-0001 Type TV Thermoplastic Vinyl Wall Base (09 65 13 13)

Note: Includes inside and outside corners.

09 65 13 13-0002	LF		2-1/2" High, 1/8" Thick, Type TV Thermoplastic Vinyl Wall Base, All Colors	2.68	0.88
			<i>For Up To 20, Add</i>	1.11	
			<i>For >20 To 40, Add</i>	0.62	
			<i>For >40 To 80, Add</i>	0.22	
			<i>For >240 To 960, Deduct</i>	-0.18	
			<i>For >960, Deduct</i>	-0.27	
09 65 13 13-0003	LF		4" High, 1/8" Thick, Type TV Thermoplastic Vinyl Wall Base, All Colors	3.03	0.88
			<i>For Up To 20, Add</i>	1.16	
			<i>For >20 To 40, Add</i>	0.66	
			<i>For >40 To 80, Add</i>	0.24	
			<i>For >240 To 960, Deduct</i>	-0.21	
			<i>For >960, Deduct</i>	-0.32	



Finishes	09	09
Flooring	09 60	
Resilient Flooring	09 65	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 13-0004 LF 6" High, 1/8" Thick, Type TV Thermoplastic Vinyl Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	3.77 1.27 0.73 0.28 -0.29 -0.43	0.88
09 65 13 13-0005 Type TP Thermoplastic Rubber Wall Base (09 65 13 13) Note: Includes inside and outside corners.		
09 65 13 13-0006 LF 2-1/2" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	2.91 1.14 0.65 0.23 -0.20 -0.30	0.88
09 65 13 13-0007 LF 4" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors..... <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	3.16 1.18 0.67 0.25 -0.23 -0.34	0.88
09 65 13 13-0008 LF 6" High, 1/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors..... <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	3.88 1.29 0.74 0.28 -0.30 -0.45	0.88
09 65 13 13-0009 LF 2-1/2" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	4.89 1.44 0.64 0.33 -0.40 -0.60	0.88
09 65 13 13-0010 LF 3" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors..... <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	5.11 1.47 0.87 0.34 -0.42 -0.63	0.88
09 65 13 13-0011 LF 4-1/2" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	6.24 1.64 0.98 0.40 -0.54 -0.80	0.88
09 65 13 13-0012 LF 6" High, 3/8" Thick, Type TP Thermoplastic Rubber Wall Base, All Colors..... <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	8.48 1.98 1.20 0.51 -0.76 -1.14	0.88
09 65 13 13-0013 Type TS Thermoset Vulcanized Rubber Wall Base (09 65 13 13) Note: Includes inside and outside corners.		
09 65 13 13-0014 LF 2-1/2" High, 1/8" Thick, Type TS Thermoset Vulcanized Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	3.19 1.19 0.67 0.25 -0.23 -0.35	1.07
09 65 13 13-0015 LF 4" High, 1/8" Thick, Type TS Thermoset Vulcanized Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	3.20 1.19 0.67 0.25 -0.23 -0.35	0.88
09 65 13 13-0016 LF 6" High, 1/8" Thick, Type TS Thermoset Vulcanized Rubber Wall Base, All Colors <i>For Up To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >40 To 80, Add</i> <i>For >240 To 960, Deduct</i> <i>For >960, Deduct</i>	4.59 1.54 0.88 0.34 -0.35 -0.53	1.07
09 65 13 23 Resilient Stair Treads And Risers (09 65 13) Note: All treads have integral nosing. Abrasive strip modifiers include either 1 or 2 strips running the length of the tread. All colors.		
09 65 13 23-0001 Rubber Stair Treads and Risers (09 65 13 23)		
09 65 13 23-0002 Raised Disc Or Other Patterned Rubber Stair Tread (09 65 13 23-0001)		

09 Finishes**09 60 Flooring****09 65 Resilient Flooring**

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 23-0003 LF 3/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread.....	13.35	1.42
Note: Raised disc or other pattern.		
For Abrasive Strip, Add	2.75	
For Photo Luminescent Abrasive Strip, Add	3.75	
09 65 13 23-0004 LF 1/4" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread.....	14.34	1.52
Note: Raised disc or other pattern.		
For Abrasive Strip, Add	2.75	
For Photo Luminescent Abrasive Strip, Add	3.75	
09 65 13 23-0005 LF 5/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread.....	17.59	1.63
Note: Raised disc or other pattern.		
For Abrasive Strip, Add	2.75	
For Photo Luminescent Abrasive Strip, Add	3.75	
09 65 13 23-0006 Smooth Surface Rubber Stair Tread (09 65 13 23-0001)		
09 65 13 23-0007 LF 3/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread.....	12.51	1.42
Note: Smooth surface.		
For Abrasive Strip, Add	2.75	
For Photo Luminescent Abrasive Strip, Add	3.75	
09 65 13 23-0008 LF 1/4" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread.....	13.39	1.52
Note: Smooth surface.		
For Abrasive Strip, Add	2.75	
For Photo Luminescent Abrasive Strip, Add	3.75	
09 65 13 23-0009 LF 5/16" Thick, 9" To 12-1/2" Deep, Rubber Stair Tread.....	16.36	1.64
Note: Smooth surface.		
For Abrasive Strip, Add	2.75	
For Photo Luminescent Abrasive Strip, Add	3.75	
09 65 13 23-0010 Smooth Surface Rubber Stair Riser (09 65 13 23-0001)		
09 65 13 23-0011 LF 1/8" Thick, Smooth Surface Rubber Stair Riser	7.29	0.85
09 65 13 23-0012 Smooth, Raised Disc or Other Patterned Rubber Landing Mats (09 65 13 23-0001)		
09 65 13 23-0013 SF 1/8" Thick, Rubber Landing Mats	15.98	1.31
Note: Smooth, raised disc or other patterned surface.		
09 65 13 23-0014 SF 3/16" Thick, Rubber Landing Mats	19.07	1.42
Note: Smooth, raised disc or other patterned surface.		
09 65 13 23-0015 SF 7/32" Thick, Rubber Landing Mats	20.72	1.60
Note: Smooth, raised disc or other patterned surface.		
09 65 13 23-0016 Vinyl Stair Treads and Risers (09 65 13 23)		
09 65 13 23-0017 Ribbed Vinyl Stair Tread (09 65 13 23-0016)		
09 65 13 23-0018 LF 1/8" Thick, 9" To 12-1/2" Deep, Ribbed Vinyl Stair Tread	11.03	1.29
For Abrasive Strip, Add	2.75	
09 65 13 23-0019 LF 3/16" Thick, 9" To 12-1/2" Deep, Ribbed Vinyl Stair Tread	12.18	1.42
For Abrasive Strip, Add	2.75	
09 65 13 23-0020 LF 1/4" Thick, 9" To 12-1/2" Deep, Ribbed Vinyl Stair Tread	14.61	1.53
For Abrasive Strip, Add	2.75	
09 65 13 23-0021 Smooth Surface Vinyl Stair Riser (09 65 13 23-0016)		
09 65 13 23-0022 LF 1/8" Thick, 7" High, Smooth Surface Vinyl Stair Riser.....	6.15	0.85
09 65 13 33 Resilient Accessories (09 65 13)		
09 65 13 33-0001 Flexible Self Leveling Cementitious Underlayments (09 65 13 33)		
09 65 13 33-0002 SF 1/8" Thick, Flexible Self Leveling Cementitious Underlayment With Liquid Latex Modifiers.....	1.22	0.70
09 65 13 33-0003 SF 1/4" Thick, Flexible Self Leveling Cementitious Underlayment With Liquid Latex Modifiers.....	1.86	0.70
09 65 13 33-0004 Concrete Floor Prep (09 65 13 33)		
09 65 13 33-0005 SF Removal Of Glue From Concrete Floor.....	0.88	
Note: For removal of glue from VCT or carpet placement. Not to be used in conjunction with demolition tasks associated with floor tile installation.		
09 65 13 36 Resilient Carpet Transitions (09 65 13)		
09 65 13 36-0001 Vinyl Transition Strip (09 65 13 36)		
09 65 13 36-0002 LF Vinyl Transition Strip, Brown Or Black	1.50	0.63
For >240 To 960, Deduct	-0.11	
For >960, Deduct	-0.16	
09 65 13 36-0003 LF Vinyl Floor Tile Reducer Strip, Brown Or Black	1.37	0.63
For >240 To 960, Deduct	-0.09	
For >960, Deduct	-0.14	
09 65 13 36-0004 LF Vinyl Floor Tile Feature Strip, Brown Or Black.....	1.21	0.63
For >240 To 960, Deduct	-0.08	
For >960, Deduct	-0.12	



Finishes	09	09
Flooring	09 60	
Resilient Flooring	09 65	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 36-0005 LF 1/4" To 1/8" Material, Narrow, Vinyl, Slim Line Transition (Johnsonite SLT-XX-A)	2.12	0.88
For Up To 20, Add	0.89	
For >20 To 40, Add	0.50	
For >40 To 80, Add	0.18	
For >240 To 960, Deduct	-0.14	
For >960, Deduct	-0.21	
09 65 13 36-0006 Vinyl, Wheeled Traffic Transitions (09 65 13 36)		
09 65 13 36-0007 LF 1/4" To 1/8" Material x 1-3/4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-A)	2.57	0.88
For Up To 20, Add	0.95	
For >20 To 40, Add	0.54	
For >40 To 80, Add	0.20	
For >240 To 960, Deduct	-0.19	
For >960, Deduct	-0.28	
09 65 13 36-0008 LF 1/4" To 1/8" Material x 1", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-C)	2.57	0.88
For Up To 20, Add	0.95	
For >20 To 40, Add	0.54	
For >40 To 80, Add	0.20	
For >240 To 960, Deduct	-0.19	
For >960, Deduct	-0.28	
09 65 13 36-0009 LF 5/16" To 1/16" Or 1/8" Material x 1-5/8", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-D)	3.08	0.88
For Up To 20, Add	1.03	
For >20 To 40, Add	0.59	
For >40 To 80, Add	0.23	
For >240 To 960, Deduct	-0.24	
For >960, Deduct	-0.36	
09 65 13 36-0010 LF 1/4" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-H)	4.89	0.88
For Up To 20, Add	1.30	
For >20 To 40, Add	0.77	
For >40 To 80, Add	0.32	
For >240 To 960, Deduct	-0.42	
For >960, Deduct	-0.63	
09 65 13 36-0011 LF 1/4" To 1/8" Material x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-HL)	4.90	0.88
For Up To 20, Add	1.30	
For >20 To 40, Add	0.77	
For >40 To 80, Add	0.32	
For >240 To 960, Deduct	-0.42	
For >960, Deduct	-0.63	
09 65 13 36-0012 LF 1/4" To 0.08" Or 2 mm Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-HT)	3.35	0.88
For Up To 20, Add	1.07	
For >20 To 40, Add	0.62	
For >40 To 80, Add	0.24	
For >240 To 960, Deduct	-0.26	
For >960, Deduct	-0.40	
09 65 13 36-0013 LF 1/4" Material To Floor x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-J)	4.77	0.88
For Up To 20, Add	1.28	
For >20 To 40, Add	0.76	
For >40 To 80, Add	0.31	
For >240 To 960, Deduct	-0.41	
For >960, Deduct	-0.61	
09 65 13 36-0014 LF 1/4" Material To Floor x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-JL)	4.94	0.88
For Up To 20, Add	1.31	
For >20 To 40, Add	0.78	
For >40 To 80, Add	0.32	
For >240 To 960, Deduct	-0.42	
For >960, Deduct	-0.63	
09 65 13 36-0015 LF 3/8" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-K)	4.21	0.88
For Up To 20, Add	1.20	
For >20 To 40, Add	0.71	
For >40 To 80, Add	0.28	
For >240 To 960, Deduct	-0.35	
For >960, Deduct	-0.53	
09 65 13 36-0016 LF 3/8" To 1/4" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-L)	4.56	0.88
For Up To 20, Add	1.25	
For >20 To 40, Add	0.74	
For >40 To 80, Add	0.30	
For >240 To 960, Deduct	-0.39	
For >960, Deduct	-0.58	
09 65 13 36-0017 LF 1/4" To 1/4" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-M)	4.94	0.88
For Up To 20, Add	1.31	
For >20 To 40, Add	0.78	
For >40 To 80, Add	0.32	
For >240 To 960, Deduct	-0.42	
For >960, Deduct	-0.63	
09 65 13 36-0018 LF 1/8" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-N)	4.14	0.88
For Up To 20, Add	1.19	
For >20 To 40, Add	0.70	
For >40 To 80, Add	0.28	
For >240 To 960, Deduct	-0.34	
For >960, Deduct	-0.51	

09 Finishes**09 60 Flooring****09 65 Resilient Flooring**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 13 36-0019	LF		3/8" Material To Floor x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-P).....	3.54	0.88
			<i>For Up To 20, Add</i>	1.10	
			<i>For >20 To 40, Add</i>	0.64	
			<i>For >40 To 80, Add</i>	0.25	
			<i>For >240 To 960, Deduct</i>	-0.28	
			<i>For >960, Deduct</i>	-0.42	
09 65 13 36-0020	LF		3/8" Material To Floor x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-PL).....	5.06	0.88
			<i>For Up To 20, Add</i>	1.33	
			<i>For >20 To 40, Add</i>	0.79	
			<i>For >40 To 80, Add</i>	0.32	
			<i>For >240 To 960, Deduct</i>	-0.44	
			<i>For >960, Deduct</i>	-0.65	
09 65 13 36-0021	LF		1/2" Material To Floor x 4", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-Q).....	6.43	0.88
			<i>For Up To 20, Add</i>	1.53	
			<i>For >20 To 40, Add</i>	0.93	
			<i>For >40 To 80, Add</i>	0.39	
			<i>For >240 To 960, Deduct</i>	-0.57	
			<i>For >960, Deduct</i>	-0.86	
09 65 13 36-0022	LF		0.08" To 1/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-X).....	3.45	0.88
			<i>For Up To 20, Add</i>	1.09	
			<i>For >20 To 40, Add</i>	0.63	
			<i>For >40 To 80, Add</i>	0.24	
			<i>For >240 To 960, Deduct</i>	-0.27	
			<i>For >960, Deduct</i>	-0.41	
09 65 13 36-0023	LF		0.08" To 0.08" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-Y).....	3.50	0.88
			<i>For Up To 20, Add</i>	1.09	
			<i>For >20 To 40, Add</i>	0.63	
			<i>For >40 To 80, Add</i>	0.25	
			<i>For >240 To 960, Deduct</i>	-0.28	
			<i>For >960, Deduct</i>	-0.42	
09 65 13 36-0024	LF		0.08" To 3/8" Material x 2-1/2", Vinyl, Wheeled Traffic Transition (Johnsonite CTA-XX-Z).....	3.93	0.88
			<i>For Up To 20, Add</i>	1.16	
			<i>For >20 To 40, Add</i>	0.68	
			<i>For >40 To 80, Add</i>	0.27	
			<i>For >240 To 960, Deduct</i>	-0.32	
			<i>For >960, Deduct</i>	-0.48	

09 65 16 Resilient Sheet Flooring (09 65)

Note: Includes mastic and cleaning floor after installation is complete.

09 65 16 23 Vinyl Sheet Flooring (09 65 16)**09 65 16 23-0001 Vinyl Sheet Flooring (09 65 16 23)**

Note: For flash cove application, add additional square foot of material to form cove base.

09 65 16 23-0002	SF		0.080" Overall Thickness, 0.080" Wear Layer, Homogeneous, Commercial Vinyl Sheet Flooring (Armstrong® Medintech®).....	6.65	0.53
			<i>For Up To 40, Add</i>	2.75	
			<i>For >40 To 100, Add</i>	1.37	
			<i>For >1,000, Deduct</i>	-0.56	
09 65 16 23-0003	SF		0.080" Overall Thickness, 0.080" Wear Layer, Homogeneous, Commercial Vinyl Sheet Flooring (Armstrong® Medley™).....	5.46	0.53
			<i>For Up To 40, Add</i>	2.51	
			<i>For >40 To 100, Add</i>	1.25	
			<i>For >1,000, Deduct</i>	-0.44	
09 65 16 23-0004	SF		0.080" Overall Thickness, 0.050" Wear Layer, Inlaid With Polyglass Backing, Commercial Vinyl Sheet Flooring (Armstrong® Connection Corlon®).....	3.61	0.53
			<i>For Up To 40, Add</i>	2.14	
			<i>For >40 To 100, Add</i>	1.07	
			<i>For >1,000, Deduct</i>	-0.25	
09 65 16 23-0005	SF		0.080" Overall Thickness, 0.040" Wear Layer, Inlaid With Polyglass Backing, Commercial Vinyl Sheet Flooring (Armstrong® Possibilities® Petit Point™).....	4.64	0.53
			<i>For Up To 40, Add</i>	2.35	
			<i>For >40 To 100, Add</i>	1.17	
			<i>For >1,000, Deduct</i>	-0.36	
09 65 16 23-0006	SF		0.080" Overall Thickness, 0.060" Wear Layer, Inlaid With Felt Backing, Commercial Vinyl Sheet Flooring (Armstrong® Medintech Tandem®).....	6.17	0.53
			<i>For Up To 40, Add</i>	2.65	
			<i>For >40 To 100, Add</i>	1.33	
			<i>For >1,000, Deduct</i>	-0.51	
09 65 16 23-0007	SF		0.080" Overall Thickness, 0.020" Wear Layer, Slip Retardant Surface, Commercial Vinyl Sheet Flooring (Armstrong® Safeguard®).....	8.47	0.53
			<i>For Up To 40, Add</i>	3.11	
			<i>For >40 To 100, Add</i>	1.56	
			<i>For >1,000, Deduct</i>	-0.74	

09 65 16 23-0008 Heat Welding Vinyl Sheet Flooring Seams (09 65 16 23)

Note: For areas requiring seamless installations and superior infection control. Includes routing or hand grooving seams, installing welding rod with heat welding gun, trimming the weld rod flush with the floor surface and applying a protective finish to seam.

09 65 16 23-0009	LF		Heat Weld Non-Patterned Vinyl Sheet Flooring Seams.....	4.94	
09 65 16 23-0010	LF		Heat Weld Patterned Vinyl Sheet Flooring Seams.....	5.19	



		Finishes	09
		Flooring	09 60
		Resilient Flooring	09 65

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 65 16 23-0011			Forming Vinyl Sheet Flooring Inside/Outside Cove Corners (09 65 16 23)		
			Note: Excludes heat welding.		
09 65 16 23-0012	EA		Forming Vinyl Sheet Flooring Inside/Outside Cove Corners	11.82	
09 65 16 23-0013			Vinyl Sheet Flooring Accessories (09 65 16 23)		
09 65 16 23-0014	LF		1/2" Radius Vinyl Cove Filler Strip	2.73	
09 65 16 23-0015	LF		1-1/4" Radius Vinyl Cove Filler Strip	2.47	
09 65 16 23-0016	LF		1-1/2" Radius Vinyl Cove Filler Strip	3.70	
09 65 16 23-0017	LF		1/8" Aluminum Cove Cap	2.01	
09 65 19			Resilient Tile Flooring (09 65)		
			Note: Includes mastic and cleaning floor after installation is complete. Demolition includes removal of the tile and adhesive and cleaning of the surface for a new floor.		
09 65 19 19			Vinyl Composition Tile Flooring (09 65 19)		
09 65 19 19-0001			Vinyl Composition Tile (VCT) (09 65 19 19)		
			Note: The following vinyl composition tiles are certified to ASTM F 1066 Class 1 solid color tile, Class 2 through pattern tile or Class 3 surface pattern tile as listed in the task description.		
09 65 19 19-0002	SF		1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Standard Excelon Imperial Texture®)	2.40	1.07
			For >1,000 To 3,000, Deduct	-0.05	
			For >3,000 To 6,000, Deduct	-0.14	
			For >6,000, Deduct	-0.26	
			For 3/32" Thick, Deduct	-0.11	
			For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 19-0003	SF		1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Standard Excelon MultiColor™)	2.32	1.07
			For >1,000 To 3,000, Deduct	-0.05	
			For >3,000 To 6,000, Deduct	-0.14	
			For >6,000, Deduct	-0.26	
			For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 19-0004	SF		1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Standard Excelon Rave®)	2.32	1.07
			For >1,000 To 3,000, Deduct	-0.05	
			For >3,000 To 6,000, Deduct	-0.14	
			For >6,000, Deduct	-0.26	
			For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 19-0005	SF		1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® ChromaSpin™)	3.29	1.07
			For >1,000 To 3,000, Deduct	-0.07	
			For >3,000 To 6,000, Deduct	-0.18	
			For >6,000, Deduct	-0.32	
			For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 19-0006	SF		1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Excelon Companion Square®)	3.29	1.07
			For >1,000 To 3,000, Deduct	-0.07	
			For >3,000 To 6,000, Deduct	-0.18	
			For >6,000, Deduct	-0.32	
			For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 19-0007	SF		1/8" Thick, Class 3 Surface Pattern, Vinyl Composition Tile (VCT) (Armstrong® Arteffects®)	3.48	1.07
			For >1,000 To 3,000, Deduct	-0.08	
			For >3,000 To 6,000, Deduct	-0.19	
			For >6,000, Deduct	-0.33	
			For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 19-0008	SF		1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Excelon Stonetex®)	3.51	1.07
			For >1,000 To 3,000, Deduct	-0.08	
			For >3,000 To 6,000, Deduct	-0.19	
			For >6,000, Deduct	-0.33	
			For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 19-0009	SF		1/8" Thick, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Raffia™)	3.62	1.07
			For >1,000 To 3,000, Deduct	-0.08	
			For >3,000 To 6,000, Deduct	-0.19	
			For >6,000, Deduct	-0.34	
			For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 19-0010	SF		1/8" Thick, Slip Retardant, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® Safety Zone™)	4.67	1.07
			For >1,000 To 3,000, Deduct	-0.10	
			For >3,000 To 6,000, Deduct	-0.23	
			For >6,000, Deduct	-0.40	
			For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 19-0011	SF		1/8" Thick, Class 1 Solid Color, Vinyl Composition Tile (VCT) (Armstrong® Excelon Feature™)	5.08	1.07
			For >1,000 To 3,000, Deduct	-0.11	
			For >3,000 To 6,000, Deduct	-0.25	
			For >6,000, Deduct	-0.42	
			For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 19-0012			Static Dissipative Vinyl Composition Tile (VCT) (09 65 19 19)		
			Note: The following vinyl composition tiles are certified to ASTM F 1066 Class 2 through pattern tile as listed in the task description.		
09 65 19 19-0013	SF		1/8" Thick, Static Dissipative, Class 2 Through Pattern, Vinyl Composition Tile (VCT) (Armstrong® SDT™)	11.18	1.07
			For >1,000 To 3,000, Deduct	-0.23	
			For >3,000 To 6,000, Deduct	-0.52	
			For >6,000, Deduct	-0.87	
			For Extra Stock, Material Only, Deduct	-2.10	

09	09 Finishes
	09 60 Flooring
	09 65 Resilient Flooring



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 65 19 23 Vinyl Tile Flooring (09 65 19)

09 65 19 23-0001	Vinyl Tile (09 65 19 23) Note: Any size.		
09 65 19 23-0002	Solid Vinyl Tile (SVT) (09 65 19 23-0001) Note: The following solid vinyl tiles are certified to ASTM F 1700.		
09 65 19 23-0003	SF 1/8" Thick, Class 1 Type A, Homogeneous, Solid Vinyl Tile (SVT) (Tarkett® Azrock® Cortina Grande).....	5.73	1.07
	For >1,000 To 3,000, Deduct	-0.12	
	For >3,000 To 6,000, Deduct	-0.29	
	For >6,000, Deduct	-0.51	
09 65 19 23-0004	SF 1/8" Thick, Class 1 Type A, Homogeneous, Solid Vinyl Tile (SVT) (Tarkett® Azrock® Karim Kolors).....	5.87	1.07
	For >1,000 To 3,000, Deduct	-0.13	
	For >3,000 To 6,000, Deduct	-0.30	
	For >6,000, Deduct	-0.52	
09 65 19 23-0005	SF 1/8" Thick, Slip Retardant, Class 1 Type B, Homogeneous, Solid Vinyl Tile (SVT) (Tarkett® Azrock® Cortina Grande SR).....	5.97	1.07
	For >1,000 To 3,000, Deduct	-0.13	
	For >3,000 To 6,000, Deduct	-0.30	
	For >6,000, Deduct	-0.52	
09 65 19 23-0006	Luxury Vinyl Tile (LVT) (09 65 19 23-0001)		
09 65 19 23-0007	SF 2.5mm Thick, Luxury Vinyl Tile (LVT) (Mannington Amtico).....	8.66	1.07
	For >1,000 To 3,000, Deduct	-0.18	
	For >3,000 To 6,000, Deduct	-0.41	
	For >6,000, Deduct	-0.68	

09 65 19 33 Rubber Tile Flooring (09 65 19)

09 65 19 33-0001	Rubber Tile (09 65 19 33)		
09 65 19 33-0002	Rubber Tile With Raised Discs, Assorted Colors (09 65 19 33-0001)		
09 65 19 33-0003	SF 1/8" Thick Rubber Tile With Raised Discs..... Note: Smooth, raised disc or other patterned surface.	13.44	0.63
	For Up To 100, Add	0.74	
09 65 19 33-0004	SF 3/16" Thick Rubber Tile With Raised Discs..... Note: Smooth, raised disc or other patterned surface.	16.29	0.70
	For Up To 100, Add	0.89	
09 65 19 33-0005	SF 7/32" Thick Rubber Tile With Raised Discs..... Note: Smooth, raised disc or other patterned surface.	18.12	0.85
	For Up To 100, Add	0.99	

09 65 19 43 Polyester Composition Tile Flooring (09 65 19)

09 65 19 43-0001	Polyester Composition Floor Tile (09 65 19 43) Note: Any size.		
09 65 19 43-0002	SF 1/8" Thick, Polyester Composition Floor Tile (Armstrong® BioBased Tile® Migrations®).....	3.34	1.07
	For >1,000 To 3,000, Deduct	-0.07	
	For >3,000 To 6,000, Deduct	-0.18	
	For >6,000, Deduct	-0.32	
	For Extra Stock, Material Only, Deduct	-1.24	
09 65 19 43-0003	SF 1/8" Thick, Polyester Composition Floor Tile (Armstrong® BioBased Tile® Striations®).....	3.77	1.07
	For >1,000 To 3,000, Deduct	-0.08	
	For >3,000 To 6,000, Deduct	-0.20	
	For >6,000, Deduct	-0.34	
	For Extra Stock, Material Only, Deduct	-1.24	

09 65 23 Resilient Plank Flooring (09 65)

Note: Includes mastic and cleaning floor after installation is complete.

09 65 23 00-0001	Vinyl Plank Flooring (09 65 23)		
09 65 23 00-0002	SF 0.110" Overall Thickness, 0.012" Wear Layer, Vinyl Plank Flooring (Armstrong® Luxe Plank™).....	5.03	0.53
	For Up To 40, Add	2.42	
	For >40 To 100, Add	1.21	
	For >1,000, Deduct	-0.39	
09 65 23 00-0003	SF 0.135" Overall Thickness, 0.020" Wear Layer, Vinyl Plank Flooring (Armstrong® Luxe Plank™).....	6.30	0.53
	For Up To 40, Add	2.68	
	For >40 To 100, Add	1.34	
	For >1,000, Deduct	-0.52	
09 65 23 00-0004	SF 0.16" Overall Thickness, 0.020" Wear Layer, Vinyl Plank Flooring (Armstrong® Luxe Plank™).....	7.08	0.53
	For Up To 40, Add	2.83	
	For >40 To 100, Add	1.42	
	For >1,000, Deduct	-0.60	

09 65 43 Linoleum Flooring (09 65)

Note: Includes mastic and cleaning floor after installation is complete.

09 65 43 00-0001	Linoleum Flooring (09 65 43)		
09 65 43 00-0002	SF Linoleum Tile (Forbo Marmoleum Composition Tile, MCT).....	4.45	1.07



		Finishes	09
		Flooring	09 60
		Resilient Flooring	09 65

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 65 43 00-0003	SF		2.5 mm, Linoleum Sheet (Forbo Marmoleum)..... <i>For 3.2mm Thickness, Add</i> <i>For 2mm Thickness, Deduct</i>	3.29 0.44 -0.21	0.53
09 65 43 00-0004	LF		Heat Weld Linoleum Sheet Flooring Seams Note: For areas requiring seamless installations and superior infection control. Includes routing or hand grooving seams, installing welding rod with heat welding gun, trimming the weld rod flush with the floor surface and applying a protective finish to seam.	4.94	
09 65 66 Resilient Athletic Flooring (09 65)					
09 65 66 00-0001 Recycled Rubber, Interlocking Athletic Tiles (09 65 66)					
09 65 66 00-0002	SF		3/8" Height, Recycled Rubber, Interlocking Athletic Tile <i>For Colors, Add</i>	4.52 0.76	0.49
09 65 66 00-0003	SF		1/2" Height, Recycled Rubber, Interlocking Athletic Tile <i>For Colors, Add</i>	5.27 0.88	0.62
09 65 66 00-0004	SF		3/4" Height, Recycled Rubber, Interlocking Athletic Tile <i>For Colors, Add</i>	6.19 0.95	1.00
09 65 66 00-0005	SF		1" Height, Recycled Rubber, Interlocking Athletic Tile <i>For Colors, Add</i>	8.94 1.44	1.21
09 65 66 00-0006 Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tiles (09 65 66)					
09 65 66 00-0007	SF		3/8" Height, Black Hammered Surface, Closed Cell, 100 Percent Virgin Rubber, Hidden Interlocking Athletic Tile (Pawling HL-155)..... <i>For Colors, Add</i>	23.58 2.86	0.49
09 65 66 00-0008	SF		9/16" Height, Black Raised Squares Surface, Closed Cell, 100 Percent Virgin Rubber, Hidden Interlocking Athletic Tile (Pawling HL-100)..... <i>For Colors, Add</i>	34.07 4.17	0.49
09 65 66 00-0009	SF		3/8" Height, Black Raised Discs Surface, Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tile (Pawling PL-100)..... <i>For Colors, Add</i>	24.90 3.03	0.49
09 65 66 00-0010	SF		9/16" Height, Black Raised Nubs Surface, Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tile (Pawling PL-200)..... <i>For Colors, Add</i>	30.62 3.74	0.49
09 65 66 00-0011	SF		7/16" Height, Black Reversible Hammered Surface, Closed Cell, 100 Percent Virgin Rubber, Interlocking Athletic Tile (Pawling FL-150)..... <i>For Colors, Add</i>	25.60 3.11	0.49
09 65 66 00-0012 Sheet Goods For Gym (09 65 66)					
09 65 66 00-0013	SF		1/4" Polyvinyl Chloride (PVC) Cushioned Synthetic Gym Floor	6.01	2.12
09 65 66 00-0014	SF		9/32" Polyvinyl Chloride (PVC) Cushioned Synthetic Gym Floor	6.33	2.19
09 65 66 00-0015	SF		3/8" Polyvinyl Chloride (PVC) Cushioned Synthetic Gym Floor	6.58	2.26
09 65 66 00-0016	SF		1/8" Rubber Sheet Good For Gym Floor Base.....	3.94	1.74
09 65 66 00-0017	SF		3/16" Rubber Sheet Good For Gym Floor Base.....	4.44	1.98
09 65 66 00-0018	SF		1/4" Rubber Sheet Good For Gym Floor Base.....	5.19	2.12
09 65 66 00-0019	SF		3/8" Rubber Sheet Good For Gym Floor Base.....	5.73	2.26
09 65 66 00-0020	SF		1/2" Rubber Sheet Good For Gym Floor Base.....	6.09	2.41
09 65 66 00-0021 Polyurethane Floor Systems (09 65 66)					
See CSI section 09 93 23 53-0015 for game lines.					
09 65 66 00-0022	SF		9 mm Thick Base Coat, 2 mm Thick Top Coat, Polyurethane Floor System With Polyurethane/Rubber Granulate Base (Robbins Pulastic).....	14.76	1.42
09 66 Terrazzo Flooring (09 60)					
09 66 13 Portland Cement Terrazzo Flooring (09 66)					
Note: Excludes divider strips. See CSI section 09 66 33 00-0000 for conductive terrazzo.					
09 66 13 13 Sand Cushion Terrazzo Flooring (09 66 13)					
09 66 13 13-0001 Floors Not Bonded To Concrete (09 66 13 13)					
Note: 3" Thick - 5/8" topping and 1/4" sand cushion.					
09 66 13 13-0002	SF		Terrazzo Floor, Not Bonded, Gray Cement 3" Thick With 5/8" Topping, 1/4" Sand Cushion..... <i>For Venetian Type Terrazzo, Add</i> <i>For Abrasive Heavy Duty Terrazzo, Add</i> <i>For Colors, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i>	24.75 6.19 6.19 3.10 6.19 3.09	2.32
09 66 13 13-0003	SF		Terrazzo Floor, Not Bonded, White Cement 3" Thick With 5/8" Topping, 1/4" Sand Cushion..... <i>For Venetian Type Terrazzo, Add</i> <i>For Abrasive Heavy Duty Terrazzo, Add</i> <i>For Colors, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i>	24.87 6.25 6.25 3.13 6.20 3.10	2.32
09 66 13 16 Monolithic Terrazzo Flooring (09 66 13)					
09 66 13 16-0001			Monolithic Terrazzo (09 66 13 16)		

09	09 Finishes
	09 60 Flooring
	09 66 Terrazzo Flooring



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 66 13 16-0002	SF		Monolithic Terrazzo, 3-1/2" Base 5/8" Topping, 4' To 5' Square Panels Topping Note: Including Mesh And Felt <i>For Venetian Type Terrazzo, Add</i> <i>For Abrasive Heavy Duty Terrazzo, Add</i> <i>For Colors, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i>	13.51 4.51 4.51 2.26 2.70 1.35	2.32
09 66 13 19 Bonded Terrazzo Flooring (09 66 13)					
09 66 13 19-0001			Floors Bonded To Concrete (09 66 13 19) Note: 1-3/4" Thick - 5/8" topping.		
09 66 13 19-0002	SF		Terrazzo Floor, Bonded To Concrete, Gray Cement 1-3/4" Thick With 5/8" Topping <i>For Venetian Type Terrazzo, Add</i> <i>For Abrasive Heavy Duty Terrazzo, Add</i> <i>For Colors, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i>	19.73 5.11 5.11 2.56 4.83 2.41	2.32
09 66 13 19-0003	SF		Terrazzo Floor, Bonded To Concrete, White Cement 1-3/4" Thick With 5/8" Topping <i>For Venetian Type Terrazzo, Add</i> <i>For Abrasive Heavy Duty Terrazzo, Add</i> <i>For Colors, Add</i> <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i>	19.85 5.17 5.17 2.59 4.84 2.42	2.32
09 66 13 19-0004			Terrazzo Wainscot (09 66 13 19)		
09 66 13 19-0005	SF		1-1/2" Thick Terrazzo Wainscot, Cast In Place, Bonded To Concrete Or Masonry <i>For Venetian Type Terrazzo, Add</i>	27.21 3.31	3.09
09 66 13 19-0006			Terrazzo Base (09 66 13 19)		
09 66 13 19-0007	SF		6" Cove Type Terrazzo Base, Cast In Place, Bonded To Concrete Or Masonry <i>For Venetian Type Terrazzo, Add</i>	26.02 7.21	2.09
09 66 13 19-0008			Terrazzo Curb (09 66 13 19)		
09 66 13 19-0009	LF		6" x 6" Terrazzo Curb, Cast In Place, Polished Top And 2 Faces <i>For Venetian Type Terrazzo, Add</i>	65.63 9.62	13.92
09 66 13 19-0010			Stairs Cast In Place (09 66 13 19) Note: Topping applied to concrete or metal.		
09 66 13 19-0011	LF		1-1/2" Thick x 12" Wide, Terrazzo Stair, Cast In Place, Bonded To Concrete Or Metal <i>For Each SF Of Abrasive Surface Finish, Add</i> <i>For Each LF Of Embedded Abrasive Strips, Add</i> <i>For Each LF Of Abrasive Metal Nosing, Add</i> <i>For Each SF Of Landings, Add</i>	27.88 0.35 0.56 3.90 1.50	4.63
09 66 13 19-0012	LF		Terrazzo Stair Tread And Riser, Cast In Place, Bonded To Concrete Or Metal <i>For Each SF Of Abrasive Surface Finish, Add</i> <i>For Each LF Of Embedded Abrasive Strips, Add</i> <i>For Each LF Of Abrasive Metal Nosing, Add</i> <i>For Each SF Of Landings, Add</i>	70.08 0.35 0.56 3.90 1.50	15.44
09 66 13 19-0013	SF		Terrazzo Stair Stringer And Fascia, Cast In Place, Bonded To Concrete Or Metal <i>For Each SF Of Abrasive Surface Finish, Add</i> <i>For Each LF Of Embedded Abrasive Strips, Add</i> <i>For Each LF Of Abrasive Metal Nosing, Add</i> <i>For Each SF Of Landings, Add</i>	28.24 0.35 0.56 3.90 1.50	4.63
09 66 13 19-0014			Divider Strips (09 66 13 19)		
09 66 13 19-0015	LF		1-1/4" Deep, 14 Gauge, Zinc Plated Steel, Divider Strip	4.05	0.77
09 66 13 19-0016	LF		1-1/4" Deep, 14 Gauge, Brass, Divider Strip	4.21	0.77
09 66 13 19-0017	LF		1-1/4" Deep, 1/4" Thick, Zinc Plated Steel, Heavy Top Strip	6.22	0.77
09 66 13 19-0018	LF		1-1/4" Deep, 1/4" Thick, Galvanized Steel Bottom, Brass, Heavy Top Strip	9.08	0.77
09 66 13 19-0019	LF		1/2" x 1/2", 16 Gauge, Zinc Plated Steel, Divider Strip For Thin Set Floors	3.91	0.77
09 66 13 19-0020	LF		1/2" x 1/2", 16 Gauge, Brass, Divider Strip For Thin Set Floors	5.71	0.77
09 66 13 19-0021	LF		Vinyl Plastic, Divider Strip For Floor	3.68	0.77
09 66 16			Terrazzo Floor Tile (09 66)		
09 66 16 13			Portland Cement Terrazzo Floor Tile (09 66 16)		
09 66 16 13-0001			Flooring Tiles (09 66 16 13) Note: Gray cement setting bed 3/16" polyester matrix or 1/2" cement matrix 12" x 12".		
09 66 16 13-0002			Terrazzo Tiles With Non Slip Surface (09 66 16 13-0001)		
09 66 16 13-0003	SF		9" x 9" x 1" Non Slip Precast Terrazzo, Thin Set Floor Tile <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	22.42 0.36 2.00	2.16



Finishes	09	2
Flooring	09 60	
Terrazzo Flooring	09 66	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 66 16 13-0004 SF 12" x 12" x 1" Non Slip Precast Terrazzo, Thin Set Floor Tile..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	22.81 0.36 2.00	2.16
09 66 16 13-0005 SF 12" x 12" x 1-1/2" Non Slip Precast Terrazzo, Thin Set Floor Tile..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	26.34 0.36 2.00	2.16
09 66 16 13-0006 SF 18" x 18" x 1-1/2" Non Slip Precast Terrazzo, Thin Set Floor Tile..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	28.04 0.36 2.00	2.16
09 66 16 13-0007 SF 24" x 24" x 1-1/2" Non Slip Precast Terrazzo, Thin Set Floor Tile..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	29.18 0.36 2.00	2.16
09 66 16 13-0008 Terrazzo Tile Thin Set (09 66 16 13-0001)		
09 66 16 13-0009 SF Precast Terrazzo, 1/4"-1/2" Chips Floor Tiles, Thin Set Gray Cement Bed..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	22.13 0.36 2.00	2.16
09 66 16 13-0010 SF Precast Terrazzo, 3/8"-1" Chips Floor Tiles, Thin Set Gray Cement Bed..... <i>For White Cement, Add</i> <i>For Venetian Type Terrazzo, Add</i>	23.54 0.36 2.00	2.16
09 66 16 13-0011 Thin Set Terrazzo Wainscot (09 66 16 13-0001)		
09 66 16 13-0012 SF 12" x 12" x 1" Terrazzo Tile Wainscot Thin Set..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	32.96 0.50 1.00	4.18
09 66 16 13-0013 SF 18" x 18" x 1-1/2" Terrazzo Tile Wainscot Thin Set..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	37.58 0.50 1.00	4.18
09 66 16 13-0014 Thin Set Terrazzo Base, Gray Cement (09 66 16 13-0001)		
09 66 16 13-0015 LF 6" High, Straight Terrazzo Base Thin Set, Gray Cement..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	11.03 0.50 1.00	2.09
09 66 16 13-0016 LF 6" High, Cove Terrazzo Base Thin Set, Gray Cement..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	12.34 0.50 1.00	2.09
09 66 16 13-0017 LF 8" High, Straight Terrazzo Base Thin Set, Gray Cement..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	12.86 0.50 1.00	2.09
09 66 16 13-0018 LF 8" High, Cove Terrazzo Base Thin Set, Gray Cement..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	13.51 0.50 1.00	2.09
09 66 16 13-0019 Terrazzo Curbs (09 66 16 13-0001)		
09 66 16 13-0020 LF 8" x 8" Curb, Terrazzo Tile..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	22.04 0.50 1.00	2.78
09 66 16 13-0021 LF 6" x 6" Curb, Terrazzo Tile..... <i>For Each LF Of White Cement, Add</i> <i>For Each LF Of Zinc Toe Strip, Add</i>	21.38 0.50 1.00	2.78
09 66 16 13-0022 Precast Terrazzo Stair Treads 12" Wide (09 66 16 13-0001)		
09 66 16 13-0023 LF 1-1/2" Precast Terrazzo Stair Tread 12" Wide x 1-1/2" Thick, Diamond Pattern.....	53.86	2.78
09 66 16 13-0024 LF 1-1/2" Precast Terrazzo Stair Tread 12" Wide x 1-1/2" Thick, Non Slip Surface.....	46.02	2.78
09 66 16 13-0025 LF 2" Precast Terrazzo Straight Stair Tread.....	40.79	2.78
09 66 16 13-0026 LF 2" Precast Terrazzo Curved Stair Tread.....	47.77	2.78
09 66 16 13-0027 Stair Risers, 1" Thick To 6" High, Straight (09 66 16 13-0001)		
09 66 16 13-0028 LF 1"-6" High Precast Terrazzo Stair Riser Straight Section, Thin Set.....	24.39	2.09
09 66 16 13-0029 LF 1"-6" High Precast Terrazzo Stair Riser Straight Cove Section, Thin Set.....	28.31	2.09
09 66 16 13-0030 Stair Risers, 1" Thick To 6" High, Curved (09 66 16 13-0001)		
09 66 16 13-0031 LF 1" To 6" High Precast Terrazzo Stair Riser Curved Vertical Section, Thin Set.....	35.94	2.09
09 66 16 13-0032 LF 1" To 6" High Precast Terrazzo Stair Riser Curved Cove Section, Thin Set.....	38.55	2.09
09 66 16 13-0033 Tread And Riser (09 66 16 13)		
09 66 16 13-0034 Stair Stringers, Notched For Treads And Risers (09 66 16 13-0033)		
09 66 16 13-0035 LF 1" Precast Terrazzo Stair Stringers Notched For Treads And Risers.....	60.16	5.57
09 66 16 13-0036 LF 2" Precast Terrazzo Stair Stringers Notched For Treads And Risers.....	72.62	5.57
09 66 16 13-0037 Structural Non-Slip Landings (09 66 16 13-0033)		
09 66 16 13-0038 SF 1-1/2" Thick Precast Terrazzo Stair Landing Structural, Non Slip.....	43.33	2.78

09	09	Finishes
	09 60	Flooring
	09 66	Terrazzo Flooring



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 66 16 13-0039	SF	3" Thick Precast Terrazzo Stair Landing Structural, Non Slip	53.36	2.78
09 66 16 13-0040		Combined Tread And Riser (09 66 16 13-0033)		
09 66 16 13-0041		Straight Sections (09 66 16 13-0040)		
09 66 16 13-0042	LF	Precast Terrazzo Stair Tread And Riser 1-1/2" Tread, 3/4" Riser, Straight Section	94.63	5.57
09 66 16 13-0043	LF	Precast Terrazzo Stair Tread And Riser 3" Tread, 1" Riser, Straight Section	112.93	5.57
09 66 16 13-0044		Curved Sections (09 66 16 13-0040)		
09 66 16 13-0045	LF	Precast Terrazzo Stair Tread And Riser 2" Tread, 1" Riser, Curved Section	118.64	5.57
09 66 16 13-0046	LF	Precast Terrazzo Stair Tread And Riser 3" Tread, 1" Riser, Curved Section	150.02	5.57
09 66 23		Resinous Matrix Terrazzo Flooring (09 66)		
09 66 23 16		Epoxy-Resin Terrazzo Flooring (09 66 23)		
09 66 23 16-0001		Epoxy Terrazzo (09 66 23 16)		
09 66 23 16-0002	SF	Chemical Resistant Epoxy Terrazzo, 1/4" Thick	18.70	2.32
09 66 33		Conductive Terrazzo Flooring (09 66)		
		Note: For anti-static areas.		
09 66 33 13		Conductive Epoxy-Resin Terrazzo (09 66 33)		
09 66 33 13-0001	SF	Terrazzo, Epoxy System, Floor Sparkproof, Conductive, Industrial	18.70	3.48
09 66 33 13-0002	SF	Terrazzo, Epoxy System, Base Sparkproof, Conductive, Industrial	34.09	3.48
09 66 33 16		Conductive Polyester-Resin Terrazzo Flooring (09 66 33)		
09 66 33 16-0001	SF	Terrazzo, Polyester System, Floor Sparkproof, Conductive, Industrial	14.29	3.48
09 66 33 16-0002	SF	Terrazzo, Polyester System, Base Sparkproof, Conductive, Industrial	24.62	3.48
09 66 33 19		Conductive Plastic-Matrix Terrazzo Flooring (09 66 33)		
09 66 33 19-0001	SF	Terrazzo, Polyacrylate System, Floor Sparkproof, Conductive, Industrial	15.95	3.48
09 66 33 19-0002	SF	Terrazzo, Polyacrylate System, Base Sparkproof, Conductive, Industrial	30.69	3.48
09 66 33 19-0003	SF	Terrazzo, Synthetic Latex Mastic System, Floor Sparkproof, Conductive, Industrial	23.20	3.48
09 66 33 19-0004	SF	Terrazzo, Synthetic Latex Mastic System, Base Sparkproof, Conductive, Industrial	26.31	3.48
09 67		Fluid-Applied Flooring (09 60)		
09 67 16		Epoxy-Marble Chip Flooring (09 67)		
09 67 16 00-0001		Epoxy Marble Chip Flooring (09 67 16)		
09 67 16 00-0002	SF	Epoxy Marble Floor With Colored Quartz Chips In 1/4" Base	11.96	2.32
		For Skid Resistant Abrasive Sand Finish, Add	0.05	
		For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.05	
09 67 16 00-0003	SF	Epoxy Marble Chip Floor, Topping 3/16" Thick, Heavy Duty Epoxy	12.66	2.32
		For Skid Resistant Abrasive Sand Finish, Add	0.06	
		For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.06	
09 67 23		Resinous Flooring (09 67)		
09 67 23 00-0001		Epoxy Resin Flooring (09 67 23)		
		Note: Includes primer and topcoats (assorted colors), existing floor preparation of sand or bead blasting, degreasing and cleaning of existing floor system prior to application if applied directly to floor. Excludes floor patching, saw cutting joints, additional grinding of existing floor, leveling of floor, removal of existing floor or tiles, and applied markings or stripes.		
09 67 23 00-0002	SF	3/16" Heavy Duty (6,000 To 7,500 PSI) Epoxy Flooring Trowel Applied Mortar Compound	10.44	5.26
		For Skid Resistant Abrasive Sand Finish, Add	0.04	
		For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.04	
		For Up To 500, Add	1.99	
		For >500 To 1,000, Add	1.26	
		For >1,000 To 2,000, Add	0.63	
09 67 23 00-0003	SF	3/16" Chemical Resistant (10,000 To 12,000 PSI) Epoxy Flooring Trowel Applied Mortar Compound	15.58	5.26
		For Skid Resistant Abrasive Sand Finish, Add	0.09	
		For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.09	
		For Up To 500, Add	3.28	
		For >500 To 1,000, Add	2.03	
		For >1,000 To 2,000, Add	1.01	
09 67 23 00-0004	SF	1/4" Heavy Duty (6,000 To 7,500 PSI) Epoxy Flooring Trowel Applied Mortar Compound	11.79	5.87
		For Skid Resistant Abrasive Sand Finish, Add	0.05	
		For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add	0.05	
		For Up To 500, Add	2.24	
		For >500 To 1,000, Add	1.42	
		For >1,000 To 2,000, Add	0.71	



Finishes	09
Flooring	09 60
Fluid-Applied Flooring	09 67

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 67 23 00-0005	SF		1/4" Chemical Resistant (10,000 To 12,000 PSI) Epoxy Flooring Trowel Applied Mortar Compound..... <i>For Skid Resistant Abrasive Sand Finish, Add</i> <i>For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add</i> <i>For Up To 500, Add</i> <i>For >500 To 1,000, Add</i> <i>For >1,000 To 2,000, Add</i>	17.68 0.11 0.11 3.71 2.30 1.15	5.87
09 67 23 00-0006	SF		3/8" Heavy Duty (6,000 To 7,500 PSI) Epoxy Flooring Trowel Applied Mortar Compound..... <i>For Skid Resistant Abrasive Sand Finish, Add</i> <i>For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add</i> <i>For Up To 500, Add</i> <i>For >500 To 1,000, Add</i> <i>For >1,000 To 2,000, Add</i>	13.22 0.05 0.05 2.53 1.60 0.80	6.57
09 67 23 00-0007	SF		3/8" Chemical Resistant (10,000 To 12,000 PSI) Epoxy Flooring Trowel Applied Mortar Compound..... <i>For Skid Resistant Abrasive Sand Finish, Add</i> <i>For Skid Resistant, Orange Peel Texture, Non-Abrasive Topping, Add</i> <i>For Up To 500, Add</i> <i>For >500 To 1,000, Add</i> <i>For >1,000 To 2,000, Add</i>	19.46 0.12 0.12 4.09 2.53 1.27	6.57

09 68 Carpeting (09 60)

Note: No VOC carpet and adhesives. Includes tack strips, glue and floor fastenings as required and vacuuming.

09 68 13 Tile Carpeting (09 68)

09 68 13 00-0001

Tufted Carpet Tiles (09 68 13)

Note: Level-loop pile or textured-loop pile carpet tiles. Includes glue or peel and stick backing.

09 68 13 00-0002

Patterned Carpet Tiles (Shaw) (09 68 13 00-0001)

09 68 13 00-0003

15 Ounce, Patterned, Nylon Carpet Tile (09 68 13 00-0002)

09 68 13 00-0004	SY	COMPANION STRATAWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	24.16	4.28
09 68 13 00-0005	SY	CORRESPOND STRATAWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	24.16	4.28
09 68 13 00-0006	SY	PARTNER STRATAWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	24.16	4.28
09 68 13 00-0007	SY	CENTRIC ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	28.95	4.28
09 68 13 00-0008	SY	SURROUND ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	28.95	4.28
09 68 13 00-0009	SY	GLAZE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.01	4.28
09 68 13 00-0010	SY	TRANSPARENT ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.30	4.28
09 68 13 00-0011	SY	CLEAR ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.29	4.28
09 68 13 00-0012	SY	DIRECTION ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.29	4.28
09 68 13 00-0013	SY	REVERSE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.29	4.28
09 68 13 00-0014	SY	SHAPE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.29	4.28
09 68 13 00-0015	SY	ARRANGE STRATAWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	23.45	4.28
09 68 13 00-0016	SY	ARRAY STRATAWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	23.45	4.28
09 68 13 00-0017	SY	OFFSET STRATAWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	23.45	4.28
09 68 13 00-0018	SY	STRUCTURE STRATAWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	23.45	4.28
09 68 13 00-0019	SY	POURED ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	27.06	4.28
09 68 13 00-0020	SY	STACKED ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	27.06	4.28
09 68 13 00-0021	SY	COMMONS ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	27.50	4.28
09 68 13 00-0022	SY	MAKERSPACE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	27.50	4.28
09 68 13 00-0023	SY	QUAD ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	27.50	4.28
09 68 13 00-0024	SY	DIFFUSE 24" X 24" ECOLOGIX® 15 Ounce, Patterned, Nylon Carpet Tile.....	29.54	4.28
09 68 13 00-0025	SY	DIFFUSE 9" X 36" ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	30.01	4.28
09 68 13 00-0026	SY	DISPERSE 9" X 36" ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	30.01	4.28
09 68 13 00-0027	SY	DISPERSE 24" X 24" ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.00	4.28
09 68 13 00-0028	SY	DIFFUSE 24" X 24" ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.21	4.28
09 68 13 00-0029	SY	INFINITE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.06	4.28
09 68 13 00-0030	SY	VAST ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.06	4.28
09 68 13 00-0031	SY	TANGLE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.55	4.28
09 68 13 00-0032	SY	TEMPT ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.55	4.28
09 68 13 00-0033	SY	ENGAGE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.72	4.28
09 68 13 00-0034	SY	THINK ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.72	4.28
09 68 13 00-0035	SY	DIFFUSE 24" X 24" ECOLOGIX® ES 15 Ounce, Patterned, Nylon Carpet Tile.....	32.08	4.28
09 68 13 00-0036	SY	SCAPE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.72	4.28
09 68 13 00-0037	SY	REALM ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.78	4.28
09 68 13 00-0038	SY	SEA ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	28.67	4.28
09 68 13 00-0039	SY	SEA EDGE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	28.67	4.28
09 68 13 00-0040	SY	SKY ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	28.67	4.28
09 68 13 00-0041	SY	CENTRAL LINE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	29.73	4.28
09 68 13 00-0042	SY	CITY CENTRAL ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	29.73	4.28
09 68 13 00-0043	SY	BOUNDLESS ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	29.82	4.28
09 68 13 00-0044	SY	SOURCE 9" X 36" ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	29.82	4.28
09 68 13 00-0045	SY	UNDERTONE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	30.79	4.28
09 68 13 00-0046	SY	HYBRID ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.62	4.28
09 68 13 00-0047	SY	CATALYST ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.62	4.28
09 68 13 00-0048	SY	EMBARK ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.46	4.28
09 68 13 00-0049	SY	TINGE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	31.74	4.28
09 68 13 00-0050	SY	IMPACT ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.04	4.28
09 68 13 00-0051	SY	ALLURE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.31	4.28
09 68 13 00-0052	SY	GLIMMER ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.31	4.28
09 68 13 00-0053	SY	SHINE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.31	4.28
09 68 13 00-0054	SY	BASALT II ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.54	4.28
09 68 13 00-0055	SY	FAULT LINES II ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile.....	32.54	4.28

09 Finishes

09 60 Flooring

09 68 Carpeting

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 68 13 00-0056	SY	GRAVEL II ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	32.54	4.28
09 68 13 00-0057	SY	PAVERS II ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	32.54	4.28
09 68 13 00-0058	SY	CONNECT ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	32.75	4.28
09 68 13 00-0059	SY	FIELD ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	33.39	4.28
09 68 13 00-0060	SY	BYLINE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	33.65	4.28
09 68 13 00-0061	SY	COLOR FORM 9" X 36" ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	33.51	4.28
09 68 13 00-0062	SY	LINAGE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	33.70	4.28
09 68 13 00-0063	SY	LINK ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	33.70	4.28
09 68 13 00-0064	SY	BALANCE ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	34.80	4.28
09 68 13 00-0065	SY	FOCUS ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	35.06	4.28
09 68 13 00-0066	SY	WANDER ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	36.04	4.28
09 68 13 00-0067	SY	EMOTION ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	36.62	4.28
09 68 13 00-0068	SY	STRAIGHTFORWARD ECOWORX® 15 Ounce, Patterned, Nylon Carpet Tile	37.05	4.28

09 68 13 00-0069 218 Ounce, Patterned, Nylon Carpet Tile (09 68 13 00-0002)

09 68 13 00-0070	SY	BELONG ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	27.52	4.28
09 68 13 00-0071	SY	EASE 9" X 36" ECOLOGIX® 18 Ounce, Patterned, Nylon Carpet Tile	29.49	4.28
09 68 13 00-0072	SY	INTERLUDE ECOLOGIX® 18 Ounce, Patterned, Nylon Carpet Tile	29.49	4.28
09 68 13 00-0073	SY	CHALET 9" X 36" ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	29.62	4.28
09 68 13 00-0074	SY	ANALOG 18" X 36" ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.30	4.28
09 68 13 00-0075	SY	DISTORT 18" X 36" ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.30	4.28
09 68 13 00-0076	SY	FRINGE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.26	4.28
09 68 13 00-0077	SY	GLITCH 9" X 36" ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.30	4.28
09 68 13 00-0078	SY	HAZE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.26	4.28
09 68 13 00-0079	SY	MANIPULATE 9" X 36" ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.30	4.28
09 68 13 00-0080	SY	VAPOR ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.26	4.28
09 68 13 00-0081	SY	CONSTRUCT ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.68	4.28
09 68 13 00-0082	SY	COPY ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.68	4.28
09 68 13 00-0083	SY	ROTATE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.68	4.28
09 68 13 00-0084	SY	ACHROMATIC ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.67	4.28
09 68 13 00-0085	SY	DUOTONE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.67	4.28
09 68 13 00-0086	SY	SATURATE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.67	4.28
09 68 13 00-0087	SY	VALUE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.67	4.28
09 68 13 00-0088	SY	KINETIC ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	36.85	4.28
09 68 13 00-0089	SY	IGNITE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	39.04	4.28
09 68 13 00-0090	SY	STILL ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	39.04	4.28
09 68 13 00-0091	SY	MERGE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	39.67	4.28
09 68 13 00-0092	SY	MINIMAL ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	39.67	4.28
09 68 13 00-0093	SY	DREAM ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	27.74	4.28
09 68 13 00-0094	SY	MEMORY ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	27.89	4.28
09 68 13 00-0095	SY	CAPTIVATE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	33.67	4.28
09 68 13 00-0096	SY	INTRIGUE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	34.01	4.28
09 68 13 00-0097	SY	MIRROR IMAGE ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	36.90	4.28
09 68 13 00-0098	SY	PRISMA ECOWORX® 18 Ounce, Patterned, Nylon Carpet Tile	37.03	4.28

09 68 13 00-0099 220 Ounce, Patterned, Nylon Carpet Tile (09 68 13 00-0002)

09 68 13 00-0100	SY	AWARE 18" X 36" ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	31.09	4.28
09 68 13 00-0101	SY	CONSCIOUS 18" X 36" ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	31.09	4.28
09 68 13 00-0102	SY	INTENTION 18" X 36" ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	31.09	4.28
09 68 13 00-0103	SY	PRESENT 18" X 36" ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	31.09	4.28
09 68 13 00-0104	SY	MOMENTUM IV ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	31.25	4.28
09 68 13 00-0105	SY	GRADIENT ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	32.33	4.28
09 68 13 00-0106	SY	PETO II 20 ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	33.05	4.28
09 68 13 00-0107	SY	FLAT WEAVE ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	33.42	4.28
09 68 13 00-0108	SY	HEDDLE ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	33.42	4.28
09 68 13 00-0109	SY	CONVENE ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	33.69	4.28
09 68 13 00-0110	SY	ESTABLISH ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	33.69	4.28
09 68 13 00-0111	SY	SUPPORT ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	33.69	4.28
09 68 13 00-0112	SY	AWARE 18" X 36" ECOLOGIX® 20 Ounce, Patterned, Nylon Carpet Tile	34.09	4.28
09 68 13 00-0113	SY	CONSCIOUS 18" X 36" ECOLOGIX® 20 Ounce, Patterned, Nylon Carpet Tile	34.09	4.28
09 68 13 00-0114	SY	INTENTION 18" X 36" ECOLOGIX® 20 Ounce, Patterned, Nylon Carpet Tile	34.09	4.28
09 68 13 00-0115	SY	PRESENT 18" X 36" ECOLOGIX® 20 Ounce, Patterned, Nylon Carpet Tile	34.09	4.28
09 68 13 00-0116	SY	DASH ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	34.08	4.28
09 68 13 00-0117	SY	TRACK ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	34.08	4.28
09 68 13 00-0118	SY	TURN ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	34.08	4.28
09 68 13 00-0119	SY	AUGMENT ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	35.02	4.28
09 68 13 00-0120	SY	HYPE ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	35.02	4.28
09 68 13 00-0121	SY	SCULPT LOOP ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	34.95	4.28
09 68 13 00-0122	SY	ALIGN ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	35.07	4.28
09 68 13 00-0123	SY	SCULPT ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	35.07	4.28
09 68 13 00-0124	SY	TRACE ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	35.07	4.28
09 68 13 00-0125	SY	ABSORBED ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	35.23	4.28
09 68 13 00-0126	SY	VISIBLE ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	35.66	4.28
09 68 13 00-0127	SY	VIBRANT ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	35.66	4.28
09 68 13 00-0128	SY	FINE POINT 18" X 36" ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	37.74	4.28
09 68 13 00-0129	SY	LINWEIGHT 18" X 36" ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	37.74	4.28
09 68 13 00-0130	SY	STIPPLE 18" X 36" ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	37.74	4.28
09 68 13 00-0131	SY	CHROMA ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	39.75	4.28
09 68 13 00-0132	SY	SPECTRUM ECOWORX® 20 Ounce, Patterned, Nylon Carpet Tile	40.55	4.28



		Finishes	09
		Flooring	09 60
		Carpeting	09 68

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 68 13 00-0133

22 Ounce, Patterned, Nylon Carpet Tile (09 68 13 00-0002)

09 68 13 00-0134	SY	REPARTEE ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	33.78	4.28
09 68 13 00-0135	SY	ENDLESS ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	34.15	4.28
09 68 13 00-0136	SY	OBSERVE ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	34.15	4.28
09 68 13 00-0137	SY	RESPOND ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	34.15	4.28
09 68 13 00-0138	SY	TRANSFORM ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	34.15	4.28
09 68 13 00-0139	SY	CHARISMA ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	35.16	4.28
09 68 13 00-0140	SY	APPLIED ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	35.23	4.28
09 68 13 00-0141	SY	DWELLING ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	35.59	4.28
09 68 13 00-0142	SY	SHELTER ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	35.59	4.28
09 68 13 00-0143	SY	EMBELLISH ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	37.16	4.28
09 68 13 00-0144	SY	BIAS ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	37.74	4.28
09 68 13 00-0145	SY	KASURI ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	37.74	4.28
09 68 13 00-0146	SY	MESH ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	37.74	4.28
09 68 13 00-0147	SY	FILTER ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	39.70	4.28
09 68 13 00-0148	SY	MIGRATE ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	39.70	4.28
09 68 13 00-0149	SY	NUANCE ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	39.70	4.28
09 68 13 00-0150	SY	ACTIVITY ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	40.27	4.28
09 68 13 00-0151	SY	REST ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	40.27	4.28
09 68 13 00-0152	SY	UNWIND ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	40.27	4.28
09 68 13 00-0153	SY	INTERACT ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	40.42	4.28
09 68 13 00-0154	SY	PAUSE ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	40.64	4.28
09 68 13 00-0155	SY	STEP ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	40.64	4.28
09 68 13 00-0156	SY	VANTAGE ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	40.64	4.28
09 68 13 00-0157	SY	DRIFT ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	41.65	4.28
09 68 13 00-0158	SY	EXPAND ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	41.49	4.28
09 68 13 00-0159	SY	AGATE ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	42.16	4.28
09 68 13 00-0160	SY	JASPER ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	42.16	4.28
09 68 13 00-0161	SY	MICA ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	42.16	4.28
09 68 13 00-0162	SY	QUARTZ ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	42.16	4.28
09 68 13 00-0163	SY	ABSTRACT EDGE ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	43.45	4.28
09 68 13 00-0164	SY	VERTICAL EDGE ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	43.45	4.28
09 68 13 00-0165	SY	HORIZONTAL EDGE ECOWORX® 22 Ounce, Patterned, Nylon Carpet Tile	43.45	4.28

09 68 13 00-0166

24 Ounce, Patterned, Nylon Carpet Tile (09 68 13 00-0002)

09 68 13 00-0167	SY	CONSTELLATION ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	35.89	4.28
09 68 13 00-0168	SY	OBSERVE COLOR ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	36.09	4.28
09 68 13 00-0169	SY	RESPOND COLOR ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	36.09	4.28
09 68 13 00-0170	SY	TRANSFORM COLOR ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	36.09	4.28
09 68 13 00-0171	SY	FOUNDATION ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	36.83	4.28
09 68 13 00-0172	SY	BLOX ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	36.66	4.28
09 68 13 00-0173	SY	SITE LINES ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	37.16	4.28
09 68 13 00-0174	SY	BLISS ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	38.01	4.28
09 68 13 00-0175	SY	SERENITY ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	38.01	4.28
09 68 13 00-0176	SY	TRANQUIL ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	38.01	4.28
09 68 13 00-0177	SY	KUSA ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	38.64	4.28
09 68 13 00-0178	SY	BLOCK PRINT ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	38.98	4.28
09 68 13 00-0179	SY	FADE ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	41.10	4.28
09 68 13 00-0180	SY	OVERLAY ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	41.10	4.28
09 68 13 00-0181	SY	BLUR ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	41.10	4.28
09 68 13 00-0182	SY	EXPOSE ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	41.20	4.28
09 68 13 00-0183	SY	UNCOVER ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	41.20	4.28
09 68 13 00-0184	SY	EXPLORE ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	41.51	4.28
09 68 13 00-0185	SY	LINGER ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	41.65	4.28
09 68 13 00-0186	SY	RENEW ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	41.51	4.28
09 68 13 00-0187	SY	FOLDED ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	44.31	4.28
09 68 13 00-0188	SY	FOLDED EDGE ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	44.14	4.28
09 68 13 00-0189	SY	IDENTITY ECOWORX® 24 Ounce, Patterned, Nylon Carpet Tile	47.43	4.28

09 68 13 00-0190

26 Ounce, Patterned, Nylon Carpet Tile (09 68 13 00-0002)

09 68 13 00-0191	SY	PETO II 26 ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	36.15	4.28
09 68 13 00-0192	SY	BRIILLANCE ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	36.48	4.28
09 68 13 00-0193	SY	STRIKING ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	36.39	4.28
09 68 13 00-0194	SY	IMPRINT ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	38.26	4.28
09 68 13 00-0195	SY	SKETCH ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	38.34	4.28
09 68 13 00-0196	SY	VEIL ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	38.34	4.28
09 68 13 00-0197	SY	DISCOVER ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	38.46	4.28
09 68 13 00-0198	SY	SEEK ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	38.46	4.28
09 68 13 00-0199	SY	CITY GRID ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	38.83	4.28
09 68 13 00-0200	SY	BOTAN ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	39.75	4.28
09 68 13 00-0201	SY	HANA ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	39.75	4.28
09 68 13 00-0202	SY	RELIEF ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	41.20	4.28
09 68 13 00-0203	SY	DEPTH ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	43.68	4.28
09 68 13 00-0204	SY	ANGLE ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	46.77	4.28
09 68 13 00-0205	SY	HONEST ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	47.43	4.28
09 68 13 00-0206	SY	SLAB ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile	47.69	4.28

09 Finishes**09 60 Flooring****09 68 Carpeting**

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 13 00-0207 SY BASE HEXAGON ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile.....	48.33	4.28
09 68 13 00-0208 SY COLOR SHIFT HEXAGON ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile.....	48.33	4.28
09 68 13 00-0209 SY CONTACT HEXAGON ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile.....	48.33	4.28
09 68 13 00-0210 SY BEVEL HEXAGON ECOWORX® 26 Ounce, Patterned, Nylon Carpet Tile.....	55.46	4.28
09 68 13 00-0211 28 Ounce, Patterned, Nylon Carpet Tile (09 68 13 00-0002)		
09 68 13 00-0212 SY RICHE ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	38.03	4.28
09 68 13 00-0213 SY PRAIRIE ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	40.52	4.28
09 68 13 00-0214 SY CORDED ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	40.85	4.28
09 68 13 00-0215 SY PATH ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	41.52	4.28
09 68 13 00-0216 SY PORTAL ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	41.52	4.28
09 68 13 00-0217 SY KNIT ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	42.00	4.28
09 68 13 00-0218 SY DECOR ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	41.78	4.28
09 68 13 00-0219 SY CHAIN STITCH ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	41.99	4.28
09 68 13 00-0220 SY AFFLUENCE ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	41.78	4.28
09 68 13 00-0221 SY BACK WEAVE ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	42.69	4.28
09 68 13 00-0222 SY EXCHANGE ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	42.69	4.28
09 68 13 00-0223 SY KNOTTED ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	42.69	4.28
09 68 13 00-0224 SY PROCESS ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	42.69	4.28
09 68 13 00-0225 SY CHECK ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	44.32	4.28
09 68 13 00-0226 SY HOUNDSTOOTH 18" X 36" ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	44.32	4.28
09 68 13 00-0227 SY JACQUARD 18" X 36" ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	44.32	4.28
09 68 13 00-0228 SY TEX28 Ounce, Patterned, Nylon Carpet Tile 18" X 36" ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	44.32	4.28
09 68 13 00-0229 SY THE ECCENTRIC ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	44.45	4.28
09 68 13 00-0230 SY BATIK 18" X 36" ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	44.75	4.28
09 68 13 00-0231 SY IKAT 18" X 36" ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	44.75	4.28
09 68 13 00-0232 SY LINEN 28 Ounce, Patterned, Nylon Carpet Tile ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	44.75	4.28
09 68 13 00-0233 SY THE SOCIALITE ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	45.05	4.28
09 68 13 00-0234 SY PRESENCE ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	47.00	4.28
09 68 13 00-0235 SY STILL LIFE ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	47.00	4.28
09 68 13 00-0236 SY FAMILIAR ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	47.43	4.28
09 68 13 00-0237 SY HONED ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	47.69	4.28
09 68 13 00-0238 SY FORM ECOWORX® 28 Ounce, Patterned, Nylon Carpet Tile.....	51.93	4.28
09 68 13 00-0239 30 Ounce, Patterned, Nylon Carpet Tile (09 68 13 00-0002)		
09 68 13 00-0240 SY GLITZ ECOWORX® 30 Ounce, Patterned, Nylon Carpet Tile.....	38.82	4.28
09 68 13 00-0241 SY LUMINOSITY ECOWORX® 30 Ounce, Patterned, Nylon Carpet Tile.....	39.47	4.28
09 68 13 00-0242 SY RADIANCE ECOWORX® 30 Ounce, Patterned, Nylon Carpet Tile.....	39.97	4.28
09 68 13 00-0243 SY TAPESTRY 18" X 36" ECOWORX® 30 Ounce, Patterned, Nylon Carpet Tile.....	44.75	4.28
09 68 13 00-0244 SY BEYOND ECOWORX® 30 Ounce, Patterned, Nylon Carpet Tile.....	48.80	4.28
09 68 13 00-0245 SY EXPANSE ECOWORX® 30 Ounce, Patterned, Nylon Carpet Tile.....	48.80	4.28
09 68 13 00-0246 SY ALCHEMY ECOWORX® 30 Ounce, Patterned, Nylon Carpet Tile.....	51.93	4.28
09 68 13 00-0247 SY CREATE ECOWORX® 30 Ounce, Patterned, Nylon Carpet Tile.....	52.85	4.28
09 68 13 00-0248 32 Ounce, Patterned, Nylon Carpet Tile (09 68 13 00-0002)		
09 68 13 00-0249 SY ENTWINE ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	42.49	4.28
09 68 13 00-0250 SY INGRAIN ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	42.90	4.28
09 68 13 00-0251 SY EARTH TONE ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	43.45	4.28
09 68 13 00-0252 SY REFLECT ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	53.16	4.28
09 68 13 00-0253 SY RESURFACE ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	42.71	4.28
09 68 13 00-0254 SY BLEND ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	46.72	4.28
09 68 13 00-0255 SY HINT ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	46.72	4.28
09 68 13 00-0256 SY ORNATE ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	46.41	4.28
09 68 13 00-0257 SY RETHREAD ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	46.41	4.28
09 68 13 00-0258 SY TECHNIQUE ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	46.72	4.28
09 68 13 00-0259 SY VANISH ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	46.72	4.28
09 68 13 00-0260 SY BON JOUR ECOWORX® WALK-OFF 32 Ounce, Patterned, Nylon Carpet Tile.....	38.13	4.28
09 68 13 00-0261 SY ZONE ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	47.97	4.28
09 68 13 00-0262 SY DYE LAB ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	54.35	4.28
09 68 13 00-0263 SY DISSOLVE ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	49.43	4.28
09 68 13 00-0264 SY KIT ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	55.57	4.28
09 68 13 00-0265 SY ARTISAN ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	56.69	4.28
09 68 13 00-0266 SY CLOTH ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	56.53	4.28
09 68 13 00-0267 SY PLAIN WEAVE ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	56.71	4.28
09 68 13 00-0268 SY ADORN ECOWORX® 32 Ounce, Patterned, Nylon Carpet Tile.....	51.98	4.28
09 68 13 00-0269 SY ENTREE ECOWORX® WALK-OFF 32 Ounce, Patterned, Nylon Carpet Tile.....	44.71	4.28
09 68 13 00-0270 SY WELCOME II ECOWORX® WALK-OFF 32 Ounce, Patterned, Nylon Carpet Tile.....	43.60	4.28
09 68 13 00-0271 SY BON JOUR II ECOWORX® WALK-OFF 32 Ounce, Patterned, Nylon Carpet Tile.....	44.71	4.28
09 68 13 00-0272 Non-Patterned Carpet Tiles (Shaw) (09 68 13 00-0001)		
09 68 13 00-0273 18 Ounce, Non-Patterned, Nylon Carpet Tile (09 68 13 00-0272)		
09 68 13 00-0274 SY COLOR FRAME ECOWORX® 18 Ounce, Non-Patterned, Nylon Carpet Tile.....	33.76	4.28
09 68 13 00-0275 SY COLOR PLAY ECOWORX® 18 Ounce, Non-Patterned, Nylon Carpet Tile.....	36.44	4.28



		Finishes	09
		Flooring	09 60
		Carpeting	09 68

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 13 00-0276			20 Ounce, Non-Patterned, Nylon Carpet Tile (09 68 13 00-0272)		
09 68 13 00-0277	SY		CURVE ECOWORX® 20 Ounce, Non-Patterned, Nylon Carpet Tile.....	34.12	4.28
09 68 13 00-0278	SY		DIAGONAL ECOWORX® 20 Ounce, Non-Patterned, Nylon Carpet Tile.....	34.12	4.28
09 68 13 00-0279	SY		POINT ECOWORX® 20 Ounce, Non-Patterned, Nylon Carpet Tile.....	34.12	4.28
09 68 13 00-0280	SY		SQUARE ECOWORX® 20 Ounce, Non-Patterned, Nylon Carpet Tile.....	34.12	4.28
09 68 13 00-0281	SY		ADVANCE ECOWORX® 20 Ounce, Non-Patterned, Nylon Carpet Tile.....	34.08	4.28
09 68 13 00-0282	SY		IMPRESSION I ECOWORX® 20 Ounce, Non-Patterned, Nylon Carpet Tile.....	37.48	4.28
09 68 13 00-0283	SY		IMPRESSION II ECOWORX® 20 Ounce, Non-Patterned, Nylon Carpet Tile.....	37.48	4.28
09 68 13 00-0284	SY		IMPRESSION III ECOWORX® 20 Ounce, Non-Patterned, Nylon Carpet Tile.....	37.48	4.28
09 68 13 00-0285	SY		IMPRESSION IV ECOWORX® 20 Ounce, Non-Patterned, Nylon Carpet Tile.....	37.48	4.28
09 68 13 00-0286			22 Ounce, Non-Patterned, Nylon Carpet Tile (09 68 13 00-0272)		
09 68 13 00-0287	SY		PLANE HEXAGON ECOWORX® 22 Ounce, Non-Patterned, Nylon Carpet Tile.....	46.41	4.28
09 68 13 00-0288			24 Ounce, Non-Patterned, Nylon Carpet Tile (09 68 13 00-0272)		
09 68 13 00-0289	SY		NEST ECOWORX® 24 Ounce, Non-Patterned, Nylon Carpet Tile.....	35.59	4.28
09 68 13 00-0290			30 Ounce, Non-Patterned, Nylon Carpet Tile (09 68 13 00-0272)		
09 68 13 00-0291	SY		TRU COLOURS ECOWORX® 30 Ounce, Non-Patterned, Nylon Carpet Tile.....	38.04	4.28
09 68 13 00-0292	SY		COLOUR PLANK ECOWORX® 30 Ounce, Non-Patterned, Nylon Carpet Tile.....	41.64	4.28
09 68 13 00-0293	SY		GRADATION ECOWORX® 30 Ounce, Non-Patterned, Nylon Carpet Tile.....	44.26	4.28
09 68 13 00-0294			ESD Static Control Carpet Tiles (Shaw StaticSmart) (09 68 13 00-0001)		
Note: Includes conductive ESD releasable adhesive and grounding clips.					
09 68 13 00-0295			16-24 Ounce, Static Control, Nylon Carpet Tile (StaticSmart) (09 68 13 00-0294)		
09 68 13 00-0296	SY		DAILY PLANNER, Static Control, Nylon Carpet Carpet Tile.....	36.31	4.28
09 68 13 00-0297	SY		COLLABORATORS, Static Control, Nylon Carpet Carpet Tile.....	39.36	4.28
09 68 13 00-0298	SY		WORKSPACE, Static Control, Nylon Carpet Carpet Tile.....	36.37	4.28
09 68 13 00-0299	SY		LANDMARK SERIES, Static Control, Nylon Carpet Carpet Tile.....	38.33	4.28
09 68 13 00-0300	SY		LAN 4.1, Static Control, Nylon Carpet Carpet Tile.....	51.81	4.28
09 68 13 00-0301	SY		PRESIDENTIAL, Static Control, Nylon Carpet Carpet Tile.....	51.71	4.28
09 68 13 00-0302	SY		COLONIAL, Static Control, Nylon Carpet Carpet Tile.....	51.98	4.28
09 68 13 00-0303	SY		LAN 4.0, Static Control, Nylon Carpet Carpet Tile.....	61.02	4.28
09 68 13 00-0304	SY		DISCOVERY ECO, Static Control, Nylon Carpet Carpet Tile.....	50.78	4.28
09 68 16			Sheet Carpeting (09 68)		
Note: Weights shown are face weight excluding backing weight and excludes padding. Demolition of carpet includes removal of glue if required. Residential carpet backing basis is for padding and commercial carpet backing is for glue down.					
09 68 16 00-0001			Carpet Cushion (09 68 16)		
09 68 16 00-0002			Carpet Pads (09 68 16 00-0001)		
09 68 16 00-0003	SY		Foam Rubber Carpet Padding.....	6.03	2.22
09 68 16 00-0004	SY		Sponge Rubber Carpet Cushion.....	5.88	2.22
09 68 16 00-0005	SY		1/4" Thick, Urethane Carpet Cushion.....	6.14	2.22
09 68 16 00-0006	SY		3/8" Thick, Urethane Carpet Cushion.....	6.79	2.22
09 68 16 00-0007	SY		7/16" Thick, 6 LB/CF Bonded (Rebond), Polyurethane Foam Carpet Padding.....	6.26	2.22
09 68 16 00-0008	SY		3/8" Thick, 7 LB/CF Bonded (Rebond), Polyurethane Foam Carpet Padding.....	6.56	2.22
09 68 16 00-0009	SY		1/2" Thick, 8 LB/CF Bonded (Rebond), Polyurethane Foam Carpet Padding.....	6.98	2.22
09 68 16 00-0010			Commercial Broadloom Carpet (09 68 16)		
Note: Level-loop pile or textured-loop pile broadloom carpet.					
09 68 16 00-0011			Patterned Broadloom Carpet (Shaw) (09 68 16 00-0010)		
09 68 16 00-0012			20 Ounce, Patterned, Nylon Broadloom Carpet (09 68 16 00-0011)		
09 68 16 00-0013	SY		AMBITION III 20 CLASSICBAC® 20 Ounce, Patterned, Nylon Broadloom Carpet.....	17.59	17.54
09 68 16 00-0014	SY		ESSENTIAL CLASSICBAC® 20 Ounce, Patterned, Nylon Broadloom Carpet.....	22.07	17.54
09 68 16 00-0015	SY		PRIME CLASSICBAC® 20 Ounce, Patterned, Nylon Broadloom Carpet.....	22.07	17.54
09 68 16 00-0016	SY		MODIFY CLASSICBAC® 20 Ounce, Patterned, Nylon Broadloom Carpet.....	24.20	17.54
09 68 16 00-0017	SY		SWITCH CLASSICBAC® 20 Ounce, Patterned, Nylon Broadloom Carpet.....	24.20	17.54
09 68 16 00-0018	SY		TRANSFER CLASSICBAC® 20 Ounce, Patterned, Nylon Broadloom Carpet.....	24.20	17.54
09 68 16 00-0019	SY		SCRIBE CLASSICBAC® 20 Ounce, Patterned, Nylon Broadloom Carpet.....	24.43	17.54
09 68 16 00-0020	SY		STYLUS CLASSICBAC® 20 Ounce, Patterned, Nylon Broadloom Carpet.....	24.43	17.54
09 68 16 00-0021	SY		CONTE' ULTRALOC® 20 Ounce, Patterned, Nylon Broadloom Carpet.....	30.35	17.54
09 68 16 00-0022	SY		ERASE ULTRALOC® 20 Ounce, Patterned, Nylon Broadloom Carpet.....	30.35	17.54
09 68 16 00-0023	SY		CADENCE ECOWORX® PERFORMANCE 20 Ounce, Patterned, Nylon Broadloom Carpet.....	35.30	17.54
09 68 16 00-0024			22 Ounce, Patterned, Nylon Broadloom Carpet (09 68 16 00-0011)		
09 68 16 00-0025	SY		BIRCH CLASSICBAC® 22 Ounce, Patterned, Nylon Broadloom Carpet.....	23.50	17.54
09 68 16 00-0026	SY		GROVE CLASSICBAC® 22 Ounce, Patterned, Nylon Broadloom Carpet.....	23.50	17.54
09 68 16 00-0027	SY		SUMMIT CLASSICBAC® 22 Ounce, Patterned, Nylon Broadloom Carpet.....	23.50	17.54
09 68 16 00-0028	SY		HIT THE BOOKS ULTRALOC® 22 Ounce, Patterned, Nylon Broadloom Carpet.....	26.35	17.54

09 Finishes**09 60 Flooring****09 68 Carpeting**

SAN BERNARDINO
COUNTY

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 68 16 00-0029	SY	LAYER ULTRALOC® 22 Ounce, Patterned, Nylon Broadloom Carpet	26.45	17.54
09 68 16 00-0030	SY	DIMENSION ULTRALOC® 22 Ounce, Patterned, Nylon Broadloom Carpet.....	26.45	17.54
09 68 16 00-0031	SY	CHARISMA ECOWORX® PERFORMANCE 22 Ounce, Patterned, Nylon Broadloom Carpet.....	28.41	17.54
09 68 16 00-0032	SY	AMPLIFY ULTRALOC® 22 Ounce, Patterned, Nylon Broadloom Carpet.....	29.19	17.54
09 68 16 00-0033	SY	HIT THE BOOKS ECOWORX® PERFORMANCE 22 Ounce, Patterned, Nylon Broadloom Carpet.....	29.22	17.54
09 68 16 00-0034	SY	ILLUMINATE ULTRALOC® 22 Ounce, Patterned, Nylon Broadloom Carpet	29.19	17.54
09 68 16 00-0035	SY	EFFECT ULTRALOC® 22 Ounce, Patterned, Nylon Broadloom Carpet	30.47	17.54
09 68 16 00-0036	SY	FAÇADE ECOWORX® PERFORMANCE 22 Ounce, Patterned, Nylon Broadloom Carpet	30.49	17.54
09 68 16 00-0037	SY	INLAY ULTRALOC® 22 Ounce, Patterned, Nylon Broadloom Carpet.....	30.47	17.54
09 68 16 00-0038	SY	COLLAGE ECOWORX® PERFORMANCE 22 Ounce, Patterned, Nylon Broadloom Carpet.....	33.04	17.54

09 68 16 00-0039 24 Ounce, Patterned, Nylon Broadloom Carpet (09 68 16 00-0011)

09 68 16 00-0040	SY	ASSOCIATE ULTRALOC® 24 Ounce, Patterned, Nylon Broadloom Carpet.....	22.55	17.54
09 68 16 00-0041	SY	FOSSIL CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet	23.01	17.54
09 68 16 00-0042	SY	TERRA CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet	23.01	17.54
09 68 16 00-0043	SY	ELECTIC CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet	23.18	17.54
09 68 16 00-0044	SY	MELD CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet	23.48	17.54
09 68 16 00-0045	SY	STAY ULTRALOC® 24 Ounce, Patterned, Nylon Broadloom Carpet	23.47	17.54
09 68 16 00-0046	SY	REMINISCE ULTRALOC® 24 Ounce, Patterned, Nylon Broadloom Carpet	23.76	17.54
09 68 16 00-0047	SY	CONTOUR CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet.....	23.86	17.54
09 68 16 00-0048	SY	OUTLINE CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet	23.86	17.54
09 68 16 00-0049	SY	FLICKER CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet	24.25	17.54
09 68 16 00-0050	SY	FLARE CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet	24.62	17.54
09 68 16 00-0051	SY	TONE CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet	24.56	17.54
09 68 16 00-0052	SY	TINT CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet.....	25.00	17.54
09 68 16 00-0053	SY	BLOG ULTRALOC® 24 Ounce, Patterned, Nylon Broadloom Carpet.....	25.14	17.54
09 68 16 00-0054	SY	BLOG CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet.....	25.74	17.54
09 68 16 00-0055	SY	KUSA ULTRALOC® 24 Ounce, Patterned, Nylon Broadloom Carpet	29.64	17.54
09 68 16 00-0056	SY	ENGRAVE ECOWORX® PERFORMANCE 24 Ounce, Patterned, Nylon Broadloom Carpet	40.59	17.54
09 68 16 00-0057	SY	ORNAMENT ECOWORX® PERFORMANCE 24 Ounce, Patterned, Nylon Broadloom Carpet.....	40.59	17.54
09 68 16 00-0058	SY	SCREEN ECOWORX® PERFORMANCE 24 Ounce, Patterned, Nylon Broadloom Carpet.....	40.59	17.54
09 68 16 00-0059	SY	COLONEL CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet	18.80	17.54
09 68 16 00-0060	SY	TOWN RESORT CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet.....	20.52	17.54
09 68 16 00-0061	SY	SENTIMENT CLASSICBAC® 24 Ounce, Patterned, Nylon Broadloom Carpet.....	24.22	17.54

09 68 16 00-0062 26 Ounce, Patterned, Nylon Broadloom Carpet (09 68 16 00-0011)

09 68 16 00-0063	SY	AMBITION III 26 CLASSICBAC® 26 Ounce, Patterned, Nylon Broadloom Carpet	18.87	17.54
09 68 16 00-0064	SY	POTENTIAL III 26 CLASSICBAC® 26 Ounce, Patterned, Nylon Broadloom Carpet.....	22.03	17.54
09 68 16 00-0065	SY	POTENTIAL III 26 UNITARY 26 Ounce, Patterned, Nylon Broadloom Carpet	23.20	17.54
09 68 16 00-0066	SY	INTERPLAY ULTRALOC® 26 Ounce, Patterned, Nylon Broadloom Carpet	23.25	17.54
09 68 16 00-0067	SY	PETO II CLASSICBAC® 26 Ounce, Patterned, Nylon Broadloom Carpet.....	24.14	17.54
09 68 16 00-0068	SY	EVOLUTION CLASSICBAC® 26 Ounce, Patterned, Nylon Broadloom Carpet	24.20	17.54
09 68 16 00-0069	SY	SPACE CLASSICBAC® 26 Ounce, Patterned, Nylon Broadloom Carpet	24.13	17.54
09 68 16 00-0070	SY	DIVIDE CLASSICBAC® 26 Ounce, Patterned, Nylon Broadloom Carpet	24.79	17.54
09 68 16 00-0071	SY	EDIT CLASSICBAC® 26 Ounce, Patterned, Nylon Broadloom Carpet	25.18	17.54
09 68 16 00-0072	SY	EQUAL CLASSICBAC® 26 Ounce, Patterned, Nylon Broadloom Carpet	25.18	17.54
09 68 16 00-0073	SY	TEXT CLASSICBAC® 26 Ounce, Patterned, Nylon Broadloom Carpet	25.72	17.54
09 68 16 00-0074	SY	TEXT ULTRALOC® 26 Ounce, Patterned, Nylon Broadloom Carpet	26.43	17.54
09 68 16 00-0075	SY	CONSTELLATION ULTRALOC® 26 Ounce, Patterned, Nylon Broadloom Carpet.....	27.51	17.54
09 68 16 00-0076	SY	CROSS STITCH ULTRALOC® 26 Ounce, Patterned, Nylon Broadloom Carpet.....	28.69	17.54
09 68 16 00-0077	SY	ESCAPE ULTRALOC® 26 Ounce, Patterned, Nylon Broadloom Carpet.....	29.62	17.54
09 68 16 00-0078	SY	WISDOM ECOWORX® PERFORMANCE 26 Ounce, Patterned, Nylon Broadloom Carpet	29.97	17.54
09 68 16 00-0079	SY	BOTAN ULTRALOC® 26 Ounce, Patterned, Nylon Broadloom Carpet.....	30.28	17.54
09 68 16 00-0080	SY	MAINFRAME ULTRALOC® 26 Ounce, Patterned, Nylon Broadloom Carpet.....	30.17	17.54
09 68 16 00-0081	SY	HANA ULTRALOC® 26 Ounce, Patterned, Nylon Broadloom Carpet	30.41	17.54
09 68 16 00-0082	SY	NAVIGATE ULTRALOC® 26 Ounce, Patterned, Nylon Broadloom Carpet.....	30.75	17.54
09 68 16 00-0083	SY	INTUITION ULTRALOC® MB 26 Ounce, Patterned, Nylon Broadloom Carpet.....	31.89	17.54
09 68 16 00-0084	SY	QUEST ULTRALOC® MB 26 Ounce, Patterned, Nylon Broadloom Carpet.....	31.89	17.54
09 68 16 00-0085	SY	SOPHISTICATED ULTRALOC® MB 26 Ounce, Patterned, Nylon Broadloom Carpet.....	31.89	17.54
09 68 16 00-0086	SY	JOIE ECOWORX® PERFORMANCE 26 Ounce, Patterned, Nylon Broadloom Carpet.....	39.51	17.54

09 68 16 00-0087 28 Ounce, Patterned, Nylon Broadloom Carpet (09 68 16 00-0011)

09 68 16 00-0088	SY	POTENTIAL III 28 CLASSICBAC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	23.70	19.04
09 68 16 00-0089	SY	MOMENTUM IV UNITARY 28 Ounce, Patterned, Nylon Broadloom Carpet	24.15	19.04
09 68 16 00-0090	SY	POTENTIAL III 28 UNITARY 28 Ounce, Patterned, Nylon Broadloom Carpet	24.80	19.04
09 68 16 00-0091	SY	CULTURE CLASSICBAC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	24.88	19.04
09 68 16 00-0092	SY	SCHOLAR II UNITARY 28 Ounce, Patterned, Nylon Broadloom Carpet	26.02	19.04
09 68 16 00-0093	SY	FIELD TRIP ULTRALOC® 28 Ounce, Patterned, Nylon Broadloom Carpet	26.57	19.04
09 68 16 00-0094	SY	ACCOMPLISH CLASSICBAC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	26.68	19.04
09 68 16 00-0095	SY	PROSPER CLASSICBAC® 28 Ounce, Patterned, Nylon Broadloom Carpet	27.65	19.04
09 68 16 00-0096	SY	ASPIRE CLASSICBAC® 28 Ounce, Patterned, Nylon Broadloom Carpet	28.39	19.04
09 68 16 00-0097	SY	MOVEMENT ULTRALOC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	28.55	19.04
09 68 16 00-0098	SY	SHIMMER ULTRALOC® 28 Ounce, Patterned, Nylon Broadloom Carpet	28.80	19.04
09 68 16 00-0099	SY	CORDED ULTRALOC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	29.33	19.04
09 68 16 00-0100	SY	FIELD TRIP ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet	30.71	19.04
09 68 16 00-0101	SY	ACCOMPLISH ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet.....	30.90	19.04
09 68 16 00-0102	SY	PROSPER ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet.....	31.85	19.04



		Finishes	09
		Flooring	09 60
		Carpeting	09 68

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0103	SY		MEADOW ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet.....	32.01	19.04
09 68 16 00-0104	SY		PROFILE ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet.....	32.20	19.04
09 68 16 00-0105	SY		ASPIRE ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet.....	32.34	19.04
09 68 16 00-0106	SY		DOUBLE KNIT ULTRALOC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	32.61	19.04
09 68 16 00-0107	SY		BRIDGE ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet.....	33.65	19.04
09 68 16 00-0108	SY		GLADE ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet.....	34.42	19.04
09 68 16 00-0109	SY		ESSENCE ULTRALOC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	36.91	19.04
09 68 16 00-0110	SY		EXPRESSIVE ULTRALOC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	36.91	19.04
09 68 16 00-0111	SY		BASKET ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet.....	39.85	19.04
09 68 16 00-0112	SY		IKAT ULTRALOC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	40.08	19.04
09 68 16 00-0113	SY		VERVE ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet.....	40.04	19.04
09 68 16 00-0114	SY		VITAE ECOWORX® PERFORMANCE 28 Ounce, Patterned, Nylon Broadloom Carpet.....	40.04	19.04
09 68 16 00-0115	SY		IMAGERY CLASSICBAC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	26.23	19.04
09 68 16 00-0116	SY		GROUND FORCE CLASSICBAC® 28 Ounce, Patterned, Nylon Broadloom Carpet.....	23.92	19.04
09 68 16 00-0117			30 Ounce, Patterned, Nylon Broadloom Carpet (09 68 16 00-0111)		
09 68 16 00-0118	SY		GRADIENT CLASSICBAC® 30 Ounce, Patterned, Nylon Broadloom Carpet.....	26.78	19.04
09 68 16 00-0119	SY		HONOR ECOWORX® PERFORMANCE 30 Ounce, Patterned, Nylon Broadloom Carpet.....	36.93	19.04
09 68 16 00-0120	SY		PEBBLE ECOWORX® PERFORMANCE 30 Ounce, Patterned, Nylon Broadloom Carpet.....	37.09	19.04
09 68 16 00-0121	SY		BATIK ULTRALOC® 30 Ounce, Patterned, Nylon Broadloom Carpet.....	40.08	19.04
09 68 16 00-0122	SY		LINEN ULTRALOC® 30 Ounce, Patterned, Nylon Broadloom Carpet.....	40.08	19.04
09 68 16 00-0123	SY		TAPESTRY ULTRALOC® 30 Ounce, Patterned, Nylon Broadloom Carpet.....	40.08	19.04
09 68 16 00-0124	SY		TEXTILE ULTRALOC® 30 Ounce, Patterned, Nylon Broadloom Carpet.....	40.08	19.04
09 68 16 00-0125	SY		TRELLIS ECOWORX® PERFORMANCE 30 Ounce, Patterned, Nylon Broadloom Carpet.....	41.30	19.04
09 68 16 00-0126	SY		TWINE ECOWORX® PERFORMANCE 30 Ounce, Patterned, Nylon Broadloom Carpet.....	41.30	19.04
09 68 16 00-0127	SY		BEYOND ULTRALOC® 30 Ounce, Patterned, Nylon Broadloom Carpet.....	41.52	19.04
09 68 16 00-0128			32 Ounce, Patterned, Nylon Broadloom Carpet (09 68 16 00-0111)		
09 68 16 00-0129	SY		REFUGE ULTRALOC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	24.56	19.04
09 68 16 00-0130	SY		RETREAT ULTRALOC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	24.47	19.04
09 68 16 00-0131	SY		PLEAT CLASSICBAC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	25.20	19.04
09 68 16 00-0132	SY		TAPER CLASSICBAC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	25.20	19.04
09 68 16 00-0133	SY		STRIPES CLASSICBAC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	25.41	19.04
09 68 16 00-0134	SY		HERRINGBONE CLASSICBAC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	25.41	19.04
09 68 16 00-0135	SY		SQUARES CLASSICBAC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	25.66	19.04
09 68 16 00-0136	SY		SOLID CLASSICBAC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	31.30	19.04
09 68 16 00-0137	SY		CORE ULTRALOC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	32.57	19.04
09 68 16 00-0138	SY		TIMBER ULTRALOC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	35.93	19.04
09 68 16 00-0139	SY		GROUNDNED ULTRALOC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	36.43	19.04
09 68 16 00-0140	SY		TRIBUTE ECOWORX® PERFORMANCE 32 Ounce, Patterned, Nylon Broadloom Carpet.....	39.17	19.04
09 68 16 00-0141	SY		GRACE ECOWORX® PERFORMANCE 32 Ounce, Patterned, Nylon Broadloom Carpet.....	39.61	19.04
09 68 16 00-0142	SY		INHERIT ULTRALOC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	42.49	19.04
09 68 16 00-0143	SY		EMBRACE ULTRALOC® 32 Ounce, Patterned, Nylon Broadloom Carpet.....	47.59	19.04
09 68 16 00-0144			34 Ounce, Patterned, Nylon Broadloom Carpet (09 68 16 00-0111)		
09 68 16 00-0145	SY		GLOW ULTRALOC® 34 Ounce, Patterned, Nylon Broadloom Carpet.....	35.84	20.46
09 68 16 00-0146	SY		3SQUARE ULTRALOC® 34 Ounce, Patterned, Nylon Broadloom Carpet.....	37.44	20.46
09 68 16 00-0147	SY		EDITION ULTRALOC® 34 Ounce, Patterned, Nylon Broadloom Carpet.....	43.47	20.46
09 68 16 00-0148			36 Ounce, Patterned, Nylon Broadloom Carpet (09 68 16 00-0111)		
09 68 16 00-0149	SY		BELLCOURT CLASSICBAC® 36 Ounce, Patterned, Nylon Broadloom Carpet.....	37.27	20.46
09 68 16 00-0150	SY		CRANFORD CLASSICBAC® 36 Ounce, Patterned, Nylon Broadloom Carpet.....	37.27	20.46
09 68 16 00-0151	SY		KENNEBUNK CLASSICBAC® 36 Ounce, Patterned, Nylon Broadloom Carpet.....	37.27	20.46
09 68 16 00-0152	SY		MORITZ CLASSICBAC® 36 Ounce, Patterned, Nylon Broadloom Carpet.....	37.27	20.46
09 68 16 00-0153	SY		FIBER ECOWORX® 36 Ounce, Patterned, Nylon Broadloom Carpet.....	39.30	20.46
09 68 16 00-0154			38 Ounce, Patterned, Nylon Broadloom Carpet (09 68 16 00-0111)		
09 68 16 00-0155	SY		LANA ECOWORX® 38 Ounce, Patterned, Nylon Broadloom Carpet.....	46.65	20.46
09 68 16 00-0156	SY		ARTISAN LOOM ULTRALOC® 38 Ounce, Patterned, Nylon Broadloom Carpet.....	47.59	20.46
09 68 16 00-0157	SY		CHOK LOOM ULTRALOC® 38 Ounce, Patterned, Nylon Broadloom Carpet.....	47.08	20.46
09 68 16 00-0158	SY		AT EASE 39 SOFTBAC 38 Ounce, Patterned, Nylon Broadloom Carpet.....	32.07	20.46
09 68 16 00-0159	SY		AT EASE 49 SOFTBAC 38 Ounce, Patterned, Nylon Broadloom Carpet.....	35.02	20.46
09 68 16 00-0160	SY		WELCOME II PERFORMANCE RUBBER BACKING WALK-OFF 38 Ounce, Patterned, Nylon Broadloom Carpet.....	38.44	20.46
09 68 16 00-0161	SY		BON JOUR II PERFORMANCE RUBBER BACKING WALK-OFF 38 Ounce, Patterned, Nylon Broadloom Carpet.....	38.44	20.46
09 68 16 00-0162			Non-Patterned Broadloom Carpet (Shaw) (09 68 16 00-0110)		
09 68 16 00-0163			24 Ounce, Non-Patterned, Nylon Broadloom Carpet (09 68 16 00-0162)		
09 68 16 00-0164	SY		HARBOR CLASSICBAC® 24 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	20.29	17.54
09 68 16 00-0165	SY		UPSCALE CLASSICBAC® 24 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	20.29	17.54
09 68 16 00-0166	SY		MEMOIRS CLASSICBAC® 24 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	20.51	17.54
09 68 16 00-0167	SY		SCENERY CLASSICBAC® 24 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	21.63	17.54
09 68 16 00-0168	SY		REIMAGINE CLASSICBAC® 24 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	22.71	17.54
09 68 16 00-0169	SY		STATEMENT CLASSICBAC® 24 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	23.83	17.54

60	09	Finishes
	09 60	Flooring
	09 68	Carpeting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 68 16 00-0170 30 Ounce, Non-Patterned, Nylon Broadloom Carpet <small>(09 68 16 00-0162)</small>		
09 68 16 00-0171 SY DESIGN SERIES V 30 CLASSICBAC® 30 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	24.98	19.04
09 68 16 00-0172 SY HIGHLIGHT ECOWORX® PERFORMANCE 30 Ounce, Non-Patterned, Nylon Broadloom Carpet	31.32	19.04
09 68 16 00-0173 34 Ounce, Non-Patterned, Nylon Broadloom Carpet <small>(09 68 16 00-0162)</small>		
09 68 16 00-0174 SY RESIDENCE INN I CLASSICBAC® 34 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	29.08	20.46
09 68 16 00-0175 36 Ounce, Non-Patterned, Nylon Broadloom Carpet <small>(09 68 16 00-0162)</small>		
09 68 16 00-0176 SY DESIGN SERIES V 36 CLASSICBAC® 36 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	28.80	20.46
09 68 16 00-0177 38 Ounce, Non-Patterned, Nylon Broadloom Carpet <small>(09 68 16 00-0162)</small>		
09 68 16 00-0178 SY VILLA CLASSICBAC® 38 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	28.82	20.46
09 68 16 00-0179 SY SCEPTER II CLASSICBAC® 38 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	34.29	20.46
09 68 16 00-0180 SY RESIDENCE INN II CLASSICBAC® 38 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	31.94	20.46
09 68 16 00-0181 SY RESIDENCE INN III CLASSICBAC® 38 Ounce, Non-Patterned, Nylon Broadloom Carpet.....	34.92	20.46
09 68 16 00-0182 Carpet Accessories <small>(09 68 16)</small>		
09 68 16 00-0183 LF Metal Carpet Saddle Strip, Up To 4" Wide.....	.510	0.78
09 68 16 00-0184 LF Carpet Grip Tape, Double Sided, 6" Wide.....	2.38	0.78
09 68 16 00-0185 Removal And Reinstallation Of Carpet And Pad <small>(09 68 16)</small>		
Note: Includes storage, cleaning and supply materials.		
09 68 16 00-0186 SY Removal And Reinstallation Of Carpet And Pad.....	24.72	
09 68 16 00-0187 Carpeting Support Functions <small>(09 68 16)</small>		
09 68 16 00-0188 Relocate Partitions, Modular Work Stations <small>(09 68 16 00-0187)</small>		
Note: Includes disassembly and reassembly of work station. Excludes electrical disconnection or reconnection.		
09 68 16 00-0189 EA Relocate Modular Work Station.....	271.99	
09 68 16 00-0190 Installation Of Owner Provided Broadloom Carpet <small>(09 68 16)</small>		
09 68 16 00-0191 SY Up To 24 Oz, Installation Of Owner Provided Broadloom Carpet	10.42	
Note: Includes adhesive for glue-down or tack strip for padded installations.		
For Up To 15, Add	2.04	
For >15 To 33, Add	1.02	
09 68 16 00-0192 SY >24 To 34 Oz, Installation Of Owner Provided Broadloom Carpet.....	12.11	
Note: Includes adhesive for glue-down or tack strip for padded installations.		
For Up To 15, Add	2.38	
For >15 To 33, Add	1.19	
09 68 16 00-0193 SY >34 Oz, Installation Of Owner Provided Broadloom Carpet.....	14.49	
Note: Includes adhesive for glue-down or tack strip for padded installations.		
For Up To 15, Add	2.85	
For >15 To 33, Add	1.43	
09 69 Access Flooring <small>(09 60)</small>		
09 69 13 Rigid-Grid Access Flooring <small>(09 69)</small>		
09 69 13 00-0001 Panels, No Covering <small>(09 69 13)</small>		
09 69 13 00-0002 SF 2' x 2' Panels - No Covering Access And Pedestal Floors.....	11.43	0.78
For Carpet Covering, Add	2.77	
For Vinyl Floor Covering, Add	1.91	
09 69 13 00-0003 SF 2' x 2' Perforated Panels Access And Pedestal Floors.....	21.33	0.78
For Carpet Covering, Add	2.77	
For Vinyl Floor Covering, Add	1.91	
09 69 13 00-0004 SF Tate 1250AS Panel Cover UTP Designer Plus Color Raf Blue 7153T.....	19.88	0.85
09 69 13 00-0005 SF Tate 1250AS Panel Cover UTP Designer Plus Color Sage Brown 7777T.....	19.88	0.85
09 69 13 00-0006 SF Tate 1250AS Panel Cover UTP Designer Plus Color Moondance 6808.....	19.88	0.85
09 69 13 00-0007 SF Tate 1250AS Panel Cover UTP Designer Plus Color Mosaic 6280.....	19.88	0.85
09 69 13 00-0008 SF Tate 1250AS Panel Cover HPL 1/8" Nevamar ST2-2 Beige Star/Brown Trim.....	18.81	0.85
09 69 13 00-0009 SF Tate 1250AS Panel Cover HPL 1/8" Nevamar ST6-1 Gray Star/Black Trim.....	18.81	0.85
09 69 13 00-0010 SF Tate Concore 1500 Panel Cover UTP Designer Plus Color Raf Blue 7153T.....	21.22	0.85
09 69 13 00-0011 SF Tate Concore 1500 Panel Cover UTP Designer Plus Color Sage Brown 7777T.....	21.22	0.85
09 69 13 00-0012 SF Tate Concore 1500 Panel Cover UTP Designer Plus Color Moondance 6808.....	21.22	0.85
09 69 13 00-0013 SF Tate Concore 1500 Panel Cover UTP Designer Plus Color Mosaic 6280.....	21.22	0.85
09 69 13 00-0014 SF Tate Concore 1500 Panel Cover HPL 1/8" Nevamar ST-2 Beige Star/Brown Trim.....	20.15	0.85
09 69 13 00-0015 SF Tate Concore 1500 Panel Cover HPL 1/8" Nevamar ST6-1 Grey Star/Black Trim.....	20.15	0.85
09 69 13 00-0016 SF Tate 1250AS Perforated 25% O/A Cover 1/8 " Nevamar HPL ST2-2 Beige Star Trim.....	25.48	0.85
09 69 13 00-0017 SF Tate 1250AS Perforated 25% O/A Cover 1/8 " Nevamar HPL ST6-1 Gray Star Trim.....	25.48	0.85



		Finishes	09
		Flooring	09 60
		Access Flooring	09 69

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 69 13 00-0018			Pedestals <small>(09 69 13)</small>		
09 69 13 00-0019	EA		6" To 12" Finished Floor Height, Pedestal Assembly.....	26.37	3.88
09 69 13 00-0020	EA		8" To 12" Finished Floor Height, Pedestal Assembly.....	27.71	3.88
09 69 13 00-0021	EA		18" To 24" Finished Floor Height, Pedestal Assembly.....	28.38	3.88
09 69 13 00-0022	EA		30" To 36" Finished Floor Height, Pedestal Assembly.....	30.80	3.88
09 69 13 00-0023			Stringers <small>(09 69 13)</small>		
09 69 13 00-0024	EA		2' Bolted Stringers, Access And Pedestal Floors.....	14.38	4.66
09 69 13 00-0025	EA		4' Bolted Stringers, Access And Pedestal Floors.....	24.52	6.99
09 69 13 00-0026	EA		6' Bolted Stringers, Access And Pedestal Floors.....	39.04	11.65
09 69 13 00-0027			Understructure <small>(09 69 13)</small>		
09 69 13 00-0028	SF		Standard Bolted Stringer Understructure 8" Or 12" Finished Floor Height.....	4.39	1.16
09 69 13 00-0029	SF		Standard Bolted Stringer Understructure 18" Or 24" Finished Floor Height.....	4.71	1.16
09 69 13 00-0030	SF		Standard Bolted Stringer Understructure 30" Or 36" Finished Floor Height.....	5.63	1.16
09 69 53			Access Flooring Accessories <small>(09 69)</small>		
09 69 53 00-0001			Accessories <small>(09 69 53)</small>		
09 69 53 00-0002	SF		Accessories, Ramp Assembly Access And Pedestal Floors.....	26.29	3.11
09 69 53 00-0003	LF		Accessories, Handrail Access And Pedestal Floors.....	42.48	5.44
09 69 53 00-0004	LF		Accessories, Fascia Plate Access And Pedestal Floors.....	18.55	5.44
09 69 53 00-0005	EA		Machine Cutouts.....	141.97	
09 69 53 00-0006	SF		Tate Tamp, Cover Step Master Slip Retard- Tile, Buckskin Or Slate.....	42.75	
09 69 53 00-0007	LF		Tate 2 Or 3 Riser Steps In Raised Floor System.....	101.04	0.39
			Note: Includes baffles, fascia plates trim and cover.		
09 69 53 00-0008	LF		Tate Handrail.....	80.89	2.57
09 69 53 00-0009	SF		Hammered Aluminum Finish Fascia.....	31.11	2.57
			Note: Includes trim angles and hardware (8", 12", 18", 24").		
09 69 53 00-0010	EA		7" x 17" Lexan Floor Mounted Grille.....	139.23	9.72
			Note: Includes carpet trim to flush mount.		
09 69 53 00-0011	EA		Cut Hole In Raised Floor And Trim With Black 1/2" Trim Material.....	34.56	
09 69 53 00-0012	EA		Cut Round Hole In Raised Floor And Trim Carpet Install 4" Plastic Insert (Gromtec#GT003).....	34.56	
09 69 53 00-0013	EA		Rehab Panel (Any Brand, Weight) Carpet Cover Only - New UTP Carpet.....	39.68	1.55
09 69 53 00-0014	EA		Rehab Panel (Any Brand, Weight) Carpet Cover Only - New HPL.....	48.37	1.55
09 69 53 00-0015	EA		Rehab Panel (Any Brand, Weight) HPL Cover Only - With New HPL/WA Edge Trim.....	37.27	1.55
09 69 53 00-0016	EA		Rehab Panel (Any Brand, Weight) HPL Cover Only - With New HPL Top set Trim Edge.....	48.35	1.55
09 69 53 00-0017	EA		Flush Mounted Electrical Box (Including Cutting Hole Trim Carpet) P/N Telo-7018-4.....	137.61	9.72
09 69 53 00-0018	EA		Flush Mounted Telephone Box (Grey/Black/Communications).....	99.34	9.72
			Note: Includes cut hole.		
09 69 53 00-0019	EA		Flush Mounted Electrical Box (In Existing Hole) P/N Telo 7018-4.....	137.61	9.72
09 69 53 00-0020	EA		Flush Mounted Telephone Box (Grey/Black/Communications) (In Existing Hole) P/N Telo-7018-2.....	68.26	1.55
09 69 53 00-0021	EA		Removal And Reinstallation Of Flush Mounted Electrical, Telephone Or Communications Floor Box In Raised Floor.....	7.77	
09 69 53 00-0022			Final Cleaning For Computer Room Raised Floor System <small>(09 69 53)</small>		
			Note: Includes wipe dirt/dust from stringers and raised floor beneath raised floor. For new or existing systems.		
09 69 53 00-0023	SF		Vacuum Raised Floor Carpet Panel, Wipe Dirt/Dust From Stringers And Floor Beneath Raised Floor.....	2.62	
09 69 53 00-0024	SF		Vacuum/Shampoo Raised Floor Carpet Panel, Wipe Dirt/Dust From Stringers And Floor Beneath.....	2.70	
09 69 53 00-0025	SF		Vacuum/Wet Mop Clean Raised Floor HPL Panel Wipe Dirt/Dust Stringers And Raised Floor.....	2.68	
09 70			Wall Finishes <small>(09)</small>		
09 72			Wall Coverings <small>(09 70)</small>		
09 72 13			Cork Wall Coverings <small>(09 72)</small>		
09 72 13 00-0001			Cork Wall Covering <small>(09 72 13)</small>		
09 72 13 00-0002	SF		1/8" Cork Wall Covering.....	3.69	0.64
09 72 13 00-0003	SF		1/4" Cork Wall Covering.....	4.52	0.64
09 72 13 00-0004	SF		1/2" Cork Wall Covering.....	5.19	0.64
09 72 13 00-0005	SF		3/4" Cork Wall Covering.....	7.13	0.64
09 72 16			Vinyl-Coated Fabric Wall Coverings <small>(09 72)</small>		
09 72 16 13			Flexible Vinyl Wall Coverings <small>(09 72 16)</small>		
09 72 16 13-0001			Vinyl Wall Coverings <small>(09 72 16 13)</small>		
			Note: Includes wall preparation adhesive, and sizing compound. Demolition includes the removal of wall covering and adhesive.		
09 72 16 13-0002	SF		7-10 Oz/SY Vinyl Wall Covering.....	2.60	0.64
			For Owner Furnished Material, Deduct	-1.59	
09 72 16 13-0003	SF		11-14 Oz/SY Vinyl Wall Covering.....	3.40	0.64
			For Owner Furnished Material, Deduct	-2.33	

09 Finishes
09 70 Wall Finishes
 09 72 Wall Coverings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 72 16 13-0004	SF		15-19 Oz/SY Vinyl Wall Covering.....	3.99	0.64
			<i>For Owner Furnished Material, Deduct</i>	-2.92	
09 72 16 13-0005	SF		20 To 25 Ounces/SY Vinyl Wall Covering.....	4.70	0.64
			<i>For Owner Furnished Material, Deduct</i>	-3.36	
09 72 16 13-0006	SF		26-32 Oz/SY Vinyl Wall Covering.....	5.49	0.64
			<i>For Owner Furnished Material, Deduct</i>	-4.09	
09 72 16 13-0007	SF		33-38 Oz/SY Vinyl Wall Covering.....	6.63	0.64
			<i>For Owner Furnished Material, Deduct</i>	-5.17	
09 72 23 Wallpapering (09 72)					
09 72 23 00-0001 Wallpaper Coverings (09 72 23)					
Note: Includes wall preparation adhesive, and sizing compound. Demolition includes the removal of wall covering and adhesive.					
09 72 23 00-0002	SF		Average Quality Wallpaper (Standard Grade).....	1.75	0.86
09 72 23 00-0003	SF		High Quality Wallpaper (Designer Grade).....	2.91	1.10
09 72 23 00-0004	SF		Textured Paintable Paper Installed On Ceiling	2.33	1.61
09 73 Wall Carpeting (09 70)					
09 73 00 00-0001 Carpet Wall Covering (09 73)					
09 73 00 00-0002	SY		28 Ounce, Nylon Carpet Wall Covering	32.98	19.51
09 73 00 00-0003	SY		32 Ounce, Nylon Carpet Wall Covering	33.68	19.51
09 73 00 00-0004	SY		34 Ounce, Nylon Carpet Wall Covering	36.51	21.00
09 73 00 00-0005	SY		35 Ounce, Nylon Carpet Wall Covering	38.64	21.00
09 73 00 00-0006	SY		36 Ounce, Nylon Carpet Wall Covering	40.83	21.00
09 73 00 00-0007	SY		38 Ounce, Nylon Carpet Wall Covering	41.68	21.00
09 73 00 00-0008	SY		40 Ounce, Nylon Carpet Wall Covering	43.32	22.69
09 73 00 00-0009	SY		42 Ounce, Nylon Carpet Wall Covering	45.11	22.69
09 74 Flexible Wood Sheets (09 70)					
09 74 16 Flexible Wood Veneers (09 74)					
09 74 16 00-0001 Flexible Wood Veneer (09 74 16)					
09 74 16 00-0002	SF		1/32" Thick, Flexible Maple Wood Veneer	6.92	2.59
09 74 16 00-0003	SF		1/32" Thick, Flexible Oak Wood Veneer.....	7.03	2.59
09 74 16 00-0004	SF		1/32" Thick, Flexible Mahogany Wood Veneer	7.03	2.59
09 74 16 00-0005	SF		1/32" Thick, Flexible Birch Wood Veneer	7.14	2.59
09 74 16 00-0006	SF		1/32" Thick, Flexible Walnut Wood Veneer	7.69	2.59
09 74 16 00-0007	SF		1/32" Thick, Flexible Bamboo Wood Veneer	8.35	2.59
09 74 16 00-0008	SF		1/32" Thick, Flexible Fir Wood Veneer	9.12	2.59
09 74 16 00-0009 Flexible Exotic Wood Veneer (09 74 16)					
09 74 16 00-0010	SF		1/32" Thick, Flexible Exotic Wood Veneer	11.03	2.59
09 78 Interior Wall Paneling (09 70)					
09 78 13 Metal Interior Wall Paneling (09 78)					
09 78 13 00-0001 Stainless Steel Wall Base (09 78 13)					
Note: Grade CS304 with #4 satin polish					
09 78 13 00-0002 22 Gauge Stainless Steel Wall Base (09 78 13 00-0001)					
09 78 13 00-0003	LF		2" Height, 22 Gauge, Stainless Steel Straight Wall Base.....	7.85	1.99
09 78 13 00-0004	LF		4" Height, 22 Gauge, Stainless Steel Straight Wall Base.....	11.24	2.19
09 78 13 00-0005	LF		4-3/4" Height, 22 Gauge, Stainless Steel Straight Wall Base.....	12.40	2.19
09 78 13 00-0006	LF		6" Height, 22 Gauge, Stainless Steel Straight Wall Base.....	14.77	2.39
09 78 13 00-0007	LF		8" Height, 22 Gauge, Stainless Steel Straight Wall Base.....	18.32	2.66
09 78 13 00-0008	LF		2" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel Wall Base	8.71	1.99
09 78 13 00-0009	LF		4" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel Wall Base	12.05	2.19
09 78 13 00-0010	LF		4-3/4" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel Wall Base	13.20	2.19
09 78 13 00-0011	LF		6" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel Wall Base	15.47	2.39
09 78 13 00-0012	LF		8" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel Wall Base	19.03	2.66
09 78 13 00-0013	EA		2" Height, 22 Gauge, Stainless Steel Straight 12" x 12" Inside Corner	20.92	3.99
09 78 13 00-0014	EA		4" Height, 22 Gauge, Stainless Steel Straight 12" x 12" Inside Corner	26.18	4.39
09 78 13 00-0015	EA		4-3/4" Height, 22 Gauge, Stainless Steel Straight 12" x 12" Inside Corner	27.92	4.39
09 78 13 00-0016	EA		6" Height, 22 Gauge, Stainless Steel Straight 12" x 12" Inside Corner	31.51	4.79
09 78 13 00-0017	EA		8" Height, 22 Gauge, Stainless Steel Straight 12" x 12" Inside Corner	37.09	5.32
09 78 13 00-0018	EA		2" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Inside Corner.....	40.82	3.99
09 78 13 00-0019	EA		4" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Inside Corner.....	46.14	4.39
09 78 13 00-0020	EA		4-3/4" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Inside Corner	47.82	4.39
09 78 13 00-0021	EA		6" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Inside Corner.....	51.47	4.79
09 78 13 00-0022	EA		8" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Inside Corner.....	57.05	5.32
09 78 13 00-0023	EA		2" Height, 22 Gauge, Stainless Steel Straight 12" x 12" Outside Corner	20.92	3.99
09 78 13 00-0024	EA		4" Height, 22 Gauge, Stainless Steel Straight 12" x 12" Outside Corner	26.18	4.39
09 78 13 00-0025	EA		4-3/4" Height, 22 Gauge, Stainless Steel Straight 12" x 12" Outside Corner	27.92	4.39



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 78 13 00-0026	EA		6" Height, 22 Gauge, Stainless Steel Straight 12" x 12" Outside Corner	31.51	4.79
09 78 13 00-0027	EA		8" Height, 22 Gauge, Stainless Steel Straight 12" x 12" Outside Corner	37.09	5.32
09 78 13 00-0028	EA		2" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Outside Corner.....	48.83	3.99
09 78 13 00-0029	EA		4" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Outside Corner.....	54.09	4.39
09 78 13 00-0030	EA		4-3/4" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Outside Corner.....	55.83	4.39
09 78 13 00-0031	EA		6" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Outside Corner.....	59.42	4.79
09 78 13 00-0032	EA		8" Height, 22 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Outside Corner.....	65.00	5.32
09 78 13 00-0033 16 Gauge Stainless Steel Wall Base (09 78 13 00-0001)					
09 78 13 00-0034	LF		2" Height, 16 Gauge, Stainless Steel Straight Wall Base.....	12.82	1.99
09 78 13 00-0035	LF		4" Height, 16 Gauge, Stainless Steel Straight Wall Base.....	21.22	2.19
09 78 13 00-0036	LF		4-3/4" Height, 16 Gauge, Stainless Steel Straight Wall Base	24.19	2.19
09 78 13 00-0037	LF		6" Height, 16 Gauge, Stainless Steel Straight Wall Base.....	29.58	2.39
09 78 13 00-0038	LF		8" Height, 16 Gauge, Stainless Steel Straight Wall Base.....	39.09	2.66
09 78 13 00-0039	LF		2" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel Wall Base	13.62	1.99
09 78 13 00-0040	LF		4" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel Wall Base	21.99	2.19
09 78 13 00-0041	LF		4-3/4" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel Wall Base.....	24.76	2.19
09 78 13 00-0042	LF		6" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel Wall Base	30.38	2.39
09 78 13 00-0043	LF		8" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel Wall Base	38.88	2.66
09 78 13 00-0044	EA		2" Height, 16 Gauge, Stainless Steel Straight 12" x 12" Inside Corner	28.35	3.99
09 78 13 00-0045	EA		4" Height, 16 Gauge, Stainless Steel Straight 12" x 12" Inside Corner	41.09	4.39
09 78 13 00-0046	EA		4-3/4" Height, 16 Gauge, Stainless Steel Straight 12" x 12" Inside Corner.....	45.50	4.39
09 78 13 00-0047	EA		6" Height, 16 Gauge, Stainless Steel Straight 12" x 12" Inside Corner	53.85	4.79
09 78 13 00-0048	EA		8" Height, 16 Gauge, Stainless Steel Straight 12" x 12" Inside Corner	66.91	5.32
09 78 13 00-0049	EA		2" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Inside Corner	48.28	3.99
09 78 13 00-0050	EA		4" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Inside Corner	61.03	4.39
09 78 13 00-0051	EA		4-3/4" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Inside Corner	65.52	4.39
09 78 13 00-0052	EA		6" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Inside Corner	73.81	4.79
09 78 13 00-0053	EA		8" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Inside Corner	86.82	5.32
09 78 13 00-0054	EA		2" Height, 16 Gauge, Stainless Steel Straight 12" x 12" Outside Corner	28.35	3.99
09 78 13 00-0055	EA		4" Height, 16 Gauge, Stainless Steel Straight 12" x 12" Outside Corner	41.09	4.39
09 78 13 00-0056	EA		4-3/4" Height, 16 Gauge, Stainless Steel Straight 12" x 12" Outside Corner.....	45.50	4.39
09 78 13 00-0057	EA		6" Height, 16 Gauge, Stainless Steel Straight 12" x 12" Outside Corner	53.85	4.79
09 78 13 00-0058	EA		8" Height, 16 Gauge, Stainless Steel Straight 12" x 12" Outside Corner	66.91	5.32
09 78 13 00-0059	EA		2" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Outside Corner.....	56.26	3.99
09 78 13 00-0060	EA		4" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Outside Corner.....	69.00	4.39
09 78 13 00-0061	EA		4-3/4" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Outside Corner.....	73.50	4.39
09 78 13 00-0062	EA		6" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Outside Corner.....	81.80	4.79
09 78 13 00-0063	EA		8" Height, 16 Gauge, 1/4" Cove Bend Stainless Steel 12" x 12" Outside Corner.....	94.82	5.32
09 80 Acoustic Treatment (09)					
09 81 Acoustic Insulation (09 80)					
09 81 16 Acoustic Blanket Insulation (09 81)					
09 81 16 00-0001 Sound Attenuation Fire Blankets (SAFB) (09 81 16)					
09 81 16 00-0002 2.5 PCF Density, Sound Attenuation Fire Blankets (SAFB) (09 81 16 00-0001)					
09 81 16 00-0003	SF		1-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	1.44	0.26
09 81 16 00-0004	SF		2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	1.53	0.26
09 81 16 00-0005	SF		2-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	1.67	0.26
09 81 16 00-0006	SF		3" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	1.76	0.26
09 81 16 00-0007	SF		3-1/2" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	1.90	0.26
09 81 16 00-0008	SF		4" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	2.02	0.26
09 81 16 00-0009	SF		5" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	2.19	0.26
09 81 16 00-0010	SF		6" Thick, 2.5 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	2.38	0.26
09 81 16 00-0011 4 PCF Density, Sound Attenuation Fire Blankets (SAFB) (09 81 16 00-0001)					
09 81 16 00-0012	SF		1" Thick, 4 PCF Density, Sound Attenuation Fire Blanket (Thermafiber SAFB).....	1.42	0.26
09 81 16 00-0013 Fiberglass Sound Attenuation Blankets (09 81 16)					
Note: (Insul-Quilt)					
09 81 16 00-0014	SF		2" Fiberglass Core Blanket, Faced With fiberglass Cloth And Backed With A Flame-Proof Foil (Insul-Quilt)	4.98	0.24
09 81 16 00-0015 Sound Attenuation Batts (09 81 16)					
Note: NoiseReducer® by Certainteed, Quitezone® by Owens Corning, Sound-Shield® by Johns Mansville.					
09 81 16 00-0016	SF		2-1/2" Thick, Unfaced Sound Attenuation Batt.....	0.89	0.35
09 81 16 00-0017	SF		3-1/2" Thick, Unfaced Sound Attenuation Batt.....	0.95	0.35
09 81 16 00-0018	SF		3-1/2" Thick, Kraft Faced Sound Attenuation Batt.....	0.98	0.35
09 81 16 00-0019	SF		5-1/2" Thick, Unfaced Sound Attenuation Batt.....	1.08	0.35
09 81 16 00-0020	SF		5-1/2" Thick, Kraft Faced Sound Attenuation Batt.....	1.11	0.35
09 81 16 00-0021	SF		6-1/4" Thick, Unfaced Sound Attenuation Batt.....	1.10	0.35
09 81 16 00-0022	SF		6-1/4" Thick, Kraft Faced Sound Attenuation Batt.....	1.13	0.35

09	09 Finishes
	09 80 Acoustic Treatment
	09 84 Acoustic Room Components



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 84 Acoustic Room Components (09 80)

09 84 13 Fixed Sound-Absorptive Panels (09 84)

09 84 13 00-0001 Sound Absorbing Panels And Attenuation Blankets (09 84 13)

Note: No backs, 3" thick modular, ceiling or wall hung back. Excludes ceiling suspension systems and wall furring system.

09 84 13 00-0002	SF	3" Thick Perforated Steel Sound Absorbing Panel Painted, No Back With Fiberglass Or Mineral Filler	8.79	1.77
09 84 13 00-0003	SF	1" Thick Fiberglass Sound Absorbing Panels With Glass Cloth Face For Walls	12.86	1.77

09 84 13 00-0004 Sound Absorbing Acoustical Wall Panel System (09 84 13)

See CSI section 06 11 16 00-0196 for wood furring.

09 84 13 00-0005 Mineral Fiber Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak®) (09 84 13 00-0004)

Note: Includes tackable surface, molding and mounting hardware for flush mount.

09 84 13 00-0006	SF	5/8" Panel Thickness, Vinyl Surface, Mineral Fiber Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 60 Signature Vinyl).....	9.42	1.99
09 84 13 00-0007	SF	3/4" Panel Thickness, Composed Fabric Surface (Non-Woven), Mineral Fiber Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 60 Rhythms®).....	8.78	1.99
09 84 13 00-0008	SF	3/4" Panel Thickness, Woven Fabric Surface, Mineral Fiber Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 60 FR-701).....	10.81	1.99
09 84 13 00-0009	SF	3/4" Panel Thickness, Woven Fabric Surface, Mineral Fiber Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 60 Lido™).....	10.82	1.99
09 84 13 00-0010	SF	3/4" Panel Thickness, Woven Fabric Surface, Mineral Fiber Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 60 Spinel™).....	11.85	1.99
09 84 13 00-0011	SF	3/4" Panel Thickness, Woven Fabric Surface, Mineral Fiber Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 60 Zirconia™).....	11.85	1.99

09 84 13 00-0012 Fiberglass Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak®) (09 84 13 00-0004)

Note: Includes molding and mounting hardware for flush mount.

09 84 13 00-0013	SF	1" Panel Thickness, Composed Fabric Surface (Non-Woven), Fiberglass Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 85 Rhythms®).....	10.84	1.99
09 84 13 00-0014	SF	1" Panel Thickness, Woven Fabric Surface, Fiberglass Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 85 FR-701).....	12.51	1.99
09 84 13 00-0015	SF	1" Panel Thickness, Woven Fabric Surface, Fiberglass Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 85 Lido™).....	12.51	1.99
09 84 13 00-0016	SF	1" Panel Thickness, Woven Fabric Surface, Fiberglass Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 85 Spinel™).....	14.17	1.99
09 84 13 00-0017	SF	1" Panel Thickness, Woven Fabric Surface, Fiberglass Substrate, Sound Absorbing Acoustical Wall Panel System (Armstrong® Soundsoak® 85 Zirconia™).....	14.17	1.99

09 84 13 00-0018 Sound Absorbing Panel, Eggcrate Style (09 84 13)

Note: Ceiling or wall hung back.

09 84 13 00-0019	SF	2" Thick Polyurethane Sound Wave (Eggcrate Style).....	8.64	
		<i>For Pyramid Style, Add</i>	<i>1.18</i>	
09 84 13 00-0020	SF	3" Thick Polyurethane Sound Wave (Eggcrate Style).....	11.42	
		<i>For Pyramid Style, Add</i>	<i>1.18</i>	
09 84 13 00-0021	SF	4" Thick Polyurethane Sound Wave (Eggcrate Style).....	14.92	
		<i>For Pyramid Style, Add</i>	<i>1.18</i>	
09 84 13 00-0022	SF	2" Thick Melamine Sound Wave (Eggcrate Style).....	11.23	
		<i>For Eggcrate Style With Hypalon Coating, Add</i>	<i>1.97</i>	
		<i>For Pyramid Style, Add</i>	<i>2.05</i>	
		<i>For Pyramid Style With Hypalon Coating, Add</i>	<i>4.02</i>	
09 84 13 00-0023	SF	3" Thick Melamine Sound Wave (Eggcrate Style).....	22.89	
		<i>For Eggcrate Style With Hypalon Coating, Add</i>	<i>1.97</i>	
		<i>For Pyramid Style, Add</i>	<i>0.42</i>	
		<i>For Pyramid Style With Hypalon Coating, Add</i>	<i>2.40</i>	
09 84 13 00-0024	SF	4" Thick Melamine Sound Wave (Eggcrate Style).....	29.34	
		<i>For Eggcrate Style With Hypalon Coating, Add</i>	<i>1.97</i>	
		<i>For Pyramid Style, Add</i>	<i>0.42</i>	
		<i>For Pyramid Style With Hypalon Coating, Add</i>	<i>2.40</i>	

09 84 13 00-0025 Sound Deadening Fiberboard (09 84 13)

09 84 13 00-0026	SF	1/2" Sound Deadening Fiberboard.....	1.15	0.44
		<i>For Horizontal Installation Up To 10' High, Add</i>	<i>0.27</i>	
		<i>For Horizontal Installation >10' High, Add</i>	<i>0.40</i>	
		<i>For Walls >10' High, Add</i>	<i>0.06</i>	
		<i>For Up To 128, Add</i>	<i>0.39</i>	
		<i>For >128 To 320, Add</i>	<i>0.24</i>	

09 90 Painting And Coating (09)

Note: Includes masking, safety signs, cleaning of area (dry wiping down walls, floors, doors, etc.), removal of loose paint (paint, caulk, etc.), feathering rough edges, sanding between coats, protective work to contain dust and paint splatters (drop cloths), unless otherwise noted, removal and reinstallation of cabinet hardware, switch covers and outlet plates, equipment to place paint and ladders. New construction work additionally includes filling knots, divots, depressions, holes (screw and nail holes in drywall to 1/4" diameter of



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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unlimited quantity). All work designated as "brush/roller" includes brush work for cut and roller work up to cut in. See CSI section 01 56 16 00-0001 for temporary plastic sheeting to protect existing equipment or materials, 07 92 00 00-0000 for caulking where required, 09 01 20 00-0000 for severely damaged surface preparation in excess of items included above, hand scrape, pressure washing and chemical cleaning where required, 09 29 10 00-0037 for finishing existing wall surfaces or small holes not requiring patching in excess of items included above.

09 91 Painting (09 90)

09 91 13 Exterior Painting (09 91)

Note: Acrylic latex paint unless otherwise stated. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.

09 91 13 00-0001 Paint Exterior Walls/Siding (09 91 13)

09 91 13 00-0002 Paint Exterior Brick Walls (09 91 13 00-0001)

<p>09 91 13 00-0003 SF Paint Exterior Brick Walls, 1 Coat Filler, Brush Work.....</p> <p style="padding-left: 20px;">For Oil Based Paint, Add</p> <p style="padding-left: 20px;">For Work >20', Add</p> <p style="padding-left: 40px;">Note: Applied only to work area above 20'.</p> <p style="padding-left: 20px;">For Up To 100, Add</p> <p style="padding-left: 20px;">For >100 To 250, Add</p> <p style="padding-left: 20px;">For >250 To 500, Add</p> <p style="padding-left: 20px;">For >2,500 To 5,000, Deduct</p> <p style="padding-left: 20px;">For >5,000 To 10,000, Deduct</p> <p style="padding-left: 20px;">For >10,000 To 20,000, Deduct</p> <p style="padding-left: 20px;">For >20,000, Deduct</p>	<p>.....0.70</p> <p>0.04</p> <p>0.14</p> <p>0.45</p> <p>0.21</p> <p>0.09</p> <p>-0.04</p> <p>-0.07</p> <p>-0.11</p> <p>-0.14</p>
<p>09 91 13 00-0004 SF Paint Exterior Brick Walls, 1 Coat Paint, Brush Work.....</p> <p style="padding-left: 20px;">For Oil Based Paint, Add</p> <p style="padding-left: 20px;">For Work >20', Add</p> <p style="padding-left: 40px;">Note: Applied only to work area above 20'.</p> <p style="padding-left: 20px;">For Up To 100, Add</p> <p style="padding-left: 20px;">For >100 To 250, Add</p> <p style="padding-left: 20px;">For >250 To 500, Add</p> <p style="padding-left: 20px;">For >2,500 To 5,000, Deduct</p> <p style="padding-left: 20px;">For >5,000 To 10,000, Deduct</p> <p style="padding-left: 20px;">For >10,000 To 20,000, Deduct</p> <p style="padding-left: 20px;">For >20,000, Deduct</p>	<p>.....1.00</p> <p>0.06</p> <p>0.21</p> <p>0.66</p> <p>0.31</p> <p>0.14</p> <p>-0.05</p> <p>-0.10</p> <p>-0.15</p> <p>-0.20</p>
<p>09 91 13 00-0005 SF Paint Exterior Brick Walls, 2 Coats Paint, Brush Work.....</p> <p style="padding-left: 20px;">For Oil Based Paint, Add</p> <p style="padding-left: 20px;">For Work >20', Add</p> <p style="padding-left: 40px;">Note: Applied only to work area above 20'.</p> <p style="padding-left: 20px;">For Up To 100, Add</p> <p style="padding-left: 20px;">For >100 To 250, Add</p> <p style="padding-left: 20px;">For >250 To 500, Add</p> <p style="padding-left: 20px;">For >2,500 To 5,000, Deduct</p> <p style="padding-left: 20px;">For >5,000 To 10,000, Deduct</p> <p style="padding-left: 20px;">For >10,000 To 20,000, Deduct</p> <p style="padding-left: 20px;">For >20,000, Deduct</p>	<p>.....1.45</p> <p>0.09</p> <p>0.29</p> <p>0.91</p> <p>0.43</p> <p>0.19</p> <p>-0.07</p> <p>-0.15</p> <p>-0.22</p> <p>-0.29</p>
<p>09 91 13 00-0006 SF Paint Exterior Brick Walls, 1 Coat Filler, Brush/Roller Work.....</p> <p style="padding-left: 20px;">For Oil Based Paint, Add</p> <p style="padding-left: 20px;">For Work >20', Add</p> <p style="padding-left: 40px;">Note: Applied only to work area above 20'.</p> <p style="padding-left: 20px;">For Up To 100, Add</p> <p style="padding-left: 20px;">For >100 To 250, Add</p> <p style="padding-left: 20px;">For >250 To 500, Add</p> <p style="padding-left: 20px;">For >2,500 To 5,000, Deduct</p> <p style="padding-left: 20px;">For >5,000 To 10,000, Deduct</p> <p style="padding-left: 20px;">For >10,000 To 20,000, Deduct</p> <p style="padding-left: 20px;">For >20,000, Deduct</p>	<p>.....0.47</p> <p>0.03</p> <p>0.09</p> <p>0.27</p> <p>0.13</p> <p>0.06</p> <p>-0.02</p> <p>-0.05</p> <p>-0.07</p> <p>-0.09</p>
<p>09 91 13 00-0007 SF Paint Exterior Brick Walls, 1 Coat Paint, Brush/Roller Work.....</p> <p style="padding-left: 20px;">For Oil Based Paint, Add</p> <p style="padding-left: 20px;">For Work >20', Add</p> <p style="padding-left: 40px;">Note: Applied only to work area above 20'.</p> <p style="padding-left: 20px;">For Up To 100, Add</p> <p style="padding-left: 20px;">For >100 To 250, Add</p> <p style="padding-left: 20px;">For >250 To 500, Add</p> <p style="padding-left: 20px;">For >2,500 To 5,000, Deduct</p> <p style="padding-left: 20px;">For >5,000 To 10,000, Deduct</p> <p style="padding-left: 20px;">For >10,000 To 20,000, Deduct</p> <p style="padding-left: 20px;">For >20,000, Deduct</p>	<p>.....0.77</p> <p>0.05</p> <p>0.15</p> <p>0.46</p> <p>0.22</p> <p>0.10</p> <p>-0.04</p> <p>-0.08</p> <p>-0.12</p> <p>-0.15</p>
<p>09 91 13 00-0008 SF Paint Exterior Brick Walls, 2 Coats Paint, Brush/Roller Work.....</p> <p style="padding-left: 20px;">For Oil Based Paint, Add</p> <p style="padding-left: 20px;">For Work >20', Add</p> <p style="padding-left: 40px;">Note: Applied only to work area above 20'.</p> <p style="padding-left: 20px;">For Up To 100, Add</p> <p style="padding-left: 20px;">For >100 To 250, Add</p> <p style="padding-left: 20px;">For >250 To 500, Add</p> <p style="padding-left: 20px;">For >2,500 To 5,000, Deduct</p> <p style="padding-left: 20px;">For >5,000 To 10,000, Deduct</p> <p style="padding-left: 20px;">For >10,000 To 20,000, Deduct</p> <p style="padding-left: 20px;">For >20,000, Deduct</p>	<p>.....1.15</p> <p>0.08</p> <p>0.20</p> <p>0.65</p> <p>0.32</p> <p>0.14</p> <p>-0.06</p> <p>-0.12</p> <p>-0.17</p> <p>-0.23</p>

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0009	SF		Paint Exterior Brick Walls, 1 Coat Filler, Sprayed	0.46	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.26	
			For >100 To 250, Add	0.12	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.09	
09 91 13 00-0010	SF		Paint Exterior Brick Walls, 1 Coat Paint, Sprayed	0.46	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.06	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.21	
			For >100 To 250, Add	0.11	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.09	
09 91 13 00-0011	SF		Paint Exterior Brick Walls, 2 Coats Paint, Sprayed	0.99	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.52	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 13 00-0012			Paint Exterior Concrete Walls (09 91 13 00-0001)		
09 91 13 00-0013	SF		Paint Exterior Concrete Walls, 1 Coat Filler, Brush Work	0.60	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0014	SF		Paint Exterior Concrete Walls, 1 Coat Paint, Brush Work	0.65	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.43	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 13 00-0015	SF		Paint Exterior Concrete Walls, 2 Coats Paint, Brush Work	1.22	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.11	
			For Work >20', Add	0.26	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.24	
09 91 13 00-0016	SF		Paint Exterior Concrete Walls, 1 Coat Filler, Brush/Roller Work	0.48	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'		
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.07	
			For >20,000, Deduct	-0.10	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

2

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0017	SF	Paint Exterior Concrete Walls, 1 Coat Paint, Brush/Roller Work.....	0.55	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.05	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91	13 00-0018	SF	Paint Exterior Concrete Walls, 2 Coats Paint, Brush/Roller Work.....	0.92	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.10	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
09 91	13 00-0019	SF	Paint Exterior Concrete Walls, 1 Coat Filler, Sprayed.....	0.41	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.07	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.23	
			For >100 To 250, Add	0.11	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 20,000, Deduct	-0.06	
			For >20,000, Deduct	-0.08	
09 91	13 00-0020	SF	Paint Exterior Concrete Walls, 1 Coat Paint, Sprayed.....	0.38	
			For Oil Based Paint, Add	0.02	
			For Epoxy Paint, Add	0.05	
			For Work >20', Add	0.07	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.22	
			For >100 To 250, Add	0.11	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 20,000, Deduct	-0.06	
			For >20,000, Deduct	-0.08	
09 91	13 00-0021	SF	Paint Exterior Concrete Walls, 2 Coats Paint, Sprayed.....	0.66	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.10	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91	13 00-0022		Paint Exterior Concrete Block Walls (09 91 13 00-0001)		
09 91	13 00-0023		Paint Exterior Concrete Block Walls, Epoxy Paint (09 91 13 00-0022)		
09 91	13 00-0024	SF	Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Brush Work.....	0.83	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.17	
09 91	13 00-0025	SF	Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Brush.....	0.95	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.60	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0026	SF		Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Brush Work.....	1.67	
			For Work >20', Add	0.32	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.02	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.33	
09 91 13 00-0027	SF		Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Brush/Roller Work	0.68	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.40	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 13 00-0028	SF		Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Brush/Roller Work	0.75	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0029	SF		Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Brush/Roller Work	1.33	
			For Work >20', Add	0.24	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0030	SF		Paint Exterior Concrete Block Walls, 1 Coat Epoxy Filler, Sprayed	0.54	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.26	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0031	SF		Paint Exterior Concrete Block Walls, 1 Coat Epoxy Paint, Sprayed	0.60	
			For Work >20', Add	0.09	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.31	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0032	SF		Paint Exterior Concrete Block Walls, 2 Coats Epoxy Paint, Sprayed	1.17	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.23	
09 91 13 00-0033			Paint Exterior Concrete Block Walls, Acrylic Latex Paint (09 91 13 00-0022)		
09 91 13 00-0034	SF		Paint Exterior Concrete Block Walls, 1 Coat Filler, Brush Work.....	0.77	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.15	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0035 SF Paint Exterior Concrete Block Walls, 1 Coat Paint, Brush Work	0.90	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
09 91 13 00-0036 SF Paint Exterior Concrete Block Walls, 2 Coats Paint, Brush Work	1.66	
For Oil Based Paint, Add	0.10	
For Work >20', Add	0.33	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.04	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.33	
09 91 13 00-0037 SF Paint Exterior Concrete Block Walls, Texture Coat, Brush Work	1.00	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.20	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.64	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 13 00-0038 SF Paint Exterior Concrete Block Walls, 1 Coat Filler, Brush/Roller Work	0.61	
For Oil Based Paint, Add	0.04	
For Work >20', Add	0.12	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0039 SF Paint Exterior Concrete Block Walls, 1 Coat Paint, Brush/Roller Work	0.77	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.15	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.48	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.15	
09 91 13 00-0040 SF Paint Exterior Concrete Block Walls, 2 Coats Paint, Brush/Roller Work	1.32	
For Oil Based Paint, Add	0.08	
For Work >20', Add	0.24	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.78	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0041 SF Paint Exterior Concrete Block Walls, Texture Coat, Brush/Roller Work	0.86	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.17	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.53	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0042	SF	Paint Exterior Concrete Block Walls, 1 Coat Filler, Sprayed.....	0.58	
		<i>For Oil Based Paint, Add</i>	0.04	
		<i>For Work >20', Add</i>	0.10	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.33	
		<i>For >100 To 250, Add</i>	0.16	
		<i>For >250 To 500, Add</i>	0.07	
		<i>For >2,500 To 5,000, Deduct</i>	-0.03	
		<i>For >5,000 To 10,000, Deduct</i>	-0.06	
		<i>For >10,000 To 20,000, Deduct</i>	-0.09	
		<i>For >20,000, Deduct</i>	-0.12	
09 91 13 00-0043	SF	Paint Exterior Concrete Block Walls, 1 Coat Paint, Sprayed.....	0.60	
		<i>For Oil Based Paint, Add</i>	0.04	
		<i>For Work >20', Add</i>	0.10	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.32	
		<i>For >100 To 250, Add</i>	0.16	
		<i>For >250 To 500, Add</i>	0.07	
		<i>For >2,500 To 5,000, Deduct</i>	-0.03	
		<i>For >5,000 To 10,000, Deduct</i>	-0.06	
		<i>For >10,000 To 20,000, Deduct</i>	-0.09	
		<i>For >20,000, Deduct</i>	-0.12	
09 91 13 00-0044	SF	Paint Exterior Concrete Block Walls, 2 Coats Paint, Sprayed.....	0.94	
		<i>For Oil Based Paint, Add</i>	0.06	
		<i>For Work >20', Add</i>	0.17	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.55	
		<i>For >100 To 250, Add</i>	0.26	
		<i>For >250 To 500, Add</i>	0.12	
		<i>For >2,500 To 5,000, Deduct</i>	-0.05	
		<i>For >5,000 To 10,000, Deduct</i>	-0.09	
		<i>For >10,000 To 20,000, Deduct</i>	-0.14	
		<i>For >20,000, Deduct</i>	-0.19	
09 91 13 00-0045	SF	Paint Exterior Concrete Block Walls, Texture Coat, Sprayed.....	0.78	
		<i>For Oil Based Paint, Add</i>	0.05	
		<i>For Work >20', Add</i>	0.13	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.43	
		<i>For >100 To 250, Add</i>	0.21	
		<i>For >250 To 500, Add</i>	0.09	
		<i>For >2,500 To 5,000, Deduct</i>	-0.04	
		<i>For >5,000 To 10,000, Deduct</i>	-0.08	
		<i>For >10,000 To 20,000, Deduct</i>	-0.12	
		<i>For >20,000, Deduct</i>	-0.16	
09 91 13 00-0046		Paint Exterior Drywall/Plaster Walls <small>(09 91 13 00-0001)</small>		
09 91 13 00-0047	SF	Paint Exterior Drywall/Plaster Walls, 1 Coat Primer, Brush Work.....	0.62	
		<i>For Oil Based Paint, Add</i>	0.04	
		<i>For Orange Peel Finish, Add</i>	0.09	
		<i>For Work >20', Add</i>	0.13	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.40	
		<i>For >100 To 250, Add</i>	0.19	
		<i>For >250 To 500, Add</i>	0.08	
		<i>For >2,500 To 5,000, Deduct</i>	-0.03	
		<i>For >5,000 To 10,000, Deduct</i>	-0.06	
		<i>For >10,000 To 20,000, Deduct</i>	-0.09	
		<i>For >20,000, Deduct</i>	-0.12	
		<i>For Epoxy Paint, Add</i>	0.06	
09 91 13 00-0048	SF	Paint Exterior Drywall/Plaster Walls, 1 Coat Paint, Brush Work.....	0.68	
		<i>For Oil Based Paint, Add</i>	0.04	
		<i>For Orange Peel Finish, Add</i>	0.10	
		<i>For Work >20', Add</i>	0.15	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.46	
		<i>For >100 To 250, Add</i>	0.22	
		<i>For >250 To 500, Add</i>	0.09	
		<i>For >2,500 To 5,000, Deduct</i>	-0.03	
		<i>For >5,000 To 10,000, Deduct</i>	-0.07	
		<i>For >10,000 To 20,000, Deduct</i>	-0.10	
		<i>For >20,000, Deduct</i>	-0.14	
		<i>For Epoxy Paint, Add</i>	0.06	
09 91 13 00-0049	SF	Paint Exterior Drywall/Plaster Walls, 2 Coats Paint, Brush Work.....	1.22	
		<i>For Oil Based Paint, Add</i>	0.07	
		<i>For Orange Peel Finish, Add</i>	0.17	
		<i>For Work >20', Add</i>	0.26	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.81	
		<i>For >100 To 250, Add</i>	0.38	
		<i>For >250 To 500, Add</i>	0.17	
		<i>For >2,500 To 5,000, Deduct</i>	-0.06	
		<i>For >5,000 To 10,000, Deduct</i>	-0.12	
		<i>For >10,000 To 20,000, Deduct</i>	-0.18	
		<i>For >20,000, Deduct</i>	-0.24	
		<i>For Epoxy Paint, Add</i>	0.11	



Finishes	09	
Painting And Coating	09 90	9
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0050 SF Paint Exterior Drywall/Plaster Walls, 1 Coat Primer, Brush/Roller Work.....	0.48	
For Oil Based Paint, Add	0.03	
For Orange Peel Finish, Add	0.06	
For Work >20', Add	0.09	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.29	
For >100 To 250, Add	0.14	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.10	
For Epoxy Paint, Add	0.06	
09 91 13 00-0051 SF Paint Exterior Drywall/Plaster Walls, 1 Coat Paint, Brush/Roller Work.....	0.49	
For Oil Based Paint, Add	0.03	
For Orange Peel Finish, Add	0.07	
For Work >20', Add	0.10	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.31	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.10	
For Epoxy Paint, Add	0.05	
09 91 13 00-0052 SF Paint Exterior Drywall/Plaster Walls, 2 Coats Paint, Brush/Roller Work.....	0.90	
For Oil Based Paint, Add	0.05	
For Orange Peel Finish, Add	0.12	
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.18	
For Epoxy Paint, Add	0.10	
09 91 13 00-0053 SF Paint Exterior Drywall/Plaster Walls, 1 Coat Primer, Sprayed.....	0.41	
For Oil Based Paint, Add	0.03	
For Work >20', Add	0.07	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.23	
For >100 To 250, Add	0.11	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.06	
For >20,000, Deduct	-0.08	
For Epoxy Paint, Add	0.06	
09 91 13 00-0054 SF Paint Exterior Drywall/Plaster Walls, 1 Coat Paint, Sprayed.....	0.45	
For Oil Based Paint, Add	0.03	
For Work >20', Add	0.09	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.27	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
For Epoxy Paint, Add	0.06	
09 91 13 00-0055 SF Paint Exterior Drywall/Plaster Walls, 2 Coats Paint, Sprayed.....	0.73	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.13	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
For Epoxy Paint, Add	0.10	
09 91 13 00-0056 Paint Exterior Metal Walls (09 91 13 00-0001)		
09 91 13 00-0057 Paint Exterior Galvanized Walls (09 91 13 00-0056)		
Note: Linseed oil or acrylic latex paint.		

09	Finishes
09 90	Painting And Coating
09 91	Painting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 91 13 00-0058	SF	Paint Exterior Galvanized Wall Surfaces, 1 Coat Primer, Brush Work	0.77	
		<i>For Work >20', Add</i>	0.14	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.46	
		<i>For >100 To 250, Add</i>	0.22	
		<i>For >250 To 500, Add</i>	0.10	
		<i>For >2,500 To 5,000, Deduct</i>	-0.04	
		<i>For >5,000 To 10,000, Deduct</i>	-0.08	
		<i>For >10,000 To 20,000, Deduct</i>	-0.12	
		<i>For >20,000, Deduct</i>	-0.15	
09 91 13 00-0059	SF	Paint Exterior Galvanized Wall Surfaces, 1 Coat Paint, Brush Work	0.85	
		<i>For Work >20', Add</i>	0.16	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.52	
		<i>For >100 To 250, Add</i>	0.25	
		<i>For >250 To 500, Add</i>	0.11	
		<i>For >2,500 To 5,000, Deduct</i>	-0.04	
		<i>For >5,000 To 10,000, Deduct</i>	-0.09	
		<i>For >10,000 To 20,000, Deduct</i>	-0.13	
		<i>For >20,000, Deduct</i>	-0.17	
09 91 13 00-0060	SF	Paint Exterior Galvanized Wall Surfaces, 2 Coats Paint, Brush Work	1.57	
		<i>For Work >20', Add</i>	0.29	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.93	
		<i>For >100 To 250, Add</i>	0.44	
		<i>For >250 To 500, Add</i>	0.19	
		<i>For >2,500 To 5,000, Deduct</i>	-0.08	
		<i>For >5,000 To 10,000, Deduct</i>	-0.16	
		<i>For >10,000 To 20,000, Deduct</i>	-0.24	
		<i>For >20,000, Deduct</i>	-0.31	
09 91 13 00-0061	SF	Paint Exterior Galvanized Walls, 1 Coat Primer, Brush/Roller Work	0.58	
		<i>For Work >20', Add</i>	0.10	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.33	
		<i>For >100 To 250, Add</i>	0.16	
		<i>For >250 To 500, Add</i>	0.07	
		<i>For >2,500 To 5,000, Deduct</i>	-0.03	
		<i>For >5,000 To 10,000, Deduct</i>	-0.06	
		<i>For >10,000 To 20,000, Deduct</i>	-0.09	
		<i>For >20,000, Deduct</i>	-0.12	
09 91 13 00-0062	SF	Paint Exterior Galvanized Walls, 1 Coat Paint, Brush/Roller Work	0.67	
		<i>For Work >20', Add</i>	0.12	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.39	
		<i>For >100 To 250, Add</i>	0.19	
		<i>For >250 To 500, Add</i>	0.08	
		<i>For >2,500 To 5,000, Deduct</i>	-0.03	
		<i>For >5,000 To 10,000, Deduct</i>	-0.07	
		<i>For >10,000 To 20,000, Deduct</i>	-0.10	
		<i>For >20,000, Deduct</i>	-0.13	
09 91 13 00-0063	SF	Paint Exterior Galvanized Walls, 2 Coats Paint, Brush/Roller Work	1.26	
		<i>For Work >20', Add</i>	0.23	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.73	
		<i>For >100 To 250, Add</i>	0.35	
		<i>For >250 To 500, Add</i>	0.15	
		<i>For >2,500 To 5,000, Deduct</i>	-0.06	
		<i>For >5,000 To 10,000, Deduct</i>	-0.13	
		<i>For >10,000 To 20,000, Deduct</i>	-0.19	
		<i>For >20,000, Deduct</i>	-0.25	
09 91 13 00-0064	SF	Paint Exterior Galvanized Walls, 1 Coat Primer, Sprayed	0.49	
		<i>For Work >20', Add</i>	0.06	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.22	
		<i>For >100 To 250, Add</i>	0.11	
		<i>For >250 To 500, Add</i>	0.05	
		<i>For >2,500 To 5,000, Deduct</i>	-0.02	
		<i>For >5,000 To 10,000, Deduct</i>	-0.05	
		<i>For >10,000 To 20,000, Deduct</i>	-0.07	
		<i>For >20,000, Deduct</i>	-0.10	
09 91 13 00-0065	SF	Paint Exterior Galvanized Walls, 1 Coat Paint, Sprayed	0.65	
		<i>For Work >20', Add</i>	0.10	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.34	
		<i>For >100 To 250, Add</i>	0.17	
		<i>For >250 To 500, Add</i>	0.07	
		<i>For >2,500 To 5,000, Deduct</i>	-0.03	
		<i>For >5,000 To 10,000, Deduct</i>	-0.07	
		<i>For >10,000 To 20,000, Deduct</i>	-0.10	
		<i>For >20,000, Deduct</i>	-0.13	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 91	13 00-0066	SF	Paint Exterior Galvanized Walls, 2 Coats Paint, Sprayed	1.08	
				<i>For Work >20', Add</i>	0.15	
				<i>Note: Applied only to work area above 20'.</i>		
				<i>For Up To 100, Add</i>	0.53	
				<i>For >100 To 250, Add</i>	0.26	
				<i>For >250 To 500, Add</i>	0.12	
				<i>For >2,500 To 5,000, Deduct</i>	-0.05	
				<i>For >5,000 To 10,000, Deduct</i>	-0.11	
				<i>For >10,000 To 20,000, Deduct</i>	-0.16	
				<i>For >20,000, Deduct</i>	-0.22	
	09 91	13 00-0067		Paint Exterior Aluminum And Aluminum Alloy Walls (09 91 13 00-0056)		
				<i>Note: Alkyd enamel paint.</i>		
	09 91	13 00-0068	SF	Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 1 Coat Primer, Brush Work	0.77	
				<i>For Work >20', Add</i>	0.14	
				<i>Note: Applied only to work area above 20'.</i>		
				<i>For Up To 100, Add</i>	0.46	
				<i>For >100 To 250, Add</i>	0.22	
				<i>For >250 To 500, Add</i>	0.10	
				<i>For >2,500 To 5,000, Deduct</i>	-0.04	
				<i>For >5,000 To 10,000, Deduct</i>	-0.08	
				<i>For >10,000 To 20,000, Deduct</i>	-0.12	
				<i>For >20,000, Deduct</i>	-0.15	
	09 91	13 00-0069	SF	Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 1 Coat Paint, Brush Work	0.85	
				<i>For Work >20', Add</i>	0.16	
				<i>Note: Applied only to work area above 20'.</i>		
				<i>For Up To 100, Add</i>	0.52	
				<i>For >100 To 250, Add</i>	0.25	
				<i>For >250 To 500, Add</i>	0.11	
				<i>For >2,500 To 5,000, Deduct</i>	-0.04	
				<i>For >5,000 To 10,000, Deduct</i>	-0.09	
				<i>For >10,000 To 20,000, Deduct</i>	-0.13	
				<i>For >20,000, Deduct</i>	-0.17	
	09 91	13 00-0070	SF	Paint Exterior Aluminum And Aluminum Alloy Wall Surfaces, 2 Coats Paint, Brush Work	1.56	
				<i>For Work >20', Add</i>	0.29	
				<i>Note: Applied only to work area above 20'.</i>		
				<i>For Up To 100, Add</i>	0.92	
				<i>For >100 To 250, Add</i>	0.44	
				<i>For >250 To 500, Add</i>	0.19	
				<i>For >2,500 To 5,000, Deduct</i>	-0.08	
				<i>For >5,000 To 10,000, Deduct</i>	-0.16	
				<i>For >10,000 To 20,000, Deduct</i>	-0.23	
				<i>For >20,000, Deduct</i>	-0.31	
	09 91	13 00-0071	SF	Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Primer, Brush/Roller Work	0.65	
				<i>For Work >20', Add</i>	0.10	
				<i>Note: Applied only to work area above 20'.</i>		
				<i>For Up To 100, Add</i>	0.34	
				<i>For >100 To 250, Add</i>	0.17	
				<i>For >250 To 500, Add</i>	0.07	
				<i>For >2,500 To 5,000, Deduct</i>	-0.03	
				<i>For >5,000 To 10,000, Deduct</i>	-0.07	
				<i>For >10,000 To 20,000, Deduct</i>	-0.10	
				<i>For >20,000, Deduct</i>	-0.13	
	09 91	13 00-0072	SF	Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Paint, Brush/Roller Work	0.73	
				<i>For Work >20', Add</i>	0.12	
				<i>Note: Applied only to work area above 20'.</i>		
				<i>For Up To 100, Add</i>	0.40	
				<i>For >100 To 250, Add</i>	0.20	
				<i>For >250 To 500, Add</i>	0.09	
				<i>For >2,500 To 5,000, Deduct</i>	-0.04	
				<i>For >5,000 To 10,000, Deduct</i>	-0.07	
				<i>For >10,000 To 20,000, Deduct</i>	-0.11	
				<i>For >20,000, Deduct</i>	-0.15	
	09 91	13 00-0073	SF	Paint Exterior Aluminum And Aluminum Alloy Walls, 2 Coats Paint, Brush/Roller Work	1.37	
				<i>For Work >20', Add</i>	0.23	
				<i>Note: Applied only to work area above 20'.</i>		
				<i>For Up To 100, Add</i>	0.75	
				<i>For >100 To 250, Add</i>	0.36	
				<i>For >250 To 500, Add</i>	0.16	
				<i>For >2,500 To 5,000, Deduct</i>	-0.07	
				<i>For >5,000 To 10,000, Deduct</i>	-0.14	
				<i>For >10,000 To 20,000, Deduct</i>	-0.21	
				<i>For >20,000, Deduct</i>	-0.27	
	09 91	13 00-0074	SF	Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Primer, Sprayed	0.54	
				<i>For Work >20', Add</i>	0.08	
				<i>Note: Applied only to work area above 20'.</i>		
				<i>For Up To 100, Add</i>	0.26	
				<i>For >100 To 250, Add</i>	0.13	
				<i>For >250 To 500, Add</i>	0.06	
				<i>For >2,500 To 5,000, Deduct</i>	-0.03	
				<i>For >5,000 To 10,000, Deduct</i>	-0.05	
				<i>For >10,000 To 20,000, Deduct</i>	-0.08	
				<i>For >20,000, Deduct</i>	-0.11	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0075	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 1 Coat Paint, Sprayed.....	0.65	
			<i>For Work >20', Add</i>	0.10	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.34	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.13	
09 91 13 00-0076	SF		Paint Exterior Aluminum And Aluminum Alloy Walls, 2 Coats Paint, Sprayed.....	1.08	
			<i>For Work >20', Add</i>	0.15	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.53	
			<i>For >100 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0077			Paint Exterior Aluminum And Aluminum Alloy Roof Stacks (09 91 13 00-0056)		
09 91 13 00-0078	LF		Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 1 Coat Primer, Per LF Of Stack.....	10.25	
			<i>For Work >20', Add</i>	2.27	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	6.97	
			<i>For >100 To 250, Add</i>	3.29	
			<i>For >250 To 500, Add</i>	1.42	
			<i>For >2,500 To 5,000, Deduct</i>	-0.51	
			<i>For >5,000 To 10,000, Deduct</i>	-1.03	
			<i>For >10,000 To 20,000, Deduct</i>	-1.54	
			<i>For >20,000, Deduct</i>	-2.05	
09 91 13 00-0079	LF		Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 1 Coat Paint, Per LF Of Stack.....	11.39	
			<i>For Work >20', Add</i>	2.52	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	7.74	
			<i>For >100 To 250, Add</i>	3.65	
			<i>For >250 To 500, Add</i>	1.58	
			<i>For >2,500 To 5,000, Deduct</i>	-0.57	
			<i>For >5,000 To 10,000, Deduct</i>	-1.14	
			<i>For >10,000 To 20,000, Deduct</i>	-1.71	
			<i>For >20,000, Deduct</i>	-2.28	
09 91 13 00-0080	LF		Paint Exterior Aluminum And Aluminum Alloy Roof Stack With Heat Resistant Paint, 2 Coats Paint, Per LF Of Stack.....	21.29	
			<i>For Work >20', Add</i>	4.73	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	14.55	
			<i>For >100 To 250, Add</i>	6.86	
			<i>For >250 To 500, Add</i>	2.96	
			<i>For >2,500 To 5,000, Deduct</i>	-1.06	
			<i>For >5,000 To 10,000, Deduct</i>	-2.13	
			<i>For >10,000 To 20,000, Deduct</i>	-3.19	
			<i>For >20,000, Deduct</i>	-4.26	
09 91 13 00-0081			Paint Exterior Corrugated Metal Walls (09 91 13 00-0056)		
09 91 13 00-0082	SF		Paint Exterior Corrugated Metal Walls, 1 Coat Primer, Sprayed.....	0.61	
			<i>For Work >20', Add</i>	0.09	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.30	
			<i>For >100 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.06	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
09 91 13 00-0083	SF		Paint Exterior Corrugated Metal Walls, 1 Coat Paint, Sprayed.....	0.81	
			<i>For Work >20', Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.45	
			<i>For >100 To 250, Add</i>	0.22	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0084	SF		Paint Exterior Corrugated Metal Walls, 2 Coats Paint, Sprayed	1.35	
			For Work >20', Add	0.20	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.68	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 13 00-0085			Paint Exterior Stucco Walls (09 91 13 00-0001)		
09 91 13 00-0086	SF		Paint Exterior Stucco Wall Surfaces 1 Coat Primer, Brush Work.....	1.03	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.23	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.21	
09 91 13 00-0087	SF		Paint Exterior Stucco Wall Surfaces 1 Coat Paint, Brush Work.....	1.13	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.25	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.76	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 13 00-0088	SF		Paint Exterior Stucco Wall Surfaces, 2 Coats Paint, Brush Work.....	2.09	
			For Oil Based Paint, Add	0.12	
			For Work >20', Add	0.45	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.39	
			For >100 To 250, Add	0.66	
			For >250 To 500, Add	0.28	
			For >2,500 To 5,000, Deduct	-0.10	
			For >5,000 To 10,000, Deduct	-0.21	
			For >10,000 To 20,000, Deduct	-0.31	
			For >20,000, Deduct	-0.42	
09 91 13 00-0089	SF		Paint Exterior Stucco Walls, 1 Coat Primer, Brush/Roller Work.....	0.78	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0090	SF		Paint Exterior Stucco Walls, 1 Coat Paint, Brush/Roller Work.....	0.88	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.18	
09 91 13 00-0091	SF		Paint Exterior Stucco Walls, 2 Coats Paint, Brush/Roller Work.....	1.61	
			For Oil Based Paint, Add	0.10	
			For Work >20', Add	0.33	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.03	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.32	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0092	SF		Paint Exterior Stucco Walls, 1 Coat Primer, Sprayed.....	0.58	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 13 00-0093	SF		Paint Exterior Stucco Walls, 1 Coat Paint, Sprayed.....	0.70	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.13	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 13 00-0094	SF		Paint Exterior Stucco Walls, 2 Coats Paint, Sprayed.....	1.37	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.26	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.82	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.27	
09 91 13 00-0095			Paint Exterior Wood Siding (09 91 13 00-0001)		
09 91 13 00-0096			Paint Exterior Smooth Wood Siding (09 91 13 00-0095)		
			Note: Includes tongue and groove, beveled, drop or board and batten siding.		
09 91 13 00-0097	SF		Paint Exterior Wood Smooth Siding, 1 Coat Primer, Brush Work.....	0.75	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 13 00-0098	SF		Paint Exterior Wood Smooth Siding, 1 Coat Paint, Brush Work.....	0.79	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 13 00-0099	SF		Paint Exterior Wood Smooth Siding, 2 Coats Paint, Brush Work.....	1.40	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.29	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.89	
			For >100 To 250, Add	0.43	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.21	
			For >20,000, Deduct	-0.28	
09 91 13 00-0100	SF		Paint Exterior Smooth Wood Siding, 1 Coat Primer, Brush/Roller Work.....	0.59	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.11	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.34	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	



Finishes	09	
Painting And Coating	09 90	2
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0101 SF Paint Exterior Smooth Wood Siding, 1 Coat Paint, Brush/Roller Work	0.64	
For Oil Based Paint, Add	0.04	
For Work >20', Add	0.12	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0102 SF Paint Exterior Smooth Wood Siding, 2 Coats Paint, Brush/Roller Work.....	1.20	
For Oil Based Paint, Add	0.08	
For Work >20', Add	0.23	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.72	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0103 SF Paint Exterior Smooth Wood Siding, 1 Coat Primer, Sprayed.....	0.47	
For Oil Based Paint, Add	0.03	
For Work >20', Add	0.08	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.25	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
09 91 13 00-0104 SF Paint Exterior Smooth Wood Siding, 1 Coat Paint, Sprayed	0.58	
For Oil Based Paint, Add	0.04	
For Work >20', Add	0.10	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0105 SF Paint Exterior Smooth Wood Siding, 2 Coats Paint, Sprayed	0.93	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.15	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.51	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0106 Paint Exterior Rough Wood Siding (09 91 13 00-0095)		
Note: Includes shingles, shakes or rough sawn siding.		
09 91 13 00-0107 SF Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 1 Coat Primer, Brush Work.....	1.15	
For Oil Based Paint, Add	0.07	
For Work >20', Add	0.25	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.76	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
09 91 13 00-0108 SF Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 1 Coat Paint, Brush Work.....	1.16	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.26	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.79	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
09 91 13 00-0109	SF	Paint Exterior Wood Rough (Shingles, Shakes Or Rough Sawn) Siding, 2 Coats Paint, Brush Work	2.14	
		<i>For Oil Based Paint, Add</i>	0.12	
		<i>For Work >20', Add</i>	0.47	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	1.45	
		<i>For >100 To 250, Add</i>	0.68	
		<i>For >250 To 500, Add</i>	0.30	
		<i>For >2,500 To 5,000, Deduct</i>	-0.11	
		<i>For >5,000 To 10,000, Deduct</i>	-0.21	
		<i>For >10,000 To 20,000, Deduct</i>	-0.32	
		<i>For >20,000, Deduct</i>	-0.43	
09 91 13 00-0110	SF	Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Primer, Brush/Roller Work	1.01	
		<i>For Oil Based Paint, Add</i>	0.06	
		<i>For Work >20', Add</i>	0.18	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.59	
		<i>For >100 To 250, Add</i>	0.28	
		<i>For >250 To 500, Add</i>	0.12	
		<i>For >2,500 To 5,000, Deduct</i>	-0.05	
		<i>For >5,000 To 10,000, Deduct</i>	-0.10	
		<i>For >10,000 To 20,000, Deduct</i>	-0.15	
		<i>For >20,000, Deduct</i>	-0.20	
09 91 13 00-0111	SF	Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Paint, Brush/Roller Work.....	1.09	
		<i>For Oil Based Paint, Add</i>	0.07	
		<i>For Work >20', Add</i>	0.20	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.65	
		<i>For >100 To 250, Add</i>	0.31	
		<i>For >250 To 500, Add</i>	0.14	
		<i>For >2,500 To 5,000, Deduct</i>	-0.05	
		<i>For >5,000 To 10,000, Deduct</i>	-0.11	
		<i>For >10,000 To 20,000, Deduct</i>	-0.16	
		<i>For >20,000, Deduct</i>	-0.22	
09 91 13 00-0112	SF	Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 2 Coats Paint, Brush/Roller Work	2.03	
		<i>For Oil Based Paint, Add</i>	0.13	
		<i>For Work >20', Add</i>	0.37	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	1.19	
		<i>For >100 To 250, Add</i>	0.57	
		<i>For >250 To 500, Add</i>	0.25	
		<i>For >2,500 To 5,000, Deduct</i>	-0.10	
		<i>For >5,000 To 10,000, Deduct</i>	-0.20	
		<i>For >10,000 To 20,000, Deduct</i>	-0.30	
		<i>For >20,000, Deduct</i>	-0.41	
09 91 13 00-0113	SF	Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Primer, Sprayed	0.75	
		<i>For Oil Based Paint, Add</i>	0.05	
		<i>For Work >20', Add</i>	0.13	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.42	
		<i>For >100 To 250, Add</i>	0.20	
		<i>For >250 To 500, Add</i>	0.09	
		<i>For >2,500 To 5,000, Deduct</i>	-0.04	
		<i>For >5,000 To 10,000, Deduct</i>	-0.08	
		<i>For >10,000 To 20,000, Deduct</i>	-0.11	
		<i>For >20,000, Deduct</i>	-0.15	
09 91 13 00-0114	SF	Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 1 Coat Paint, Sprayed	0.85	
		<i>For Oil Based Paint, Add</i>	0.05	
		<i>For Work >20', Add</i>	0.15	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.49	
		<i>For >100 To 250, Add</i>	0.24	
		<i>For >250 To 500, Add</i>	0.10	
		<i>For >2,500 To 5,000, Deduct</i>	-0.04	
		<i>For >5,000 To 10,000, Deduct</i>	-0.09	
		<i>For >10,000 To 20,000, Deduct</i>	-0.13	
		<i>For >20,000, Deduct</i>	-0.17	
09 91 13 00-0115	SF	Paint Exterior Rough Wood Siding (Shingles, Shakes Or Rough Sawn), 2 Coats Paint, Sprayed.....	1.58	
		<i>For Oil Based Paint, Add</i>	0.10	
		<i>For Work >20', Add</i>	0.28	
		<i>Note: Applied only to work area above 20'.</i>		
		<i>For Up To 100, Add</i>	0.90	
		<i>For >100 To 250, Add</i>	0.44	
		<i>For >250 To 500, Add</i>	0.19	
		<i>For >2,500 To 5,000, Deduct</i>	-0.08	
		<i>For >5,000 To 10,000, Deduct</i>	-0.16	
		<i>For >10,000 To 20,000, Deduct</i>	-0.24	
		<i>For >20,000, Deduct</i>	-0.32	
09 91 13 00-0116		Paint Exterior Vinyl Siding (09 91 13 00-0001)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0117	SF	Paint Exterior Vinyl Siding, 1 Coat Primer, Brush Work	0.64	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >20', Add</i>	0.12	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.39	
			<i>For >100 To 250, Add</i>	0.19	
			<i>For >250 To 500, Add</i>	0.08	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.13	
09 91	13 00-0118	SF	Paint Exterior Vinyl Siding, 1 Coat Paint, Brush Work	0.71	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >20', Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.44	
			<i>For >100 To 250, Add</i>	0.21	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.14	
09 91	13 00-0119	SF	Paint Exterior Vinyl Siding, 2 Coats Paint, Brush Work	1.30	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Work >20', Add</i>	0.25	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.78	
			<i>For >100 To 250, Add</i>	0.38	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.20	
			<i>For >20,000, Deduct</i>	-0.26	
09 91	13 00-0120	SF	Paint Exterior Vinyl Siding, 1 Coat Primer, Brush/Roller Work	0.58	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >20', Add</i>	0.10	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.33	
			<i>For >100 To 250, Add</i>	0.16	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
09 91	13 00-0121	SF	Paint Exterior Vinyl Siding, 1 Coat Paint, Brush/Roller Work	0.58	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >20', Add</i>	0.10	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.33	
			<i>For >100 To 250, Add</i>	0.16	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
09 91	13 00-0122	SF	Paint Exterior Vinyl Siding, 2 Coats Paint, Brush/Roller Work	1.08	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Work >20', Add</i>	0.18	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.60	
			<i>For >100 To 250, Add</i>	0.29	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.22	
09 91	13 00-0123	SF	Paint Exterior Vinyl Siding, 1 Coat Primer, Sprayed	0.52	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Work >20', Add</i>	0.08	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.26	
			<i>For >100 To 250, Add</i>	0.13	
			<i>For >250 To 500, Add</i>	0.06	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.05	
			<i>For >10,000 To 20,000, Deduct</i>	-0.08	
			<i>For >20,000, Deduct</i>	-0.10	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0124	SF	Paint Exterior Vinyl Siding, 1 Coat Paint, Sprayed.....	0.58	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.27	
			For >100 To 250, Add	0.13	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91	13 00-0125	SF	Paint Exterior Vinyl Siding, 2 Coats Paint, Sprayed.....	1.15	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91	13 00-0126		Paint Exterior Ceilings (09 91 13)		
09 91	13 00-0127		Paint Exterior Concrete Ceilings (09 91 13 00-0126)		
09 91	13 00-0128	SF	Paint Exterior Concrete Ceiling, 1 Coat Filler, Brush Work.....	0.68	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.07	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91	13 00-0129	SF	Paint Exterior Concrete Ceiling, 1 Coat Paint, Brush Work.....	0.74	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.16	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91	13 00-0130	SF	Paint Exterior Concrete Ceiling, 2 Coats Paint, Brush Work.....	1.32	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.12	
			For Work >20', Add	0.29	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.89	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.26	
09 91	13 00-0131	SF	Paint Exterior Concrete Ceiling, 1 Coat Filler, Brush/Roller Work.....	0.52	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.10	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.32	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.10	
09 91	13 00-0132	SF	Paint Exterior Concrete Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.58	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0133	SF	Paint Exterior Concrete Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.07	
			For Oil Based Paint, Add	0.06	
			For Epoxy Paint, Add	0.10	
			For Work >20', Add	0.23	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91	13 00-0134	SF	Paint Exterior Concrete Ceiling, 1 Coat Filler, Sprayed.....	0.43	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.24	
			For >100 To 250, Add	0.12	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 20,000, Deduct	-0.06	
			For >20,000, Deduct	-0.09	
09 91	13 00-0135	SF	Paint Exterior Concrete Ceiling, 1 Coat Paint, Sprayed.....	0.52	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.10	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.32	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.10	
09 91	13 00-0136	SF	Paint Exterior Concrete Ceiling, 2 Coats Paint, Sprayed.....	0.83	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.11	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.17	
09 91	13 00-0137		Drywall/Plaster (09 91 13 00-0126).....	0.69	
09 91	13 00-0138	SF	Paint Exterior Drywall/Plaster Ceiling, 1 Coat Primer, Brush Work.....	0.69	
			For Oil Based Paint, Add	0.04	
			For Orange Peel Finish, Add	0.10	
			For Epoxy Paint, Add	0.07	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
			For Epoxy Paint, Add	0.07	
09 91	13 00-0139	SF	Paint Exterior Drywall/Plaster Ceiling, 1 Coat Paint, Brush Work.....	0.75	
			For Oil Based Paint, Add	0.04	
			For Orange Peel Finish, Add	0.11	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
			For Epoxy Paint, Add	0.06	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0140	SF	Paint Exterior Drywall/Plaster Ceiling, 2 Coats Paint, Brush Work.....	1.32	
			For Oil Based Paint, Add	0.07	
			For Orange Peel Finish, Add	0.19	
			For Epoxy Paint, Add	0.12	
			For Work >20', Add	0.29	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.89	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.26	
			For Epoxy Paint, Add	0.12	
09 91	13 00-0141	SF	Paint Exterior Drywall/Plaster Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.51	
			For Oil Based Paint, Add	0.03	
			For Orange Peel Finish, Add	0.07	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.10	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.32	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.10	
			For Epoxy Paint, Add	0.06	
09 91	13 00-0142	SF	Paint Exterior Drywall/Plaster Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.58	
			For Oil Based Paint, Add	0.03	
			For Orange Peel Finish, Add	0.08	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
			For Epoxy Paint, Add	0.06	
09 91	13 00-0143	SF	Paint Exterior Drywall/Plaster Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.06	
			For Oil Based Paint, Add	0.06	
			For Orange Peel Finish, Add	0.15	
			For Epoxy Paint, Add	0.10	
			For Work >20', Add	0.22	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.69	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
			For Epoxy Paint, Add	0.10	
09 91	13 00-0144	SF	Paint Exterior Drywall/Plaster Ceiling, 1 Coat Primer, Sprayed.....	0.43	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.08	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.24	
			For >100 To 250, Add	0.12	
			For >250 To 500, Add	0.05	
			For >2,500 To 5,000, Deduct	-0.02	
			For >5,000 To 10,000, Deduct	-0.04	
			For >10,000 To 20,000, Deduct	-0.06	
			For >20,000, Deduct	-0.09	
			For Epoxy Paint, Add	0.06	
09 91	13 00-0145	SF	Paint Exterior Drywall/Plaster Ceiling, 1 Coat Paint, Sprayed.....	0.52	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Work >20', Add	0.10	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.32	
			For >100 To 250, Add	0.15	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.10	
			For Epoxy Paint, Add	0.06	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0146	SF	Paint Exterior Drywall/Plaster Ceiling, 2 Coats Paint, Sprayed.....	0.83	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.11	
			For Work >20', Add	0.15	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.17	
			For Epoxy Paint, Add	0.11	
09 91	13 00-0147		Paint Exterior Wood Ceilings (09 91 13 00-0126)		
09 91	13 00-0148		Paint Exterior Smooth Wood Ceilings (09 91 13 00-0147)		
09 91	13 00-0149	SF	Paint Exterior Wood Smooth Ceiling, 1 Coat Primer, Brush Work.....	0.83	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.17	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.53	
			For >100 To 250, Add	0.25	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.17	
09 91	13 00-0150	SF	Paint Exterior Wood Smooth Ceiling, 1 Coat Paint, Brush Work.....	0.87	
			For Oil Based Paint, Add	0.05	
			For Work >20', Add	0.19	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91	13 00-0151	SF	Paint Exterior Wood Smooth Ceiling, 2 Coats Paint, Brush Work.....	1.57	
			For Oil Based Paint, Add	0.09	
			For Work >20', Add	0.33	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.02	
			For >100 To 250, Add	0.48	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91	13 00-0152	SF	Paint Exterior Smooth Wood Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.66	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.12	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91	13 00-0153	SF	Paint Exterior Smooth Wood Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.72	
			For Oil Based Paint, Add	0.04	
			For Work >20', Add	0.14	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91	13 00-0154	SF	Paint Exterior Smooth Wood Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.28	
			For Oil Based Paint, Add	0.08	
			For Work >20', Add	0.25	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.78	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0155	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Primer, Sprayed.....	0.54	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.10	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.33	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0156	SF		Paint Exterior Smooth Wood Ceiling, 1 Coat Paint, Sprayed.....	0.54	
			For Oil Based Paint, Add	0.03	
			For Work >20', Add	0.10	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.33	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.05	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 13 00-0157	SF		Paint Exterior Smooth Wood Ceiling, 2 Coats Paint, Sprayed.....	0.97	
			For Oil Based Paint, Add	0.06	
			For Work >20', Add	0.18	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.27	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.19	
09 91 13 00-0158			Paint Exterior Rough Wood Ceilings (09 91 13 00-0147)		
09 91 13 00-0159	SF		Paint Exterior Wood Rough Ceiling, 1 Coat Primer, Brush Work.....	1.24	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.26	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.38	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.25	
09 91 13 00-0160	SF		Paint Exterior Wood Rough Ceiling, 1 Coat Paint, Brush Work.....	1.28	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.29	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.88	
			For >100 To 250, Add	0.42	
			For >250 To 500, Add	0.18	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.13	
			For >10,000 To 20,000, Deduct	-0.19	
			For >20,000, Deduct	-0.26	
09 91 13 00-0161	SF		Paint Exterior Wood Rough Ceiling, 2 Coats Paint, Brush Work.....	2.22	
			For Oil Based Paint, Add	0.12	
			For Work >20', Add	0.49	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	1.51	
			For >100 To 250, Add	0.71	
			For >250 To 500, Add	0.31	
			For >2,500 To 5,000, Deduct	-0.11	
			For >5,000 To 10,000, Deduct	-0.22	
			For >10,000 To 20,000, Deduct	-0.33	
			For >20,000, Deduct	-0.44	
09 91 13 00-0162	SF		Paint Exterior Rough Wood Ceiling, 1 Coat Primer, Brush/Roller Work.....	1.09	
			For Oil Based Paint, Add	0.07	
			For Work >20', Add	0.20	
			Note: Applied only to work area above 20'.		
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.22	



Finishes	09
Painting And Coating	09 90
Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0163 SF Paint Exterior Rough Wood Ceiling, 1 Coat Paint, Brush/Roller Work	1.17	
For Oil Based Paint, Add	0.07	
For Work >20', Add	0.22	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.23	
09 91 13 00-0164 SF Paint Exterior Rough Wood Ceiling, 2 Coats Paint, Brush/Roller Work	2.10	
For Oil Based Paint, Add	0.13	
For Work >20', Add	0.39	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.24	
For >100 To 250, Add	0.60	
For >250 To 500, Add	0.26	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.21	
For >10,000 To 20,000, Deduct	-0.32	
For >20,000, Deduct	-0.42	
09 91 13 00-0165 SF Paint Exterior Rough Wood Ceiling, 1 Coat Primer, Sprayed	0.84	
For Oil Based Paint, Add	0.05	
For Work >20', Add	0.15	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0166 SF Paint Exterior Rough Wood Ceiling, 1 Coat Paint, Sprayed	0.94	
For Oil Based Paint, Add	0.06	
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 13 00-0167 SF Paint Exterior Rough Wood Ceiling, 2 Coats Paint, Sprayed	1.69	
For Oil Based Paint, Add	0.11	
For Work >20', Add	0.31	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.99	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.34	
09 91 13 00-0168 Paint Exterior Metal Ceilings (09 91 13 00-0126)		
09 91 13 00-0169 Paint Exterior Galvanized Ceilings (09 91 13 00-0168)		
Note: Linseed oil or acrylic latex paint.		
09 91 13 00-0170 SF Paint Exterior Galvanized Ceiling, 1 Coat Primer, Brush Work	0.85	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0171 SF Paint Exterior Galvanized Ceiling, 1 Coat Paint, Brush Work	0.93	
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0172 SF Paint Exterior Galvanized Ceiling, 2 Coats Paint, Brush Work.....	1.72	
For Work >20', Add	0.33	
Note: Applied only to work area above 20'.		
For Up To 100, Add	1.04	
For >100 To 250, Add	0.50	
For >250 To 500, Add	0.22	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.34	
09 91 13 00-0173 SF Paint Exterior Galvanized Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.66	
For Work >20', Add	0.12	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0174 SF Paint Exterior Galvanized Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.74	
For Work >20', Add	0.14	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0175 SF Paint Exterior Galvanized Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.32	
For Work >20', Add	0.25	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.79	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.16	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0176 SF Paint Exterior Galvanized Ceiling, 1 Coat Primer, Sprayed.....	0.65	
For Work >20', Add	0.10	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.34	
For >100 To 250, Add	0.17	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0177 SF Paint Exterior Galvanized Ceiling, 1 Coat Paint, Sprayed.....	0.74	
For Work >20', Add	0.13	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0178 SF Paint Exterior Galvanized Ceiling, 2 Coats Paint, Sprayed.....	1.18	
For Work >20', Add	0.18	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.60	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.12	
For >10,000 To 20,000, Deduct	-0.18	
For >20,000, Deduct	-0.24	
09 91 13 00-0179 Paint Exterior Aluminum And Aluminum Alloy Ceilings (09 91 13 00-0168)		
Note: Alkyd enamel paint.		
09 91 13 00-0180 SF Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush Work.....	0.85	
For Work >20', Add	0.16	
Note: Applied only to work area above 20'.		
For Up To 100, Add	0.52	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	



Finishes	09	2
Painting And Coating	09 90	
Painting	09 91	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0181	SF	Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush Work	0.93	
			<i>For Work >20', Add</i>	0.18	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.58	
			<i>For >100 To 250, Add</i>	0.28	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.19	
09 91	13 00-0182	SF	Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush Work	1.72	
			<i>For Work >20', Add</i>	0.33	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	1.04	
			<i>For >100 To 250, Add</i>	0.50	
			<i>For >250 To 500, Add</i>	0.22	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.17	
			<i>For >10,000 To 20,000, Deduct</i>	-0.26	
			<i>For >20,000, Deduct</i>	-0.34	
09 91	13 00-0183	SF	Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush/Roller Work	0.73	
			<i>For Work >20', Add</i>	0.12	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.40	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.15	
09 91	13 00-0184	SF	Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush/Roller Work	0.81	
			<i>For Work >20', Add</i>	0.14	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.46	
			<i>For >100 To 250, Add</i>	0.22	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91	13 00-0185	SF	Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush/Roller Work	1.45	
			<i>For Work >20', Add</i>	0.25	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.81	
			<i>For >100 To 250, Add</i>	0.39	
			<i>For >250 To 500, Add</i>	0.17	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.29	
09 91	13 00-0186	SF	Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Sprayed	0.65	
			<i>For Work >20', Add</i>	0.10	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.34	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.13	
09 91	13 00-0187	SF	Paint Exterior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Sprayed	0.65	
			<i>For Work >20', Add</i>	0.10	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.34	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.13	
09 91	13 00-0188	SF	Paint Exterior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Sprayed	1.18	
			<i>For Work >20', Add</i>	0.18	
			<i>Note: Applied only to work area above 20'.</i>		
			<i>For Up To 100, Add</i>	0.60	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.12	
			<i>For >10,000 To 20,000, Deduct</i>	-0.18	
			<i>For >20,000, Deduct</i>	-0.24	

09 91 13 00-0189 Paint Exterior Corrugated Metal Ceilings (09 91 13 00-0168)



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 91 13 00-0190	SF	Paint Exterior Corrugated Metal Ceiling, 1 Coat Primer, Sprayed.....	0.70
		<i>For Work >20', Add</i>	0.11
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Up To 100, Add</i>	0.36
		<i>For >100 To 250, Add</i>	0.18
		<i>For >250 To 500, Add</i>	0.08
		<i>For >2,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000 To 10,000, Deduct</i>	-0.07
		<i>For >10,000 To 20,000, Deduct</i>	-0.11
		<i>For >20,000, Deduct</i>	-0.14
09 91 13 00-0191	SF	Paint Exterior Corrugated Metal Ceiling, 1 Coat Paint, Sprayed.....	0.81
		<i>For Work >20', Add</i>	0.14
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Up To 100, Add</i>	0.45
		<i>For >100 To 250, Add</i>	0.22
		<i>For >250 To 500, Add</i>	0.09
		<i>For >2,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000 To 10,000, Deduct</i>	-0.08
		<i>For >10,000 To 20,000, Deduct</i>	-0.12
		<i>For >20,000, Deduct</i>	-0.16
09 91 13 00-0192	SF	Paint Exterior Corrugated Metal Ceiling, 2 Coats Paint, Sprayed.....	1.48
		<i>For Work >20', Add</i>	0.23
		<i>Note: Applied only to work area above 20'.</i>	
		<i>For Up To 100, Add</i>	0.78
		<i>For >100 To 250, Add</i>	0.38
		<i>For >250 To 500, Add</i>	0.17
		<i>For >2,500 To 5,000, Deduct</i>	-0.07
		<i>For >5,000 To 10,000, Deduct</i>	-0.15
		<i>For >10,000 To 20,000, Deduct</i>	-0.22
		<i>For >20,000, Deduct</i>	-0.30
09 91 13 00-0193		Paint Exterior Floors <small>(09 91 13)</small>	
09 91 13 00-0194		Paint Exterior Concrete Floors <small>(09 91 13 00-0193)</small>	
09 91 13 00-0195	SF	Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Brush Work.....	0.52
		<i>For Oil Based Paint, Add</i>	0.03
		<i>For Epoxy Paint, Add</i>	0.06
		<i>For Up To 100, Add</i>	0.32
		<i>For >100 To 250, Add</i>	0.15
		<i>For >250 To 500, Add</i>	0.07
		<i>For >2,500 To 5,000, Deduct</i>	-0.03
		<i>For >5,000 To 10,000, Deduct</i>	-0.05
		<i>For >10,000 To 20,000, Deduct</i>	-0.08
		<i>For >20,000, Deduct</i>	-0.10
09 91 13 00-0196	SF	Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Brush Work.....	0.58
		<i>For Oil Based Paint, Add</i>	0.03
		<i>For Epoxy Paint, Add</i>	0.06
		<i>For Up To 100, Add</i>	0.38
		<i>For >100 To 250, Add</i>	0.18
		<i>For >250 To 500, Add</i>	0.08
		<i>For >2,500 To 5,000, Deduct</i>	-0.03
		<i>For >5,000 To 10,000, Deduct</i>	-0.06
		<i>For >10,000 To 20,000, Deduct</i>	-0.09
		<i>For >20,000, Deduct</i>	-0.12
09 91 13 00-0197	SF	Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Brush Work.....	1.07
		<i>For Oil Based Paint, Add</i>	0.06
		<i>For Epoxy Paint, Add</i>	0.10
		<i>For Up To 100, Add</i>	0.70
		<i>For >100 To 250, Add</i>	0.33
		<i>For >250 To 500, Add</i>	0.14
		<i>For >2,500 To 5,000, Deduct</i>	-0.05
		<i>For >5,000 To 10,000, Deduct</i>	-0.11
		<i>For >10,000 To 20,000, Deduct</i>	-0.16
		<i>For >20,000, Deduct</i>	-0.21
09 91 13 00-0198	SF	Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Brush/Roller Work.....	0.42
		<i>For Oil Based Paint, Add</i>	0.03
		<i>For Epoxy Paint, Add</i>	0.05
		<i>For Up To 100, Add</i>	0.25
		<i>For >100 To 250, Add</i>	0.12
		<i>For >250 To 500, Add</i>	0.05
		<i>For >2,500 To 5,000, Deduct</i>	-0.02
		<i>For >5,000 To 10,000, Deduct</i>	-0.04
		<i>For >10,000 To 20,000, Deduct</i>	-0.06
		<i>For >20,000, Deduct</i>	-0.08
09 91 13 00-0199	SF	Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Brush/Roller Work.....	0.50
		<i>For Oil Based Paint, Add</i>	0.03
		<i>For Epoxy Paint, Add</i>	0.05
		<i>For Up To 100, Add</i>	0.32
		<i>For >100 To 250, Add</i>	0.15
		<i>For >250 To 500, Add</i>	0.07
		<i>For >2,500 To 5,000, Deduct</i>	-0.03
		<i>For >5,000 To 10,000, Deduct</i>	-0.05
		<i>For >10,000 To 20,000, Deduct</i>	-0.08
		<i>For >20,000, Deduct</i>	-0.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0200 SF Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Brush/Roller Work	0.81	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.09	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 13 00-0201 SF Paint Exterior Concrete Floors And Decks, 1 Coat Primer, Sprayed	0.33	
For Oil Based Paint, Add	0.02	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.17	
For >100 To 250, Add	0.08	
For >250 To 500, Add	0.04	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.03	
For >10,000 To 20,000, Deduct	-0.05	
For >20,000, Deduct	-0.07	
09 91 13 00-0202 SF Paint Exterior Concrete Floors And Decks, 1 Coat Paint, Sprayed	0.41	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.24	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.06	
For >20,000, Deduct	-0.08	
09 91 13 00-0203 SF Paint Exterior Concrete Floors And Decks, 2 Coats Paint, Sprayed	0.73	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.10	
For Up To 100, Add	0.42	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 13 00-0204 SF Paint Exterior Concrete Floors And Decks, 1 Coat Non Slip Paint, Brush/Roller Work	1.33	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 13 00-0205 SF Paint Exterior Concrete Floors And Decks, 1 Coat Anti-Slip, Single Component Epoxy Coating, Brush/Roller Work	3.09	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.20	
For >2,500 To 5,000, Deduct	-0.15	
For >5,000 To 10,000, Deduct	-0.31	
For >10,000 To 20,000, Deduct	-0.46	
For >20,000, Deduct	-0.62	
09 91 13 00-0206 SF Paint Exterior Concrete Floors And Decks, 1 Coat Anti-Slip High Performance Epoxy Coating, Brush/Roller Work	3.82	
For Up To 100, Add	0.82	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.19	
For >5,000 To 10,000, Deduct	-0.38	
For >10,000 To 20,000, Deduct	-0.57	
For >20,000, Deduct	-0.76	
09 91 13 00-0207 Paint Exterior Wood Floors (09 91 13 00-0193)		
09 91 13 00-0208 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Brush Work	0.65	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0209 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Brush Work	0.70	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0210 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Brush Work	1.31	
For Oil Based Paint, Add	0.08	
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 13 00-0211 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Brush/Roller Work	0.59	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.34	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 13 00-0212 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Brush/Roller Work	0.64	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 13 00-0213 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Brush/Roller Work	1.04	
For Oil Based Paint, Add	0.07	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
09 91 13 00-0214 SF Paint Exterior Wood Floors And Decks, 1 Coat Primer, Sprayed	0.43	
For Oil Based Paint, Add	0.03	
For Up To 100, Add	0.24	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.04	
For >10,000 To 20,000, Deduct	-0.06	
For >20,000, Deduct	-0.09	
09 91 13 00-0215 SF Paint Exterior Wood Floors And Decks, 1 Coat Paint, Sprayed	0.54	
For Oil Based Paint, Add	0.03	
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 13 00-0216 SF Paint Exterior Wood Floors And Decks, 2 Coats Paint, Sprayed	0.87	
For Oil Based Paint, Add	0.06	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 13 00-0217 SF Paint Exterior Wood Floors And Decks, 1 Coat Non Slip Paint, Brush Work	1.41	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.26	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.21	
For >20,000, Deduct	-0.28	
09 91 13 00-0218 SF Paint Exterior Wood Floors And Decks, 1 Coat Non Slip Epoxy Coating, Brush Work	3.90	
For Up To 100, Add	0.88	
For >100 To 250, Add	0.51	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.20	
For >5,000 To 10,000, Deduct	-0.39	
For >10,000 To 20,000, Deduct	-0.59	
For >20,000, Deduct	-0.78	

09 91 13 00-0219 Paint Exterior Doors And Windows (09 91 13)

09 91 13 00-0220 Paint Exterior Door Frames (09 91 13 00-0219)

09 91 13 00-0221 LF Paint Exterior Wood Door Frame And Trim, 1 Coat Primer, Brush/Roller Work	0.86	
For Painting Either Interior Or Exterior Only, Deduct	-0.23	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 91	13 00-0222	LF	Paint Exterior Wood Door Frame And Trim, 1 Coat Paint, Brush/Roller Work <i>For Painting Either Interior Or Exterior Only, Deduct</i>	1.12 -0.29	
09 91	13 00-0223	LF	Paint Exterior Wood Door Frame And Trim, 2 Coats Paint, Brush/Roller Work <i>For Painting Either Interior Or Exterior Only, Deduct</i>	1.89 -0.49	
09 91	13 00-0224	LF	Paint Exterior Metal Door Frame And Trim, 1 Coat Primer, Brush/Roller Work <i>For Painting Either Interior Or Exterior Only, Deduct</i>	0.87 -0.23	
09 91	13 00-0225	LF	Paint Exterior Metal Door Frame And Trim, 1 Coat Paint, Brush/Roller Work <i>For Painting Either Interior Or Exterior Only, Deduct</i>	1.13 -0.30	
09 91	13 00-0226	LF	Paint Exterior Metal Door Frame And Trim, 2 Coats Paint, Brush/Roller Work <i>For Painting Either Interior Or Exterior Only, Deduct</i>	1.92 -0.50	

09 91 13 00-0227 Paint Exterior Metal Doors (09 91 13 00-0219)

09 91	13 00-0228	EA	Paint Exterior Metal Door, One Face, 1 Coat Primer, Brush/Roller Work <i>For Half Louvered Door, Add</i> <i>For Full Louvered Door, Add</i> <i>For Electrostatic Painting, Add</i> <i>For >5 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	37.69 3.55 5.92 5.87 -1.88 -3.77 -5.65	
09 91	13 00-0229	EA	Paint Exterior Metal Door, One Face, 1 Coat Paint, Brush/Roller Work <i>For Half Louvered Door, Add</i> <i>For Full Louvered Door, Add</i> <i>For Electrostatic Painting, Add</i> <i>For >5 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	37.69 3.55 5.92 5.87 -1.88 -3.77 -5.65	
09 91	13 00-0230	EA	Paint Exterior Metal Door, One Face, 2 Coats Paint, Brush/Roller Work <i>For Half Louvered Door, Add</i> <i>For Full Louvered Door, Add</i> <i>For Electrostatic Painting, Add</i> <i>For >5 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	67.85 6.00 10.00 10.97 -3.39 -6.79 -10.18	
09 91	13 00-0231	EA	Paint Exterior Metal Door, Both Faces, 1 Coat Primer, Brush/Roller Work <i>For Half Louvered Door, Add</i> <i>For Full Louvered Door, Add</i> <i>For Electrostatic Painting, Add</i> <i>For >5 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	67.64 6.37 10.61 10.54 -3.38 -6.76 -10.15	
09 91	13 00-0232	EA	Paint Exterior Metal Door, Both Faces, 1 Coat Paint, Brush/Roller Work <i>For Half Louvered Door, Add</i> <i>For Full Louvered Door, Add</i> <i>For Electrostatic Painting, Add</i> <i>For >5 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	67.64 6.37 10.61 10.54 -3.38 -6.76 -10.15	
09 91	13 00-0233	EA	Paint Exterior Metal Door, Both Faces, 2 Coats Paint, Brush/Roller Work <i>For Half Louvered Door, Add</i> <i>For Full Louvered Door, Add</i> <i>For Electrostatic Painting, Add</i> <i>For >5 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	122.20 10.77 17.95 19.78 -6.11 -12.22 -18.33	
09 91	13 00-0234	EA	Paint Exterior Metal Door, One Face, 1 Coat Primer, Sprayed <i>For Half Louvered Door, Add</i> <i>For Full Louvered Door, Add</i> <i>For Electrostatic Painting, Add</i> <i>For >5 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	34.92 2.93 4.88 5.81 -1.75 -3.49 -5.24	
09 91	13 00-0235	EA	Paint Exterior Metal Door, One Face, 1 Coat Paint, Sprayed <i>For Half Louvered Door, Add</i> <i>For Full Louvered Door, Add</i> <i>For Electrostatic Painting, Add</i> <i>For >5 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	34.92 2.93 4.88 5.81 -1.75 -3.49 -5.24	
09 91	13 00-0236	EA	Paint Exterior Metal Door, One Face, 2 Coats Paint, Sprayed <i>For Half Louvered Door, Add</i> <i>For Full Louvered Door, Add</i> <i>For Electrostatic Painting, Add</i> <i>For >5 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	63.58 4.94 8.23 10.96 -3.18 -6.36 -9.54	
09 91	13 00-0237	EA	Paint Exterior Metal Door, Both Faces, 1 Coat Primer, Sprayed <i>For Half Louvered Door, Add</i> <i>For Full Louvered Door, Add</i> <i>For Electrostatic Painting, Add</i> <i>For >5 To 10, Deduct</i> <i>For >10 To 25, Deduct</i> <i>For >25, Deduct</i>	62.69 5.25 8.74 10.43 -3.13 -6.27 -9.40	

09	Finishes
09 90	Painting And Coating
09 91	Painting



SAN BERNARDINO
COUNTY

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0238	EA	Paint Exterior Metal Door, Both Faces, 1 Coat Paint, Sprayed	62.69	
			<i>For Half Louvered Door, Add</i>	5.25	
			<i>For Full Louvered Door, Add</i>	8.74	
			<i>For Electrostatic Painting, Add</i>	10.43	
			<i>For >5 To 10, Deduct</i>	-3.13	
			<i>For >10 To 25, Deduct</i>	-6.27	
			<i>For >25, Deduct</i>	-9.40	
09 91	13 00-0239	EA	Paint Exterior Metal Door, Both Faces, 2 Coats Paint, Sprayed	114.61	
			<i>For Half Louvered Door, Add</i>	8.88	
			<i>For Full Louvered Door, Add</i>	14.79	
			<i>For Electrostatic Painting, Add</i>	19.78	
			<i>For >5 To 10, Deduct</i>	-5.73	
			<i>For >10 To 25, Deduct</i>	-11.46	
			<i>For >25, Deduct</i>	-17.19	
09 91	13 00-0240	SF	Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door, 1 Coat Primer, Brush/Roller Work	1.86	
			<i>For Electrostatic Painting, Add</i>	0.22	
09 91	13 00-0241	SF	Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door, 1 Coat Paint, Brush/Roller Work	1.95	
			<i>For Electrostatic Painting, Add</i>	0.24	
09 91	13 00-0242	SF	Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door, 2 Coats Paint, Brush/Roller Work	4.00	
			<i>For Electrostatic Painting, Add</i>	0.49	
09 91	13 00-0243	SF	Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door, 1 Coat Primer, Sprayed	2.07	
			<i>For Electrostatic Painting, Add</i>	0.24	
09 91	13 00-0244	SF	Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door, 1 Coat Paint, Sprayed	2.16	
			<i>For Electrostatic Painting, Add</i>	0.27	
09 91	13 00-0245	SF	Paint Exterior Metal Overhead, Sectional Door, Or Roll Up Door, 2 Coats Paint, Sprayed	4.18	
			<i>For Electrostatic Painting, Add</i>	0.51	
09 91	13 00-0246		Paint Exterior Wood Doors <small>(09 91 13 00-0219)</small>		
09 91	13 00-0247	EA	Paint Exterior Wood Door, One Face, 1 Coat Primer, Brush/Roller Work	33.87	
			<i>For Half Louvered Door, Add</i>	3.55	
			<i>For Full Louvered Door, Add</i>	5.92	
			<i>For >5 To 10, Deduct</i>	-1.69	
			<i>For >10 To 25, Deduct</i>	-3.39	
			<i>For >25, Deduct</i>	-5.08	
09 91	13 00-0248	EA	Paint Exterior Wood Door, One Face, 1 Coat Paint, Brush/Roller Work	33.87	
			<i>For Half Louvered Door, Add</i>	3.55	
			<i>For Full Louvered Door, Add</i>	5.92	
			<i>For >5 To 10, Deduct</i>	-1.69	
			<i>For >10 To 25, Deduct</i>	-3.39	
			<i>For >25, Deduct</i>	-5.08	
09 91	13 00-0249	EA	Paint Exterior Wood Door, One Face, 2 Coats Paint, Brush/Roller Work	60.25	
			<i>For Half Louvered Door, Add</i>	6.00	
			<i>For Full Louvered Door, Add</i>	10.00	
			<i>For >5 To 10, Deduct</i>	-3.01	
			<i>For >10 To 25, Deduct</i>	-6.03	
			<i>For >25, Deduct</i>	-9.04	
09 91	13 00-0250	EA	Paint Exterior Wood Door, Both Faces, 1 Coat Primer, Brush/Roller Work	60.77	
			<i>For Half Louvered Door, Add</i>	6.37	
			<i>For Full Louvered Door, Add</i>	10.61	
			<i>For >5 To 10, Deduct</i>	-3.04	
			<i>For >10 To 25, Deduct</i>	-6.08	
			<i>For >25, Deduct</i>	-9.12	
09 91	13 00-0251	EA	Paint Exterior Wood Door, Both Faces, 1 Coat Paint, Brush/Roller Work	60.77	
			<i>For Half Louvered Door, Add</i>	6.37	
			<i>For Full Louvered Door, Add</i>	10.61	
			<i>For >5 To 10, Deduct</i>	-3.04	
			<i>For >10 To 25, Deduct</i>	-6.08	
			<i>For >25, Deduct</i>	-9.12	
09 91	13 00-0252	EA	Paint Exterior Wood Door, Both Faces, 2 Coats Paint, Brush/Roller Work	108.46	
			<i>For Half Louvered Door, Add</i>	10.77	
			<i>For Full Louvered Door, Add</i>	17.95	
			<i>For >5 To 10, Deduct</i>	-5.42	
			<i>For >10 To 25, Deduct</i>	-10.85	
			<i>For >25, Deduct</i>	-16.27	
09 91	13 00-0253	EA	Paint Exterior Wood Door, One Face, 1 Coat Primer, Sprayed	30.72	
			<i>For Half Louvered Door, Add</i>	2.93	
			<i>For Full Louvered Door, Add</i>	4.88	
			<i>For >5 To 10, Deduct</i>	-1.54	
			<i>For >10 To 25, Deduct</i>	-3.07	
			<i>For >25, Deduct</i>	-4.61	
09 91	13 00-0254	EA	Paint Exterior Wood Door, One Face, 1 Coat Paint, Sprayed	30.72	
			<i>For Half Louvered Door, Add</i>	2.93	
			<i>For Full Louvered Door, Add</i>	4.88	
			<i>For >5 To 10, Deduct</i>	-1.54	
			<i>For >10 To 25, Deduct</i>	-3.07	
			<i>For >25, Deduct</i>	-4.61	
09 91	13 00-0255	EA	Paint Exterior Wood Door, One Face, 2 Coats Paint, Sprayed	55.26	
			<i>For Half Louvered Door, Add</i>	4.94	
			<i>For Full Louvered Door, Add</i>	8.24	
			<i>For >5 To 10, Deduct</i>	-2.76	
			<i>For >10 To 25, Deduct</i>	-5.53	
			<i>For >25, Deduct</i>	-8.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	13 00-0256	EA	Paint Exterior Wood Door, Both Faces, 1 Coat Primer, Sprayed	55.14	
			<i>For Half Louvered Door, Add</i>	5.25	
			<i>For Full Louvered Door, Add</i>	8.74	
			<i>For >5 To 10, Deduct</i>	-2.76	
			<i>For >10 To 25, Deduct</i>	-5.51	
			<i>For >25, Deduct</i>	-8.27	
09 91	13 00-0257	EA	Paint Exterior Wood Door, Both Faces, 1 Coat Paint, Sprayed	55.14	
			<i>For Half Louvered Door, Add</i>	5.25	
			<i>For Full Louvered Door, Add</i>	8.74	
			<i>For >5 To 10, Deduct</i>	-2.76	
			<i>For >10 To 25, Deduct</i>	-5.51	
			<i>For >25, Deduct</i>	-8.27	
09 91	13 00-0258	EA	Paint Exterior Wood Door, Both Faces, 2 Coats Paint, Sprayed.....	99.50	
			<i>For Half Louvered Door, Add</i>	8.88	
			<i>For Full Louvered Door, Add</i>	14.79	
			<i>For >5 To 10, Deduct</i>	-4.98	
			<i>For >10 To 25, Deduct</i>	-9.95	
			<i>For >25, Deduct</i>	-14.93	
09 91	13 00-0259	SF	Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door, 1 Coat Primer, Brush/Roller Work.....	1.80	
09 91	13 00-0260	SF	Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door, 1 Coat Paint, Brush/Roller Work.....	1.86	
09 91	13 00-0261	SF	Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door, 2 Coats Paint, Brush/Roller Work.....	3.84	
09 91	13 00-0262	SF	Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door, 1 Coat Primer, Sprayed	2.00	
09 91	13 00-0263	SF	Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door, 1 Coat Paint, Sprayed.....	2.07	
09 91	13 00-0264	SF	Paint Exterior Wood Overhead, Sectional Door, Or Roll Up Door, 2 Coats Paint, Sprayed.....	4.01	
09 91	13 00-0265		Paint Exterior Metal Windows (09 91 13 00-0219) Note: Two finish coats paint over rust inhibitive primer.		
09 91	13 00-0266	EA	Up To 8 SF Window Size, Paint Exterior Metal Window Including Trim.....	62.37	
			<i>For Electrostatic Painting, Add</i>	7.63	
			<i>For >5 To 10, Deduct</i>	-3.12	
			<i>For >10 To 25, Deduct</i>	-6.24	
			<i>For >25, Deduct</i>	-9.36	
09 91	13 00-0267	EA	>8 To 14 SF Window Size, Paint Exterior Metal Window Including Trim	75.61	
			<i>For Electrostatic Painting, Add</i>	9.72	
			<i>For >5 To 10, Deduct</i>	-3.78	
			<i>For >10 To 25, Deduct</i>	-7.56	
			<i>For >25, Deduct</i>	-11.34	
09 91	13 00-0268	EA	>14 To 20 SF Window Size, Paint Exterior Metal Window Including Trim	102.06	
			<i>For Electrostatic Painting, Add</i>	13.27	
			<i>For >5 To 10, Deduct</i>	-5.10	
			<i>For >10 To 25, Deduct</i>	-10.21	
			<i>For >25, Deduct</i>	-15.31	
09 91	13 00-0269	EA	>20 To 26 SF Window Size, Paint Exterior Metal Window Including Trim	114.93	
			<i>For Electrostatic Painting, Add</i>	14.96	
			<i>For >5 To 10, Deduct</i>	-5.75	
			<i>For >10 To 25, Deduct</i>	-11.49	
			<i>For >25, Deduct</i>	-17.24	
09 91	13 00-0270	EA	>26 To 34 SF Window Size, Paint Exterior Metal Window Including Trim	127.44	
			<i>For Electrostatic Painting, Add</i>	16.56	
			<i>For >5 To 10, Deduct</i>	-6.37	
			<i>For >10 To 25, Deduct</i>	-12.74	
			<i>For >25, Deduct</i>	-19.12	
09 91	13 00-0271	SF	>34 SF Window Size, Paint Exterior Metal Window Including Trim	4.04	
			<i>For Electrostatic Painting, Add</i>	0.52	
09 91	13 00-0272		Paint Exterior Wood Windows (09 91 13 00-0219) Note: Two finish coats paint over primer.		
09 91	13 00-0273	EA	Up To 8 SF Window Size, Paint Exterior Wood Window Including Trim	59.83	
			<i>For >5 To 10, Deduct</i>	-2.99	
			<i>For >10 To 25, Deduct</i>	-5.98	
			<i>For >25, Deduct</i>	-8.97	
09 91	13 00-0274	EA	>8 To 14 SF Window Size, Paint Exterior Wood Window Including Trim.....	71.68	
			<i>For >5 To 10, Deduct</i>	-3.58	
			<i>For >10 To 25, Deduct</i>	-7.17	
			<i>For >25, Deduct</i>	-10.75	
09 91	13 00-0275	EA	>14 To 20 SF Window Size, Paint Exterior Wood Window Including Trim.....	96.49	
			<i>For >5 To 10, Deduct</i>	-4.82	
			<i>For >10 To 25, Deduct</i>	-9.65	
			<i>For >25, Deduct</i>	-14.47	
09 91	13 00-0276	EA	>20 To 26 SF Window Size, Paint Exterior Wood Window Including Trim.....	108.64	
			<i>For >5 To 10, Deduct</i>	-5.43	
			<i>For >10 To 25, Deduct</i>	-10.86	
			<i>For >25, Deduct</i>	-16.30	
09 91	13 00-0277	EA	>26 To 34 SF Window Size, Paint Exterior Wood Window Including Trim.....	120.51	
			<i>For >5 To 10, Deduct</i>	-6.03	
			<i>For >10 To 25, Deduct</i>	-12.05	
			<i>For >25, Deduct</i>	-18.08	
09 91	13 00-0278	SF	>34 SF Window Size, Paint Exterior Wood Window Including Trim.....	4.03	
09 91	13 00-0279		Paint Exterior Security Screens (09 91 13 00-0219)		
09 91	13 00-0280	SF	Paint Exterior Security Screen, 1 Coat Primer, Brush/Roller Work	1.07	
			<i>For Electrostatic Painting, Add</i>	0.14	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0281	SF		Paint Exterior Security Screen, 1 Coat Paint, Brush/Roller Work.....	1.11	
			<i>For Electrostatic Painting, Add</i>	0.13	
09 91 13 00-0282	SF		Paint Exterior Security Screen, 2 Coats Paint, Brush/Roller Work.....	1.84	
			<i>For Electrostatic Painting, Add</i>	0.22	
09 91 13 00-0283			Paint Exterior Window Guards <small>(09 91 13 00-0219)</small>		
09 91 13 00-0284	SF		Paint Exterior Metal Window Guards, 1 Coat Primer, Brush/Roller Work.....	1.07	
09 91 13 00-0285	SF		Paint Exterior Metal Window Guards, 1 Coat Paint, Brush/Roller Work.....	1.11	
09 91 13 00-0286	SF		Paint Exterior Metal Window Guards, 2 Coats Paint, Brush/Roller Work.....	1.84	
09 91 13 00-0287			Paint Exterior Window Trim <small>(09 91 13 00-0219)</small>		
09 91 13 00-0288	LF		Paint Exterior Wood Window Frame And Trim, 1 Coat Primer, Brush/Roller Work.....	0.94	
09 91 13 00-0289	LF		Paint Exterior Wood Window Frame And Trim, 1 Coat Paint, Brush/Roller Work.....	0.94	
09 91 13 00-0290	LF		Paint Exterior Wood Window Frame And Trim, 2 Coats Paint, Brush/Roller Work.....	1.53	
09 91 13 00-0291	LF		Paint Exterior Metal Window Frame And Trim, 1 Coat Primer, Brush/Roller Work.....	1.10	
09 91 13 00-0292	LF		Paint Exterior Metal Window Frame And Trim, 1 Coat Paint, Brush/Roller Work.....	1.10	
09 91 13 00-0293	LF		Paint Exterior Metal Window Frame And Trim, 2 Coats Paint, Brush/Roller Work.....	1.85	
09 91 13 00-0294			Paint Roofing And Trim <small>(09 91 13)</small>		
09 91 13 00-0295			Paint Stain Or Seal Wood Roofing <small>(09 91 13 00-0294)</small>		
09 91 13 00-0296	SF		Stain And Seal Shingles/Shake, 1 Coat, Brush/Roller Work.....	1.31	
			<i>For Up To 100, Add</i>	0.71	
			<i>For >100 To 250, Add</i>	0.35	
			<i>For >250 To 500, Add</i>	0.15	
09 91 13 00-0297	SF		Stain And Seal Shingles/Shake, 2 Coats, Brush/Roller Work.....	2.43	
			<i>For Up To 100, Add</i>	1.31	
			<i>For >100 To 250, Add</i>	0.64	
			<i>For >250 To 500, Add</i>	0.28	
09 91 13 00-0298			Paint Metal Roofing <small>(09 91 13 00-0294)</small>		
09 91 13 00-0299	SF		Paint Metal Roofing, 1 Coat Paint, Brush/Roller Work.....	0.62	
			<i>For Up To 100, Add</i>	0.30	
			<i>For >100 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.07	
09 91 13 00-0300	SF		Paint Metal Roofing, 2 Coats Paint, Brush/Roller Work.....	1.06	
			<i>For Up To 100, Add</i>	0.53	
			<i>For >100 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.12	
09 91 13 00-0301	SF		Paint Metal Roof, 1 Coat Epoxy Polyamide Cured Resin Primer, Sprayed.....	0.65	
			<i>For Up To 100, Add</i>	0.39	
			<i>For >100 To 250, Add</i>	0.19	
			<i>For >250 To 500, Add</i>	0.08	
09 91 13 00-0302	SF		Paint Metal Roof, 1 Coat Aliphatic Polyurethane, Sprayed.....	0.60	
			<i>For Up To 100, Add</i>	0.29	
			<i>For >100 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.06	
09 91 13 00-0303			Paint Fascia Board <small>(09 91 13 00-0294)</small>		
09 91 13 00-0304	LF		Paint Fascia Board, 1 Coat Primer, Brush/Roller Work.....	0.54	
			<i>For Up To 100, Add</i>	0.29	
			<i>For >100 To 250, Add</i>	0.14	
			<i>For >250 To 500, Add</i>	0.06	
09 91 13 00-0305	LF		Paint Fascia Board, 1 Coat Paint, Brush/Roller Work.....	0.54	
			<i>For Up To 100, Add</i>	0.29	
			<i>For >100 To 250, Add</i>	0.14	
			<i>For >250 To 500, Add</i>	0.06	
09 91 13 00-0306	LF		Paint Fascia Board, 2 Coats Paint, Brush/Roller Work.....	0.94	
			<i>For Up To 100, Add</i>	0.51	
			<i>For >100 To 250, Add</i>	0.25	
			<i>For >250 To 500, Add</i>	0.11	
09 91 13 00-0307			Paint Soffit <small>(09 91 13 00-0294)</small>		
09 91 13 00-0308	SF		Paint Soffit, 1 Coat Primer, Brush/Roller Work.....	0.63	
			<i>For Up To 100, Add</i>	0.30	
			<i>For >100 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.07	
09 91 13 00-0309	SF		Paint Soffit, 1 Coat Paint, Brush/Roller Work.....	0.63	
			<i>For Up To 100, Add</i>	0.30	
			<i>For >100 To 250, Add</i>	0.15	
			<i>For >250 To 500, Add</i>	0.07	
09 91 13 00-0310	SF		Paint Soffit, 2 Coats Paint, Brush/Roller Work.....	1.07	
			<i>For Up To 100, Add</i>	0.53	
			<i>For >100 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0311 Special Coatings For Metal Roofs <small>(09 91 13 00-0294)</small>		
09 91 13 00-0312 SF Carboline Carboxane 950 Coating System With 15 year warranty	7.41	
09 91 13 00-0313 SF Carboline Carbothane 134HG Coating System With 1 year warranty	4.82	
09 91 13 00-0314 Paint Site Work <small>(09 91 13)</small>		
Note: Tasks can be used for exterior or interior applications.		
09 91 13 00-0315 Paint Structural Steel <small>(09 91 13 00-0314)</small>		
09 91 13 00-0316 Paint Structural Steel, Brush Work <small>(09 91 13 00-0315)</small>		
09 91 13 00-0317 SF Paint Structural Steel, 1 Field Coat Primer, Brush/Roller Work	0.74	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.10	
For Epoxy Paint, Add	0.08	
09 91 13 00-0318 SF Paint Structural Steel, 1 Field Coat Paint, Brush/Roller Work	0.66	
For Up To 100, Add	0.41	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For Epoxy Paint, Add	0.08	
09 91 13 00-0319 Paint Structural Steel, Spray Work <small>(09 91 13 00-0315)</small>		
09 91 13 00-0320 SF Paint Structural Steel, 1 Field Coat Primer, Spray Work	0.55	
For Electrostatic Painting, Add	0.08	
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For Epoxy Paint, Add	0.07	
09 91 13 00-0321 SF Paint Structural Steel, 1 Field Coat Paint, Spray Work	0.46	
For Electrostatic Painting, Add	0.07	
For Up To 100, Add	0.26	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For Epoxy Paint, Add	0.07	
09 91 13 00-0322 Paint Metal Decking, Beams And Bar Joist <small>(09 91 13 00-0315)</small>		
09 91 13 00-0323 SF Paint Exposed Metal Decking, 1 Coat Primer, Sprayed	0.63	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For Epoxy Paint, Add	0.07	
09 91 13 00-0324 SF Paint Exposed Metal Decking, 1 Coat Paint, Sprayed	0.63	
For Up To 100, Add	0.39	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For Epoxy Paint, Add	0.07	
09 91 13 00-0325 SF Paint Exposed Metal Decking, 2 Coats Paint, Sprayed	1.04	
For Up To 100, Add	0.62	
For >100 To 250, Add	0.30	
For >250 To 500, Add	0.13	
For Epoxy Paint, Add	0.13	
09 91 13 00-0326 SF Paint Metal Beams And Bar Joists, 1 Coat Primer, Brush/Roller Work	0.89	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.12	
09 91 13 00-0327 SF Paint Metal Beams And Bar Joists, 1 Coat Paint, Brush/Roller Work	0.87	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
For Epoxy Paint, Add	0.11	
09 91 13 00-0328 SF Paint Metal Beams And Bar Joists, 2 Coats Paint, Brush/Roller Work	1.64	
For Up To 100, Add	0.95	
For >100 To 250, Add	0.46	
For >250 To 500, Add	0.20	
For Epoxy Paint, Add	0.22	
09 91 13 00-0329 SF Paint Metal Beams And Bar Joists, 1 Coat Primer, Sprayed	0.76	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For Epoxy Paint, Add	0.10	
09 91 13 00-0330 SF Paint Metal Beams And Bar Joists, 1 Coat Paint, Sprayed	0.76	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For Epoxy Paint, Add	0.10	
09 91 13 00-0331 SF Paint Metal Beams And Bar Joists, 2 Coats Paint, Sprayed	1.28	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.35	
For >250 To 500, Add	0.15	
For Epoxy Paint, Add	0.18	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0332			Paint Steel Pipes <small>(09 91 13 00-0314)</small> Note: Includes pipe, tubes, rails, conduit, etc.		
09 91 13 00-0333	LF		Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 1 Coat Primer.....	1.22	
			For Electrostatic Painting, Add	0.15	
			For Epoxy Paint, Add	0.12	
09 91 13 00-0334	LF		Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 1 Coat Primer.....	1.38	
			For Electrostatic Painting, Add	0.17	
			For Epoxy Paint, Add	0.14	
09 91 13 00-0335	LF		Paint Steel Pipes 4" Diameter, 1 Coat Primer.....	1.55	
			For Electrostatic Painting, Add	0.20	
			For Epoxy Paint, Add	0.16	
09 91 13 00-0336	LF		Paint Steel Pipes 6" To 8" Diameter, 1 Coat Primer.....	1.93	
			For Electrostatic Painting, Add	0.24	
			For Epoxy Paint, Add	0.20	
09 91 13 00-0337	LF		Paint Steel Pipes 10" To 12" Diameter 1 Coat Primer.....	2.45	
			For Electrostatic Painting, Add	0.31	
			For Epoxy Paint, Add	0.25	
09 91 13 00-0338	LF		Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 1 Coat Paint.....	1.22	
			For Electrostatic Painting, Add	0.15	
			For Epoxy Paint, Add	0.12	
09 91 13 00-0339	LF		Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 1 Coat Paint.....	1.38	
			For Electrostatic Painting, Add	0.17	
			For Epoxy Paint, Add	0.14	
09 91 13 00-0340	LF		Paint Steel Pipes 4" Diameter, 1 Coat Paint.....	1.55	
			For Electrostatic Painting, Add	0.20	
			For Epoxy Paint, Add	0.16	
09 91 13 00-0341	LF		Paint Steel Pipes 6" To 8" Diameter, 1 Coat Paint.....	1.93	
			For Electrostatic Painting, Add	0.24	
			For Epoxy Paint, Add	0.20	
09 91 13 00-0342	LF		Paint Steel Pipes 10" To 12" Diameter 1 Coat Paint.....	2.45	
			For Electrostatic Painting, Add	0.31	
			For Epoxy Paint, Add	0.25	
09 91 13 00-0343	LF		Paint Conduit, Steel Pipe 1/2" To 1-1/2" Diameter, 2 Coats.....	2.48	
			For Electrostatic Painting, Add	0.33	
			For Epoxy Paint, Add	0.28	
09 91 13 00-0344	LF		Paint Conduit, Steel Pipe 2" To 3-1/2" Diameter, 2 Coats.....	2.74	
			For Electrostatic Painting, Add	0.34	
			For Epoxy Paint, Add	0.28	
09 91 13 00-0345	LF		Paint Steel Pipes 4" Diameter, 2 Coats.....	2.96	
			For Electrostatic Painting, Add	0.38	
			For Epoxy Paint, Add	0.31	
09 91 13 00-0346	LF		Paint Steel Pipes 6" To 8" Diameter, 2 Coats.....	3.74	
			For Electrostatic Painting, Add	0.47	
			For Epoxy Paint, Add	0.38	
09 91 13 00-0347	LF		Paint Steel Pipes 10" To 12" Diameter, 2 Coats.....	4.61	
			For Electrostatic Painting, Add	0.59	
			For Epoxy Paint, Add	0.48	
09 91 13 00-0348	EA		Paint Exposed Single Or Double Gang, Outlet Box, 1 Coat Paint.....	6.09	
			For Electrostatic Painting, Add	0.64	
			For Epoxy Paint, Add	0.37	
09 91 13 00-0349			Paint Fencing <small>(09 91 13 00-0314)</small> Note: Per side of fence. Based on gross fence area (length of fence x height of fence).		
09 91 13 00-0350	SF		Paint Existing Chain Link Fence, 1 Coat Paint, Brush/Roller.....	0.62	
			For Epoxy Paint, Add	0.07	
			For Up To 100, Add	0.39	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
09 91 13 00-0351	SF		Paint Existing Chain Link Fence, 2 Coats Paint, Brush/Roller.....	1.14	
			For Epoxy Paint, Add	0.13	
			For Up To 100, Add	0.71	
			For >100 To 250, Add	0.34	
			For >250 To 500, Add	0.15	
09 91 13 00-0352	SF		Paint Existing Chain Link Fence, 1 Coat Paint, Sprayed.....	0.56	
			For Epoxy Paint, Add	0.07	
			For Electrostatic Painting, Add	0.08	
			For Up To 100, Add	0.33	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
09 91 13 00-0353	SF		Paint Existing Chain Link Fence, 2 Coats Paint, Sprayed.....	1.03	
			For Epoxy Paint, Add	0.14	
			For Electrostatic Painting, Add	0.15	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.12	
09 91 13 00-0354	SF		Paint Wrought Iron Fence, 1 Coat Primer, Brush/Roller.....	0.56	
			For Epoxy Paint, Add	0.07	
			For Up To 100, Add	0.33	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0355 SF Paint Wrought Iron Fence, 1 Coat, Brush/Roller	0.53	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
09 91 13 00-0356 SF Paint Wrought Iron Fence, Each Additional Coat, Brush/Roller	0.38	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.21	
For >100 To 250, Add	0.10	
For >250 To 500, Add	0.05	
09 91 13 00-0357 SF Paint Picket Fence, 1 Coat Primer, Brush/Roller	0.71	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
09 91 13 00-0358 SF Paint Picket Fence, 1 Coat, Brush/Roller	0.71	
For Epoxy Paint, Add	0.05	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
09 91 13 00-0359 SF Paint Picket Fence, Each Additional Coat, Brush/Roller	0.51	
For Epoxy Paint, Add	0.04	
For Up To 100, Add	0.35	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
09 91 13 00-0360 SF Paint Wood Fences 1 Coat, Brush/Roller	0.52	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
09 91 13 00-0361 SF Paint Wood Fences 2 Coats, Brush/Roller	0.93	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
09 91 13 00-0362 SF Paint Wood Fences 1 Coat, Sprayed	0.41	
For Up To 100, Add	0.24	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
09 91 13 00-0363 SF Paint Wood Fences 2 Coats, Sprayed	0.77	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
09 91 13 00-0364 Paint Metal Louvers (09 91 13 00-0314)		
09 91 13 00-0365 SF Paint Ventilation Louver, SF Of Opening Area, 1 Coat Primer, Brush/Roller Work	1.04	
For Electrostatic Painting, Add	0.12	
09 91 13 00-0366 SF Paint Ventilation Louver, SF Of Opening Area, 1 Coat Alkyd, Brush/Roller Work	1.06	
For Electrostatic Painting, Add	0.13	
09 91 13 00-0367 SF Paint Ventilation Louver, SF Of Opening Area, 2 Coats Alkyd, Brush/Roller Work	2.16	
For Electrostatic Painting, Add	0.26	
09 91 13 00-0368 Paint Ladders (09 91 13 00-0314)		
09 91 13 00-0369 LF Paint Ladders, 1 Coat Alkyd Primer, Brush/Roller Work	2.86	
For Epoxy Paint, Add	0.17	
09 91 13 00-0370 LF Paint Ladders, 1 Coat Alkyd Enamel, Brush/Roller Work	3.19	
For Epoxy Paint, Add	0.19	
09 91 13 00-0371 LF Paint Ladders, 2 Coats Alkyd Enamel, Brush/Roller Work	6.31	
For Epoxy Paint, Add	0.36	
09 91 13 00-0372 Paint Handrails (09 91 13 00-0314)		
09 91 13 00-0373 LF Paint Hand Rail And Bracket, 1 Rail, 1 Coat Alkyd Primer, Brush/Roller Work	1.14	
For Epoxy Paint, Add	0.09	
09 91 13 00-0374 LF Paint Hand Rail And Bracket, 1 Rail, 1 Coat Alkyd Enamel, Brush/Roller Work	1.26	
For Epoxy Paint, Add	0.09	
09 91 13 00-0375 LF Paint Hand Rail And Bracket, 1 Rail, 2 Coats Alkyd Enamel, Brush/Roller Work	2.07	
For Epoxy Paint, Add	0.13	
09 91 13 00-0376 LF Paint Pipe Rail And Pickets, 1 Rail, 1 Coat Alkyd Primer, Brush/Roller Work	2.05	
For Epoxy Paint, Add	0.25	
09 91 13 00-0377 LF Paint Pipe Rail And Pickets, 1 Rail, 1 Coat Alkyd Enamel, Brush/Roller Work	2.25	
For Epoxy Paint, Add	0.26	
09 91 13 00-0378 LF Paint Pipe Rail And Pickets, 1 Rail, 2 Coats Alkyd Enamel, Brush/Roller Work	3.86	
For Epoxy Paint, Add	0.41	
09 91 13 00-0379 LF Paint Pipe Rail And Pickets, 2 Rails, 1 Coat Alkyd Primer, Brush/Roller Work	2.21	
For Epoxy Paint, Add	0.25	
09 91 13 00-0380 LF Paint Pipe Rail And Pickets, 2 Rails, 1 Coat Alkyd Enamel, Brush/Roller Work	2.42	
For Epoxy Paint, Add	0.27	
09 91 13 00-0381 LF Paint Pipe Rail And Pickets, 2 Rails, 2 Coats Alkyd Enamel, Brush/Roller Work	4.09	
For Epoxy Paint, Add	0.42	
09 91 13 00-0382 LF Paint Balustrades, 1 Coat Alkyd Primer, Brush/Roller Work	1.24	
For Epoxy Paint, Add	0.13	
09 91 13 00-0383 LF Paint Balustrades, 1 Coat Alkyd Enamel, Brush/Roller Work	1.36	
For Epoxy Paint, Add	0.14	

09	Finishes
09 90	Painting And Coating
09 91	Painting



SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 13 00-0384 LF Paint Balustrades, 2 Coats Alkyd Enamel, Brush/Roller Work..... <i>For Epoxy Paint, Add</i>	2.47	0.26
09 91 13 00-0385 Paint Grating (09 91 13 00-0314)		
09 91 13 00-0386 SF Paint Gratings And Frames, 1 Coat Primer, Brush/Roller Work..... <i>For Epoxy Paint, Add</i>	2.07	0.13
09 91 13 00-0387 SF Paint Gratings And Frames, 1 Coat Paint, Brush/Roller Work..... <i>For Epoxy Paint, Add</i>	2.11	0.15
09 91 13 00-0388 SF Paint Gratings And Frames, 2 Coats Paint, Brush/Roller Work..... <i>For Epoxy Paint, Add</i>	3.17	0.24
09 91 13 00-0389 Equipment And Tanks (09 91 13 00-0314)		
09 91 13 00-0390 Valves, Primer And Finish Coats (09 91 13 00-0389)		
09 91 13 00-0391 EA Prime And Paint 4" And Smaller Valve.....	21.33	
09 91 13 00-0392 EA Prime And Paint 6" To 10" Valve.....	26.13	
09 91 13 00-0393 EA Prime And Paint 12" To 18" Valve.....	34.40	
09 91 13 00-0394 EA Prime And Paint 20" To 24" Valve.....	46.15	
09 91 13 00-0395 EA Prime And Paint >24" To 36" Valve.....	62.68	
09 91 13 00-0396 EA Prime And Paint >36" To 48" Valve.....	85.33	
09 91 13 00-0397 Pumps And Motors. Primer And Finish Coats (09 91 13 00-0389)		
09 91 13 00-0398 EA Prime And Paint Pump Under 1 HP.....	65.32	
09 91 13 00-0399 EA Prime And Paint Pump, 1 HP To 5 HP.....	85.80	
09 91 13 00-0400 EA Prime And Paint Pump, >5 HP To 10 HP.....	102.82	
09 91 13 00-0401 EA Prime And Paint Pump, >10 HP To 20 HP.....	115.04	
09 91 13 00-0402 EA Prime And Paint Pump, >20 HP To 30 HP.....	134.21	
09 91 13 00-0403 EA Prime And Paint Pump, >30 HP To 50 HP.....	153.39	
09 91 13 00-0404 EA Prime And Paint Pump, >50 HP To 75 HP.....	169.09	
09 91 13 00-0405 EA Prime And Paint Pump, >75 HP.....	191.75	
09 91 13 00-0406 Storage Tanks (09 91 13 00-0389)		
09 91 13 00-0407 SF Paint Storage Tank, Exterior Surface, 1 Coat Primer, Roller.....	0.82	
09 91 13 00-0408 SF Paint Storage Tank, Exterior Surface, 1 Coat Paint, Roller.....	1.06	
09 91 13 00-0409 SF Paint Storage Tank, Exterior Surface, 2 Coats Paint, Roller.....	2.03	
09 91 13 00-0410 SF Paint Storage Tank, Interior Surface, 1 Coat Primer, Roller.....	1.10	
09 91 13 00-0411 SF Paint Storage Tank, Interior Surface, 1 Coat Paint, Roller.....	1.40	
09 91 13 00-0412 SF Paint Storage Tank, Interior Surface, 2 Coats Paint, Roller.....	2.67	
09 91 13 00-0413 SF Paint Storage Tank, Exterior Surface, 1 Coat Primer, Spray.....	0.86	
09 91 13 00-0414 SF Paint Storage Tank, Exterior Surface, 1 Coat Paint, Spray.....	1.03	
09 91 13 00-0415 SF Paint Storage Tank, Exterior Surface, 2 Coats Paint, Spray.....	1.99	
09 91 13 00-0416 SF Paint Storage Tank, Interior Surface, 1 Coat Primer, Spray.....	1.00	
09 91 13 00-0417 SF Paint Storage Tank, Interior Surface, 1 Coat Paint, Spray.....	1.28	
09 91 13 00-0418 SF Paint Storage Tank, Interior Surface, 2 Coats Paint, Spray.....	2.47	
09 91 13 00-0419 Other Site Work Painting (09 91 13 00-0314)		
09 91 13 00-0420 Paint Shutters Or Blinds, Solid Panel (09 91 13 00-0419)		
09 91 13 00-0421 SF Paint Shutter Or Blinds, Solid Panel, 1 Coat Primer, Brush Work.....	2.23	
09 91 13 00-0422 SF Paint Shutter Or Blinds, Solid Panel, 1 Coat, Brush Work.....	2.24	
09 91 13 00-0423 SF Paint Shutter Or Blinds, Solid Panel, 2 Coats, Brush Work.....	3.99	
09 91 13 00-0424 SF Paint Shutter Or Blinds, Solid Panel, 1 Coat Primer, Sprayed.....	1.37	
09 91 13 00-0425 SF Paint Shutter Or Blinds, Solid Panel, 1 Coat, Sprayed.....	1.38	
09 91 13 00-0426 SF Paint Shutter Or Blinds, Solid Panel, 2 Coats, Sprayed.....	2.54	
09 91 13 00-0427 Paint Shutters Or Blinds, Louvered Panel (09 91 13 00-0419)		
09 91 13 00-0428 SF Paint Shutter Or Blinds, Louvered Panel, 1 Coat Primer, Brush Work.....	2.78	
09 91 13 00-0429 SF Paint Shutter Or Blinds, Louvered Panel, 1 Coat, Brush Work.....	2.79	
09 91 13 00-0430 SF Paint Shutter Or Blinds, Louvered Panel, 2 Coats, Brush Work.....	4.94	
09 91 13 00-0431 SF Paint Shutter Or Blinds, Louvered Panel, 1 Coat Primer, Sprayed.....	1.67	
09 91 13 00-0432 SF Paint Shutter Or Blinds, Louvered Panel, 1 Coat, Sprayed.....	1.68	
09 91 13 00-0433 SF Paint Shutter Or Blinds, Louvered Panel, 2 Coats, Sprayed.....	3.10	
09 91 13 00-0434 Paint Flagpoles (09 91 13 00-0419)		
09 91 13 00-0435 EA Paint Steel Flagpole, 20' High, 1 Coat Paint.....	173.11	
09 91 13 00-0436 EA Paint Steel Flagpole, 30' High, 1 Coat Paint.....	232.85	
09 91 13 00-0437 EA Paint Steel Flagpole, 40' High, 1 Coat Paint.....	292.65	
09 91 13 00-0438 EA Paint Steel Flagpole, 50' High, 1 Coat Paint.....	352.44	
09 91 13 00-0439 EA Paint Steel Flagpole, 70' High, 1 Coat Paint.....	460.42	
09 91 13 00-0440 EA Paint Steel Flagpole, 80' High, 1 Coat Paint.....	518.75	
09 91 13 00-0441 EA Paint Steel Flagpole, 90' High, 1 Coat Paint.....	577.10	



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 91 13 00-0442	Paint Lattice Or Trellis (09 91 13 00-0419)		
	09 91 13 00-0443	SF Paint Wood Lattice Or Trellis 1 Coat, Spray Per Side.....	1.08	
		<i>For Up To 100, Add</i>	0.74	
		<i>For >100 To 250, Add</i>	0.35	
		<i>For >250 To 500, Add</i>	0.15	
	09 91 13 00-0444	SF Paint Wood Lattice Or Trellis 2 Coats, Spray Per Side.....	1.99	
		<i>For Up To 100, Add</i>	1.36	
		<i>For >100 To 250, Add</i>	0.64	
		<i>For >250 To 500, Add</i>	0.28	
	09 91 13 00-0445	Paint Exterior Stairs (09 91 13)		
	09 91 13 00-0446	Paint Exterior Concrete Stairs (09 91 13 00-0445)		
	09 91 13 00-0447	RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	12.37	
	09 91 13 00-0448	RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work.....	12.37	
	09 91 13 00-0449	RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work.....	15.84	
	09 91 13 00-0450	RSR Paint Exterior Concrete Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work.....	25.84	
	09 91 13 00-0451	RSR Paint Exterior Concrete Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work.....	24.74	
	09 91 13 00-0452	Paint Exterior Metal Stairs (09 91 13 00-0445)		
	09 91 13 00-0453	RSR Paint Exterior Metal Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	6.50	
		<i>For Oil Based Paint, Add</i>	0.35	
	09 91 13 00-0454	RSR Paint Exterior Metal Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work.....	6.50	
		<i>For Oil Based Paint, Add</i>	0.35	
	09 91 13 00-0455	RSR Paint Exterior Metal Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work.....	13.02	
		<i>For Oil Based Paint, Add</i>	0.70	
	09 91 13 00-0456	Paint Exterior Wood Stairs (09 91 13 00-0445)		
	09 91 13 00-0457	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	6.36	
	09 91 13 00-0458	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work.....	6.36	
	09 91 13 00-0459	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work.....	9.83	
	09 91 13 00-0460	RSR Paint Exterior Wood Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work.....	19.83	
	09 91 13 00-0461	RSR Paint Exterior Wood Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work.....	12.73	
	09 91 13 00-0462	Paint Exterior Stair Nosing (09 91 13 00-0445)		
	09 91 13 00-0463	LF Paint Exterior Yellow Stair Safety Strip, Up To 2", Non Slip, Brush Work.....	1.17	
	09 91 13 00-0464	Paint Exterior Trim (09 91 13)		
	09 91 13 00-0465	Paint Exterior Metal Trim And Gutters (09 91 13 00-0464)		
	09 91 13 00-0466	SF Paint Exterior Exposed Metal Trim, 1 Coat Primer, Brush Work.....	0.91	
	09 91 13 00-0467	SF Paint Exterior Exposed Metal Trim, 1 Coat Paint, Brush Work.....	0.91	
	09 91 13 00-0468	SF Paint Exterior Exposed Metal Trim, 2 Coats Paint, Brush Work.....	1.66	
	09 91 13 00-0469	SF Paint Exterior Metal Trim, 1 Coat Primer, Brush/Roller Work.....	0.73	
	09 91 13 00-0470	SF Paint Exterior Metal Trim, 1 Coat Paint, Brush/Roller Work.....	0.82	
	09 91 13 00-0471	SF Paint Exterior Metal Trim, 2 Coats Paint, Brush/Roller Work.....	1.49	
	09 91 13 00-0472	LF Paint Exterior Gutter And Downspout, 1 Coat Paint, Brush Work.....	1.33	
	09 91 13 00-0473	LF Paint Exterior Gutter And Downspout, 2 Coats Paint, Brush Work.....	1.70	
	09 91 13 00-0474	Paint Exterior Wood Trim (09 91 13 00-0464)		
	09 91 13 00-0475	SF Paint Exterior Wood Trim, 1 Coat Primer, Brush Work.....	1.16	
		<i>For Oil Based Paint, Add</i>	0.07	
	09 91 13 00-0476	SF Paint Exterior Wood Trim, 1 Coat Paint, Brush Work.....	1.27	
		<i>For Oil Based Paint, Add</i>	0.07	
	09 91 13 00-0477	SF Paint Exterior Wood Trim, 2 Coats Paint, Brush Work.....	2.28	
		<i>For Oil Based Paint, Add</i>	0.14	
	09 91 13 00-0478	SF Paint Exterior Wood Trim, 1 Coat Primer, Brush/Roller Work.....	0.92	
		<i>For Oil Based Paint, Add</i>	0.06	
	09 91 13 00-0479	SF Paint Exterior Wood Trim, 1 Coat Paint, Brush/Roller Work.....	1.03	
		<i>For Oil Based Paint, Add</i>	0.06	
	09 91 13 00-0480	SF Paint Exterior Wood Trim, 2 Coats Paint, Brush/Roller Work.....	1.90	
		<i>For Oil Based Paint, Add</i>	0.12	
	09 91 13 00-0481	Paint Exterior Miscellaneous Metal Surfaces (09 91 13)		
	09 91 13 00-0482	SF Paint Exterior Miscellaneous Metal Surfaces, 1 Coat Alkyd Primer, Brush/Roller Work.....	1.00	
		<i>For Epoxy Paint, Add</i>	0.11	
		<i>For Electrostatic Painting, Add</i>	0.13	
	09 91 13 00-0483	SF Paint Exterior Miscellaneous Metal Surfaces, 1 Coat Alkyd Enamel, Brush/Roller Work.....	0.93	
		<i>For Epoxy Paint, Add</i>	0.09	
		<i>For Electrostatic Painting, Add</i>	0.11	
	09 91 13 00-0484	SF Paint Exterior Miscellaneous Metal Surfaces, 2 Coats Alkyd Enamel, Brush/Roller Work.....	1.88	
		<i>For Epoxy Paint, Add</i>	0.18	
		<i>For Electrostatic Painting, Add</i>	0.23	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 91 23

Interior Painting (09 91)

Note: Acrylic latex paint unless otherwise stated. VOC compliant in all regulated areas, review specifications for levels. Paint tasks covers all paint sheens: flat, eggshell, satin, semi-gloss, or gloss.

09 91 23 00-0001

Paint Interior Walls (09 91 23)

09 91 23 00-0002

Paint Interior Brick Walls (09 91 23 00-0001)

09 91 23 00-0003	SF	Paint Interior Brick Walls, 1 Coat Filler, Brush Work	0.77
		<i>For Oil Based Paint, Add</i>	0.05
		<i>For Up To 100, Add</i>	0.50
		<i>For >100 To 250, Add</i>	0.24
		<i>For >250 To 500, Add</i>	0.10
		<i>For >2,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000 To 10,000, Deduct</i>	-0.08
		<i>For >10,000 To 20,000, Deduct</i>	-0.12
		<i>For >20,000, Deduct</i>	-0.15
09 91 23 00-0004	SF	Paint Interior Brick Walls, 1 Coat Paint, Brush Work.....	0.88
		<i>For Oil Based Paint, Add</i>	0.05
		<i>For Up To 100, Add</i>	0.57
		<i>For >100 To 250, Add</i>	0.27
		<i>For >250 To 500, Add</i>	0.12
		<i>For >2,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000 To 10,000, Deduct</i>	-0.09
		<i>For >10,000 To 20,000, Deduct</i>	-0.13
		<i>For >20,000, Deduct</i>	-0.18
09 91 23 00-0005	SF	Paint Interior Brick Walls, 2 Coats Paint, Brush Work	1.58
		<i>For Oil Based Paint, Add</i>	0.09
		<i>For Up To 100, Add</i>	1.01
		<i>For >100 To 250, Add</i>	0.48
		<i>For >250 To 500, Add</i>	0.21
		<i>For >2,500 To 5,000, Deduct</i>	-0.08
		<i>For >5,000 To 10,000, Deduct</i>	-0.16
		<i>For >10,000 To 20,000, Deduct</i>	-0.24
		<i>For >20,000, Deduct</i>	-0.32
09 91 23 00-0006	SF	Paint Interior Brick Walls, 1 Coat Filler, Brush/Roller Work.....	0.63
		<i>For Oil Based Paint, Add</i>	0.04
		<i>For Up To 100, Add</i>	0.39
		<i>For >100 To 250, Add</i>	0.19
		<i>For >250 To 500, Add</i>	0.08
		<i>For >2,500 To 5,000, Deduct</i>	-0.03
		<i>For >5,000 To 10,000, Deduct</i>	-0.06
		<i>For >10,000 To 20,000, Deduct</i>	-0.09
		<i>For >20,000, Deduct</i>	-0.13
09 91 23 00-0007	SF	Paint Interior Brick Walls, 1 Coat Paint, Brush/Roller Work	0.77
		<i>For Oil Based Paint, Add</i>	0.05
		<i>For Up To 100, Add</i>	0.46
		<i>For >100 To 250, Add</i>	0.22
		<i>For >250 To 500, Add</i>	0.10
		<i>For >2,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000 To 10,000, Deduct</i>	-0.08
		<i>For >10,000 To 20,000, Deduct</i>	-0.12
		<i>For >20,000, Deduct</i>	-0.15
09 91 23 00-0008	SF	Paint Interior Brick Walls, 2 Coats Paint, Brush/Roller Work.....	1.33
		<i>For Oil Based Paint, Add</i>	0.08
		<i>For Up To 100, Add</i>	0.79
		<i>For >100 To 250, Add</i>	0.38
		<i>For >250 To 500, Add</i>	0.16
		<i>For >2,500 To 5,000, Deduct</i>	-0.07
		<i>For >5,000 To 10,000, Deduct</i>	-0.13
		<i>For >10,000 To 20,000, Deduct</i>	-0.20
		<i>For >20,000, Deduct</i>	-0.27
09 91 23 00-0009	SF	Paint Interior Brick Walls, 1 Coat Filler, Sprayed.....	0.56
		<i>For Oil Based Paint, Add</i>	0.04
		<i>For Up To 100, Add</i>	0.33
		<i>For >100 To 250, Add</i>	0.16
		<i>For >250 To 500, Add</i>	0.07
		<i>For >2,500 To 5,000, Deduct</i>	-0.03
		<i>For >5,000 To 10,000, Deduct</i>	-0.06
		<i>For >10,000 To 20,000, Deduct</i>	-0.08
		<i>For >20,000, Deduct</i>	-0.11
		<i>For Backroll, Add</i>	0.07
09 91 23 00-0010	SF	Paint Interior Brick Walls, 1 Coat Paint, Sprayed	0.62
		<i>For Oil Based Paint, Add</i>	0.04
		<i>For Up To 100, Add</i>	0.33
		<i>For >100 To 250, Add</i>	0.16
		<i>For >250 To 500, Add</i>	0.07
		<i>For >2,500 To 5,000, Deduct</i>	-0.03
		<i>For >5,000 To 10,000, Deduct</i>	-0.06
		<i>For >10,000 To 20,000, Deduct</i>	-0.09
		<i>For >20,000, Deduct</i>	-0.12
		<i>For Backroll, Add</i>	0.07



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0011 SF Paint Interior Brick Walls, 2 Coats Paint, Sprayed	1.06	
For Oil Based Paint, Add	0.07	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.21	
For Backroll, Add	0.12	
09 91 23 00-0012 SF Paint Interior Brick Walls, 1 Coat Bonding Agent, Brush Work	0.79	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
09 91 23 00-0013 SF Paint Interior Brick Walls, 1 Coat Bonding Agent, Brush/Roller Work	0.65	
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 23 00-0014 SF Paint Interior Brick Walls, 1 Coat Bonding Agent, Spray	0.59	
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
For Backroll, Add	0.07	
09 91 23 00-0015 Paint Interior Concrete Walls (09 91 23 00-0001)	0.66	
09 91 23 00-0016 SF Paint Interior Concrete Walls, 1 Coat Filler, Brush Work	0.66	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.07	
For Up To 100, Add	0.43	
For >100 To 250, Add	0.20	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.13	
09 91 23 00-0017 SF Paint Interior Concrete Walls, 1 Coat Paint, Brush Work	0.72	
For Oil Based Paint, Add	0.04	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.14	
09 91 23 00-0018 SF Paint Interior Concrete Walls, 2 Coats Paint, Brush Work	1.31	
For Oil Based Paint, Add	0.07	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.90	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.26	
09 91 23 00-0019 SF Paint Interior Concrete Walls, 1 Coat Filler, Brush/Roller Work	0.53	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0020 SF Paint Interior Concrete Walls, 1 Coat Paint, Brush/Roller Work.....	0.60	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.40	
For >100 To 250, Add	0.19	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
09 91 23 00-0021 SF Paint Interior Concrete Walls, 2 Coats Paint, Brush/Roller Work.....	1.08	
For Oil Based Paint, Add	0.06	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.16	
For >20,000, Deduct	-0.22	
09 91 23 00-0022 SF Paint Interior Concrete Walls, 1 Coat Filler, Sprayed.....	0.45	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.26	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
For Backroll, Add	0.05	
09 91 23 00-0023 SF Paint Interior Concrete Walls, 1 Coat Paint, Sprayed.....	0.52	
For Oil Based Paint, Add	0.03	
For Epoxy Paint, Add	0.06	
For Up To 100, Add	0.32	
For >100 To 250, Add	0.15	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.10	
For Backroll, Add	0.07	
09 91 23 00-0024 SF Paint Interior Concrete Walls, 2 Coats Paint, Sprayed.....	0.83	
For Oil Based Paint, Add	0.05	
For Epoxy Paint, Add	0.11	
For Up To 100, Add	0.49	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.17	
For Backroll, Add	0.10	
09 91 23 00-0025 SF Paint Interior Concrete Walls, 1 Coat Bonding Agent, Brush Work.....	0.68	
For Up To 100, Add	0.43	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
09 91 23 00-0026 SF Paint Interior Concrete Walls, 1 Coat Bonding Agent, Brush/Roller Work.....	0.55	
For Up To 100, Add	0.33	
For >100 To 250, Add	0.16	
For >250 To 500, Add	0.07	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.11	
09 91 23 00-0027 SF Paint Interior Concrete Walls, 1 Coat Bonding Agent, Sprayed.....	0.47	
For Up To 100, Add	0.26	
For >100 To 250, Add	0.13	
For >250 To 500, Add	0.06	
For >2,500 To 5,000, Deduct	-0.02	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.07	
For >20,000, Deduct	-0.09	
For Backroll, Add	0.06	

09 91 23 00-0028 Paint Interior Concrete Block Walls (09 91 23 00-0001)

09 91 23 00-0029 Paint Interior Concrete Block Walls, Epoxy Paint (09 91 23 00-0028)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	09 91	23 00-0030	SF	Paint Interior Concrete Block Walls, 1 Coat Epoxy Filler, Brush Work.....	0.90	
				<i>For Up To 100, Add</i>	0.56	
				<i>For >100 To 250, Add</i>	0.27	
				<i>For >250 To 500, Add</i>	0.12	
				<i>For >2,500 To 5,000, Deduct</i>	-0.05	
				<i>For >5,000 To 10,000, Deduct</i>	-0.09	
				<i>For >10,000 To 20,000, Deduct</i>	-0.14	
				<i>For >20,000, Deduct</i>	-0.18	
	09 91	23 00-0031	SF	Paint Interior Concrete Block Walls, 1 Coat Epoxy Paint, Brush.....	1.04	
				<i>For Up To 100, Add</i>	0.67	
				<i>For >100 To 250, Add</i>	0.32	
				<i>For >250 To 500, Add</i>	0.14	
				<i>For >2,500 To 5,000, Deduct</i>	-0.05	
				<i>For >5,000 To 10,000, Deduct</i>	-0.10	
				<i>For >10,000 To 20,000, Deduct</i>	-0.16	
				<i>For >20,000, Deduct</i>	-0.21	
	09 91	23 00-0032	SF	Paint Interior Concrete Block Walls, 2 Coats Epoxy Paint, Brush Work.....	1.86	
				<i>For Up To 100, Add</i>	1.16	
				<i>For >100 To 250, Add</i>	0.55	
				<i>For >250 To 500, Add</i>	0.24	
				<i>For >2,500 To 5,000, Deduct</i>	-0.09	
				<i>For >5,000 To 10,000, Deduct</i>	-0.19	
				<i>For >10,000 To 20,000, Deduct</i>	-0.28	
				<i>For >20,000, Deduct</i>	-0.37	
	09 91	23 00-0033	SF	Paint Interior Concrete Block Walls, 1 Coat Epoxy Filler, Brush/Roller Work.....	0.73	
				<i>For Up To 100, Add</i>	0.43	
				<i>For >100 To 250, Add</i>	0.21	
				<i>For >250 To 500, Add</i>	0.09	
				<i>For >2,500 To 5,000, Deduct</i>	-0.04	
				<i>For >5,000 To 10,000, Deduct</i>	-0.07	
				<i>For >10,000 To 20,000, Deduct</i>	-0.11	
				<i>For >20,000, Deduct</i>	-0.15	
	09 91	23 00-0034	SF	Paint Interior Concrete Block Walls, 1 Coat Epoxy Paint, Brush/Roller Work.....	0.81	
				<i>For Up To 100, Add</i>	0.49	
				<i>For >100 To 250, Add</i>	0.24	
				<i>For >250 To 500, Add</i>	0.10	
				<i>For >2,500 To 5,000, Deduct</i>	-0.04	
				<i>For >5,000 To 10,000, Deduct</i>	-0.08	
				<i>For >10,000 To 20,000, Deduct</i>	-0.12	
				<i>For >20,000, Deduct</i>	-0.16	
	09 91	23 00-0035	SF	Paint Interior Concrete Block Walls, 2 Coats Epoxy Paint, Brush/Roller Work.....	1.54	
				<i>For Up To 100, Add</i>	0.92	
				<i>For >100 To 250, Add</i>	0.44	
				<i>For >250 To 500, Add</i>	0.19	
				<i>For >2,500 To 5,000, Deduct</i>	-0.08	
				<i>For >5,000 To 10,000, Deduct</i>	-0.15	
				<i>For >10,000 To 20,000, Deduct</i>	-0.23	
				<i>For >20,000, Deduct</i>	-0.31	
	09 91	23 00-0036	SF	Paint Interior Concrete Block Walls, 1 Coat Epoxy Filler, Sprayed.....	0.60	
				<i>For Up To 100, Add</i>	0.31	
				<i>For >100 To 250, Add</i>	0.15	
				<i>For >250 To 500, Add</i>	0.07	
				<i>For >2,500 To 5,000, Deduct</i>	-0.03	
				<i>For >5,000 To 10,000, Deduct</i>	-0.06	
				<i>For >10,000 To 20,000, Deduct</i>	-0.09	
				<i>For >20,000, Deduct</i>	-0.12	
				<i>For Backroll, Add</i>	0.07	
	09 91	23 00-0037	SF	Paint Interior Concrete Block Walls, 1 Coat Epoxy Paint, Sprayed.....	0.74	
				<i>For Up To 100, Add</i>	0.41	
				<i>For >100 To 250, Add</i>	0.20	
				<i>For >250 To 500, Add</i>	0.09	
				<i>For >2,500 To 5,000, Deduct</i>	-0.04	
				<i>For >5,000 To 10,000, Deduct</i>	-0.07	
				<i>For >10,000 To 20,000, Deduct</i>	-0.11	
				<i>For >20,000, Deduct</i>	-0.15	
				<i>For Backroll, Add</i>	0.09	
	09 91	23 00-0038	SF	Paint Interior Concrete Block Walls, 2 Coats Epoxy Paint, Sprayed.....	1.34	
				<i>For Up To 100, Add</i>	0.71	
				<i>For >100 To 250, Add</i>	0.34	
				<i>For >250 To 500, Add</i>	0.15	
				<i>For >2,500 To 5,000, Deduct</i>	-0.07	
				<i>For >5,000 To 10,000, Deduct</i>	-0.13	
				<i>For >10,000 To 20,000, Deduct</i>	-0.20	
				<i>For >20,000, Deduct</i>	-0.27	
				<i>For Backroll, Add</i>	0.15	
	09 91	23 00-0039		Paint Interior Concrete Block Walls, Acrylic Latex Paint (09 91 23 00-0028)	0.84	
	09 91	23 00-0040	SF	Paint Interior Concrete Block Walls, 1 Coat Filler, Brush Work.....	0.84	
				<i>For Oil Based Paint, Add</i>	0.05	
				<i>For Up To 100, Add</i>	0.55	
				<i>For >100 To 250, Add</i>	0.26	
				<i>For >250 To 500, Add</i>	0.11	
				<i>For >2,500 To 5,000, Deduct</i>	-0.04	
				<i>For >5,000 To 10,000, Deduct</i>	-0.08	
				<i>For >10,000 To 20,000, Deduct</i>	-0.13	
				<i>For >20,000, Deduct</i>	-0.17	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0041	SF		Paint Interior Concrete Block Walls, 1 Coat Paint, Brush Work.....	0.99	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.64	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
09 91 23 00-0042	SF		Paint Interior Concrete Block Walls, 2 Coats Paint, Brush Work.....	1.80	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Up To 100, Add</i>	1.14	
			<i>For >100 To 250, Add</i>	0.54	
			<i>For >250 To 500, Add</i>	0.24	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.18	
			<i>For >10,000 To 20,000, Deduct</i>	-0.27	
			<i>For >20,000, Deduct</i>	-0.36	
09 91 23 00-0043	SF		Paint Interior Concrete Block Walls, Texture Coat, Brush Work.....	1.09	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.70	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.22	
09 91 23 00-0044	SF		Paint Interior Concrete Block Walls, 1 Coat Filler, Brush/Roller Work.....	0.71	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Up To 100, Add</i>	0.45	
			<i>For >100 To 250, Add</i>	0.22	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.14	
09 91 23 00-0045	SF		Paint Interior Concrete Block Walls, 1 Coat Paint, Brush/Roller Work.....	0.83	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Up To 100, Add</i>	0.52	
			<i>For >100 To 250, Add</i>	0.25	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.17	
09 91 23 00-0046	SF		Paint Interior Concrete Block Walls, 2 Coats Paint, Brush/Roller Work.....	1.50	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Up To 100, Add</i>	0.92	
			<i>For >100 To 250, Add</i>	0.44	
			<i>For >250 To 500, Add</i>	0.19	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.23	
			<i>For >20,000, Deduct</i>	-0.30	
09 91 23 00-0047	SF		Paint Interior Concrete Block Walls, Texture Coat, Brush/Roller Work.....	0.93	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.58	
			<i>For >100 To 250, Add</i>	0.28	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.19	
09 91 23 00-0048	SF		Paint Interior Concrete Block Walls, 1 Coat Filler, Sprayed.....	0.62	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Up To 100, Add</i>	0.36	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.08	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
			<i>For Backroll, Add</i>	0.08	
09 91 23 00-0049	SF		Paint Interior Concrete Block Walls, 1 Coat Paint, Sprayed.....	0.72	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Up To 100, Add</i>	0.41	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.14	
			<i>For Backroll, Add</i>	0.09	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0050	SF		Paint Interior Concrete Block Walls, 2 Coats Paint, Sprayed.....	1.02	
			For Oil Based Paint, Add	0.06	
			For Up To 100, Add	0.61	
			For >100 To 250, Add	0.29	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
			For Backroll, Add	0.13	
09 91 23 00-0051	SF		Paint Interior Concrete Block Walls, Texture Coat, Sprayed.....	0.84	
			For Oil Based Paint, Add	0.06	
			For Up To 100, Add	0.47	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
			For Backroll, Add	0.10	
09 91 23 00-0052			Paint Interior Concrete Block Walls With Bonding Agent (09 91 23 00-0028)		
09 91 23 00-0053	SF		Paint Interior Concrete Block Walls, 1 Coat Bonding Agent, Brush.....	0.86	
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 23 00-0054	SF		Paint Interior Concrete Block Walls, 1 Coat Bonding Agent, Brush/Roller Work.....	0.73	
			For Up To 100, Add	0.46	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 23 00-0055	SF		Paint Interior Concrete Block Walls, 1 Coat Bonding Agent, Sprayed.....	0.65	
			For Up To 100, Add	0.37	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
			For Backroll, Add	0.08	
09 91 23 00-0056			Paint Interior Plaster/Drywall Walls (09 91 23 00-0001)		
09 91 23 00-0057			Paint Interior Plaster/Drywall Walls (09 91 23 00-0056)		
09 91 23 00-0058	SF		Paint Interior Plaster/Drywall Walls, 1 Coat Primer, Brush Work.....	0.69	
			For Oil Based Paint, Add	0.04	
			For Orange Peel Finish, Add	0.10	
			For Epoxy Paint, Add	0.07	
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 23 00-0059	SF		Paint Interior Plaster/Drywall Walls, 1 Coat Paint, Brush Work.....	0.73	
			For Oil Based Paint, Add	0.04	
			For Orange Peel Finish, Add	0.10	
			For Epoxy Paint, Add	0.06	
			For Each Coat With Egg Shell Finish, Add	0.01	
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 91 23 00-0060	SF Paint Interior Plaster/Drywall Walls, 2 Coats Paint, Brush Work	1.32	
	For Oil Based Paint, Add	0.07	
	For Orange Peel Finish, Add	0.19	
	For Epoxy Paint, Add	0.12	
	For Each Coat With Egg Shell Finish, Add	0.01	
	For Up To 100, Add	0.89	
	For >100 To 250, Add	0.42	
	For >250 To 500, Add	0.18	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.13	
	For >10,000 To 20,000, Deduct	-0.20	
	For >20,000, Deduct	-0.26	
09 91 23 00-0061	SF Paint Interior Plaster/Drywall Walls, 3 Coats Paint, Brush	1.88	
	For Oil Based Paint, Add	0.11	
	For Orange Peel Finish, Add	0.27	
	For Epoxy Paint, Add	0.17	
	For Each Coat With Egg Shell Finish, Add	0.01	
	For Up To 100, Add	1.25	
	For >100 To 250, Add	0.59	
	For >250 To 500, Add	0.26	
	For >2,500 To 5,000, Deduct	-0.09	
	For >5,000 To 10,000, Deduct	-0.19	
	For >10,000 To 20,000, Deduct	-0.28	
	For >20,000, Deduct	-0.38	
09 91 23 00-0062	SF Paint Interior Plaster/Drywall Walls, 1 Coat Primer, Brush/Roller Work	0.54	
	For Oil Based Paint, Add	0.03	
	For Orange Peel Finish, Add	0.07	
	For Epoxy Paint, Add	0.06	
	For Up To 100, Add	0.34	
	For >100 To 250, Add	0.16	
	For >250 To 500, Add	0.07	
	For >2,500 To 5,000, Deduct	-0.03	
	For >5,000 To 10,000, Deduct	-0.05	
	For >10,000 To 20,000, Deduct	-0.08	
	For >20,000, Deduct	-0.11	
09 91 23 00-0063	SF Paint Interior Plaster/Drywall Walls, 1 Coat Paint, Brush/Roller Work	0.62	
	For Oil Based Paint, Add	0.04	
	For Orange Peel Finish, Add	0.09	
	For Epoxy Paint, Add	0.06	
	For Each Coat With Egg Shell Finish, Add	0.01	
	For Up To 100, Add	0.41	
	For >100 To 250, Add	0.19	
	For >250 To 500, Add	0.08	
	For >2,500 To 5,000, Deduct	-0.03	
	For >5,000 To 10,000, Deduct	-0.06	
	For >10,000 To 20,000, Deduct	-0.09	
	For >20,000, Deduct	-0.12	
09 91 23 00-0064	SF Paint Interior Plaster/Drywall Walls, 2 Coats Paint, Brush/Roller Work	1.08	
	For Oil Based Paint, Add	0.06	
	For Orange Peel Finish, Add	0.15	
	For Epoxy Paint, Add	0.11	
	For Each Coat With Egg Shell Finish, Add	0.01	
	For Up To 100, Add	0.70	
	For >100 To 250, Add	0.33	
	For >250 To 500, Add	0.14	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.16	
	For >20,000, Deduct	-0.22	
09 91 23 00-0065	SF Paint Interior Plaster/Drywall Walls, 1 Coat Primer, Sprayed	0.44	
	For Oil Based Paint, Add	0.03	
	For Epoxy Paint, Add	0.06	
	For Up To 100, Add	0.25	
	For >100 To 250, Add	0.12	
	For >250 To 500, Add	0.05	
	For >2,500 To 5,000, Deduct	-0.02	
	For >5,000 To 10,000, Deduct	-0.04	
	For >10,000 To 20,000, Deduct	-0.07	
	For >20,000, Deduct	-0.09	
	For Backroll, Add	0.05	
09 91 23 00-0066	SF Paint Interior Plaster/Drywall Walls, 1 Coat Paint, Sprayed	0.52	
	For Oil Based Paint, Add	0.03	
	For Epoxy Paint, Add	0.06	
	For Each Coat With Egg Shell Finish, Add	0.01	
	For Up To 100, Add	0.32	
	For >100 To 250, Add	0.15	
	For >250 To 500, Add	0.07	
	For >2,500 To 5,000, Deduct	-0.03	
	For >5,000 To 10,000, Deduct	-0.05	
	For >10,000 To 20,000, Deduct	-0.08	
	For >20,000, Deduct	-0.10	
	For Backroll, Add	0.07	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0067	SF		Paint Interior Plaster/Drywall Walls, 2 Coats Paint, Sprayed	0.83	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.11	
			For Each Coat With Egg Shell Finish, Add	0.01	
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.17	
			For Backroll, Add	0.10	
09 91 23 00-0068			Paint Interior Plaster/Drywall Or Masonry Walls With Polymix Multi-Color Paint (09 91 23 00-0056)		
09 91 23 00-0069	SF		Paint Interior Plaster/Drywall Or Masonry Walls, 2 Tone Polymix With Base Coat, Sprayed.....	1.36	
			For Up To 100, Add	0.63	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.14	
			For >10,000 To 20,000, Deduct	-0.20	
			For >20,000, Deduct	-0.27	
09 91 23 00-0070	SF		Paint Interior Plaster/Drywall Or Masonry Walls, 3 Tone Polymix With Base Coat, Sprayed.....	1.47	
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.32	
			For >250 To 500, Add	0.14	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	
09 91 23 00-0071	SF		Paint Interior Plaster/Drywall Or Masonry Walls, 4 Tone Polymix With Base Coat, Sprayed.....	1.57	
			For Up To 100, Add	0.66	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.16	
			For >10,000 To 20,000, Deduct	-0.24	
			For >20,000, Deduct	-0.31	
09 91 23 00-0072			Paint Interior Plaster/Drywall Walls, Acoustic Texture (09 91 23 00-0056)		
09 91 23 00-0073	SF		Paint Interior Plaster/Drywall Walls, Acoustic Texture, 1 Coat Primer, Sprayed	0.57	
			For Up To 100, Add	0.33	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.11	
09 91 23 00-0074	SF		Paint Interior Plaster/Drywall Walls, Acoustic Texture, 1 Coat Finish, Sprayed	0.68	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
09 91 23 00-0075	SF		Paint Interior Plaster/Drywall Walls, Acoustic Texture, 2 Coats Finish, Sprayed	1.06	
			For Up To 100, Add	0.59	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.16	
			For >20,000, Deduct	-0.21	
09 91 23 00-0076	SF		Paint Interior Plaster/Drywall Walls, Stipple Finish (Drippowder)	1.12	
			For Up To 100, Add	0.80	
			For >100 To 250, Add	0.37	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.22	
09 91 23 00-0077			Paint Interior Metal Walls (09 91 23 00-0001)		
09 91 23 00-0078			Paint Interior Galvanized Walls (09 91 23 00-0077)		
			Note: Linseed oil or acrylic latex paint.		

09	Finishes
09 90	Painting And Coating
09 91	Painting



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0079 SF Paint Interior Galvanized Wall Surfaces, 1 Coat Primer, Brush Work.....	0.84	
For Electrostatic Painting, Add	0.11	
For Up To 100, Add	0.51	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 23 00-0080 SF Paint Interior Galvanized Wall Surfaces, 1 Coat Paint, Brush Work.....	0.93	
For Electrostatic Painting, Add	0.12	
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 23 00-0081 SF Paint Interior Galvanized Wall Surfaces, 2 Coats Paint, Brush Work.....	1.69	
For Electrostatic Painting, Add	0.23	
For Up To 100, Add	1.02	
For >100 To 250, Add	0.49	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.17	
For >10,000 To 20,000, Deduct	-0.25	
For >20,000, Deduct	-0.34	
09 91 23 00-0082 SF Paint Interior Galvanized Walls, 1 Coat Primer, Brush/Roller Work.....	0.63	
For Electrostatic Painting, Add	0.09	
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.13	
09 91 23 00-0083 SF Paint Interior Galvanized Wall , 1 Coat Paint, Brush/Roller Work.....	0.73	
For Electrostatic Painting, Add	0.10	
For Up To 100, Add	0.44	
For >100 To 250, Add	0.21	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
09 91 23 00-0084 SF Paint Interior Galvanized Walls, 2 Coats Paint, Brush/Roller Work.....	1.35	
For Electrostatic Painting, Add	0.19	
For Up To 100, Add	0.80	
For >100 To 250, Add	0.38	
For >250 To 500, Add	0.17	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.14	
For >10,000 To 20,000, Deduct	-0.20	
For >20,000, Deduct	-0.27	
09 91 23 00-0085 SF Paint Interior Galvanized Walls, 1 Coat Primer, Sprayed.....	0.52	
For Electrostatic Painting, Add	0.09	
For Up To 100, Add	0.25	
For >100 To 250, Add	0.12	
For >250 To 500, Add	0.05	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.05	
For >10,000 To 20,000, Deduct	-0.08	
For >20,000, Deduct	-0.10	
For Backroll, Add	0.05	
09 91 23 00-0086 SF Paint Interior Galvanized Walls, 1 Coat Paint, Sprayed.....	0.69	
For Electrostatic Painting, Add	0.11	
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
For Backroll, Add	0.08	
09 91 23 00-0087 SF Paint Interior Galvanized Walls, 2 Coats Paint, Sprayed.....	1.14	
For Electrostatic Painting, Add	0.18	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.11	
For >10,000 To 20,000, Deduct	-0.17	
For >20,000, Deduct	-0.23	
For Backroll, Add	0.12	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 91 23 00-0088			Paint Interior Aluminum And Aluminum Alloy Walls (09 91 23 00-0077) Note: Alkyd enamel paint.		
09 91 23 00-0089	SF		Paint Interior Aluminum And Aluminum Alloy Wall Surfaces, 1 Coat Primer, Brush Work	0.84	
			For Electrostatic Painting, Add	0.11	
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.13	
			For >20,000, Deduct	-0.17	
09 91 23 00-0090	SF		Paint Interior Aluminum And Aluminum Alloy Wall Surfaces, 1 Coat Paint, Brush Work	0.93	
			For Electrostatic Painting, Add	0.12	
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 23 00-0091	SF		Paint Interior Aluminum And Aluminum Alloy Wall Surfaces, 2 Coats Paint, Brush Work	1.68	
			For Electrostatic Painting, Add	0.23	
			For Up To 100, Add	1.01	
			For >100 To 250, Add	0.49	
			For >250 To 500, Add	0.21	
			For >2,500 To 5,000, Deduct	-0.08	
			For >5,000 To 10,000, Deduct	-0.17	
			For >10,000 To 20,000, Deduct	-0.25	
			For >20,000, Deduct	-0.34	
09 91 23 00-0092	SF		Paint Interior Aluminum And Aluminum Alloy Walls, 1 Coat Primer, Brush/Roller Work	0.70	
			For Electrostatic Painting, Add	0.11	
			For Up To 100, Add	0.38	
			For >100 To 250, Add	0.19	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 23 00-0093	SF		Paint Interior Aluminum And Aluminum Alloy Walls, 1 Coat Paint, Brush/Roller Work	0.79	
			For Electrostatic Painting, Add	0.12	
			For Up To 100, Add	0.45	
			For >100 To 250, Add	0.22	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 23 00-0094	SF		Paint Interior Aluminum And Aluminum Alloy Walls, 2 Coats Paint, Brush/Roller Work	1.46	
			For Electrostatic Painting, Add	0.22	
			For Up To 100, Add	0.81	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	
09 91 23 00-0095	SF		Paint Interior Aluminum And Aluminum Alloy Walls, 1 Coat Primer, Sprayed	0.58	
			For Electrostatic Painting, Add	0.09	
			For Up To 100, Add	0.29	
			For >100 To 250, Add	0.14	
			For >250 To 500, Add	0.06	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
			For Backroll, Add	0.06	
09 91 23 00-0096	SF		Paint Interior Aluminum And Aluminum Alloy Walls, 1 Coat Paint, Sprayed	0.69	
			For Electrostatic Painting, Add	0.11	
			For Up To 100, Add	0.37	
			For >100 To 250, Add	0.18	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
			For Backroll, Add	0.08	
09 91 23 00-0097	SF		Paint Interior Aluminum And Aluminum Alloy Walls, 2 Coats Paint, Sprayed	1.14	
			For Electrostatic Painting, Add	0.18	
			For Up To 100, Add	0.57	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
			For Backroll, Add	0.12	

09 Finishes**09 90 Painting And Coating****09 91 Painting**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

09 91 23 00-0098	Paint Interior Corrugated Metal Walls (09 91 23 00-0077)		
09 91 23 00-0099	SF Paint Interior Corrugated Metal Walls, 1 Coat Primer, Sprayed	0.64	
	For Electrostatic Painting, Add	0.10	
	For Up To 100, Add	0.32	
	For >100 To 250, Add	0.16	
	For >250 To 500, Add	0.07	
	For >2,500 To 5,000, Deduct	-0.03	
	For >5,000 To 10,000, Deduct	-0.06	
	For >10,000 To 20,000, Deduct	-0.10	
	For >20,000, Deduct	-0.13	
	For Backroll, Add	0.07	
09 91 23 00-0100	SF Paint Interior Corrugated Metal Walls, 1 Coat Paint, Sprayed	0.87	
	For Electrostatic Painting, Add	0.13	
	For Up To 100, Add	0.49	
	For >100 To 250, Add	0.24	
	For >250 To 500, Add	0.10	
	For >2,500 To 5,000, Deduct	-0.04	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.13	
	For >20,000, Deduct	-0.17	
	For Backroll, Add	0.10	
09 91 23 00-0101	SF Paint Interior Corrugated Metal Walls, 2 Coats Paint, Sprayed	1.44	
	For Electrostatic Painting, Add	0.23	
	For Up To 100, Add	0.75	
	For >100 To 250, Add	0.37	
	For >250 To 500, Add	0.16	
	For >2,500 To 5,000, Deduct	-0.07	
	For >5,000 To 10,000, Deduct	-0.14	
	For >10,000 To 20,000, Deduct	-0.22	
	For >20,000, Deduct	-0.29	
	For Backroll, Add	0.16	
09 91 23 00-0102	Paint Interior Stucco Walls (09 91 23 00-0001)		
09 91 23 00-0103	SF Paint Interior Stucco Wall Surfaces, 1 Coat Primer, Brush Work	1.12	
	For Oil Based Paint, Add	0.06	
	For Up To 100, Add	0.76	
	For >100 To 250, Add	0.36	
	For >250 To 500, Add	0.16	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.11	
	For >10,000 To 20,000, Deduct	-0.17	
	For >20,000, Deduct	-0.22	
09 91 23 00-0104	SF Paint Interior Stucco Wall Surfaces, 1 Coat Paint, Brush Work	1.23	
	For Oil Based Paint, Add	0.07	
	For Up To 100, Add	0.83	
	For >100 To 250, Add	0.39	
	For >250 To 500, Add	0.17	
	For >2,500 To 5,000, Deduct	-0.06	
	For >5,000 To 10,000, Deduct	-0.12	
	For >10,000 To 20,000, Deduct	-0.18	
	For >20,000, Deduct	-0.25	
09 91 23 00-0105	SF Paint Interior Stucco Wall Surfaces, 2 Coats Paint, Brush Work	2.18	
	For Oil Based Paint, Add	0.12	
	For Up To 100, Add	1.46	
	For >100 To 250, Add	0.69	
	For >250 To 500, Add	0.30	
	For >2,500 To 5,000, Deduct	-0.11	
	For >5,000 To 10,000, Deduct	-0.22	
	For >10,000 To 20,000, Deduct	-0.33	
	For >20,000, Deduct	-0.44	
09 91 23 00-0106	SF Paint Interior Stucco Wall Surfaces, 1 Coat Primer, Brush/Roller Work	0.85	
	For Oil Based Paint, Add	0.05	
	For Up To 100, Add	0.56	
	For >100 To 250, Add	0.27	
	For >250 To 500, Add	0.11	
	For >2,500 To 5,000, Deduct	-0.04	
	For >5,000 To 10,000, Deduct	-0.09	
	For >10,000 To 20,000, Deduct	-0.13	
	For >20,000, Deduct	-0.17	
09 91 23 00-0107	SF Paint Interior Stucco Wall Surfaces, 1 Coat Paint, Brush/Roller Work	0.96	
	For Oil Based Paint, Add	0.06	
	For Up To 100, Add	0.63	
	For >100 To 250, Add	0.30	
	For >250 To 500, Add	0.13	
	For >2,500 To 5,000, Deduct	-0.05	
	For >5,000 To 10,000, Deduct	-0.10	
	For >10,000 To 20,000, Deduct	-0.14	
	For >20,000, Deduct	-0.19	



Finishes	09	2
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0108 SF Paint Interior Stucco Wall Surfaces, 2 Coats Paint, Brush/Roller Work	1.76	
For Oil Based Paint, Add	0.10	
For Up To 100, Add	1.14	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.18	
For >10,000 To 20,000, Deduct	-0.26	
For >20,000, Deduct	-0.35	
09 91 23 00-0109 SF Paint Interior Stucco Wall Surfaces, 1 Coat Primer, Sprayed	0.61	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	
For Backroll, Add	0.08	
09 91 23 00-0110 SF Paint Interior Stucco Wall Surfaces, 1 Coat Paint, Sprayed	0.75	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.11	
For >20,000, Deduct	-0.15	
For Backroll, Add	0.09	
09 91 23 00-0111 SF Paint Interior Stucco Wall Surfaces, 2 Coats Paint, Sprayed	1.48	
For Oil Based Paint, Add	0.09	
For Up To 100, Add	0.90	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.30	
For Backroll, Add	0.19	
09 91 23 00-0112 Paint Interior Wood Walls (09 91 23 00-0001)		
09 91 23 00-0113 Interior Wood Walls (09 91 23 00-0112)		
09 91 23 00-0114 SF Paint Interior Wood Wall Surfaces, 1 Coat Paint, Brush Work	0.85	
For Oil Based Paint, Add	0.05	
For Up To 100, Add	0.57	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.13	
For >20,000, Deduct	-0.17	
09 91 23 00-0115 SF Paint Interior Wood Wall Surfaces, 2 Coats Paint, Brush Work	1.54	
For Oil Based Paint, Add	0.09	
For Up To 100, Add	1.02	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
For >2,500 To 5,000, Deduct	-0.08	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.23	
For >20,000, Deduct	-0.31	
09 91 23 00-0116 SF Paint Interior Wood Wall Surfaces, 3 Coats Paint, Brush Work	2.18	
For Oil Based Paint, Add	0.13	
For Up To 100, Add	1.44	
For >100 To 250, Add	0.68	
For >250 To 500, Add	0.30	
For >2,500 To 5,000, Deduct	-0.11	
For >5,000 To 10,000, Deduct	-0.22	
For >10,000 To 20,000, Deduct	-0.33	
For >20,000, Deduct	-0.44	
09 91 23 00-0117 SF Paint Interior Wood Wall Surfaces, 1 Coat Primer, Brush/Roller Work	0.60	
For Oil Based Paint, Add	0.04	
For Up To 100, Add	0.38	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.06	
For >10,000 To 20,000, Deduct	-0.09	
For >20,000, Deduct	-0.12	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0118	SF		Paint Interior Wood Wall Surfaces, 1 Coat Paint, Brush/Roller Work.....	0.68	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Up To 100, Add</i>	0.44	
			<i>For >100 To 250, Add</i>	0.21	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.14	
09 91 23 00-0119	SF		Paint Interior Wood Wall Surfaces, 2 Coats Paint, Brush/Roller Work.....	1.20	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Up To 100, Add</i>	0.77	
			<i>For >100 To 250, Add</i>	0.37	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.12	
			<i>For >10,000 To 20,000, Deduct</i>	-0.18	
			<i>For >20,000, Deduct</i>	-0.24	
09 91 23 00-0120	SF		Paint Interior Wood Wall Surfaces, 1 Coat Primer, Sprayed.....	0.44	
			<i>For Oil Based Paint, Add</i>	0.03	
			<i>For Up To 100, Add</i>	0.25	
			<i>For >100 To 250, Add</i>	0.12	
			<i>For >250 To 500, Add</i>	0.05	
			<i>For >2,500 To 5,000, Deduct</i>	-0.02	
			<i>For >5,000 To 10,000, Deduct</i>	-0.04	
			<i>For >10,000 To 20,000, Deduct</i>	-0.07	
			<i>For >20,000, Deduct</i>	-0.09	
			<i>For Backroll, Add</i>	0.05	
09 91 23 00-0121	SF		Paint Interior Wood Wall Surfaces, 1 Coat Paint, Sprayed.....	0.56	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Up To 100, Add</i>	0.33	
			<i>For >100 To 250, Add</i>	0.16	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.08	
			<i>For >20,000, Deduct</i>	-0.11	
			<i>For Backroll, Add</i>	0.07	
09 91 23 00-0122	SF		Paint Interior Wood Wall Surfaces, 2 Coats Paint, Sprayed.....	1.01	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Up To 100, Add</i>	0.58	
			<i>For >100 To 250, Add</i>	0.28	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
			<i>For Backroll, Add</i>	0.12	
09 91 23 00-0123			Paint Interior Ceilings (09 91 23)		
09 91 23 00-0124			Paint Interior Acoustical Ceilings (09 91 23 00-0123)		
			Note: Includes grid.		
09 91 23 00-0125	SF		Paint Interior Acoustical Ceiling, 1 Coat Primer, Brush Work.....	0.75	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Up To 100, Add</i>	0.50	
			<i>For >100 To 250, Add</i>	0.24	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.15	
09 91 23 00-0126	SF		Paint Interior Acoustical Ceiling, 1 Coat Paint, Brush Work.....	0.82	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Up To 100, Add</i>	0.56	
			<i>For >100 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 23 00-0127	SF		Paint Interior Acoustical Ceiling, 2 Coats Paint, Brush Work.....	1.45	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Up To 100, Add</i>	0.99	
			<i>For >100 To 250, Add</i>	0.47	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.29	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0128	SF		Paint Interior Acoustical Ceiling, 1 Coat Primer, Brush/Roller Work	0.64	
			For Oil Based Paint, Add	0.04	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 23 00-0129	SF		Paint Interior Acoustical Ceiling, 1 Coat Paint, Brush/Roller Work	0.64	
			For Oil Based Paint, Add	0.04	
			For Up To 100, Add	0.43	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 23 00-0130	SF		Paint Interior Acoustical Ceiling, 2 Coats Paint, Brush/Roller Work	1.16	
			For Oil Based Paint, Add	0.07	
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
09 91 23 00-0131	SF		Paint Interior Acoustical Ceiling, 1 Coat Primer, Sprayed	0.57	
			For Oil Based Paint, Add	0.04	
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.11	
			For Backroll, Add	0.07	
09 91 23 00-0132	SF		Paint Interior Acoustical Ceiling, 1 Coat Paint, Sprayed	0.56	
			For Oil Based Paint, Add	0.03	
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
			For Backroll, Add	0.07	
09 91 23 00-0133	SF		Paint Interior Acoustical Ceiling, 2 Coats Paint, Sprayed	0.90	
			For Oil Based Paint, Add	0.06	
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
			For Backroll, Add	0.11	
09 91 23 00-0134			Paint Interior Concrete Ceilings (09 91 23 00-0123)		
09 91 23 00-0135	SF		Paint Interior Concrete Ceiling, 1 Coat Filler, Brush Work	0.74	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.07	
			For Up To 100, Add	0.49	
			For >100 To 250, Add	0.23	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 23 00-0136	SF		Paint Interior Concrete Ceiling, 1 Coat Paint, Brush Work	0.82	
			For Oil Based Paint, Add	0.05	
			For Epoxy Paint, Add	0.07	
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0137	SF		Paint Interior Concrete Ceiling, 2 Coats Paint, Brush Work	1.44	
			<i>For Oil Based Paint, Add</i>	0.08	
			<i>For Epoxy Paint, Add</i>	0.12	
			<i>For Up To 100, Add</i>	0.98	
			<i>For >100 To 250, Add</i>	0.46	
			<i>For >250 To 500, Add</i>	0.20	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.14	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.29	
09 91 23 00-0138	SF		Paint Interior Concrete Ceiling, 1 Coat Filler, Brush/Roller Work	0.57	
			<i>For Oil Based Paint, Add</i>	0.03	
			<i>For Epoxy Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.36	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.11	
09 91 23 00-0139	SF		Paint Interior Concrete Ceiling, 1 Coat Paint, Brush/Roller Work	0.64	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Epoxy Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.43	
			<i>For >100 To 250, Add</i>	0.20	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.13	
09 91 23 00-0140	SF		Paint Interior Concrete Ceiling, 2 Coats Paint, Brush/Roller Work	1.17	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Epoxy Paint, Add</i>	0.11	
			<i>For Up To 100, Add</i>	0.78	
			<i>For >100 To 250, Add</i>	0.37	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For >2,500 To 5,000, Deduct</i>	-0.06	
			<i>For >5,000 To 10,000, Deduct</i>	-0.12	
			<i>For >10,000 To 20,000, Deduct</i>	-0.18	
			<i>For >20,000, Deduct</i>	-0.23	
09 91 23 00-0141	SF		Paint Interior Concrete Ceiling, 1 Coat Filler, Sprayed	0.54	
			<i>For Oil Based Paint, Add</i>	0.03	
			<i>For Epoxy Paint, Add</i>	0.07	
			<i>For Up To 100, Add</i>	0.33	
			<i>For >100 To 250, Add</i>	0.16	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.05	
			<i>For >10,000 To 20,000, Deduct</i>	-0.08	
			<i>For >20,000, Deduct</i>	-0.11	
			<i>For Backroll, Add</i>	0.07	
09 91 23 00-0142	SF		Paint Interior Concrete Ceiling, 1 Coat Paint, Sprayed	0.56	
			<i>For Oil Based Paint, Add</i>	0.03	
			<i>For Epoxy Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.35	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.08	
			<i>For >20,000, Deduct</i>	-0.11	
			<i>For Backroll, Add</i>	0.07	
09 91 23 00-0143	SF		Paint Interior Concrete Ceiling, 2 Coats Paint, Sprayed	0.89	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Epoxy Paint, Add</i>	0.11	
			<i>For Up To 100, Add</i>	0.54	
			<i>For >100 To 250, Add</i>	0.26	
			<i>For >250 To 500, Add</i>	0.11	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.13	
			<i>For >20,000, Deduct</i>	-0.18	
			<i>For Backroll, Add</i>	0.11	
09 91 23 00-0144	SF		Paint Interior Concrete Ceiling, 1 Coat Bonding Agent, Brush Work	0.76	
			<i>For Up To 100, Add</i>	0.49	
			<i>For >100 To 250, Add</i>	0.23	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.15	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0145	SF		Paint Interior Concrete Ceiling, 1 Coat Bonding Agent, Brush/Roller.....	0.59	
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.08	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.12	
09 91 23 00-0146	SF		Paint Interior Concrete Ceiling, 1 Coat Bonding Agent, Sprayed.....	0.56	
			For Up To 100, Add	0.33	
			For >100 To 250, Add	0.16	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
			For Backroll, Add	0.07	
09 91 23 00-0147			Paint Interior Drywall/Plaster Ceilings (09 91 23 00-0123)		
09 91 23 00-0148	SF		Paint Interior Drywall/Plaster Ceiling, 1 Coat Primer, Brush Work.....	0.75	
			For Epoxy Paint, Add	0.07	
			For Oil Based Paint, Add	0.04	
			For Orange Peel Finish, Add	0.11	
			For Up To 100, Add	0.50	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.15	
09 91 23 00-0149	SF		Paint Interior Drywall/Plaster Ceiling, 1 Coat Paint, Brush Work.....	0.82	
			For Epoxy Paint, Add	0.07	
			For Oil Based Paint, Add	0.05	
			For Orange Peel Finish, Add	0.12	
			For Up To 100, Add	0.56	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	
09 91 23 00-0150	SF		Paint Interior Drywall/Plaster Ceiling, 2 Coats Paint, Brush Work.....	1.45	
			For Epoxy Paint, Add	0.12	
			For Oil Based Paint, Add	0.08	
			For Orange Peel Finish, Add	0.21	
			For Up To 100, Add	0.99	
			For >100 To 250, Add	0.47	
			For >250 To 500, Add	0.20	
			For >2,500 To 5,000, Deduct	-0.07	
			For >5,000 To 10,000, Deduct	-0.15	
			For >10,000 To 20,000, Deduct	-0.22	
			For >20,000, Deduct	-0.29	
09 91 23 00-0151	SF		Paint Interior Drywall/Plaster Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.64	
			For Epoxy Paint, Add	0.07	
			For Oil Based Paint, Add	0.04	
			For Orange Peel Finish, Add	0.09	
			For Up To 100, Add	0.41	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 23 00-0152	SF		Paint Interior Drywall/Plaster Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.64	
			For Epoxy Paint, Add	0.06	
			For Oil Based Paint, Add	0.04	
			For Orange Peel Finish, Add	0.09	
			For Up To 100, Add	0.43	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 23 00-0153	SF		Paint Interior Drywall/Plaster Ceiling, 2 Coats Paint, Brush/Roller Work.....	1.16	
			For Epoxy Paint, Add	0.11	
			For Oil Based Paint, Add	0.07	
			For Orange Peel Finish, Add	0.16	
			For Up To 100, Add	0.77	
			For >100 To 250, Add	0.36	
			For >250 To 500, Add	0.16	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0154	SF		Paint Interior Drywall/Plaster Ceiling, 1 Coat Primer, Sprayed.....	0.57	
			For Epoxy Paint, Add	0.07	
			For Oil Based Paint, Add	0.04	
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.11	
			For Backroll, Add	0.07	
09 91 23 00-0155	SF		Paint Interior Drywall/Plaster Ceiling, 1 Coat Paint, Sprayed.....	0.56	
			For Epoxy Paint, Add	0.06	
			For Oil Based Paint, Add	0.03	
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
			For Backroll, Add	0.07	
09 91 23 00-0156	SF		Paint Interior Drywall/Plaster Ceiling, 2 Coats Paint, Sprayed.....	0.90	
			For Epoxy Paint, Add	0.11	
			For Oil Based Paint, Add	0.06	
			For Up To 100, Add	0.54	
			For >100 To 250, Add	0.26	
			For >250 To 500, Add	0.11	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.18	
			For Backroll, Add	0.11	
09 91 23 00-0157			Paint Interior Metal Ceilings (09 91 23 00-0123)		
09 91 23 00-0158			Galvanized Surfaces, Galvanized Primer (09 91 23 00-0157)		
			Note: Linseed oil or acrylic latex paint.		
09 91 23 00-0159	SF		Paint Interior Galvanized Ceiling, 1 Coat Primer, Brush Work.....	0.93	
			For Electrostatic Painting, Add	0.12	
			For Up To 100, Add	0.58	
			For >100 To 250, Add	0.28	
			For >250 To 500, Add	0.12	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.09	
			For >10,000 To 20,000, Deduct	-0.14	
			For >20,000, Deduct	-0.19	
09 91 23 00-0160	SF		Paint Interior Galvanized Ceiling, 1 Coat Paint, Brush Work.....	1.02	
			For Electrostatic Painting, Add	0.13	
			For Up To 100, Add	0.65	
			For >100 To 250, Add	0.31	
			For >250 To 500, Add	0.13	
			For >2,500 To 5,000, Deduct	-0.05	
			For >5,000 To 10,000, Deduct	-0.10	
			For >10,000 To 20,000, Deduct	-0.15	
			For >20,000, Deduct	-0.20	
09 91 23 00-0161	SF		Paint Interior Galvanized Ceiling, 2 Coats Paint, Brush Work.....	1.86	
			For Electrostatic Painting, Add	0.25	
			For Up To 100, Add	1.15	
			For >100 To 250, Add	0.55	
			For >250 To 500, Add	0.24	
			For >2,500 To 5,000, Deduct	-0.09	
			For >5,000 To 10,000, Deduct	-0.19	
			For >10,000 To 20,000, Deduct	-0.28	
			For >20,000, Deduct	-0.37	
09 91 23 00-0162	SF		Paint Interior Galvanized Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.72	
			For Electrostatic Painting, Add	0.10	
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.11	
			For >20,000, Deduct	-0.14	
09 91 23 00-0163	SF		Paint Interior Galvanized Ceiling, 1 Coat Paint, Brush/Roller Work.....	0.81	
			For Electrostatic Painting, Add	0.11	
			For Up To 100, Add	0.51	
			For >100 To 250, Add	0.24	
			For >250 To 500, Add	0.10	
			For >2,500 To 5,000, Deduct	-0.04	
			For >5,000 To 10,000, Deduct	-0.08	
			For >10,000 To 20,000, Deduct	-0.12	
			For >20,000, Deduct	-0.16	



Finishes	09	
Painting And Coating	09 90	9
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0164 SF Paint Interior Galvanized Ceiling, 2 Coats Paint, Brush/Roller Work	1.49	
For Electrostatic Painting, Add	0.20	
For Up To 100, Add	0.91	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
For >2,500 To 5,000, Deduct	-0.07	
For >5,000 To 10,000, Deduct	-0.15	
For >10,000 To 20,000, Deduct	-0.22	
For >20,000, Deduct	-0.30	
09 91 23 00-0165 SF Paint Interior Galvanized Ceiling, 1 Coat Primer, Sprayed.....	0.69	
For Electrostatic Painting, Add	0.11	
For Up To 100, Add	0.37	
For >100 To 250, Add	0.18	
For >250 To 500, Add	0.08	
For >2,500 To 5,000, Deduct	-0.03	
For >5,000 To 10,000, Deduct	-0.07	
For >10,000 To 20,000, Deduct	-0.10	
For >20,000, Deduct	-0.14	
For Backroll, Add	0.08	
09 91 23 00-0166 SF Paint Interior Galvanized Ceiling, 1 Coat Paint, Sprayed.....	0.79	
For Electrostatic Painting, Add	0.12	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	
For Backroll, Add	0.09	
09 91 23 00-0167 SF Paint Interior Galvanized Ceiling, 2 Coats Paint, Sprayed.....	1.25	
For Electrostatic Painting, Add	0.20	
For Up To 100, Add	0.66	
For >100 To 250, Add	0.32	
For >250 To 500, Add	0.14	
For >2,500 To 5,000, Deduct	-0.06	
For >5,000 To 10,000, Deduct	-0.13	
For >10,000 To 20,000, Deduct	-0.19	
For >20,000, Deduct	-0.25	
For Backroll, Add	0.14	
09 91 23 00-0168 Aluminum And Aluminum Alloy Surface Pretreatment Primer (09 91 23 00-0167)		
Note: Alkyd enamel paint.		
09 91 23 00-0169 SF Paint Interior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush Work	0.93	
For Electrostatic Painting, Add	0.12	
For Up To 100, Add	0.58	
For >100 To 250, Add	0.28	
For >250 To 500, Add	0.12	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.09	
For >10,000 To 20,000, Deduct	-0.14	
For >20,000, Deduct	-0.19	
09 91 23 00-0170 SF Paint Interior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush Work.....	1.02	
For Electrostatic Painting, Add	0.13	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
For >2,500 To 5,000, Deduct	-0.05	
For >5,000 To 10,000, Deduct	-0.10	
For >10,000 To 20,000, Deduct	-0.15	
For >20,000, Deduct	-0.20	
09 91 23 00-0171 SF Paint Interior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush Work.....	1.86	
For Electrostatic Painting, Add	0.25	
For Up To 100, Add	1.15	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
For >2,500 To 5,000, Deduct	-0.09	
For >5,000 To 10,000, Deduct	-0.19	
For >10,000 To 20,000, Deduct	-0.28	
For >20,000, Deduct	-0.37	
09 91 23 00-0172 SF Paint Interior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Brush/Roller Work.....	0.79	
For Electrostatic Painting, Add	0.12	
For Up To 100, Add	0.45	
For >100 To 250, Add	0.22	
For >250 To 500, Add	0.09	
For >2,500 To 5,000, Deduct	-0.04	
For >5,000 To 10,000, Deduct	-0.08	
For >10,000 To 20,000, Deduct	-0.12	
For >20,000, Deduct	-0.16	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0173	SF	Paint Interior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Brush/Roller Work	0.88	
		<i>For Electrostatic Painting, Add</i>	0.12	
		<i>For Up To 100, Add</i>	0.52	
		<i>For >100 To 250, Add</i>	0.25	
		<i>For >250 To 500, Add</i>	0.11	
		<i>For >2,500 To 5,000, Deduct</i>	-0.04	
		<i>For >5,000 To 10,000, Deduct</i>	-0.09	
		<i>For >10,000 To 20,000, Deduct</i>	-0.13	
		<i>For >20,000, Deduct</i>	-0.18	
09 91 23 00-0174	SF	Paint Interior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Brush/Roller Work	1.65	
		<i>For Electrostatic Painting, Add</i>	0.24	
		<i>For Up To 100, Add</i>	0.96	
		<i>For >100 To 250, Add</i>	0.46	
		<i>For >250 To 500, Add</i>	0.20	
		<i>For >2,500 To 5,000, Deduct</i>	-0.08	
		<i>For >5,000 To 10,000, Deduct</i>	-0.17	
		<i>For >10,000 To 20,000, Deduct</i>	-0.25	
		<i>For >20,000, Deduct</i>	-0.33	
09 91 23 00-0175	SF	Paint Interior Aluminum And Aluminum Alloy Ceiling, 1 Coat Primer, Sprayed	0.69	
		<i>For Electrostatic Painting, Add</i>	0.11	
		<i>For Up To 100, Add</i>	0.37	
		<i>For >100 To 250, Add</i>	0.18	
		<i>For >250 To 500, Add</i>	0.08	
		<i>For >2,500 To 5,000, Deduct</i>	-0.03	
		<i>For >5,000 To 10,000, Deduct</i>	-0.07	
		<i>For >10,000 To 20,000, Deduct</i>	-0.10	
		<i>For >20,000, Deduct</i>	-0.14	
		<i>For Backroll, Add</i>	0.08	
09 91 23 00-0176	SF	Paint Interior Aluminum And Aluminum Alloy Ceiling, 1 Coat Paint, Sprayed	0.79	
		<i>For Electrostatic Painting, Add</i>	0.12	
		<i>For Up To 100, Add</i>	0.45	
		<i>For >100 To 250, Add</i>	0.22	
		<i>For >250 To 500, Add</i>	0.09	
		<i>For >2,500 To 5,000, Deduct</i>	-0.04	
		<i>For >5,000 To 10,000, Deduct</i>	-0.08	
		<i>For >10,000 To 20,000, Deduct</i>	-0.12	
		<i>For >20,000, Deduct</i>	-0.16	
		<i>For Backroll, Add</i>	0.09	
09 91 23 00-0177	SF	Paint Interior Aluminum And Aluminum Alloy Ceiling, 2 Coats Paint, Sprayed	1.25	
		<i>For Electrostatic Painting, Add</i>	0.20	
		<i>For Up To 100, Add</i>	0.66	
		<i>For >100 To 250, Add</i>	0.32	
		<i>For >250 To 500, Add</i>	0.14	
		<i>For >2,500 To 5,000, Deduct</i>	-0.06	
		<i>For >5,000 To 10,000, Deduct</i>	-0.13	
		<i>For >10,000 To 20,000, Deduct</i>	-0.19	
		<i>For >20,000, Deduct</i>	-0.25	
		<i>For Backroll, Add</i>	0.14	
09 91 23 00-0178		Paint Interior Ceiling Tile Grid (09 91 23 00-0157)		
		Note: Grid only.		
09 91 23 00-0179	LF	Paint Interior Ceiling Tile Grid, 1 Coat Paint, Brush/Roller Work	0.20	
		<i>For Electrostatic Painting, Add</i>	0.02	
		<i>For Up To 100, Add</i>	0.13	
		<i>For >100 To 250, Add</i>	0.06	
		<i>For >250 To 500, Add</i>	0.03	
		<i>For >2,500 To 5,000, Deduct</i>	-0.01	
		<i>For >5,000 To 10,000, Deduct</i>	-0.02	
		<i>For >10,000 To 20,000, Deduct</i>	-0.03	
		<i>For >20,000, Deduct</i>	-0.04	
09 91 23 00-0180	LF	Paint Interior Ceiling Tile Grid, 2 Coats Paint, Brush/Roller Work	0.40	
		<i>For Electrostatic Painting, Add</i>	0.05	
		<i>For Up To 100, Add</i>	0.26	
		<i>For >100 To 250, Add</i>	0.13	
		<i>For >250 To 500, Add</i>	0.05	
		<i>For >2,500 To 5,000, Deduct</i>	-0.02	
		<i>For >5,000 To 10,000, Deduct</i>	-0.04	
		<i>For >10,000 To 20,000, Deduct</i>	-0.06	
		<i>For >20,000, Deduct</i>	-0.08	
09 91 23 00-0181		Paint Interior Corrugated Metal Ceilings (09 91 23 00-0157)		
09 91 23 00-0182	SF	Paint Interior Corrugated Metal Ceiling, 1 Coat Primer, Sprayed	0.91	
		<i>For Electrostatic Painting, Add</i>	0.14	
		<i>For Up To 100, Add</i>	0.50	
		<i>For >100 To 250, Add</i>	0.24	
		<i>For >250 To 500, Add</i>	0.11	
		<i>For >2,500 To 5,000, Deduct</i>	-0.05	
		<i>For >5,000 To 10,000, Deduct</i>	-0.09	
		<i>For >10,000 To 20,000, Deduct</i>	-0.14	
		<i>For >20,000, Deduct</i>	-0.18	
		<i>For Backroll, Add</i>	0.11	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0183	SF		Paint Interior Corrugated Metal Ceiling, 1 Coat Paint, Sprayed .....1.06		
			<i>For Electrostatic Painting, Add</i>	0.15	
			<i>For Up To 100, Add</i>	0.61	
			<i>For >100 To 250, Add</i>	0.29	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.11	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
			<i>For Backroll, Add</i>	0.13	
09 91 23 00-0184	SF		Paint Interior Corrugated Metal Ceiling, 2 Coats Paint, Sprayed .....1.68		
			<i>For Electrostatic Painting, Add</i>	0.26	
			<i>For Up To 100, Add</i>	0.88	
			<i>For >100 To 250, Add</i>	0.43	
			<i>For >250 To 500, Add</i>	0.19	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.17	
			<i>For >10,000 To 20,000, Deduct</i>	-0.25	
			<i>For >20,000, Deduct</i>	-0.34	
			<i>For Backroll, Add</i>	0.19	
09 91 23 00-0185			Paint Interior Wood Ceilings (09 91 23 00-0123)		
09 91 23 00-0186			Paint Interior Smooth Wood Ceilings (09 91 23 00-0185)		
09 91 23 00-0187	SF		Paint Interior Wood Smooth Ceiling, 1 Coat Primer, Brush Work .....0.91		
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Up To 100, Add</i>	0.59	
			<i>For >100 To 250, Add</i>	0.28	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.18	
09 91 23 00-0188	SF		Paint Interior Wood Smooth Ceiling, 1 Coat Paint, Brush Work .....0.95		
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Up To 100, Add</i>	0.63	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.14	
			<i>For >20,000, Deduct</i>	-0.19	
09 91 23 00-0189	SF		Paint Interior Wood Smooth Ceiling, 2 Coats Paint, Brush Work .....1.71		
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Up To 100, Add</i>	1.13	
			<i>For >100 To 250, Add</i>	0.53	
			<i>For >250 To 500, Add</i>	0.23	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.17	
			<i>For >10,000 To 20,000, Deduct</i>	-0.26	
			<i>For >20,000, Deduct</i>	-0.34	
09 91 23 00-0190	SF		Paint Interior Smooth Wood Ceiling, 1 Coat Primer, Brush/Roller Work .....0.72		
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Up To 100, Add</i>	0.44	
			<i>For >100 To 250, Add</i>	0.21	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.11	
			<i>For >20,000, Deduct</i>	-0.14	
09 91 23 00-0191	SF		Paint Interior Smooth Wood Ceiling, 1 Coat Paint, Brush/Roller Work .....0.79		
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Up To 100, Add</i>	0.50	
			<i>For >100 To 250, Add</i>	0.24	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 23 00-0192	SF		Paint Interior Smooth Wood Ceiling, 2 Coats Paint, Brush/Roller Work .....1.48		
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Up To 100, Add</i>	0.93	
			<i>For >100 To 250, Add</i>	0.44	
			<i>For >250 To 500, Add</i>	0.19	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.30	

09 Finishes**09 90 Painting And Coating****09 91 Painting**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0193	SF		Paint Interior Smooth Wood Ceiling, 1 Coat Primer, Sprayed	0.58	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Up To 100, Add</i>	0.36	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
			<i>For Backroll, Add</i>	0.07	
09 91 23 00-0194	SF		Paint Interior Smooth Wood Ceiling, 1 Coat Paint, Sprayed	0.69	
			<i>For Oil Based Paint, Add</i>	0.04	
			<i>For Up To 100, Add</i>	0.44	
			<i>For >100 To 250, Add</i>	0.21	
			<i>For >250 To 500, Add</i>	0.09	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.07	
			<i>For >10,000 To 20,000, Deduct</i>	-0.10	
			<i>For >20,000, Deduct</i>	-0.14	
			<i>For Backroll, Add</i>	0.09	
09 91 23 00-0195	SF		Paint Interior Smooth Wood Ceiling, 2 Coats Paint, Sprayed	1.04	
			<i>For Oil Based Paint, Add</i>	0.07	
			<i>For Up To 100, Add</i>	0.62	
			<i>For >100 To 250, Add</i>	0.30	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.16	
			<i>For >20,000, Deduct</i>	-0.21	
			<i>For Backroll, Add</i>	0.13	
09 91 23 00-0196			Paint Interior Wood Beams (09 91 23 00-0123)		
09 91 23 00-0197	SF		Paint Interior Wood Beams, 1 Coat Primer, Brush Work	1.00	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.66	
			<i>For >100 To 250, Add</i>	0.31	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.20	
09 91 23 00-0198	SF		Paint Interior Wood Beams, 1 Coat Paint, Brush Work	1.03	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.69	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.05	
			<i>For >5,000 To 10,000, Deduct</i>	-0.10	
			<i>For >10,000 To 20,000, Deduct</i>	-0.15	
			<i>For >20,000, Deduct</i>	-0.21	
09 91 23 00-0199	SF		Paint Interior Wood Beams, 2 Coats Paint, Brush Work	1.87	
			<i>For Oil Based Paint, Add</i>	0.11	
			<i>For Up To 100, Add</i>	1.25	
			<i>For >100 To 250, Add</i>	0.59	
			<i>For >250 To 500, Add</i>	0.25	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.19	
			<i>For >10,000 To 20,000, Deduct</i>	-0.28	
			<i>For >20,000, Deduct</i>	-0.37	
09 91 23 00-0200	SF		Paint Interior Wood Beams, 1 Coat Primer, Brush/Roller Work	0.80	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Up To 100, Add</i>	0.50	
			<i>For >100 To 250, Add</i>	0.24	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 23 00-0201	SF		Paint Interior Wood Beams, 1 Coat Paint, Brush/Roller Work	0.79	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Up To 100, Add</i>	0.50	
			<i>For >100 To 250, Add</i>	0.24	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
09 91 23 00-0202	SF		Paint Interior Wood Beams, 2 Coats Paint, Brush/Roller Work	1.48	
			<i>For Oil Based Paint, Add</i>	0.09	
			<i>For Up To 100, Add</i>	0.93	
			<i>For >100 To 250, Add</i>	0.44	
			<i>For >250 To 500, Add</i>	0.19	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.30	



Finishes	09
Painting And Coating	09 90
Painting	09 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0203	SF		Paint Interior Wood Beams, 1 Coat Primer, Sprayed	0.69	
			For Oil Based Paint, Add	0.04	
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
			For Backroll, Add	0.09	
09 91 23 00-0204	SF		Paint Interior Wood Beams, 1 Coat Paint, Sprayed	0.69	
			For Oil Based Paint, Add	0.04	
			For Up To 100, Add	0.44	
			For >100 To 250, Add	0.21	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.07	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.14	
			For Backroll, Add	0.09	
09 91 23 00-0205	SF		Paint Interior Wood Beams, 2 Coats Paint, Sprayed	1.14	
			For Oil Based Paint, Add	0.07	
			For Up To 100, Add	0.70	
			For >100 To 250, Add	0.33	
			For >250 To 500, Add	0.15	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.11	
			For >10,000 To 20,000, Deduct	-0.17	
			For >20,000, Deduct	-0.23	
			For Backroll, Add	0.15	
09 91 23 00-0206			Paint Interior Floors And Decks (09 91 23)		
09 91 23 00-0207			Paint Interior Concrete Floors And Decks (09 91 23 00-0206)		
09 91 23 00-0208	SF		Paint Interior Concrete Floors And Decks, 1 Coat Primer, Brush Work	0.57	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.09	
			For >20,000, Deduct	-0.11	
09 91 23 00-0209	SF		Paint Interior Concrete Floors And Decks, 1 Coat Paint, Brush Work	0.64	
			For Oil Based Paint, Add	0.04	
			For Epoxy Paint, Add	0.06	
			For Up To 100, Add	0.43	
			For >100 To 250, Add	0.20	
			For >250 To 500, Add	0.09	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.10	
			For >20,000, Deduct	-0.13	
09 91 23 00-0210	SF		Paint Interior Concrete Floors And Decks, 2 Coats Paint, Brush Work	1.23	
			For Oil Based Paint, Add	0.07	
			For Epoxy Paint, Add	0.11	
			For Up To 100, Add	0.82	
			For >100 To 250, Add	0.39	
			For >250 To 500, Add	0.17	
			For >2,500 To 5,000, Deduct	-0.06	
			For >5,000 To 10,000, Deduct	-0.12	
			For >10,000 To 20,000, Deduct	-0.18	
			For >20,000, Deduct	-0.25	
09 91 23 00-0211	SF		Paint Interior Concrete Floors And Decks, 1 Coat Primer, Brush/Roller Work	0.56	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.06	
			For Up To 100, Add	0.35	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	
09 91 23 00-0212	SF		Paint Interior Concrete Floors And Decks, 1 Coat Paint, Brush/Roller Work	0.55	
			For Oil Based Paint, Add	0.03	
			For Epoxy Paint, Add	0.05	
			For Up To 100, Add	0.36	
			For >100 To 250, Add	0.17	
			For >250 To 500, Add	0.07	
			For >2,500 To 5,000, Deduct	-0.03	
			For >5,000 To 10,000, Deduct	-0.06	
			For >10,000 To 20,000, Deduct	-0.08	
			For >20,000, Deduct	-0.11	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	23 00-0213	SF	Paint Interior Concrete Floors And Decks, 2 Coats Paint, Brush/Roller Work.....	0.88	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.10	
			<i>For Up To 100, Add</i>	0.56	
			<i>For >100 To 250, Add</i>	0.27	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.09	
			<i>For >10,000 To 20,000, Deduct</i>	-0.13	
			<i>For >20,000, Deduct</i>	-0.18	
09 91	23 00-0214	SF	Paint Interior Concrete Floors And Decks, 1 Coat Primer, Sprayed.....	0.44	
			<i>For Oil Based Paint, Add</i>	0.03	
			<i>For Epoxy Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.25	
			<i>For >100 To 250, Add</i>	0.12	
			<i>For >250 To 500, Add</i>	0.05	
			<i>For >2,500 To 5,000, Deduct</i>	-0.02	
			<i>For >5,000 To 10,000, Deduct</i>	-0.04	
			<i>For >10,000 To 20,000, Deduct</i>	-0.07	
			<i>For >20,000, Deduct</i>	-0.09	
			<i>For Backroll, Add</i>	0.05	
09 91	23 00-0215	SF	Paint Interior Concrete Floors And Decks, 1 Coat Paint, Sprayed.....	0.45	
			<i>For Oil Based Paint, Add</i>	0.03	
			<i>For Epoxy Paint, Add</i>	0.06	
			<i>For Up To 100, Add</i>	0.27	
			<i>For >100 To 250, Add</i>	0.13	
			<i>For >250 To 500, Add</i>	0.06	
			<i>For >2,500 To 5,000, Deduct</i>	-0.02	
			<i>For >5,000 To 10,000, Deduct</i>	-0.05	
			<i>For >10,000 To 20,000, Deduct</i>	-0.07	
			<i>For >20,000, Deduct</i>	-0.09	
			<i>For Backroll, Add</i>	0.06	
09 91	23 00-0216	SF	Paint Interior Concrete Floors And Decks, 2 Coats Paint, Sprayed.....	0.78	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Epoxy Paint, Add</i>	0.11	
			<i>For Up To 100, Add</i>	0.45	
			<i>For >100 To 250, Add</i>	0.22	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >2,500 To 5,000, Deduct</i>	-0.04	
			<i>For >5,000 To 10,000, Deduct</i>	-0.08	
			<i>For >10,000 To 20,000, Deduct</i>	-0.12	
			<i>For >20,000, Deduct</i>	-0.16	
			<i>For Backroll, Add</i>	0.10	
09 91	23 00-0217	SF	Paint Interior Concrete Floors And Decks, 1 Coat Bonding Agent, Brush.....	0.59	
			<i>For Up To 100, Add</i>	0.36	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.08	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
09 91	23 00-0218	SF	Paint Interior Concrete Floors And Decks, 1 Coat Bonding Agent, Brush/Roller Work.....	0.58	
			<i>For Up To 100, Add</i>	0.36	
			<i>For >100 To 250, Add</i>	0.17	
			<i>For >250 To 500, Add</i>	0.07	
			<i>For >2,500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	
09 91	23 00-0219	SF	Paint Interior Concrete Floors And Decks, 1 Coat Bonding Agent, Sprayed.....	0.46	
			<i>For Up To 100, Add</i>	0.26	
			<i>For >100 To 250, Add</i>	0.12	
			<i>For >250 To 500, Add</i>	0.05	
			<i>For >2,500 To 5,000, Deduct</i>	-0.02	
			<i>For >5,000 To 10,000, Deduct</i>	-0.05	
			<i>For >10,000 To 20,000, Deduct</i>	-0.07	
			<i>For >20,000, Deduct</i>	-0.09	
			<i>For Backroll, Add</i>	0.05	
09 91	23 00-0220	SF	Paint Interior Concrete Floors And Decks, 1 Coat Non Slip Paint, Brush Work.....	1.47	
			<i>For Up To 100, Add</i>	0.55	
			<i>For >100 To 250, Add</i>	0.28	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.29	
09 91	23 00-0221	SF	Paint Interior Concrete Floors And Decks, 1 Coat Non Slip Epoxy Coating, Brush Work (Rust-Oleum® AS91864251).....	3.96	
			<i>For Up To 100, Add</i>	0.92	
			<i>For >100 To 250, Add</i>	0.53	
			<i>For >250 To 500, Add</i>	0.25	
			<i>For >2,500 To 5,000, Deduct</i>	-0.20	
			<i>For >5,000 To 10,000, Deduct</i>	-0.40	
			<i>For >10,000 To 20,000, Deduct</i>	-0.59	
			<i>For >20,000, Deduct</i>	-0.79	



Finishes	09	2
Painting And Coating	09 90	
Painting	09 91	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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09 91 23 00-0222	Paint Interior Wood Floors And Decks <small>(09 91 23 00-0206)</small>	
09 91 23 00-0223	SF Paint Interior Wood Floors And Decks, 1 Coat Primer, Brush Work	0.70
	<i>For Oil Based Paint, Add</i>	0.04
	<i>For Up To 100, Add</i>	0.44
	<i>For >100 To 250, Add</i>	0.21
	<i>For >250 To 500, Add</i>	0.09
	<i>For >2,500 To 5,000, Deduct</i>	-0.04
	<i>For >5,000 To 10,000, Deduct</i>	-0.07
	<i>For >10,000 To 20,000, Deduct</i>	-0.11
	<i>For >20,000, Deduct</i>	-0.14
09 91 23 00-0224	SF Paint Interior Wood Floors And Decks, 1 Coat Paint, Brush Work	0.77
	<i>For Oil Based Paint, Add</i>	0.05
	<i>For Up To 100, Add</i>	0.50
	<i>For >100 To 250, Add</i>	0.24
	<i>For >250 To 500, Add</i>	0.10
	<i>For >2,500 To 5,000, Deduct</i>	-0.04
	<i>For >5,000 To 10,000, Deduct</i>	-0.08
	<i>For >10,000 To 20,000, Deduct</i>	-0.12
	<i>For >20,000, Deduct</i>	-0.15
09 91 23 00-0225	SF Paint Interior Wood Floors And Decks, 2 Coats Paint, Brush Work	1.44
	<i>For Oil Based Paint, Add</i>	0.09
	<i>For Up To 100, Add</i>	0.92
	<i>For >100 To 250, Add</i>	0.44
	<i>For >250 To 500, Add</i>	0.19
	<i>For >2,500 To 5,000, Deduct</i>	-0.07
	<i>For >5,000 To 10,000, Deduct</i>	-0.14
	<i>For >10,000 To 20,000, Deduct</i>	-0.22
	<i>For >20,000, Deduct</i>	-0.29
09 91 23 00-0226	SF Paint Interior Wood Floors And Decks, 1 Coat Primer, Brush/Roller Work	0.56
	<i>For Oil Based Paint, Add</i>	0.04
	<i>For Up To 100, Add</i>	0.32
	<i>For >100 To 250, Add</i>	0.15
	<i>For >250 To 500, Add</i>	0.07
	<i>For >2,500 To 5,000, Deduct</i>	-0.03
	<i>For >5,000 To 10,000, Deduct</i>	-0.06
	<i>For >10,000 To 20,000, Deduct</i>	-0.08
	<i>For >20,000, Deduct</i>	-0.11
09 91 23 00-0227	SF Paint Interior Wood Floors And Decks, 1 Coat Paint, Brush/Roller Work	0.61
	<i>For Oil Based Paint, Add</i>	0.04
	<i>For Up To 100, Add</i>	0.37
	<i>For >100 To 250, Add</i>	0.18
	<i>For >250 To 500, Add</i>	0.08
	<i>For >2,500 To 5,000, Deduct</i>	-0.03
	<i>For >5,000 To 10,000, Deduct</i>	-0.06
	<i>For >10,000 To 20,000, Deduct</i>	-0.09
	<i>For >20,000, Deduct</i>	-0.12
09 91 23 00-0228	SF Paint Interior Wood Floors And Decks, 2 Coats Paint, Brush/Roller Work	1.20
	<i>For Oil Based Paint, Add</i>	0.08
	<i>For Up To 100, Add</i>	0.72
	<i>For >100 To 250, Add</i>	0.35
	<i>For >250 To 500, Add</i>	0.15
	<i>For >2,500 To 5,000, Deduct</i>	-0.06
	<i>For >5,000 To 10,000, Deduct</i>	-0.12
	<i>For >10,000 To 20,000, Deduct</i>	-0.18
	<i>For >20,000, Deduct</i>	-0.24
09 91 23 00-0229	SF Paint Interior Wood Floors And Decks, 1 Coat Primer, Sprayed	0.47
	<i>For Oil Based Paint, Add</i>	0.03
	<i>For Up To 100, Add</i>	0.27
	<i>For >100 To 250, Add</i>	0.13
	<i>For >250 To 500, Add</i>	0.06
	<i>For >2,500 To 5,000, Deduct</i>	-0.02
	<i>For >5,000 To 10,000, Deduct</i>	-0.05
	<i>For >10,000 To 20,000, Deduct</i>	-0.07
	<i>For >20,000, Deduct</i>	-0.09
	<i>For Backroll, Add</i>	0.06
09 91 23 00-0230	SF Paint Interior Wood Floors And Decks, 1 Coat Paint, Sprayed	0.58
	<i>For Oil Based Paint, Add</i>	0.04
	<i>For Up To 100, Add</i>	0.36
	<i>For >100 To 250, Add</i>	0.17
	<i>For >250 To 500, Add</i>	0.07
	<i>For >2,500 To 5,000, Deduct</i>	-0.03
	<i>For >5,000 To 10,000, Deduct</i>	-0.06
	<i>For >10,000 To 20,000, Deduct</i>	-0.09
	<i>For >20,000, Deduct</i>	-0.12
	<i>For Backroll, Add</i>	0.07
09 91 23 00-0231	SF Paint Interior Wood Floors And Decks, 2 Coats Paint, Sprayed	0.84
	<i>For Oil Based Paint, Add</i>	0.06
	<i>For Up To 100, Add</i>	0.47
	<i>For >100 To 250, Add</i>	0.23
	<i>For >250 To 500, Add</i>	0.10
	<i>For >2,500 To 5,000, Deduct</i>	-0.04
	<i>For >5,000 To 10,000, Deduct</i>	-0.08
	<i>For >10,000 To 20,000, Deduct</i>	-0.13
	<i>For >20,000, Deduct</i>	-0.17
	<i>For Backroll, Add</i>	0.10

09	Finishes
09 90	Painting And Coating
09 91	Painting



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0232	SF		Paint Interior Wood Floors And Decks, 1 Coat Non Slip Paint, Brush Work	1.47	
			<i>For Up To 100, Add</i>	0.55	
			<i>For >100 To 250, Add</i>	0.28	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.29	
09 91 23 00-0233	SF		Paint Interior Wood Floors And Decks, 1 Coat Non Slip Epoxy Coating, Brush Work	3.96	
			<i>For Up To 100, Add</i>	0.92	
			<i>For >100 To 250, Add</i>	0.53	
			<i>For >250 To 500, Add</i>	0.25	
			<i>For >2,500 To 5,000, Deduct</i>	-0.20	
			<i>For >5,000 To 10,000, Deduct</i>	-0.40	
			<i>For >10,000 To 20,000, Deduct</i>	-0.59	
			<i>For >20,000, Deduct</i>	-0.79	
09 91 23 00-0234			Paint Interior Doors And Windows (09 91 23)		
09 91 23 00-0235			Paint Interior Door Frames (09 91 23 00-0234)		
09 91 23 00-0236	LF		Paint Interior Wood Door Frame And Trim, 1 Coat Primer, Brush/Roller Work	0.86	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Painting One Face Of Frame Only, Deduct</i>	-0.23	
09 91 23 00-0237	LF		Paint Interior Wood Door Frame And Trim, 1 Coat Paint, Brush/Roller Work	1.12	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Painting One Face Of Frame Only, Deduct</i>	-0.29	
09 91 23 00-0238	LF		Paint Interior Wood Door Frame And Trim, 2 Coats Paint, Brush/Roller Work	1.89	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Painting One Face Of Frame Only, Deduct</i>	-0.49	
09 91 23 00-0239	LF		Paint Interior Metal Door Frame And Trim, 1 Coat Primer, Brush/Roller Work	0.87	
			<i>For Oil Based Paint, Add</i>	0.05	
			<i>For Painting One Face Of Frame Only, Deduct</i>	-0.23	
09 91 23 00-0240	LF		Paint Interior Metal Door Frame And Trim, 1 Coat Paint, Brush/Roller Work	1.13	
			<i>For Oil Based Paint, Add</i>	0.06	
			<i>For Painting One Face Of Frame Only, Deduct</i>	-0.30	
09 91 23 00-0241	LF		Paint Interior Metal Door Frame And Trim, 2 Coats Paint, Brush/Roller Work	1.92	
			<i>For Oil Based Paint, Add</i>	0.10	
			<i>For Painting One Face Of Frame Only, Deduct</i>	-0.50	
09 91 23 00-0242			Paint Interior Metal Doors (09 91 23 00-0234)		
09 91 23 00-0243	EA		Paint Interior Metal Door, One Face, 1 Coat Primer, Brush/Roller Work	40.31	
			<i>For Electrostatic Painting, Add</i>	6.13	
			<i>For Half Louvered Door, Add</i>	3.94	
			<i>For Full Louvered Door, Add</i>	6.57	
			<i>For Oil Based Paint, Add</i>	2.72	
			<i>For >5 To 10, Deduct</i>	-2.02	
			<i>For >10 To 25, Deduct</i>	-4.03	
			<i>For >25, Deduct</i>	-6.05	
09 91 23 00-0244	EA		Paint Interior Metal Door, One Face, 1 Coat Paint, Brush/Roller Work	40.31	
			<i>For Electrostatic Painting, Add</i>	6.13	
			<i>For Half Louvered Door, Add</i>	3.94	
			<i>For Full Louvered Door, Add</i>	6.57	
			<i>For Oil Based Paint, Add</i>	2.72	
			<i>For >5 To 10, Deduct</i>	-2.02	
			<i>For >10 To 25, Deduct</i>	-4.03	
			<i>For >25, Deduct</i>	-6.05	
09 91 23 00-0245	EA		Paint Interior Metal Door, One Face, 2 Coats Paint, Brush/Roller Work	72.28	
			<i>For Electrostatic Painting, Add</i>	11.41	
			<i>For Half Louvered Door, Add</i>	6.66	
			<i>For Full Louvered Door, Add</i>	11.10	
			<i>For Oil Based Paint, Add</i>	5.01	
			<i>For >5 To 10, Deduct</i>	-3.61	
			<i>For >10 To 25, Deduct</i>	-7.23	
			<i>For >25, Deduct</i>	-10.84	
09 91 23 00-0246	EA		Paint Interior Metal Door, Both Faces, 1 Coat Primer, Brush/Roller Work	72.35	
			<i>For Electrostatic Painting, Add</i>	11.02	
			<i>For Half Louvered Door, Add</i>	7.07	
			<i>For Full Louvered Door, Add</i>	11.79	
			<i>For Oil Based Paint, Add</i>	4.88	
			<i>For >5 To 10, Deduct</i>	-3.62	
			<i>For >10 To 25, Deduct</i>	-7.24	
			<i>For >25, Deduct</i>	-10.85	
09 91 23 00-0247	EA		Paint Interior Metal Door, Both Faces, 1 Coat Paint, Brush/Roller Work	72.36	
			<i>For Electrostatic Painting, Add</i>	11.02	
			<i>For Half Louvered Door, Add</i>	7.07	
			<i>For Full Louvered Door, Add</i>	11.79	
			<i>For Oil Based Paint, Add</i>	4.88	
			<i>For >5 To 10, Deduct</i>	-3.62	
			<i>For >10 To 25, Deduct</i>	-7.24	
			<i>For >25, Deduct</i>	-10.85	



		Finishes	09
		Painting And Coating	09 90
		Painting	09 91

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91	23 00-0248	EA	Paint Interior Metal Door, Both Faces, 2 Coats Paint, Brush/Roller Work.....	130.17	
			<i>For Electrostatic Painting, Add</i>	20.58	
			<i>For Half Louvered Door, Add</i>	11.97	
			<i>For Full Louvered Door, Add</i>	19.94	
			<i>For Oil Based Paint, Add</i>	9.03	
			<i>For >5 To 10, Deduct</i>	-6.51	
			<i>For >10 To 25, Deduct</i>	-13.02	
			<i>For >25, Deduct</i>	-19.53	
09 91	23 00-0249	EA	Paint Interior Metal Door, One Face, 1 Coat Primer, Sprayed.....	34.92	
			<i>For Electrostatic Painting, Add</i>	5.81	
			<i>For Half Louvered Door, Add</i>	2.93	
			<i>For Full Louvered Door, Add</i>	4.88	
			<i>For Oil Based Paint, Add</i>	2.52	
			<i>For >5 To 10, Deduct</i>	-1.75	
			<i>For >10 To 25, Deduct</i>	-3.49	
			<i>For >25, Deduct</i>	-5.24	
			<i>For Backroll, Add</i>	3.70	
09 91	23 00-0250	EA	Paint Interior Metal Door, One Face, 1 Coat Paint, Sprayed.....	34.92	
			<i>For Electrostatic Painting, Add</i>	5.81	
			<i>For Half Louvered Door, Add</i>	2.93	
			<i>For Full Louvered Door, Add</i>	4.88	
			<i>For Oil Based Paint, Add</i>	2.52	
			<i>For >5 To 10, Deduct</i>	-1.75	
			<i>For >10 To 25, Deduct</i>	-3.49	
			<i>For >25, Deduct</i>	-5.24	
			<i>For Backroll, Add</i>	3.70	
09 91	23 00-0251	EA	Paint Interior Metal Door, One Face, 2 Coats Paint, Sprayed.....	63.58	
			<i>For Electrostatic Painting, Add</i>	10.96	
			<i>For Half Louvered Door, Add</i>	4.94	
			<i>For Full Louvered Door, Add</i>	8.23	
			<i>For Oil Based Paint, Add</i>	4.71	
			<i>For >5 To 10, Deduct</i>	-3.18	
			<i>For >10 To 25, Deduct</i>	-6.36	
			<i>For >25, Deduct</i>	-9.54	
			<i>For Backroll, Add</i>	6.47	
09 91	23 00-0252	EA	Paint Interior Metal Door, Both Faces, 1 Coat Primer, Sprayed.....	62.69	
			<i>For Electrostatic Painting, Add</i>	10.43	
			<i>For Half Louvered Door, Add</i>	5.25	
			<i>For Full Louvered Door, Add</i>	8.74	
			<i>For Oil Based Paint, Add</i>	4.52	
			<i>For >5 To 10, Deduct</i>	-3.13	
			<i>For >10 To 25, Deduct</i>	-6.27	
			<i>For >25, Deduct</i>	-9.40	
			<i>For Backroll, Add</i>	6.63	
09 91	23 00-0253	EA	Paint Interior Metal Door, Both Faces, 1 Coat Paint, Sprayed.....	62.69	
			<i>For Electrostatic Painting, Add</i>	10.43	
			<i>For Half Louvered Door, Add</i>	5.25	
			<i>For Full Louvered Door, Add</i>	8.74	
			<i>For Oil Based Paint, Add</i>	4.52	
			<i>For >5 To 10, Deduct</i>	-3.13	
			<i>For >10 To 25, Deduct</i>	-6.27	
			<i>For >25, Deduct</i>	-9.40	
			<i>For Backroll, Add</i>	6.63	
09 91	23 00-0254	EA	Paint Interior Metal Door, Both Faces, 2 Coats Paint, Sprayed.....	114.61	
			<i>For Electrostatic Painting, Add</i>	19.78	
			<i>For Half Louvered Door, Add</i>	8.88	
			<i>For Full Louvered Door, Add</i>	14.79	
			<i>For Oil Based Paint, Add</i>	8.50	
			<i>For >5 To 10, Deduct</i>	-5.73	
			<i>For >10 To 25, Deduct</i>	-11.46	
			<i>For >25, Deduct</i>	-17.19	
			<i>For Backroll, Add</i>	11.65	
09 91	23 00-0255		Paint Interior Wood Doors (09 91 23 00-0234)		
09 91	23 00-0256	EA	Paint Interior Wood Door, One Face, 1 Coat Primer, Brush/Roller Work.....	36.49	
			<i>For Oil Based Paint, Add</i>	2.33	
			<i>For Half Louvered Door, Add</i>	3.94	
			<i>For Full Louvered Door, Add</i>	6.57	
			<i>For >5 To 10, Deduct</i>	-1.82	
			<i>For >10 To 25, Deduct</i>	-3.65	
			<i>For >25, Deduct</i>	-5.47	
09 91	23 00-0257	EA	Paint Interior Wood Door, One Face, 1 Coat Paint, Brush/Roller Work.....	36.49	
			<i>For Oil Based Paint, Add</i>	2.33	
			<i>For Half Louvered Door, Add</i>	3.94	
			<i>For Full Louvered Door, Add</i>	6.57	
			<i>For >5 To 10, Deduct</i>	-1.82	
			<i>For >10 To 25, Deduct</i>	-3.65	
			<i>For >25, Deduct</i>	-5.47	
09 91	23 00-0258	EA	Paint Interior Wood Door, One Face, 2 Coats Paint, Brush/Roller Work.....	64.69	
			<i>For Oil Based Paint, Add</i>	4.25	
			<i>For Half Louvered Door, Add</i>	6.66	
			<i>For Full Louvered Door, Add</i>	11.11	
			<i>For >5 To 10, Deduct</i>	-3.23	
			<i>For >10 To 25, Deduct</i>	-6.47	
			<i>For >25, Deduct</i>	-9.70	

09 Finishes

09 90 Painting And Coating

09 91 Painting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0259	EA	Paint Interior Wood Door, Both Faces, 1 Coat Primer, Brush/Roller Work.....	65.49	
		<i>For Oil Based Paint, Add</i>	4.19	
		<i>For Half Louvered Door, Add</i>	7.07	
		<i>For Full Louvered Door, Add</i>	11.79	
		<i>For >5 To 10, Deduct</i>	-3.27	
		<i>For >10 To 25, Deduct</i>	-6.55	
		<i>For >25, Deduct</i>	-9.82	
09 91 23 00-0260	EA	Paint Interior Wood Door, Both Faces, 1 Coat Paint, Brush/Roller Work.....	65.49	
		<i>For Oil Based Paint, Add</i>	4.19	
		<i>For Half Louvered Door, Add</i>	7.07	
		<i>For Full Louvered Door, Add</i>	11.79	
		<i>For >5 To 10, Deduct</i>	-3.27	
		<i>For >10 To 25, Deduct</i>	-6.55	
		<i>For >25, Deduct</i>	-9.82	
09 91 23 00-0261	EA	Paint Interior Wood Door, Both Faces, 2 Coats Paint, Brush/Roller Work.....	116.43	
		<i>For Oil Based Paint, Add</i>	7.65	
		<i>For Half Louvered Door, Add</i>	11.97	
		<i>For Full Louvered Door, Add</i>	19.94	
		<i>For >5 To 10, Deduct</i>	-5.82	
		<i>For >10 To 25, Deduct</i>	-11.64	
		<i>For >25, Deduct</i>	-17.46	
09 91 23 00-0262	EA	Paint Interior Wood Door, One Face, 1 Coat Primer, Sprayed.....	30.72	
		<i>For Oil Based Paint, Add</i>	2.10	
		<i>For Half Louvered Door, Add</i>	2.93	
		<i>For Full Louvered Door, Add</i>	4.88	
		<i>For >5 To 10, Deduct</i>	-1.54	
		<i>For >10 To 25, Deduct</i>	-3.07	
		<i>For >25, Deduct</i>	-4.61	
		<i>For Backroll, Add</i>	3.49	
09 91 23 00-0263	EA	Paint Interior Wood Door, One Face, 1 Coat Paint, Sprayed.....	30.72	
		<i>For Oil Based Paint, Add</i>	2.10	
		<i>For Half Louvered Door, Add</i>	2.93	
		<i>For Full Louvered Door, Add</i>	4.88	
		<i>For >5 To 10, Deduct</i>	-1.54	
		<i>For >10 To 25, Deduct</i>	-3.07	
		<i>For >25, Deduct</i>	-4.61	
		<i>For Backroll, Add</i>	3.49	
09 91 23 00-0264	EA	Paint Interior Wood Door, One Face, 2 Coats Paint, Sprayed.....	55.26	
		<i>For Oil Based Paint, Add</i>	3.88	
		<i>For Half Louvered Door, Add</i>	4.94	
		<i>For Full Louvered Door, Add</i>	8.24	
		<i>For >5 To 10, Deduct</i>	-2.76	
		<i>For >10 To 25, Deduct</i>	-5.53	
		<i>For >25, Deduct</i>	-8.29	
		<i>For Backroll, Add</i>	6.06	
09 91 23 00-0265	EA	Paint Interior Wood Door, Both Faces, 1 Coat Primer, Sprayed.....	55.14	
		<i>For Oil Based Paint, Add</i>	3.77	
		<i>For Half Louvered Door, Add</i>	5.25	
		<i>For Full Louvered Door, Add</i>	8.74	
		<i>For >5 To 10, Deduct</i>	-2.76	
		<i>For >10 To 25, Deduct</i>	-5.51	
		<i>For >25, Deduct</i>	-8.27	
		<i>For Backroll, Add</i>	6.25	
09 91 23 00-0266	EA	Paint Interior Wood Door, Both Faces, 1 Coat Paint, Sprayed.....	55.14	
		<i>For Oil Based Paint, Add</i>	3.77	
		<i>For Half Louvered Door, Add</i>	5.25	
		<i>For Full Louvered Door, Add</i>	8.74	
		<i>For >5 To 10, Deduct</i>	-2.76	
		<i>For >10 To 25, Deduct</i>	-5.51	
		<i>For >25, Deduct</i>	-8.27	
		<i>For Backroll, Add</i>	6.25	
09 91 23 00-0267	EA	Paint Interior Wood Door, Both Faces, 2 Coats Paint, Sprayed.....	99.50	
		<i>For Oil Based Paint, Add</i>	6.99	
		<i>For Half Louvered Door, Add</i>	8.88	
		<i>For Full Louvered Door, Add</i>	14.79	
		<i>For >5 To 10, Deduct</i>	-4.98	
		<i>For >10 To 25, Deduct</i>	-9.95	
		<i>For >25, Deduct</i>	-14.93	
		<i>For Backroll, Add</i>	10.89	
09 91 23 00-0268		Paint Interior Metal Windows (09 91 23 00-0234)		
		Note: Two finish coats paint over rust inhibitive primer.		
09 91 23 00-0269	EA	Up To 8 SF Window Size, Paint Interior Metal Window Including Trim, Brush/Roller Work.....	68.26	
		<i>For Oil Based Paint, Add</i>	3.88	
		<i>For Electrostatic Painting, Add</i>	8.22	
		<i>For >5 To 10, Deduct</i>	-3.41	
		<i>For >10 To 25, Deduct</i>	-6.83	
		<i>For >25, Deduct</i>	-10.24	
09 91 23 00-0270	EA	>8 To 14 SF Window Size, Paint Interior Metal Window Including Trim, Brush/Roller Work.....	82.41	
		<i>For Oil Based Paint, Add</i>	4.84	
		<i>For Electrostatic Painting, Add</i>	10.40	
		<i>For >5 To 10, Deduct</i>	-4.12	
		<i>For >10 To 25, Deduct</i>	-8.24	
		<i>For >25, Deduct</i>	-12.36	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0271	EA		>14 To 20 SF Window Size, Paint Interior Metal Window Including Trim, Brush/Roller Work	111.13	
			For Oil Based Paint, Add	6.58	
			For Electrostatic Painting, Add	14.18	
			For >5 To 10, Deduct	-5.56	
			For >10 To 25, Deduct	-11.11	
			For >25, Deduct	-16.67	
09 91 23 00-0272	EA		>20 To 26 SF Window Size, Paint Interior Metal Window Including Trim, Brush/Roller Work	125.14	
			For Oil Based Paint, Add	7.41	
			For Electrostatic Painting, Add	15.98	
			For >5 To 10, Deduct	-6.26	
			For >10 To 25, Deduct	-12.51	
			For >25, Deduct	-18.77	
09 91 23 00-0273	EA		>26 To 34 SF Window Size, Paint Interior Metal Window Including Trim, Brush/Roller Work	138.78	
			For Oil Based Paint, Add	8.21	
			For Electrostatic Painting, Add	17.69	
			For >5 To 10, Deduct	-6.94	
			For >10 To 25, Deduct	-13.88	
			For >25, Deduct	-20.82	
09 91 23 00-0274	SF		>34 SF Window Size, Paint Interior Metal Window Including Trim, Brush/Roller Work.....	4.41	
			For Oil Based Paint, Add	0.26	
			For Electrostatic Painting, Add	0.56	
09 91 23 00-0275			Wood Windows (09 91 23 00-0234)		
			Note: Two finish coats paint over primer.		
09 91 23 00-0276	EA		Up To 8 SF Window Size, Paint Interior Wood Windows Including Trim, Brush/Roller Work.....	65.72	
			For Oil Based Paint, Add	3.62	
			For >5 To 10, Deduct	-3.29	
			For >10 To 25, Deduct	-6.57	
			For >25, Deduct	-9.86	
09 91 23 00-0277	EA		>8 To 14 SF Window Size, Paint Interior Wood Windows Including Trim, Brush/Roller Work.....	78.48	
			For Oil Based Paint, Add	4.45	
			For >5 To 10, Deduct	-3.92	
			For >10 To 25, Deduct	-7.85	
			For >25, Deduct	-11.77	
09 91 23 00-0278	EA		>14 To 20 SF Window Size, Paint Interior Wood Windows Including Trim, Brush/Roller Work.....	111.43	
			For Oil Based Paint, Add	6.32	
			For >5 To 10, Deduct	-5.57	
			For >10 To 25, Deduct	-11.14	
			For >25, Deduct	-16.71	
09 91 23 00-0279	EA		>20 To 26 SF Window Size, Paint Interior Wood Windows Including Trim, Brush/Roller Work.....	125.45	
			For Oil Based Paint, Add	7.11	
			For >5 To 10, Deduct	-6.27	
			For >10 To 25, Deduct	-12.55	
			For >25, Deduct	-18.82	
09 91 23 00-0280	EA		>26 To 34 SF Window Size, Paint Interior Wood Windows Including Trim, Brush/Roller Work.....	131.85	
			For Oil Based Paint, Add	7.52	
			For >5 To 10, Deduct	-6.59	
			For >10 To 25, Deduct	-13.19	
			For >25, Deduct	-19.78	
09 91 23 00-0281	SF		>34 SF Window Size, Paint Interior Wood Windows Including Trim, Brush/Roller Work.....	4.41	
			For Oil Based Paint, Add	0.25	
09 91 23 00-0282			Paint Interior Security Screens (09 91 23 00-0234)		
09 91 23 00-0283	SF		Paint Interior Security Screen, 1 Coat Primer, Brush/Roller Work	1.07	
			For Oil Based Paint, Add	0.06	
			For Electrostatic Painting, Add	0.14	
09 91 23 00-0284	SF		Paint Interior Security Screen, 1 Coat Paint, Brush/Roller Work.....	1.11	
			For Oil Based Paint, Add	0.06	
			For Electrostatic Painting, Add	0.13	
09 91 23 00-0285	SF		Paint Interior Security Screen, 2 Coats Paint, Brush/Roller Work.....	1.84	
			For Oil Based Paint, Add	0.11	
			For Electrostatic Painting, Add	0.22	
09 91 23 00-0286			Paint Interior Window Guards (09 91 23 00-0234)		
09 91 23 00-0287	SF		Paint Interior Metal Window Guards, 1 Coat Primer, Brush/Roller Work	1.07	
			For Oil Based Paint, Add	0.06	
09 91 23 00-0288	SF		Paint Interior Metal Window Guards, 1 Coat Paint, Brush/Roller Work.....	1.11	
			For Oil Based Paint, Add	0.06	
09 91 23 00-0289	SF		Paint Interior Metal Window Guards, 2 Coats Paint, Brush/Roller Work.....	1.84	
			For Oil Based Paint, Add	0.11	
09 91 23 00-0290			Paint Interior Window Trim (09 91 23 00-0234)		
09 91 23 00-0291	LF		Paint Interior Wood Window Frame And Trim, 1 Coat Primer, Brush/Roller Work.....	1.03	
			For Oil Based Paint, Add	0.06	
			For Painting One Face Of Frame Only, Deduct	-0.29	
09 91 23 00-0292	LF		Paint Interior Wood Window Frame And Trim, 1 Coat Paint, Brush/Roller Work	1.03	
			For Oil Based Paint, Add	0.06	
			For Painting One Face Of Frame Only, Deduct	-0.29	
09 91 23 00-0293	LF		Paint Interior Wood Window Frame And Trim, 2 Coats Paint, Brush/Roller Work	2.27	
			For Oil Based Paint, Add	0.13	
			For Painting One Face Of Frame Only, Deduct	-0.63	

09 Finishes
09 90 Painting And Coating
09 91 Painting



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0294	LF	Paint Interior Metal Window Frame And Trim, 1 Coat Primer, Brush/Roller Work..... Note: Brush/roller work.	1.15	
		<i>For Painting One Face Of Frame Only, Deduct</i>	-0.33	
09 91 23 00-0295	LF	Paint Interior Metal Window Frame And Trim, 1 Coat Paint, Brush/Roller Work..... Note: Brush/roller work.	1.15	
		<i>For Painting One Face Of Frame Only, Deduct</i>	-0.33	
09 91 23 00-0296	LF	Paint Interior Metal Window Frame And Trim, 2 Coats Paint, Brush/Roller Work..... Note: Brush/roller work.	2.50	
		<i>For Painting One Face Of Frame Only, Deduct</i>	-0.72	
09 91 23 00-0297		Paint Interior Cabinets And Casework (09 91 23)		
09 91 23 00-0298		Paint Interior Wood Cabinets And Casework (09 91 23 00-0297)		
09 91 23 00-0299	SF	Paint Interior Wood Cabinets And Casework, 1 Coat Paint, Brush/Roller Work..... <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	0.96 -0.05 -0.10 -0.14	
09 91 23 00-0300	SF	Paint Interior Wood Cabinets And Casework, 1 Coat Enamel Primer, 1 Coat Alkyd Or Latex Paint, Brush/Roller Work..... <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.32 -0.07 -0.13 -0.20	
09 91 23 00-0301	SF	Paint Interior Wood Cabinets And Casework, 1 Coat Enamel Primer, 2 Coats Alkyd Or Latex Paint, Brush/Roller Work..... <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	2.10 -0.11 -0.21 -0.32	
09 91 23 00-0302		Paint Exposed Metal Lockers (09 91 23 00-0297)		
09 91 23 00-0303	SF	Paint Exposed Metal Locker, 1 Coat Primer, Brush/Roller Work..... <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.00 -0.05 -0.10 -0.15	
09 91 23 00-0304	SF	Paint Exposed Metal Locker, 1 Coat Alkyd Enamel, Brush/Roller Work..... <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.02 -0.05 -0.10 -0.15	
09 91 23 00-0305	SF	Paint Exposed Metal Locker, 2 Coats Alkyd Enamel, Brush/Roller Work..... <i>For >5,000 To 10,000, Deduct</i> <i>For >10,000 To 20,000, Deduct</i> <i>For >20,000, Deduct</i>	1.88 -0.09 -0.19 -0.28	
09 91 23 00-0306		Paint Interior Stairs (09 91 23)		
09 91 23 00-0307		Paint Interior Concrete Stairs (09 91 23 00-0306) Note: Includes the riser and tread.		
09 91 23 00-0308	RSR	Paint Interior Concrete Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	13.70	
09 91 23 00-0309	RSR	Paint Interior Concrete Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work.....	13.70	
09 91 23 00-0310	RSR	Paint Interior Concrete Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work..... Note: Excludes riser.	10.51	
09 91 23 00-0311	RSR	Paint Interior Concrete Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work..... Note: Excludes riser.	20.51	
09 91 23 00-0312	RSR	Paint Interior Concrete Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work.....	27.40	
09 91 23 00-0313		Paint Interior Metal Stairs (09 91 23 00-0306) Note: Includes the riser and tread.		
09 91 23 00-0314	RSR	Paint Interior Metal Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	7.46	
09 91 23 00-0315	RSR	Paint Interior Metal Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work.....	7.18	
09 91 23 00-0316	RSR	Paint Interior Metal Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work.....	14.35	
09 91 23 00-0317		Paint Interior Wood Stairs (09 91 23 00-0306) Note: Includes the riser and tread.		
09 91 23 00-0318	RSR	Paint Interior Wood Stair (To 4' Wide), 1 Coat Primer, Brush/Roller Work.....	7.04	
09 91 23 00-0319	RSR	Paint Interior Wood Stair (To 4' Wide), 1 Coat Alkyd Enamel, Brush/Roller Work.....	7.03	
09 91 23 00-0320	RSR	Paint Interior Wood Stair (To 4' Wide), 1 Coat Non Slip Paint, Brush/Roller Work..... Note: Excludes riser.	7.17	
09 91 23 00-0321	RSR	Paint Interior Wood Stair (To 4' Wide), 1 Coat Non Slip Epoxy Coating, Brush/Roller Work..... Note: Excludes riser.	17.17	
09 91 23 00-0322	RSR	Paint Interior Wood Stair (To 4' Wide), 2 Coats Alkyd Enamel, Brush/Roller Work.....	14.07	
09 91 23 00-0323		Paint Interior Stair Nosing (09 91 23 00-0306)		
09 91 23 00-0324	LF	Paint Interior Yellow Stair Safety Strip, Up To 2", Non Slip, Brush Work.....	1.17	
09 91 23 00-0325		Paint Interior Trim (09 91 23)		
09 91 23 00-0326		Paint Interior Metal Trim (09 91 23 00-0325)		
09 91 23 00-0327	SF	Paint Interior Exposed Metal Trim, 1 Coat Primer, Brush Work.....	0.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 91 23 00-0328	SF		Paint Interior Exposed Metal Trim, 1 Coat Paint, Brush Work.....	0.99	
09 91 23 00-0329	SF		Paint Interior Exposed Metal Trim, 2 Coats Paint, Brush Work.....	1.81	
09 91 23 00-0330	SF		Paint Interior Metal Trim, 1 Coat Primer, Brush/Roller Work.....	7.08	
09 91 23 00-0331	SF		Paint Interior Metal Trim, 1 Coat Paint, Brush/Roller Work.....	0.82	
09 91 23 00-0332	SF		Paint Interior Metal Trim, 2 Coats Paint, Brush/Roller Work.....	1.50	
09 91 23 00-0333 Paint Interior Wood Trim (09 91 23 00-0325)					
09 91 23 00-0334	LF		Paint Interior Wood Trim To 6" Wide, 1 Coat Primer, Brush Work.....	0.60	
			<i>For Oil Based Paint, Add</i>	0.03	
09 91 23 00-0335	LF		Paint Interior Wood Trim To 6" Wide, 1 Coat Paint, Brush Work.....	0.66	
			<i>For Oil Based Paint, Add</i>	0.04	
09 91 23 00-0336	LF		Paint Interior Wood Trim To 6" Wide, 2 Coats Paint.....	1.37	
			<i>For Oil Based Paint, Add</i>	0.07	
09 91 23 00-0337	SF		Paint Interior Wood Trim, 1 Coat Primer, Brush Work.....	1.80	
			<i>For Oil Based Paint, Add</i>	0.10	
09 91 23 00-0338	SF		Paint Interior Wood Trim, 1 Coat Paint, Brush Work.....	2.01	
			<i>For Oil Based Paint, Add</i>	0.11	
09 91 23 00-0339	SF		Paint Interior Wood Trim, 2 Coats Paint, Brush Work.....	3.63	
			<i>For Oil Based Paint, Add</i>	0.20	
09 91 23 00-0340	SF		Paint Interior Wood Trim, 1 Coat Primer, Brush/Roller Work.....	1.48	
			<i>For Oil Based Paint, Add</i>	0.08	
09 91 23 00-0341	SF		Paint Interior Wood Trim, 1 Coat Paint, Brush/Roller Work.....	1.66	
			<i>For Oil Based Paint, Add</i>	0.09	
09 91 23 00-0342	SF		Paint Interior Wood Trim, 2 Coats Paint, Brush/Roller Work.....	2.97	
			<i>For Oil Based Paint, Add</i>	0.17	
09 91 23 00-0343 Paint Additives (09 91 23)					
09 91 23 00-0344	SF		Mildewcide/Mold Killing Paint Additive Per Each Coat.....	0.02	
09 91 23 00-0345	SF		Class "B" Fire Rating, Fire Resistant Paint Additive.....	0.04	
			<i>For Class "A" Fire Rating, Add</i>	0.04	
09 91 23 00-0346 Hand Painting Letters/Numbers (09 91 23)					
			Note: Painting on walls, floors, poles, signs, etc.		
09 91 23 00-0347	EA		Up To 1" High, Hand Paint, Per Letter/Number.....	1.83	
09 91 23 00-0348	EA		1" To 2" High, Hand Paint, Per Letter/Number.....	2.13	
09 91 23 00-0349	EA		2" To 3" High, Hand Paint, Per Letter/Number.....	3.24	
09 91 23 00-0350	EA		3" To 4" High, Hand Paint, Per Letter/Number.....	3.97	
09 91 23 00-0351	EA		4" To 6" High, Hand Paint, Per Letter/Number.....	5.47	
09 91 23 00-0352	EA		6" To 12" High, Hand Paint, Per Letter/Number.....	6.94	
09 91 23 00-0353	EA		Over 12" High, Hand Paint, Per Letter/Number.....	8.13	
09 91 23 00-0354 Glove/Mitt Application (09 91 23)					
09 91 23 00-0355 Conduit/Pipe (09 91 23 00-0354)					
09 91 23 00-0356	CSF		Acid Wash (Muriatic Acid) Conduit Or Pipe With Glove/Mitt.....	34.68	
09 91 23 00-0357	CSF		Metal Primer Conduit Or Pipe With Glove/Mitt.....	55.59	
09 91 23 00-0358	CSF		Enamel, Oil Base Paint, First Coat Conduit Or Pipe With Glove/Mitt.....	43.51	
09 91 23 00-0359	CSF		Enamel, Oil Base Paint, Second Coat Conduit Or Pipe With Glove/Mitt.....	35.39	
09 91 23 00-0360	CSF		Epoxy Coating, First Coat Conduit Or Pipe With Glove/Mitt.....	66.03	
09 91 23 00-0361	CSF		Epoxy Coating, Second Coat Conduit Or Pipe With Glove/Mitt.....	60.73	
09 91 23 00-0362 Ductwork (09 91 23 00-0354)					
09 91 23 00-0363	CSF		Acid Wash (Muriatic Acid) Ductwork With Glove/Mitt.....	34.68	
09 91 23 00-0364	CSF		Metal Primer Ductwork With Glove/Mitt.....	50.86	
09 91 23 00-0365	CSF		Enamel, Oil Base Paint Ductwork With Glove/Mitt.....	39.54	
09 91 23 00-0366	CSF		Epoxy Coating, First Coat Ductwork With Glove/Mitt.....	63.63	
09 91 23 00-0367	CSF		Epoxy Coating, Second Coat Ductwork With Glove/Mitt.....	55.16	
09 91 23 00-0368 Paint Interior Miscellaneous Metal Surfaces (09 91 23)					
09 91 23 00-0369	SF		Paint Interior Miscellaneous Metal Surfaces, 1 Coat Primer, Brush/Roller Work.....	0.62	
			<i>For Electrostatic Painting, Add</i>	0.08	
			<i>For Up To 100, Add</i>	0.38	
			<i>For >100 To 250, Add</i>	0.18	
			<i>For >250 To 500, Add</i>	0.08	
			<i>For >500 To 5,000, Deduct</i>	-0.03	
			<i>For >5,000 To 10,000, Deduct</i>	-0.06	
			<i>For >10,000 To 20,000, Deduct</i>	-0.09	
			<i>For >20,000, Deduct</i>	-0.12	

09	Finishes
09 90	Painting And Coating
09 91	Painting



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 91 23 00-0370	SF	Paint Interior Miscellaneous Metal Surfaces, 1 Coat Alkyd Enamel, Brush/Roller Work.....	0.74
		<i>For Electrostatic Painting, Add</i>	0.10
		<i>For Up To 100, Add</i>	0.47
		<i>For >100 To 250, Add</i>	0.22
		<i>For >250 To 500, Add</i>	0.10
		<i>For >2,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000 To 10,000, Deduct</i>	-0.07
		<i>For >10,000 To 20,000, Deduct</i>	-0.11
		<i>For >20,000, Deduct</i>	-0.15
09 91 23 00-0371	SF	Paint Interior Miscellaneous Metal Surfaces, 2 Coats Alkyd Enamel, Brush/Roller Work.....	1.27
		<i>For Electrostatic Painting, Add</i>	0.16
		<i>For Up To 100, Add</i>	0.83
		<i>For >100 To 250, Add</i>	0.39
		<i>For >250 To 500, Add</i>	0.17
		<i>For >2,500 To 5,000, Deduct</i>	-0.06
		<i>For >5,000 To 10,000, Deduct</i>	-0.13
		<i>For >10,000 To 20,000, Deduct</i>	-0.19
		<i>For >20,000, Deduct</i>	-0.25
09 91 23 00-0372	SF	Paint Interior Miscellaneous Metal Surfaces, 1 Coat Primer, Sprayed.....	0.84
		<i>For Electrostatic Painting, Add</i>	0.11
		<i>For Up To 100, Add</i>	0.54
		<i>For >100 To 250, Add</i>	0.26
		<i>For >250 To 500, Add</i>	0.11
		<i>For >2,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000 To 10,000, Deduct</i>	-0.08
		<i>For >10,000 To 20,000, Deduct</i>	-0.13
		<i>For >20,000, Deduct</i>	-0.17
		<i>For Backroll, Add</i>	0.11
09 91 23 00-0373	SF	Paint Interior Miscellaneous Metal Surfaces, 1 Coat Alkyd, Sprayed.....	0.84
		<i>For Electrostatic Painting, Add</i>	0.11
		<i>For Up To 100, Add</i>	0.54
		<i>For >100 To 250, Add</i>	0.26
		<i>For >250 To 500, Add</i>	0.11
		<i>For >2,500 To 5,000, Deduct</i>	-0.04
		<i>For >5,000 To 10,000, Deduct</i>	-0.08
		<i>For >10,000 To 20,000, Deduct</i>	-0.13
		<i>For >20,000, Deduct</i>	-0.17
		<i>For Backroll, Add</i>	0.11
09 91 23 00-0374	SF	Paint Interior Miscellaneous Metal Surfaces, 2 Coats Alkyd, Sprayed.....	1.30
		<i>For Electrostatic Painting, Add</i>	0.16
		<i>For Up To 100, Add</i>	0.84
		<i>For >100 To 250, Add</i>	0.40
		<i>For >250 To 500, Add</i>	0.17
		<i>For >2,500 To 5,000, Deduct</i>	-0.07
		<i>For >5,000 To 10,000, Deduct</i>	-0.13
		<i>For >10,000 To 20,000, Deduct</i>	-0.20
		<i>For >20,000, Deduct</i>	-0.26
		<i>For Backroll, Add</i>	0.17

09 91 33 Painting Materials (09 91)

Note: Paint per gallon for owners to obtain extra paint. Not to be used in conjunction with other painting tasks.

09 91 33 00-0001	Primer <small>(09 91 33)</small>		
09 91 33 00-0002	GAL	Alkyd Primer/Sealer, Interior, 500 SF Per Gallon.....	34.69
09 91 33 00-0003	GAL	Alkyd Wood Primer, Exterior, 400 SF Per Gallon.....	24.75
09 91 33 00-0004	GAL	Prime Coat Oil Wood Primer, 310 SF Per Gallon.....	31.38
09 91 33 00-0005	GAL	Catalyzed Epoxy Primer, Two Component Type, 425 SF Per Gallon.....	79.38
09 91 33 00-0006	EA	Cement Base Primer, 25 LB Sack.....	25.88
09 91 33 00-0007	GAL	Alkali Resistant Concrete And Masonry Primer, Exterior, 225 SF Per Gallon.....	39.90
09 91 33 00-0008	GAL	Alkali Resistant Concrete And Masonry Primer, Interior, 225 SF Per Gallon.....	32.03
09 91 33 00-0009	GAL	Acrylic Latex Primer, Flat Exterior, Fast Drying Wood Undercoat And Back Primer, 400 SF Per Gallon.....	24.75
09 91 33 00-0010	GAL	Acrylic (Vinyl Acrylic) Block Filler, 50 SF Per Gallon.....	22.48
09 91 33 00-0011	GAL	Acrylic (Vinyl Acrylic) Rust Inhibiting Metal, Primer - 500 SF Per Gallon: Paint - 260 SF Per Gallon.....	39.63
09 91 33 00-0012	GAL	Acrylic Heavy Duty Wall Primer/Sealer, Low Odor Type, Alkali-Resistant, 800 SF Per Gallon.....	33.00
09 91 33 00-0013	GAL	Acrylic (Vinyl Acrylic) Undercoat, All Purpose, Interior/Exterior, 500 SF Per Gallon.....	33.00
09 91 33 00-0014	GAL	Latex Wood Primer, Exterior, 300 SF Per Gallon.....	37.20
09 91 33 00-0015	GAL	Linseed (Oil Base) Primer, Exterior/Interior, 300 SF Per Gallon.....	24.26
09 91 33 00-0016	GAL	Red Alkyd Primer, 500 SF Per Gallon.....	59.37
09 91 33 00-0017	GAL	Wood Sealer/Primer, Interior, Clear, 600 SF Per Gallon.....	25.88
09 91 33 00-0018	GAL	Zinc Chromate Primer, 300 SF Per Gallon.....	20.70
09 91 33 00-0019	GAL	Zinc Dust/Zinc Oxide Primer, 300 SF Per Gallon.....	53.54
09 91 33 00-0020	GAL	Stain Killer, Alcohol Base.....	33.39
09 91 33 00-0021	GAL	Sealer, Primer Kilz, 400 SF Per Gallon.....	37.67
09 91 33 00-0022	Paint <small>(09 91 33)</small>		
09 91 33 00-0023	GAL	Aluminum Fiber Roof Coat On Composition Roof, 50 SF Per Gallon.....	18.12
09 91 33 00-0024	GAL	Acrylic Urethane Sealer.....	89.83
09 91 33 00-0025	GAL	Asphalt-Fiber Roof And Foundation Coating, Solvent Type.....	9.71
		Note: 75 SF per gallon on roof or concrete, 100 SF per gallon on metal.	
09 91 33 00-0026	GAL	Concrete Enamel Epoxy, 350 SF Per Gallon.....	56.13
09 91 33 00-0027	GAL	Concrete Acrylic Sealer, 400 SF Per Gallon.....	29.44
09 91 33 00-0028	GAL	Tar Emulsion, Driveway Coating, 120 SF Per Gallon.....	9.71
09 91 33 00-0029	GAL	Acrylic Latex, Driveway Coating, 250 SF Per Gallon.....	14.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
09 91 33 00-0030 GAL Exterior, Oil Base, Gloss Enamel, 400 SF Per Gallon	29.76		
09 91 33 00-0031 GAL Exterior, Oil Base, Gloss, 400 SF Per Gallon	39.63		
09 91 33 00-0032 GAL Exterior, Oil Base, Semi-Gloss, 400 SF Per Gallon	32.35		
09 91 33 00-0033 GAL Exterior, Flat, Oil Base	29.66		
09 91 33 00-0034 GAL Exterior, Latex, Semi-Gloss, 400 SF Per Gallon	28.15		
09 91 33 00-0035 GAL Exterior, Flat Latex, Trim Paint, 500 SF Per Gallon	33.16		
09 91 33 00-0036 GAL Exterior, Latex Flat Paint, 300 SF Per Gallon	29.44		
09 91 33 00-0037 GAL Exterior, Water Base, Latex Gloss Enamel	41.91		
09 91 33 00-0038 GAL Cold Galvanizing Paint	202.45		
09 91 33 00-0039 GAL High Heat Paint	84.05		
09 91 33 00-0040 GAL Heat Resistant Paint	56.03		
09 91 33 00-0041 GAL Zinc Chromate Paint	50.69		
09 91 33 00-0042 QT Anti-Rust Enamel, 500 SF Per Quart	20.01		
09 91 33 00-0043 GAL Rust Inhibitor, Ferrous Metal	56.03		
09 91 33 00-0044 GAL Masonry Waterproofing, 100 SF Per Gallon	29.44		
09 91 33 00-0045 GAL Alkyd Latex, Black	37.80		
09 91 33 00-0046 GAL Alkyd Latex, White	37.80		
09 91 33 00-0047 GAL Alkyd Latex, Colors	45.58		
09 91 33 00-0048 QT Wrought Iron Paint, Black	51.14		
09 91 33 00-0049 GAL Vinyl Paint	49.50		
09 91 33 00-0050 GAL Silicone Alkyd	60.17		
09 91 33 00-0051 GAL 2 Component Solvent Based Acrylic Epoxy	61.14		
09 91 33 00-0052 GAL 2 Component Solvent Based Polyester Epoxy	76.67		
09 91 33 00-0053 GAL Chlorinated Rubber	56.29		
09 91 33 00-0054 GAL Polyamide Epoxy Sealer	58.23		
09 91 33 00-0055 GAL Coal Tar Epoxy	41.73		
09 91 33 00-0056 GAL Swimming Pool Enamel, 350 SF Per Gallon	52.09		
09 91 33 00-0057 GAL Swimming Pool Epoxy Or Urethane Base	67.94		
09 91 33 00-0058 GAL Swimming Pool Rubber Base	46.59		
09 91 33 00-0059 GAL Interior, Latex Flat Paint, 300 SF Per Gallon	29.60		
09 91 33 00-0060 GAL Interior, Latex Eggshell Or Semi-Gloss Enamel, 300 SF Per Gallon	33.16		
09 91 33 00-0061 GAL Interior, Fire-Retardant Flat Paint, 200 SF Per Gallon	60.66		
09 91 33 00-0062 GAL Interior, Ceiling White Latex Flat, 350 SF Per Gallon	20.54		
09 91 33 00-0063 GAL Linseed Oil	17.95		
09 91 33 00-0064 GAL Latex Floor Paint, 300 SF Per Gallon	29.44		
09 91 33 00-0065 GAL Acrylic Floor Paint, 400 SF Per Gallon	33.16		
09 91 33 00-0066 GAL Texture Paint, Sand Texture Latex, Armor Coat, 100 SF Per Gallon	30.33		
09 91 33 00-0067 GAL Acoustic Spray-On Texture, Finish	24.37		
09 91 33 00-0068 Stain, Varnish (09 91 33)			
09 91 33 00-0069 GAL Thompson Water Sealer, 150 SF Per Gallon	16.82		
09 91 33 00-0070 GAL Latex Redwood Stain, Water Base, 300 SF Per Gallon	31.38		
09 91 33 00-0071 GAL Redwood Oil Stain, 300 SF Per Gallon	27.98		
09 91 33 00-0072 GAL Varnish, Clear	21.36		
09 91 33 00-0073 GAL Penetrating Water-Repellent Stain	15.51		
09 91 33 00-0074 GAL Redwood Hue Or Clear Stain	13.87		
09 91 33 00-0075 GAL Polyurethane	24.34		
09 91 33 00-0076 GAL Lacquer, Semi-Gloss	29.53		
09 91 33 00-0077 GAL Shellac, Clear	38.74		
09 91 33 00-0078 GAL Acetone	12.78		
09 91 33 00-0079 GAL Paint Thinner	3.15		
09 91 33 00-0080 GAL Shellac Or Lacquer Thinner	12.94		
09 91 33 00-0081 GAL Turpentine	17.79		
09 91 33 00-0082 GAL Wood Filler Paste	30.41		
09 91 33 00-0083 GAL Wood Preservative, Pentachlorophenol, General Purpose, 40%, 150 SF Per Gallon	24.26		
09 91 33 00-0084 GAL Waterbased Alkyd Urethane (Sherwin Williams B53W01153)	59.41		
09 91 43 Surface Preparation (09 91)			
See CSI section 09 01 90 52-0000 for preparation on painted or unpainted surfaces.			
09 93 Staining And Transparent Finishing (09 90)			
Note: Includes light sanding or screening between coats.			
09 93 13 Exterior Staining And Finishing (09 93)			
09 93 13 53 Exterior Finishing (09 93 13)			
09 93 13 53-0001 Stain Sealer (09 93 13 53)			
Note: Measured by surface area of wall or ceiling.			
09 93 13 53-0002 SF Stain Sealer, Brush Work	0.71		
<i>For Ceiling Work, Add</i>			
<i>For >5,000 To 10,000, Deduct</i>			0.10
<i>For >10,000 To 20,000, Deduct</i>			-0.02
<i>For >20,000, Deduct</i>			-0.04
			-0.06
09 93 13 53-0003 SF Stain Sealer, Brush/Roller Work	0.57		
<i>For Ceiling Work, Add</i>			0.08
<i>For >5,000 To 10,000, Deduct</i>			-0.02
<i>For >10,000 To 20,000, Deduct</i>			-0.03
<i>For >20,000, Deduct</i>			-0.05

09	09 Finishes
	09 90 Painting And Coating
	09 93 Staining And Transparent Finishing



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 93 13 53-0004	SF		Stain Sealer, Sprayed	0.22	
			<i>For Ceiling Work, Add</i>	0.02	
			<i>For >5,000 To 10,000, Deduct</i>	-0.01	
			<i>For >10,000 To 20,000, Deduct</i>	-0.01	
			<i>For >20,000, Deduct</i>	-0.02	
09 93 23			Interior Staining And Finishing (09 93)		
			Note: VOC compliant in all regulated areas, review specifications for levels.		
09 93 23 13			Interior Staining (09 93 23)		
09 93 23 13-0001			Stain Wood Trim (09 93 23 13)		
09 93 23 13-0002	LF		Stain Wood Trim, Up To 6" Wide, 1 Coat Stain, With Brush And Wipe Off	0.86	
			<i>For Up To 100, Add</i>	0.62	
			<i>For >100 To 250, Add</i>	0.29	
			<i>For >250 To 500, Add</i>	0.13	
			<i>For >4,000, Deduct</i>	-0.04	
09 93 23 13-0003	SF		Stain Wood Trim, 1 Coat Stain, With Brush And Wipe Off	1.27	
			<i>For Up To 100, Add</i>	0.91	
			<i>For >100 To 250, Add</i>	0.43	
			<i>For >250 To 500, Add</i>	0.18	
			<i>For >4,000, Deduct</i>	-0.06	
09 93 23 13-0004			Stain Wood Floor (09 93 23 13)		
09 93 23 13-0005	SF		Stain Or Varnish Wood Floor, 1 Coat Stain, Brush Work	0.38	
			<i>For Up To 100, Add</i>	0.24	
			<i>For >100 To 250, Add</i>	0.12	
			<i>For >250 To 500, Add</i>	0.05	
			<i>For >4,000, Deduct</i>	-0.02	
09 93 23 13-0006	SF		Stain Or Varnish Wood Floor, 1 Coat Stain, Brush/Roller Work	0.28	
			<i>For Up To 100, Add</i>	0.17	
			<i>For >100 To 250, Add</i>	0.08	
			<i>For >250 To 500, Add</i>	0.04	
			<i>For >4,000, Deduct</i>	-0.01	
09 93 23 13-0007			Stain Wood Door And Window (09 93 23 13)		
09 93 23 13-0008	EA		Stain Wood Door, 1 Coat Stain With Brush And Wipe Off Wood Door (Per Face)	41.57	
			<i>For Up To 4, Add</i>	30.53	
			<i>For >4 To 10, Add</i>	14.28	
			<i>For >10 To 20, Add</i>	6.13	
			<i>For >160, Deduct</i>	-2.08	
09 93 23 13-0009	EA		Stain Wood Window, 1 Coat Stain With Brush And Wipe Off Wood Window And Frame (Per Face)	29.34	
			<i>For Up To 4, Add</i>	21.05	
			<i>For >4 To 10, Add</i>	9.87	
			<i>For >10 To 20, Add</i>	4.24	
			<i>For >160, Deduct</i>	-1.47	
09 93 23 13-0010			Stain Wood Cabinet (09 93 23 13)		
09 93 23 13-0011	SF		Stain Cabinet, 1 Coat Stain With Brush And Wipe	1.02	
09 93 23 53			Interior Finishing (09 93 23)		
09 93 23 53-0001			Concrete Finishes (09 93 23 53)		
09 93 23 53-0002	SF		Finish Concrete Floor, 1 Coat Polyurethane	0.59	
			<i>For Up To 100, Add</i>	0.37	
			<i>For >100 To 250, Add</i>	0.18	
			<i>For >250 To 500, Add</i>	0.08	
			<i>For >4,000, Deduct</i>	-0.03	
09 93 23 53-0003			Wood Trim Finishes (09 93 23 53)		
09 93 23 53-0004	SF		Finish Wood Trim, 1 Coat Sealer And 1 Coat Varnish Or Polyurethane	1.01	
			<i>For Up To 100, Add</i>	0.69	
			<i>For >100 To 250, Add</i>	0.33	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >4,000, Deduct</i>	-0.05	
09 93 23 53-0005	SF		Finish Wood Trim, 1 Coat Varnish Or Polyurethane	0.69	
			<i>For Up To 100, Add</i>	0.49	
			<i>For >100 To 250, Add</i>	0.23	
			<i>For >250 To 500, Add</i>	0.10	
			<i>For >4,000, Deduct</i>	-0.03	
09 93 23 53-0006			Wood Floor Finishes (09 93 23 53)		



Finishes	09	
Painting And Coating	09 90	9
Staining And Transparent Finishing	09 93	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 93 23 53-0007 SF Refinish Wood Floor, 2 Coats Polyurethane .....2.44 Note: Includes sanding existing floor. <i>For Up To 100, Add</i> 1.76 <i>For >100 To 250, Add</i> 0.82 <i>For >250 To 500, Add</i> 0.35 <i>For >4,000, Deduct</i> -0.12		
09 93 23 53-0008 SF Polyurethane Wood Floor, 1 Coat Polyurethane, With Wool Applicator Or Brush Work .....0.52 Note: Includes screening between coats. <i>For Up To 100, Add</i> 0.35 <i>For >100 To 250, Add</i> 0.17 <i>For >250 To 500, Add</i> 0.07 <i>For >4,000, Deduct</i> -0.03		
09 93 23 53-0009 SF Refinish Wood Floor, 1 Coat Sealer And 2 Coats Polyurethane .....2.77 Note: Includes sanding existing floor. <i>For Up To 100, Add</i> 1.98 <i>For >100 To 250, Add</i> 0.93 <i>For >250 To 500, Add</i> 0.40 <i>For >4,000, Deduct</i> -0.14		
09 93 23 53-0010 Wood Door And Window Finishes (09 93 23 53) See CSI section 08 14 16 00-0627 for factory finish.		
09 93 23 53-0011 EA Varnish Or Polyurethane Wood Door, 1 Coat Shellac (Per Face).....30.01 <i>For Up To 4, Add</i> 21.99 <i>For >4 To 10, Add</i> 10.29 <i>For >10 To 20, Add</i> 4.42 <i>For >160, Deduct</i> -1.50		
09 93 23 53-0012 EA Varnish Or Polyurethane Wood Door, 3 Coats Shellac, With Light Sanding Between Coats (Per Face).....90.58 <i>For Up To 4, Add</i> 65.57 <i>For >4 To 10, Add</i> 30.72 <i>For >10 To 20, Add</i> 13.19 <i>For >160, Deduct</i> -4.53		
09 93 23 53-0013 Cabinet Finishes (09 93 23 53)		
09 93 23 53-0014 SF Finish Cabinet, 1 Coat Shellac, Varnish Or Polyurethane.....1.03		
09 93 23 53-0015 Gym, Stage And Dance Floor Finishes (09 93 23 53)		
09 93 23 53-0016 SF Yearly Maintenance Refinish Of Gym, Stage Or Dance Floor .....1.29 Note: Includes screening, one coat of finish and buffing. Excludes repainting of game lines.		
09 93 23 53-0017 SF Finish New Elementary School Wood Gym, Stage Or Dance Floor.....3.07 Note: Includes sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats. <i>For Stage Or Dance Floors, Deduct</i> -0.06		
09 93 23 53-0018 SF Finish New Middle Or Junior School Wood Gym, Stage Or Dance Floor .....3.14 Note: Includes sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats. <i>For Stage Or Dance Floors, Deduct</i> -0.06		
09 93 23 53-0019 SF Finish New High School Wood Gym, Stage Or Dance Floor .....3.21 Note: Includes sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats. <i>For Stage Or Dance Floors, Deduct</i> -0.06		
09 93 23 53-0020 SF Refinish Existing Elementary School Wood Gym, Stage Or Dance Floor .....3.07 Note: Includes removal of existing finish and sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats. <i>For Stage Or Dance Floors, Deduct</i> -0.06		
09 93 23 53-0021 SF Refinish Existing Middle Or Junior School Wood Gym, Stage Or Dance Floor.....3.14 Note: Includes removal of existing finish and sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats. <i>For Stage Or Dance Floors, Deduct</i> -0.06		
09 93 23 53-0022 SF Refinish Existing High School Wood Gym, Stage Or Dance Floor.....3.21 Note: Includes removal of existing finish and sanding to level, vacuuming, tack cloth wiping, seal coat, light sanding between coats, painting of all game lines, logos, court markings and solid paint areas, seal and finish coats per manufacturer's instructions, minimum four coats total with not less than two finish coats. <i>For Stage Or Dance Floors, Deduct</i> -0.06		
09 96 High-Performance Coatings (09 90)		
09 96 23 Graffiti-Resistant Coatings (09 96)		
09 96 23 00-0001 Anti-Graffiti Coating (09 96 23)		
09 96 23 00-0002 SF Sacrificial Anti-Graffiti Coating, Per Coat .....1.05 <i>For Up To 100, Add</i> 0.65 <i>For >100 To 250, Add</i> 0.31 <i>For >250 To 500, Add</i> 0.13		

09 Finishes
09 90 Painting And Coating
09 96 High-Performance Coatings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 96 23 00-0003	SF		Permanent (Non-Sacrificial) Anti-Graffiti Coating, Per Coat.....	1.11	
			<i>For Up To 100, Add</i>	0.66	
			<i>For >100 To 250, Add</i>	0.32	
			<i>For >250 To 500, Add</i>	0.14	
09 96 53			Elastomeric Coatings (09 96)		
09 96 53 00-0001			Elastomeric (09 96 53)		
			Note: Per coat.		
09 96 53 00-0002	SF		Paint, Brush, Elastomeric, Per Coat.....	1.89	
			<i>For Work >20', Add</i>	0.31	
			Note: Applied only to work area above 20'.		
			<i>For Up To 100, Add</i>	1.02	
			<i>For >100 To 250, Add</i>	0.49	
			<i>For >250 To 500, Add</i>	0.22	
			<i>For >2,500 To 5,000, Deduct</i>	-0.09	
			<i>For >5,000 To 10,000, Deduct</i>	-0.19	
			<i>For >10,000 To 20,000, Deduct</i>	-0.28	
			<i>For >20,000, Deduct</i>	-0.38	
09 96 53 00-0003	SF		Paint, Roller, Elastomeric, Per Coat.....	1.53	
			<i>For Work >20', Add</i>	0.22	
			Note: Applied only to work area above 20'.		
			<i>For Up To 100, Add</i>	0.75	
			<i>For >100 To 250, Add</i>	0.37	
			<i>For >250 To 500, Add</i>	0.16	
			<i>For >2,500 To 5,000, Deduct</i>	-0.08	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.23	
			<i>For >20,000, Deduct</i>	-0.31	
09 96 53 00-0004	SF		Paint, Conventional Spray, Elastomeric, Per Coat.....	1.48	
			<i>For Work >20', Add</i>	0.17	
			Note: Applied only to work area above 20'.		
			<i>For Up To 100, Add</i>	0.64	
			<i>For >100 To 250, Add</i>	0.32	
			<i>For >250 To 500, Add</i>	0.14	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.15	
			<i>For >10,000 To 20,000, Deduct</i>	-0.22	
			<i>For >20,000, Deduct</i>	-0.30	
09 96 53 00-0005	SF		Paint, Airless Spray, Elastomeric, Per Coat.....	1.34	
			<i>For Work >20', Add</i>	0.14	
			Note: Applied only to work area above 20'.		
			<i>For Up To 100, Add</i>	0.53	
			<i>For >100 To 250, Add</i>	0.27	
			<i>For >250 To 500, Add</i>	0.12	
			<i>For >2,500 To 5,000, Deduct</i>	-0.07	
			<i>For >5,000 To 10,000, Deduct</i>	-0.13	
			<i>For >10,000 To 20,000, Deduct</i>	-0.20	
			<i>For >20,000, Deduct</i>	-0.27	
09 96 56			Epoxy Coatings (09 96)		
09 96 56 00-0001			High Build Epoxy (09 96 56)		
09 96 56 00-0002	SF		High Build Epoxy - 50 Mil.....	2.37	
09 96 56 00-0003			Laminated Epoxy With Fiberglass (09 96 56)		
09 96 56 00-0004	SF		Laminated Epoxy With Fiberglass.....	4.41	
09 96 66			Aggregate Wall Coatings (09 96)		
09 96 66 00-0001			Troweled On (09 96 66)		
09 96 66 00-0002	SF		Exposed Aggregate - 1/16" To 1/4" - Troweled On.....	3.38	
09 96 66 00-0003	SF		Exposed Aggregate - 1/2" To 5/8" Troweled On.....	6.04	
09 96 66 00-0004	SF		Exposed Aggregate - 1" Troweled On.....	9.06	
09 96 66 00-0005			Sprayed On (09 96 66)		
09 96 66 00-0006	SF		Exposed Aggregate - 1/8" - Sprayed On.....	2.76	
09 97			Special Coatings (09 90)		
09 97 13			Steel Coatings (09 97)		
09 97 13 23			Exterior Steel Coatings (09 97 13)		
			Note: Steel Structure Painting Council, SSPC; Surface Preparation, SP.		
09 97 13 23-0001			Surface Preparation For Structural Steel (09 97 13 23)		
			Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		



Finishes	09	2
Painting And Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0002 SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23-0001)</small>		
09 97 13 23-0003 SF Type 1 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.15	
For Up To 100, Add	0.86	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
09 97 13 23-0004 SF Type 2 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.10	
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 97 13 23-0005 SF Type 3 Structural Steel SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.10	
For Up To 100, Add	0.83	
For >100 To 250, Add	0.39	
For >250 To 500, Add	0.17	
09 97 13 23-0006 SF Up To 14" Diameter Pipe SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.49	
For Up To 100, Add	1.12	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.22	
09 97 13 23-0007 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23-0001)</small>		
09 97 13 23-0008 SF Type 1 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation	0.83	
For Up To 100, Add	0.56	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.11	
09 97 13 23-0009 SF Type 2 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation	0.74	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
09 97 13 23-0010 SF Type 3 Structural Steel SP7 Brush Off Blast Cleaning Surface Preparation	0.73	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.10	
09 97 13 23-0011 SF Up To 14" Diameter Pipe SP7 Brush Off Blast Cleaning Surface Preparation	1.05	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 23-0012 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23-0001)</small>		
09 97 13 23-0013 SF Type 1 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation	2.15	
For Up To 100, Add	1.50	
For >100 To 250, Add	0.71	
For >250 To 500, Add	0.30	
09 97 13 23-0014 SF Type 2 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation	1.87	
For Up To 100, Add	1.29	
For >100 To 250, Add	0.61	
For >250 To 500, Add	0.26	
09 97 13 23-0015 SF Type 3 Structural Steel SP6 Commercial Blast Cleaning Surface Preparation	1.74	
For Up To 100, Add	1.20	
For >100 To 250, Add	0.56	
For >250 To 500, Add	0.24	
09 97 13 23-0016 SF Up To 14" Diameter Pipe SP6 Commercial Blast Cleaning Surface Preparation	2.67	
For Up To 100, Add	1.89	
For >100 To 250, Add	0.89	
For >250 To 500, Add	0.38	
09 97 13 23-0017 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23-0001)</small>		
09 97 13 23-0018 SF Type 1 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	4.17	
For Up To 100, Add	2.93	
For >100 To 250, Add	1.38	
For >250 To 500, Add	0.59	
09 97 13 23-0019 SF Type 2 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	3.57	
For Up To 100, Add	2.49	
For >100 To 250, Add	1.17	
For >250 To 500, Add	0.50	
09 97 13 23-0020 SF Type 3 Structural Steel SP5 White Metal Blast Cleaning Surface Preparation	3.29	
For Up To 100, Add	2.28	
For >100 To 250, Add	1.07	
For >250 To 500, Add	0.46	
09 97 13 23-0021 SF Up To 14" Diameter Pipe SP5 White Metal Blast Cleaning Surface Preparation	5.01	
For Up To 100, Add	3.57	
For >100 To 250, Add	1.67	
For >250 To 500, Add	0.72	
09 97 13 23-0022 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Structural Steel <small>(09 97 13 23-0001)</small>		

09 Finishes

09 90 Painting And Coating

09 97 Special Coatings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 97 13 23-0023	SF Type 1 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.12	
	<i>For Up To 100, Add</i>	2.18	
	<i>For >100 To 250, Add</i>	1.02	
	<i>For >250 To 500, Add</i>	0.44	
09 97 13 23-0024	SF Type 2 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	2.65	
	<i>For Up To 100, Add</i>	1.85	
	<i>For >100 To 250, Add</i>	0.87	
	<i>For >250 To 500, Add</i>	0.37	
09 97 13 23-0025	SF Type 3 Structural Steel SP10 Near White Metal Blast Cleaning Surface Preparation.....	2.50	
	<i>For Up To 100, Add</i>	1.74	
	<i>For >100 To 250, Add</i>	0.82	
	<i>For >250 To 500, Add</i>	0.35	
09 97 13 23-0026	SF Up To 14" Diameter Pipe SP10 Near White Metal Blast Cleaning Surface Preparation.....	3.64	
	<i>For Up To 100, Add</i>	2.59	
	<i>For >100 To 250, Add</i>	1.22	
	<i>For >250 To 500, Add</i>	0.52	
09 97 13 23-0027	Protective Coatings For Tanks And Structural Steel <small>(09 97 13 23)</small>		
	Note: Type 1 structural steel - up to 2 SF per LF, Type 2 structural steel - over 2 SF to 5 SF per LF, Type 3 structural steel - over 5 SF per LF, and piping - under 14" diameter.		
09 97 13 23-0028	1.5 Mil Prime Coat For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0029	SF Spray Type 1 Structural Steel 1.5 Mil Prime Coat.....	0.90	
	<i>For Up To 100, Add</i>	0.61	
	<i>For >100 To 250, Add</i>	0.29	
	<i>For >250 To 500, Add</i>	0.12	
09 97 13 23-0030	SF Spray Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.68	
	<i>For Up To 100, Add</i>	0.45	
	<i>For >100 To 250, Add</i>	0.21	
	<i>For >250 To 500, Add</i>	0.09	
09 97 13 23-0031	SF Spray Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.60	
	<i>For Up To 100, Add</i>	0.39	
	<i>For >100 To 250, Add</i>	0.19	
	<i>For >250 To 500, Add</i>	0.08	
09 97 13 23-0032	SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.10	
	<i>For Up To 100, Add</i>	0.76	
	<i>For >100 To 250, Add</i>	0.36	
	<i>For >250 To 500, Add</i>	0.15	
09 97 13 23-0033	SF Brush Type 1 Structural Steel 1.5 Mil Prime Coat.....	1.10	
	<i>For Up To 100, Add</i>	0.76	
	<i>For >100 To 250, Add</i>	0.36	
	<i>For >250 To 500, Add</i>	0.15	
09 97 13 23-0034	SF Brush Type 2 Structural Steel 1.5 Mil Prime Coat.....	0.81	
	<i>For Up To 100, Add</i>	0.55	
	<i>For >100 To 250, Add</i>	0.26	
	<i>For >250 To 500, Add</i>	0.11	
09 97 13 23-0035	SF Brush Type 3 Structural Steel 1.5 Mil Prime Coat.....	0.72	
	<i>For Up To 100, Add</i>	0.48	
	<i>For >100 To 250, Add</i>	0.23	
	<i>For >250 To 500, Add</i>	0.10	
09 97 13 23-0036	SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime Coat.....	1.33	
	<i>For Up To 100, Add</i>	0.93	
	<i>For >100 To 250, Add</i>	0.44	
	<i>For >250 To 500, Add</i>	0.19	
09 97 13 23-0037	1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0038	SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.66	
	<i>For Up To 100, Add</i>	1.79	
	<i>For >100 To 250, Add</i>	0.84	
	<i>For >250 To 500, Add</i>	0.36	
09 97 13 23-0039	SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.91	
	<i>For Up To 100, Add</i>	1.24	
	<i>For >100 To 250, Add</i>	0.59	
	<i>For >250 To 500, Add</i>	0.25	
09 97 13 23-0040	SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	1.77	
	<i>For Up To 100, Add</i>	1.14	
	<i>For >100 To 250, Add</i>	0.54	
	<i>For >250 To 500, Add</i>	0.23	
09 97 13 23-0041	SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.26	
	<i>For Up To 100, Add</i>	2.22	
	<i>For >100 To 250, Add</i>	1.05	
	<i>For >250 To 500, Add</i>	0.45	
09 97 13 23-0042	SF Spray Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.01	
	<i>For Up To 100, Add</i>	1.35	
	<i>For >100 To 250, Add</i>	0.64	
	<i>For >250 To 500, Add</i>	0.27	
09 97 13 23-0043	SF Spray Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.43	
	<i>For Up To 100, Add</i>	0.93	
	<i>For >100 To 250, Add</i>	0.44	
	<i>For >250 To 500, Add</i>	0.19	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0044 SF Spray Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.32	
For Up To 100, Add	0.85	
For >100 To 250, Add	0.40	
For >250 To 500, Add	0.17	
09 97 13 23-0045 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.45	
For Up To 100, Add	1.67	
For >100 To 250, Add	0.79	
For >250 To 500, Add	0.34	
09 97 13 23-0046 SF Brush Type 1 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	3.48	
For Up To 100, Add	2.40	
For >100 To 250, Add	1.13	
For >250 To 500, Add	0.49	
09 97 13 23-0047 SF Brush Type 2 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.47	
For Up To 100, Add	1.66	
For >100 To 250, Add	0.78	
For >250 To 500, Add	0.34	
09 97 13 23-0048 SF Brush Type 3 Structural Steel 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	2.28	
For Up To 100, Add	1.52	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	
09 97 13 23-0049 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	4.28	
For Up To 100, Add	2.99	
For >100 To 250, Add	1.41	
For >250 To 500, Add	0.61	
09 97 13 23-0050 SF Brush Type 1 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	2.62	
For Up To 100, Add	1.80	
For >100 To 250, Add	0.85	
For >250 To 500, Add	0.37	
09 97 13 23-0051 SF Brush Type 2 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.86	
For Up To 100, Add	1.25	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
09 97 13 23-0052 SF Brush Type 3 Structural Steel 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.71	
For Up To 100, Add	1.14	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 23-0053 SF Brush Up To 14" Diameter Pipe 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	3.22	
For Up To 100, Add	2.25	
For >100 To 250, Add	1.06	
For >250 To 500, Add	0.46	
09 97 13 23-0054 Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Structural Steel (09 97 13 23-0027)	2.07	
09 97 13 23-0055 SF Spray Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.40	
For Up To 100, Add	1.40	
For >100 To 250, Add	0.66	
For >250 To 500, Add	0.28	
09 97 13 23-0056 SF Spray Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.68	
For Up To 100, Add	1.12	
For >100 To 250, Add	0.53	
For >250 To 500, Add	0.23	
09 97 13 23-0057 SF Spray Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.53	
For Up To 100, Add	1.01	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
09 97 13 23-0058 SF Spray Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.58	
For Up To 100, Add	1.77	
For >100 To 250, Add	0.84	
For >250 To 500, Add	0.36	
09 97 13 23-0059 SF Spray Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.31	
For Up To 100, Add	0.89	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
09 97 13 23-0060 SF Spray Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.08	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 23-0061 SF Spray Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat	0.98	
For Up To 100, Add	0.65	
For >100 To 250, Add	0.31	
For >250 To 500, Add	0.13	
09 97 13 23-0062 SF Spray Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat	1.65	
For Up To 100, Add	1.14	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.23	
09 97 13 23-0063 SF Brush Type 1 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.49	
For Up To 100, Add	1.71	
For >100 To 250, Add	0.81	
For >250 To 500, Add	0.35	
09 97 13 23-0064 SF Brush Type 2 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats	2.02	
For Up To 100, Add	1.38	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	

09 Finishes

09 90 Painting And Coating

09 97 Special Coatings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 97 13 23-0065	SF Brush Type 3 Structural Steel Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....1.84 <i>For Up To 100, Add</i> 1.24 <i>For >100 To 250, Add</i> 0.59 <i>For >250 To 500, Add</i> 0.25		
09 97 13 23-0066	SF Brush Up To 14" Diameter Pipe Touch-Up And Two 1.5 Mil Alkyd Finish Coats .....3.13 <i>For Up To 100, Add</i> 2.19 <i>For >100 To 250, Add</i> 1.03 <i>For >250 To 500, Add</i> 0.44		
09 97 13 23-0067	SF Brush Type 1 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....1.59 <i>For Up To 100, Add</i> 1.10 <i>For >100 To 250, Add</i> 0.52 <i>For >250 To 500, Add</i> 0.22		
09 97 13 23-0068	SF Brush Type 2 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....1.30 <i>For Up To 100, Add</i> 0.89 <i>For >100 To 250, Add</i> 0.42 <i>For >250 To 500, Add</i> 0.18		
09 97 13 23-0069	SF Brush Type 3 Structural Steel Touch-Up And One 1.5 Mil Alkyd Finish Coat .....1.18 <i>For Up To 100, Add</i> 0.80 <i>For >100 To 250, Add</i> 0.38 <i>For >250 To 500, Add</i> 0.16		
09 97 13 23-0070	SF Brush Up To 14" Diameter Pipe Touch-Up And One 1.5 Mil Alkyd Finish Coat .....2.00 <i>For Up To 100, Add</i> 1.40 <i>For >100 To 250, Add</i> 0.66 <i>For >250 To 500, Add</i> 0.28		
09 97 13 23-0071	2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0072	SF Spray Type 1 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....3.32 <i>For Up To 100, Add</i> 2.06 <i>For >100 To 250, Add</i> 0.98 <i>For >250 To 500, Add</i> 0.43		
09 97 13 23-0073	SF Spray Type 2 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....2.39 <i>For Up To 100, Add</i> 1.40 <i>For >100 To 250, Add</i> 0.67 <i>For >250 To 500, Add</i> 0.29		
09 97 13 23-0074	SF Spray Type 3 Structural Steel 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....2.10 <i>For Up To 100, Add</i> 1.19 <i>For >100 To 250, Add</i> 0.57 <i>For >250 To 500, Add</i> 0.25		
09 97 13 23-0075	SF Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....3.77 <i>For Up To 100, Add</i> 2.38 <i>For >100 To 250, Add</i> 1.13 <i>For >250 To 500, Add</i> 0.49		
09 97 13 23-0076	SF Spray Type 1 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....2.32 <i>For Up To 100, Add</i> 1.44 <i>For >100 To 250, Add</i> 0.69 <i>For >250 To 500, Add</i> 0.30		
09 97 13 23-0077	SF Spray Type 2 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....1.67 <i>For Up To 100, Add</i> 0.98 <i>For >100 To 250, Add</i> 0.47 <i>For >250 To 500, Add</i> 0.20		
09 97 13 23-0078	SF Spray Type 3 Structural Steel Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....1.47 <i>For Up To 100, Add</i> 0.83 <i>For >100 To 250, Add</i> 0.40 <i>For >250 To 500, Add</i> 0.17		
09 97 13 23-0079	SF Spray Up To 14" Diameter Pipe Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats .....2.65 <i>For Up To 100, Add</i> 1.68 <i>For >100 To 250, Add</i> 0.80 <i>For >250 To 500, Add</i> 0.35		
09 97 13 23-0080	2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0081	SF Spray Type 1 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....3.52 <i>For Up To 100, Add</i> 2.09 <i>For >100 To 250, Add</i> 1.00 <i>For >250 To 500, Add</i> 0.44		
09 97 13 23-0082	SF Spray Type 2 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....2.57 <i>For Up To 100, Add</i> 1.43 <i>For >100 To 250, Add</i> 0.69 <i>For >250 To 500, Add</i> 0.30		
09 97 13 23-0083	SF Spray Type 3 Structural Steel 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....2.28 <i>For Up To 100, Add</i> 1.21 <i>For >100 To 250, Add</i> 0.59 <i>For >250 To 500, Add</i> 0.26		
09 97 13 23-0084	SF Spray Up To 14" Diameter Pipe 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats .....3.98 <i>For Up To 100, Add</i> 2.42 <i>For >100 To 250, Add</i> 1.16 <i>For >250 To 500, Add</i> 0.50		
09 97 13 23-0085	SF Spray Type 1 Structural Steel Two 6 Mil High Build Epoxy Finish Coats .....2.88 <i>For Up To 100, Add</i> 1.71 <i>For >100 To 250, Add</i> 0.82 <i>For >250 To 500, Add</i> 0.36		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 23-0086 SF Spray Type 2 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	2.10	
For Up To 100, Add	1.17	
For >100 To 250, Add	0.57	
For >250 To 500, Add	0.25	
09 97 13 23-0087 SF Spray Type 3 Structural Steel Two 6 Mil High Build Epoxy Finish Coats.....	1.86	
For Up To 100, Add	0.99	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
09 97 13 23-0088 SF Spray Up To 14" Diameter Pipe Two 6 Mil High Build Epoxy Finish Coats.....	3.27	
For Up To 100, Add	1.98	
For >100 To 250, Add	0.95	
For >250 To 500, Add	0.41	
09 97 13 23-0089 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0090 SF Spray Type 1 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	7.40	
For Up To 100, Add	4.49	
For >100 To 250, Add	2.15	
For >250 To 500, Add	0.93	
09 97 13 23-0091 SF Spray Type 2 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	5.55	
For Up To 100, Add	3.21	
For >100 To 250, Add	1.55	
For >250 To 500, Add	0.67	
09 97 13 23-0092 SF Spray Type 3 Structural Steel 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	5.33	
For Up To 100, Add	3.05	
For >100 To 250, Add	1.47	
For >250 To 500, Add	0.64	
09 97 13 23-0093 SF Spray Up To 14" Diameter Pipe 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	8.67	
For Up To 100, Add	5.42	
For >100 To 250, Add	2.58	
For >250 To 500, Add	1.12	
09 97 13 23-0094 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0095 SF Spray Type 1 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	3.83	
For Up To 100, Add	2.18	
For >100 To 250, Add	1.05	
For >250 To 500, Add	0.46	
09 97 13 23-0096 SF Spray Type 2 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.97	
For Up To 100, Add	1.53	
For >100 To 250, Add	0.75	
For >250 To 500, Add	0.33	
09 97 13 23-0097 SF Spray Type 3 Structural Steel 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.83	
For Up To 100, Add	1.43	
For >100 To 250, Add	0.70	
For >250 To 500, Add	0.31	
09 97 13 23-0098 SF Spray Up To 14" Diameter Pipe 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	4.38	
For Up To 100, Add	2.57	
For >100 To 250, Add	1.23	
For >250 To 500, Add	0.54	
09 97 13 23-0099 SF Spray Type 1 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	3.03	
For Up To 100, Add	1.72	
For >100 To 250, Add	0.83	
For >250 To 500, Add	0.36	
09 97 13 23-0100 SF Spray Type 2 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.34	
For Up To 100, Add	1.21	
For >100 To 250, Add	0.59	
For >250 To 500, Add	0.26	
09 97 13 23-0101 SF Spray Type 3 Structural Steel Two 4 Mil High Build Vinyl Finish Coats.....	2.23	
For Up To 100, Add	1.13	
For >100 To 250, Add	0.55	
For >250 To 500, Add	0.24	
09 97 13 23-0102 SF Spray Up To 14" Diameter Pipe Two 4 Mil High Build Vinyl Finish Coats.....	3.46	
For Up To 100, Add	2.03	
For >100 To 250, Add	0.97	
For >250 To 500, Add	0.42	
09 97 13 23-0103 Two 8 Mil Coal Tar Epoxy Coats For Structural Steel (09 97 13 23-0027)		
09 97 13 23-0104 SF Spray Type 1 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	3.33	
For Up To 100, Add	2.10	
For >100 To 250, Add	1.00	
For >250 To 500, Add	0.43	
09 97 13 23-0105 SF Spray Type 2 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	2.70	
For Up To 100, Add	1.67	
For >100 To 250, Add	0.80	
For >250 To 500, Add	0.35	
09 97 13 23-0106 SF Spray Type 3 Structural Steel Two 8 Mil Coal Tar Epoxy Coats.....	2.48	
For Up To 100, Add	1.50	
For >100 To 250, Add	0.72	
For >250 To 500, Add	0.31	

09 Finishes**09 90 Painting And Coating****09 97 Special Coatings**

SAN BERNARDINO
COUNTY

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

09 97 13 23-0107	SF	Spray Up To 14" Diameter Pipe Two 8 Mil Coal Tar Epoxy Coats	4.15	
		<i>For Up To 100, Add</i>	2.70	
		<i>For >100 To 250, Add</i>	1.28	
		<i>For >250 To 500, Add</i>	0.55	
09 97 13 23-0108		One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0109	SF	Spray Type 1 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	3.25	
		<i>For Up To 100, Add</i>	2.14	
		<i>For >100 To 250, Add</i>	1.01	
		<i>For >250 To 500, Add</i>	0.44	
09 97 13 23-0110	SF	Spray Type 2 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	2.28	
		<i>For Up To 100, Add</i>	1.43	
		<i>For >100 To 250, Add</i>	0.68	
		<i>For >250 To 500, Add</i>	0.30	
09 97 13 23-0111	SF	Spray Type 3 Structural Steel One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	1.92	
		<i>For Up To 100, Add</i>	1.16	
		<i>For >100 To 250, Add</i>	0.55	
		<i>For >250 To 500, Add</i>	0.24	
09 97 13 23-0112	SF	Spray Up To 14" Diameter Pipe One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	3.72	
		<i>For Up To 100, Add</i>	2.47	
		<i>For >100 To 250, Add</i>	1.17	
		<i>For >250 To 500, Add</i>	0.50	
09 97 13 23-0113		One 3 Mil High Zinc Silicate Coat For Structural Steel <small>(09 97 13 23-0027)</small>		
09 97 13 23-0114	SF	Spray Type 1 Structural Steel One 3 Mil High Zinc Silicate Coat	1.67	
		<i>For Up To 100, Add</i>	0.94	
		<i>For >100 To 250, Add</i>	0.45	
		<i>For >250 To 500, Add</i>	0.20	
09 97 13 23-0115	SF	Spray Type 2 Structural Steel One 3 Mil High Zinc Silicate Coat	1.20	
		<i>For Up To 100, Add</i>	0.61	
		<i>For >100 To 250, Add</i>	0.30	
		<i>For >250 To 500, Add</i>	0.13	
09 97 13 23-0116	SF	Spray Type 3 Structural Steel One 3 Mil High Zinc Silicate Coat	1.13	
		<i>For Up To 100, Add</i>	0.56	
		<i>For >100 To 250, Add</i>	0.28	
		<i>For >250 To 500, Add</i>	0.12	
09 97 13 23-0117	SF	Spray Up To 14" Diameter Pipe One 3 Mil High Zinc Silicate Coat	1.76	
		<i>For Up To 100, Add</i>	1.00	
		<i>For >100 To 250, Add</i>	0.48	
		<i>For >250 To 500, Add</i>	0.21	
09 97 13 23-0118		Two 1.5 Mil Vinyl Enamel Finish Coats For Structural Steel <small>(09 97 13 23-0027)</small>		
		Note: Installed over existing primer.		
09 97 13 23-0119	SF	Spray Type 1 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.64	
		<i>For Up To 100, Add</i>	1.61	
		<i>For >100 To 250, Add</i>	0.77	
		<i>For >250 To 500, Add</i>	0.34	
09 97 13 23-0120	SF	Spray Type 2 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	2.14	
		<i>For Up To 100, Add</i>	1.28	
		<i>For >100 To 250, Add</i>	0.61	
		<i>For >250 To 500, Add</i>	0.27	
09 97 13 23-0121	SF	Spray Type 3 Structural Steel Two 1.5 Mil Vinyl Enamel Finish Coats	1.85	
		<i>For Up To 100, Add</i>	1.06	
		<i>For >100 To 250, Add</i>	0.51	
		<i>For >250 To 500, Add</i>	0.22	
09 97 13 23-0122	SF	Spray Up To 14" Diameter Pipe Two 1.5 Mil Vinyl Enamel Finish Coats	3.09	
		<i>For Up To 100, Add</i>	1.94	
		<i>For >100 To 250, Add</i>	0.92	
		<i>For >250 To 500, Add</i>	0.40	
09 97 13 24		Steel Water Storage Tank Painting <small>(09 97 13)</small>		
09 97 13 24-0001		Surface Preparation For Tanks <small>(09 97 13 24)</small>		
		Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0002		SSPC SP2 Or 3 Hand Or Power Tool Cleaning Surface Preparation For Tanks <small>(09 97 13 24-0001)</small>		
09 97 13 24-0003	SF	Small Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	1.10	
		<i>For Up To 100, Add</i>	0.83	
		<i>For >100 To 250, Add</i>	0.39	
		<i>For >250 To 500, Add</i>	0.17	
09 97 13 24-0004	SF	Large Vessel/Tank SP2/3 Hand Or Power Tool Cleaning Surface Preparation	0.97	
		<i>For Up To 100, Add</i>	0.73	
		<i>For >100 To 250, Add</i>	0.34	
		<i>For >250 To 500, Add</i>	0.15	



Finishes	09	2
Painting And Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0005 SF Vessel/Tank Interior SP2/3 Hand Or Power Tool Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	1.38 1.04 0.48 0.21	
09 97 13 24-0006 SSPC SP7 Brush Off Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0007 SF Small Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	0.70 0.48 0.23 0.10	
09 97 13 24-0008 SF Large Vessel/Tank SP7 Brush Off Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	0.57 0.39 0.18 0.08	
09 97 13 24-0009 SF Vessel/Tank Interior SP7 Brush Off Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	0.99 0.71 0.33 0.14	
09 97 13 24-0010 SSPC SP6 Commercial Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0011 SF Small Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	1.74 1.20 0.56 0.24	
09 97 13 24-0012 SF Large Vessel/Tank SP6 Commercial Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	1.60 1.09 0.52 0.22	
09 97 13 24-0013 SF Vessel/Tank Interior SP6 Commercial Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	2.31 1.62 0.76 0.33	
09 97 13 24-0014 SSPC SP5 White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0015 SF Small Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	3.14 2.18 1.03 0.44	
09 97 13 24-0016 SF Large Vessel/Tank SP5 White Metal Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	2.99 2.07 0.97 0.42	
09 97 13 24-0017 SF Vessel/Tank Interior SP5 White Metal Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	4.34 3.08 1.45 0.62	
09 97 13 24-0018 SSPC SP10 Near White Metal Blast Cleaning Surface Preparation For Tanks (09 97 13 24-0001)		
09 97 13 24-0019 SF Small Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	2.50 1.74 0.82 0.35	
09 97 13 24-0020 SF Large Vessel/Tank SP10 Near White Metal Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	2.50 1.74 0.82 0.35	
09 97 13 24-0021 SF Vessel/Tank Interior SP10 Near White Metal Blast Cleaning Surface Preparation <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	3.64 2.59 1.22 0.52	
09 97 13 24-0022 Protective Coatings For Tanks (09 97 13 24-0022) Note: Small pressure vessels and tanks - up to 12' diameter, large pressure vessels and tanks - over 12' diameter, tank interiors - over 6' diameter.		
09 97 13 24-0023 1.5 Mil Prime Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0024 SF Spray Small Vessel/Tank 1.5 Mil Prime Coat <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	0.52 0.34 0.16 0.07	
09 97 13 24-0025 SF Spray Large Vessel/Tank 1.5 Mil Prime Coat <i>For Up To 100, Add</i> <i>For >100 To 250, Add</i> <i>For >250 To 500, Add</i>	0.42 0.26 0.12 0.05	

09 Finishes

09 90 Painting And Coating

09 97 Special Coatings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
09 97 13 24-0026	SF Spray Tank Interior 1.5 Mil Prime Coat	1.03	
	For Up To 100, Add	0.72	
	For >100 To 250, Add	0.34	
	For >250 To 500, Add	0.15	
09 97 13 24-0027	SF Brush Small Vessel/Tank 1.5 Mil Prime Coat.....	0.62	
	For Up To 100, Add	0.41	
	For >100 To 250, Add	0.19	
	For >250 To 500, Add	0.08	
09 97 13 24-0028	SF Brush Large Vessel/Tank 1.5 Mil Prime Coat	0.50	
	For Up To 100, Add	0.32	
	For >100 To 250, Add	0.15	
	For >250 To 500, Add	0.07	
09 97 13 24-0029	SF Brush Tank Interior 1.5 Mil Prime Coat	1.25	
	For Up To 100, Add	0.88	
	For >100 To 250, Add	0.42	
	For >250 To 500, Add	0.18	
09 97 13 24-0030	1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0031	SF Spray Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.53	
	For Up To 100, Add	0.96	
	For >100 To 250, Add	0.46	
	For >250 To 500, Add	0.20	
09 97 13 24-0032	SF Spray Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.17	
	For Up To 100, Add	0.69	
	For >100 To 250, Add	0.33	
	For >250 To 500, Add	0.14	
09 97 13 24-0033	SF Spray Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	2.91	
	For Up To 100, Add	2.00	
	For >100 To 250, Add	0.94	
	For >250 To 500, Add	0.41	
09 97 13 24-0034	SF Spray Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.16	
	For Up To 100, Add	0.73	
	For >100 To 250, Add	0.35	
	For >250 To 500, Add	0.15	
09 97 13 24-0035	SF Spray Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	0.88	
	For Up To 100, Add	0.52	
	For >100 To 250, Add	0.25	
	For >250 To 500, Add	0.11	
09 97 13 24-0036	SF Spray Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.18	
	For Up To 100, Add	1.50	
	For >100 To 250, Add	0.71	
	For >250 To 500, Add	0.30	
09 97 13 24-0037	SF Brush Small Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.97	
	For Up To 100, Add	1.29	
	For >100 To 250, Add	0.61	
	For >250 To 500, Add	0.26	
09 97 13 24-0038	SF Brush Large Vessel/Tank 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats	1.49	
	For Up To 100, Add	0.93	
	For >100 To 250, Add	0.44	
	For >250 To 500, Add	0.19	
09 97 13 24-0039	SF Brush Tank Interior 1.5 Mil Prime And Two 1.5 Mil Alkyd Finish Coats.....	3.83	
	For Up To 100, Add	2.69	
	For >100 To 250, Add	1.26	
	For >250 To 500, Add	0.54	
09 97 13 24-0040	SF Brush Small Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats	1.48	
	For Up To 100, Add	0.97	
	For >100 To 250, Add	0.46	
	For >250 To 500, Add	0.20	
09 97 13 24-0041	SF Brush Large Vessel/Tank 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	1.11	
	For Up To 100, Add	0.69	
	For >100 To 250, Add	0.33	
	For >250 To 500, Add	0.14	
09 97 13 24-0042	SF Brush Tank Interior 1.5 Mil Prime And One 1.5 Mil Alkyd Finish Coats.....	2.88	
	For Up To 100, Add	2.02	
	For >100 To 250, Add	0.95	
	For >250 To 500, Add	0.41	
09 97 13 24-0043	Touch-Up And Two 1.5 Mil Alkyd Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0044	SF Spray Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.38	
	For Up To 100, Add	0.90	
	For >100 To 250, Add	0.43	
	For >250 To 500, Add	0.18	
09 97 13 24-0045	SF Spray Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.17	
	For Up To 100, Add	0.74	
	For >100 To 250, Add	0.35	
	For >250 To 500, Add	0.15	
09 97 13 24-0046	SF Spray Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats	3.05	
	For Up To 100, Add	2.15	
	For >100 To 250, Add	1.01	
	For >250 To 500, Add	0.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0047 SF Spray Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	0.89	
For Up To 100, Add	0.58	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
09 97 13 24-0048 SF Spray Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	0.75	
For Up To 100, Add	0.47	
For >100 To 250, Add	0.23	
For >250 To 500, Add	0.10	
09 97 13 24-0049 SF Spray Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats.....	1.95	
For Up To 100, Add	1.37	
For >100 To 250, Add	0.65	
For >250 To 500, Add	0.28	
09 97 13 24-0050 SF Brush Small Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.66	
For Up To 100, Add	1.11	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
09 97 13 24-0051 SF Brush Large Vessel/Tank Touch-Up And Two 1.5 Mil Alkyd Finish Coats	1.39	
For Up To 100, Add	0.90	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
09 97 13 24-0052 SF Brush Tank Interior Touch-Up And Two 1.5 Mil Alkyd Finish Coats.....	3.97	
For Up To 100, Add	2.89	
For >100 To 250, Add	1.35	
For >250 To 500, Add	0.58	
09 97 13 24-0053 SF Brush Small Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	1.07	
For Up To 100, Add	0.71	
For >100 To 250, Add	0.34	
For >250 To 500, Add	0.15	
09 97 13 24-0054 SF Brush Large Vessel/Tank Touch-Up And One 1.5 Mil Alkyd Finish Coat.....	0.89	
For Up To 100, Add	0.58	
For >100 To 250, Add	0.27	
For >250 To 500, Add	0.12	
09 97 13 24-0055 SF Brush Tank Interior Touch-Up And One 1.5 Mil Alkyd Finish Coats.....	2.59	
For Up To 100, Add	1.85	
For >100 To 250, Add	0.87	
For >250 To 500, Add	0.37	
09 97 13 24-0056 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0057 SF Spray Small Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.93	
For Up To 100, Add	1.07	
For >100 To 250, Add	0.52	
For >250 To 500, Add	0.23	
09 97 13 24-0058 SF Spray Large Vessel/Tank 2 Mil Prime And Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.64	
For Up To 100, Add	0.85	
For >100 To 250, Add	0.42	
For >250 To 500, Add	0.18	
09 97 13 24-0059 SF Spray Small Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.36	
For Up To 100, Add	0.76	
For >100 To 250, Add	0.37	
For >250 To 500, Add	0.16	
09 97 13 24-0060 SF Spray Large Vessel/Tank Two 2 Mil Epoxy Polyamide Cured Resin Finish Coats	1.15	
For Up To 100, Add	0.60	
For >100 To 250, Add	0.29	
For >250 To 500, Add	0.13	
09 97 13 24-0061 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0062 SF Spray Small Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	2.11	
For Up To 100, Add	1.10	
For >100 To 250, Add	0.54	
For >250 To 500, Add	0.24	
09 97 13 24-0063 SF Spray Large Vessel/Tank 2 Mil Prime And Two 6 Mil High Build Epoxy Finish Coats	1.82	
For Up To 100, Add	0.88	
For >100 To 250, Add	0.43	
For >250 To 500, Add	0.19	
09 97 13 24-0064 SF Spray Small Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats.....	1.73	
For Up To 100, Add	0.90	
For >100 To 250, Add	0.44	
For >250 To 500, Add	0.19	
09 97 13 24-0065 SF Spray Large Vessel/Tank Two 6 Mil High Build Epoxy Finish Coats	1.49	
For Up To 100, Add	0.72	
For >100 To 250, Add	0.36	
For >250 To 500, Add	0.16	
09 97 13 24-0066 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0067 SF Spray Small Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	5.14	
For Up To 100, Add	2.94	
For >100 To 250, Add	1.42	
For >250 To 500, Add	0.62	

09 Finishes

09 90 Painting And Coating

09 97 Special Coatings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0068	SF		Spray Large Vessel/Tank 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats.....	4.71	
			<i>For Up To 100, Add</i>	2.61	
			<i>For >100 To 250, Add</i>	1.27	
			<i>For >250 To 500, Add</i>	0.55	
09 97 13 24-0069	SF		Spray Tank Interior 1 Mil Prime, Three 2.33 Mil Body Coats And Two 1 Mil Vinyl Finish Coats	8.03	
			<i>For Up To 100, Add</i>	5.10	
			<i>For >100 To 250, Add</i>	2.43	
			<i>For >250 To 500, Add</i>	1.05	
09 97 13 24-0070			1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0071	SF		Spray Small Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.64	
			<i>For Up To 100, Add</i>	1.36	
			<i>For >100 To 250, Add</i>	0.67	
			<i>For >250 To 500, Add</i>	0.29	
09 97 13 24-0072	SF		Spray Large Vessel/Tank 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats.....	2.33	
			<i>For Up To 100, Add</i>	1.13	
			<i>For >100 To 250, Add</i>	0.56	
			<i>For >250 To 500, Add</i>	0.25	
09 97 13 24-0073	SF		Spray Tank Interior 1.5 Mil Prime And Two 4 Mil High Build Vinyl Finish Coats	4.06	
			<i>For Up To 100, Add</i>	2.43	
			<i>For >100 To 250, Add</i>	1.16	
			<i>For >250 To 500, Add</i>	0.51	
09 97 13 24-0074	SF		Spray Small Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	2.09	
			<i>For Up To 100, Add</i>	1.08	
			<i>For >100 To 250, Add</i>	0.53	
			<i>For >250 To 500, Add</i>	0.23	
09 97 13 24-0075	SF		Spray Large Vessel/Tank Two 4 Mil High Build Vinyl Finish Coats.....	1.84	
			<i>For Up To 100, Add</i>	0.89	
			<i>For >100 To 250, Add</i>	0.44	
			<i>For >250 To 500, Add</i>	0.20	
09 97 13 24-0076	SF		Spray Tank Interior Two 4 Mil High Build Vinyl Finish Coats.....	3.21	
			<i>For Up To 100, Add</i>	1.92	
			<i>For >100 To 250, Add</i>	0.92	
			<i>For >250 To 500, Add</i>	0.40	
09 97 13 24-0077			Two 8 Mil Coal Tar Epoxy Coats For Tanks (09 97 13 24-0022)		
09 97 13 24-0078	SF		Spray Small Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats.....	2.46	
			<i>For Up To 100, Add</i>	1.50	
			<i>For >100 To 250, Add</i>	0.72	
			<i>For >250 To 500, Add</i>	0.31	
09 97 13 24-0079	SF		Spray Large Vessel/Tank Two 8 Mil Coal Tar Epoxy Coats.....	2.03	
			<i>For Up To 100, Add</i>	1.17	
			<i>For >100 To 250, Add</i>	0.57	
			<i>For >250 To 500, Add</i>	0.25	
09 97 13 24-0080	SF		Spray Tank Interior Two 8 Mil Coal Tar Epoxy Coats	3.18	
			<i>For Up To 100, Add</i>	2.04	
			<i>For >100 To 250, Add</i>	0.97	
			<i>For >250 To 500, Add</i>	0.42	
09 97 13 24-0081			One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0082	SF		Spray Small Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	1.68	
			<i>For Up To 100, Add</i>	0.98	
			<i>For >100 To 250, Add</i>	0.47	
			<i>For >250 To 500, Add</i>	0.21	
09 97 13 24-0083	SF		Spray Large Vessel/Tank One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat.....	1.54	
			<i>For Up To 100, Add</i>	0.88	
			<i>For >100 To 250, Add</i>	0.42	
			<i>For >250 To 500, Add</i>	0.19	
09 97 13 24-0084	SF		Spray Tank Interior One 1 Mil Primer, One 3 Mil Intermediate And One 1 Mil Chlorinated Rubber Finish Coat	2.63	
			<i>For Up To 100, Add</i>	1.70	
			<i>For >100 To 250, Add</i>	0.81	
			<i>For >250 To 500, Add</i>	0.35	
09 97 13 24-0085			Two 6 Mil High Build Epoxy Finish Coats For Tanks Interior (09 97 13 24-0022)		
09 97 13 24-0086	SF		Spray Small Tank Interior Two 6 Mil High Build Epoxy Finish Coats	3.75	
			<i>For Up To 100, Add</i>	2.30	
			<i>For >100 To 250, Add</i>	1.10	
			<i>For >250 To 500, Add</i>	0.48	
09 97 13 24-0087	SF		Spray Large Tank Interior Two 6 Mil High Build Epoxy Finish Coats	2.23	
			<i>For Up To 100, Add</i>	1.20	
			<i>For >100 To 250, Add</i>	0.59	
			<i>For >250 To 500, Add</i>	0.26	
09 97 13 24-0088			One 3 Mil High Zinc Silicate Coat For Tanks (09 97 13 24-0022)		



Finishes	09	2
Painting And Coating	09 90	
Special Coatings	09 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
09 97 13 24-0089 SF Spray Small Vessel/Tank One 3 Mil High Zinc Silicate Coat.....	1.04	
For Up To 100, Add	0.50	
For >100 To 250, Add	0.25	
For >250 To 500, Add	0.11	
09 97 13 24-0090 SF Spray Large Vessel/Tank One 3 Mil High Zinc Silicate Coat	1.01	
For Up To 100, Add	0.48	
For >100 To 250, Add	0.24	
For >250 To 500, Add	0.11	
09 97 13 24-0091 SF Spray Tank Interior One 3 Mil High Zinc Silicate Coat	1.68	
For Up To 100, Add	0.98	
For >100 To 250, Add	0.47	
For >250 To 500, Add	0.21	
09 97 13 24-0092 Two 1.5 Mil Vinyl Enamel Finish Coats For Tanks (09 97 13 24-0022)		
Note: Installed over existing primer.		
09 97 13 24-0093 SF Spray Small Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats	1.75	
For Up To 100, Add	0.99	
For >100 To 250, Add	0.48	
For >250 To 500, Add	0.21	
09 97 13 24-0094 SF Spray Large Vessel/Tank Two 1.5 Mil Vinyl Enamel Finish Coats.....	1.54	
For Up To 100, Add	0.84	
For >100 To 250, Add	0.41	
For >250 To 500, Add	0.18	
09 97 13 24-0095 SF Spray Tank Interior Two 1.5 Mil Vinyl Enamel Finish Coats.....	2.48	
For Up To 100, Add	1.54	
For >100 To 250, Add	0.74	
For >250 To 500, Add	0.32	
09 97 13 24-0096 One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat For Tanks (09 97 13 24-0022)		
09 97 13 24-0097 SF Spray/Mop Large Vessel/Tank One 1 Mil Primer And 95 Mil Hot Coal Tar Enamel Finish Coat.....	6.59	
For Up To 100, Add	4.28	
For >100 To 250, Add	2.03	
For >250 To 500, Add	0.88	
09 97 26 Cementitious Coatings (09 97)		
09 97 26 13 Interior Cementitious Coatings (09 97 26)		
09 97 26 13-0001 Ceramic-Like Glazed Coating (09 97 26 13)		
09 97 26 13-0002 Ceramic-Like Glazed Coating, Cementitious (09 97 26 13-0001)		
09 97 26 13-0003 SF Ceramic-like Glazed Coating. - Cementitious	2.01	
09 97 26 13-0004 Ceramic-Like Glazed Coating, Resin Base (09 97 26 13-0001)		
09 97 26 13-0005 SF Ceramic-like Glazed Coating - Resin	1.70	
09 97 35 Dry Erase Coatings (09 97)		
09 97 35 00-0001 Dry-Erase Paint (09 97 35)		
09 97 35 00-0002 Dry-Erase Paint (IdeaPaint™ PRO) (09 97 35 00-0001)		
09 97 35 00-0003 SF Dry-Erase Paint (IdeaPaint™ PRO), Applied With Roller.....	7.78	
Note: Includes two coats of primer and white, white sand, light beige or light gray surface.		
09 97 35 00-0004 Low VOC/Odorless, Dry-Erase Paint (IdeaPaint™ CREATE) (09 97 35 00-0001)		
09 97 35 00-0005 SF Clear, Low VOC/Odorless, Dry-Erase Paint (IdeaPaint™ CREATE), Applied With Roller.....	4.22	
Note: For application over existing latex-based top coats.		
09 97 35 00-0006 SF Black Or White, Low VOC/Odorless, Dry-Erase Paint (IdeaPaint™ CREATE), Applied With Roller	8.29	
Note: Includes two coats of primer and white or black surface coat.		
09 97 63 Special Coatings and Protection Systems (09 97)		
09 97 63 00-0001 Acrylic Glazed Coating (09 97 63)		
09 97 63 00-0002 SF Acrylic Glazed Coating.....	1.31	

END OF SECTION 09

09	09	Finishes
	09 90	Painting And Coating
	09 97	Special Coatings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Specialties	10
Operation And Maintenance Of Specialties	10 01
Operation And Maintenance Of Safety Specialties	10 01 40

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 Specialties

10 01 Operation And Maintenance Of Specialties ⁽¹⁰⁾

10 01 40 Operation And Maintenance Of Safety Specialties ^(10 01)

10 01 40 00-0001		Recharge Existing Portable Fire Extinguishers ^(10 01 40)	
		Note: Includes removal, filling, testing, certification and reinstallation.	
10 01 40 00-0002		Recharge Carbon Dioxide, Class BC Portable Fire Extinguishers ^(10 01 40 00-0001)	
10 01 40 00-0003	EA	Recharge 2.5 LB Carbon Dioxide Portable Fire Extinguisher	10.29
10 01 40 00-0004	EA	Recharge 5 LB Carbon Dioxide Portable Fire Extinguisher	11.43
10 01 40 00-0005	EA	Recharge 10 LB Carbon Dioxide Portable Fire Extinguisher	11.89
10 01 40 00-0006	EA	Recharge 15 LB Carbon Dioxide Portable Fire Extinguisher	13.46
10 01 40 00-0007	EA	Recharge 20 LB Carbon Dioxide Portable Fire Extinguisher	15.55
10 01 40 00-0008		Recharge Dry Chemical, Class ABC Portable Fire Extinguishers ^(10 01 40 00-0001)	
10 01 40 00-0009	EA	Recharge 2.5 LB Dry Chemical Portable Fire Extinguisher.....	12.41
10 01 40 00-0010	EA	Recharge 5 LB Dry Chemical Portable Fire Extinguisher	15.03
10 01 40 00-0011	EA	Recharge 10 LB Dry Chemical Portable Fire Extinguisher.....	21.24
10 01 40 00-0012	EA	Recharge 20 LB Dry Chemical Portable Fire Extinguisher.....	33.52
10 01 40 00-0013		Recharge Other Portable Fire Extinguishers ^(10 01 40 00-0001)	
10 01 40 00-0014	EA	Recharge 2.5 Gallon Pressurized Water Portable Fire Extinguisher.....	12.28
10 01 40 00-0015	EA	Recharge 1.6 Gallon Wet Chemical Class K Fire Extinguisher	87.56
10 01 40 00-0016	EA	Recharge 2.5 Gallon Wet Chemical Class K Fire Extinguisher.....	122.58
10 01 40 00-0017	EA	Recharge 30 LB Dry Powder Class D Portable Fire Extinguisher.....	50.47

10 01 50 Operation And Maintenance Of Storage Specialties ^(10 01)

10 01 50 11 Operation And Maintenance Of Storage Specialties ^(10 01 50)

10 01 50 11-0001		Locker Repair And Refinishing ^(10 01 50 11)	
10 01 50 11-0002	EA	Removal And Replacement Of Single Tier Locker Door	291.15
10 01 50 11-0003	EA	Removal And Replacement Of Two Tier Locker Door	228.89
10 01 50 11-0004	EA	Removal And Replacement Of Three Tier Locker Door	196.06
10 01 50 11-0005	EA	Removal And Replacement Of Four Tier Locker Door.....	165.28
10 01 50 11-0006	EA	Removal And Replacement Of Six Tier Or Sixteen Person Locker Door.....	90.93
10 01 50 11-0007	EA	Realign Metal Locker Door For Proper Closure	38.85
10 01 50 11-0008	EA	Patch Small Drill Holes in Locker.....	7.77

10 10 Information Specialties ⁽¹⁰⁾

10 11 Visual Display Units ^(10 10)

10 11 13 Chalkboards ^(10 11)

10 11 13 13 Fixed Chalkboards ^(10 11 13)

Note: Select task based off the square footage of an individual chalkboard. For example use the >12 To 16 SF range for each 3' x 5' chalkboard.

10 11 13 13-0001		Porcelain Enamel Steel Chalkboards ^(10 11 13 13)	
10 11 13 13-0002		5/8" Face Aluminum Frame, Porcelain Enamel Steel Chalkboards (Claridge 800 Series) ^(10 11 13 13-0001)	
		Note: Includes up to 1/2" core material, aluminum backing, full length map rail, map hooks, chalk tray and mounting hardware.	
10 11 13 13-0003	SF	Up To 6 SF, 5/8" Face Aluminum Frame, Porcelain Enamel Steel Chalkboard.....	7.54
10 11 13 13-0004	SF	>6 To 12 SF, 5/8" Face Aluminum Frame, Porcelain Enamel Steel Chalkboard	3.54
10 11 13 13-0005	SF	>12 To 16 SF, 5/8" Face Aluminum Frame, Porcelain Enamel Steel Chalkboard	3.06
10 11 13 13-0006	SF	>16 To 24 SF, 5/8" Face Aluminum Frame, Porcelain Enamel Steel Chalkboard	1.99
10 11 13 13-0007	SF	>24 SF, 5/8" Face Aluminum Frame, Porcelain Enamel Steel Chalkboard.....	1.11
10 11 13 13-0008		1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Chalkboards (Claridge 1300 Series) ^(10 11 13 13-0001)	
		Note: Includes up to 1/2" core material, aluminum backing, full length map rail, map hooks, chalk tray and mounting hardware.	
10 11 13 13-0009	SF	Up To 6 SF, 1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Chalkboard.....	7.54
10 11 13 13-0010	SF	>6 To 12 SF, 1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Chalkboard	3.54
10 11 13 13-0011	SF	>12 To 16 SF, 1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Chalkboard	3.06
10 11 13 13-0012	SF	>16 To 24 SF, 1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Chalkboard	1.99
10 11 13 13-0013	SF	>24 SF, 1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Chalkboard	1.11

10	10	Specialties
	10 10	Information Specialties
	10 11	Visual Display Units



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 11 13 13-0014	1-3/4" Face Wood Frame, Porcelain Enamel Steel Chalkboards (Claridge 1600 Series) <small>(10 11 13 13-0001)</small> Note: Includes up to 1/2" core material, aluminum backing, chalk tray and mounting hardware.		
10 11 13 13-0015	SF Up To 6 SF, 1-3/4" Face Wood Frame, Porcelain Enamel Steel Chalkboard	39.41	7.54
10 11 13 13-0016	SF >6 To 12 SF, 1-3/4" Face Wood Frame, Porcelain Enamel Steel Chalkboard	24.76	3.54
10 11 13 13-0017	SF >12 To 16 SF, 1-3/4" Face Wood Frame, Porcelain Enamel Steel Chalkboard	21.27	3.06
10 11 13 13-0018	SF >16 To 24 SF, 1-3/4" Face Wood Frame, Porcelain Enamel Steel Chalkboard	17.69	1.99
10 11 13 13-0019	SF >24 SF, 1-3/4" Face Wood Frame, Porcelain Enamel Steel Chalkboard	14.51	1.11

10 11 13 13-0020	Remove And Reinstall Chalkboards <small>(10 11 13 13)</small>		
10 11 13 13-0021	SF Removal And Reinstallation Of Chalkboard	9.28	

10 11 13 13-0022	Field Applied Chalkboard And Accessories <small>(10 11 13 13)</small>		
10 11 13 13-0023	Chalkboard Face Sheets And Panels <small>(10 11 13 13-0022)</small>		
10 11 13 13-0024	SF Porcelain Enamel Steel Chalkboard Face Sheet (Claridge Vitracite)..... Note: Includes porcelain enamel steel chalkboard skin.	13.54	3.54
10 11 13 13-0025	SF Porcelain Enamel Steel Chalkboard Panel (Claridge VIT)	16.20	3.54
	Note: Includes porcelain enamel steel surface mounted on either particle board or hardboard core with an aluminum moisture barrier back.		

10 11 13 13-0026	Chalkboard And Markerboard Accessory Trays And Trim <small>(10 11 13 13-0022)</small>		
10 11 13 13-0027	LF Chalk And Marker Tray, Field Applied.....	15.35	4.88
10 11 13 13-0028	PR Chalk And Marker Tray End Closures, Field Applied	22.02	8.86
10 11 13 13-0029	LF Mullion Trim For Chalkboards And Markerboards, Field Applied	11.58	4.88
10 11 13 13-0030	LF Screw On Trim For Chalkboards And Markerboards, Field Applied	11.87	4.88
10 11 13 13-0031	LF 1/2" Leg Map Rail For Chalkboards And Markerboards, Field Applied	12.74	4.88
10 11 13 13-0032	LF 1/4" Leg Map Rail For Chalkboards And Markerboards, Field Applied	13.47	4.88
10 11 13 13-0033	LF No Leg Map Rail For Chalkboards And Markerboards, Field Applied	12.32	4.88

10 11 13 33 Rail-Mounted Chalkboards (10 11 13)

10 11 13 33-0001	Horizontal Sliding, Porcelain Enamel Steel Chalkboards (Claridge HS Series) <small>(10 11 13 33)</small>		
10 11 13 33-0002	Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboards <small>(10 11 13 33-0001)</small>		
10 11 13 33-0003	EA 4' x 6' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	1,907.39	88.64
10 11 13 33-0004	EA 4' x 8' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	2,142.50	88.64
10 11 13 33-0005	EA 4' x 10' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	2,427.19	94.41
10 11 13 33-0006	EA 4' x 12' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	2,700.36	94.41
10 11 13 33-0007	EA 4' x 14' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	3,366.45	101.50
10 11 13 33-0008	EA 4' x 16' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	3,584.35	101.50
10 11 13 33-0009	EA 4' x 20' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	4,050.72	106.37
10 11 13 33-0010	EA 4' x 24' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	4,591.62	106.37

10 11 13 33-0011	Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboards <small>(10 11 13 33-0001)</small>		
10 11 13 33-0012	EA 4' x 6' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	2,608.69	88.64
10 11 13 33-0013	EA 4' x 8' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	3,095.69	88.64
10 11 13 33-0014	EA 4' x 10' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	3,543.48	94.41
10 11 13 33-0015	EA 4' x 12' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	3,990.61	94.41
10 11 13 33-0016	EA 4' x 14' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	4,549.79	101.50
10 11 13 33-0017	EA 4' x 16' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	4,746.85	101.50
10 11 13 33-0018	EA 4' x 20' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	5,567.50	106.37
10 11 13 33-0019	EA 4' x 24' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	6,225.28	106.37

10 11 13 33-0020	Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboards <small>(10 11 13 33-0001)</small>		
10 11 13 33-0021	EA 4' x 6' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	2,907.70	88.64
10 11 13 33-0022	EA 4' x 8' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	3,305.90	88.64
10 11 13 33-0023	EA 4' x 10' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	3,736.48	94.41
10 11 13 33-0024	EA 4' x 12' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	4,193.57	94.41
10 11 13 33-0025	EA 4' x 14' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	5,078.94	101.50
10 11 13 33-0026	EA 4' x 16' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	5,288.68	101.50
10 11 13 33-0027	EA 4' x 20' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	6,246.16	106.37
10 11 13 33-0028	EA 4' x 24' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Chalkboard	6,974.21	106.37

10 11 13 33-0029	Vertical Sliding, Porcelain Enamel Steel Chalkboards (Claridge TW Series) <small>(10 11 13 33)</small>		
10 11 13 33-0030	One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Chalkboards <small>(10 11 13 33-0029)</small>		



Specialties	10
Information Specialties	10 10
Visual Display Units	10 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 11 13 33-0031 EA 8' x 4' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	2,281.13	88.64
10 11 13 33-0032 EA 8' x 5' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	2,518.05	88.64
10 11 13 33-0033 EA 8' x 6' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	2,753.81	94.41
10 11 13 33-0034 EA 8' x 8' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	3,165.14	94.41
10 11 13 33-0035 EA 8' x 10' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	3,467.42	101.50
10 11 13 33-0036 EA 8' x 12' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	3,847.04	101.50
10 11 13 33-0037 Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboards (10 11 13 33-0029)		
10 11 13 33-0038 EA 8' x 4' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	3,348.42	88.64
10 11 13 33-0039 EA 8' x 5' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	3,716.25	88.64
10 11 13 33-0040 EA 8' x 6' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	4,084.74	94.41
10 11 13 33-0041 EA 8' x 8' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	4,761.51	94.41
10 11 13 33-0042 EA 8' x 10' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	5,182.45	101.50
10 11 13 33-0043 EA 8' x 12' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	5,796.70	101.50
10 11 13 33-0044 Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboards (10 11 13 33-0029)		
10 11 13 33-0045 EA 8' x 4' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	4,574.27	88.64
10 11 13 33-0046 EA 8' x 5' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	5,075.73	88.64
10 11 13 33-0047 EA 8' x 6' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	5,577.85	94.41
10 11 13 33-0048 EA 8' x 8' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	6,519.16	94.41
10 11 13 33-0049 EA 8' x 10' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	7,069.64	101.50
10 11 13 33-0050 EA 8' x 12' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	7,934.83	101.50
10 11 13 33-0051 Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboards (Claridge MO Series) (10 11 13 33)		
Note: Excludes remotes.		
10 11 13 33-0052 One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboards (10 11 13 33-0051)		
10 11 13 33-0053 EA 10' x 4' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	7,335.38	177.28
10 11 13 33-0054 EA 10' x 5' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	7,545.23	177.28
10 11 13 33-0055 EA 10' x 6' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	7,778.84	182.83
10 11 13 33-0056 EA 10' x 8' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	8,163.20	182.83
10 11 13 33-0057 EA 10' x 10' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	8,587.64	188.37
10 11 13 33-0058 EA 10' x 12' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	8,958.40	188.37
10 11 13 33-0059 EA 10' x 14' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	9,764.52	199.45
10 11 13 33-0060 EA 10' x 16' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	9,867.08	199.45
10 11 13 33-0061 Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboards (10 11 13 33-0051)		
10 11 13 33-0062 EA 10' x 4' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	11,545.39	177.28
10 11 13 33-0063 EA 10' x 5' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	11,822.83	177.28
10 11 13 33-0064 EA 10' x 6' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	12,132.20	182.83
10 11 13 33-0065 EA 10' x 8' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	12,697.05	182.83
10 11 13 33-0066 EA 10' x 10' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	13,258.48	188.37
10 11 13 33-0067 EA 10' x 12' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	13,795.24	188.37
10 11 13 33-0068 EA 10' x 14' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	14,884.23	199.45
10 11 13 33-0069 EA 10' x 16' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	15,046.78	199.45
10 11 13 33-0070 Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboards (10 11 13 33-0051)		
10 11 13 33-0071 EA 10' x 4' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	15,002.45	177.28
10 11 13 33-0072 EA 10' x 5' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	15,702.67	177.28
10 11 13 33-0073 EA 10' x 6' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	16,073.28	182.83
10 11 13 33-0074 EA 10' x 8' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	16,807.75	182.83
10 11 13 33-0075 EA 10' x 10' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	17,579.57	188.37
10 11 13 33-0076 EA 10' x 12' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	18,322.20	188.37
10 11 13 33-0077 EA 10' x 14' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	19,786.49	199.45
10 11 13 33-0078 EA 10' x 16' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Chalkboard.....	20,072.44	199.45
10 11 13 33-0079 Sliding Chalkboard And Markerboard Accessories (10 11 13 33)		
10 11 13 33-0080 EA One Sliding Panel, Remote Control For Motor Operated Sliding Chalkboard Or Markerboard.....	551.60	
10 11 13 33-0081 EA Two Sliding Panel, Remote Control For Motor Operated Sliding Chalkboard Or Markerboard.....	942.12	
10 11 16 Markerboards (10 11)		
10 11 16 13 Fixed Markerboards (10 11 16)		
Note: Select task based off the square footage of an individual markerboard. For example use the >12 To 16 SF range for each 3' x 5' markerboard.		
10 11 16 13-0001 Porcelain Enamel Steel Markerboards (10 11 16 13)		

10	10	Specialties
	10 10	Information Specialties
	10 11	Visual Display Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 11 16 13-0002			5/8" Face Aluminum Frame, Porcelain Enamel Steel Markerboards (Claridge 800 Series) <small>(10 11 16 13-0001)</small> Note: Includes up to 1/2" core material, aluminum backing, full length map rail, map hooks, marker tray and mounting hardware.		
10 11 16 13-0003	SF		Up To 6 SF, 5/8" Face Aluminum Frame, Porcelain Enamel Steel Markerboard	41.04	7.54
10 11 16 13-0004	SF		>6 To 12 SF, 5/8" Face Aluminum Frame, Porcelain Enamel Steel Markerboard	26.80	3.54
10 11 16 13-0005	SF		>12 To 16 SF, 5/8" Face Aluminum Frame, Porcelain Enamel Steel Markerboard	22.71	3.06
10 11 16 13-0006	SF		>16 To 24 SF, 5/8" Face Aluminum Frame, Porcelain Enamel Steel Markerboard	19.09	1.99
10 11 16 13-0007	SF		>24 SF, 5/8" Face Aluminum Frame, Porcelain Enamel Steel Markerboard	15.65	1.11

10 11 16 13-0008			1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Markerboards (Claridge 1300 Series) <small>(10 11 16 13-0001)</small> Note: Includes up to 1/2" core material, aluminum backing, full length map rail, map hooks, marker tray and mounting hardware.		
10 11 16 13-0009	SF		Up To 6 SF, 1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Markerboard	43.32	7.54
10 11 16 13-0010	SF		>6 To 12 SF, 1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Markerboard	27.48	3.54
10 11 16 13-0011	SF		>12 To 16 SF, 1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Markerboard	23.73	3.06
10 11 16 13-0012	SF		>16 To 24 SF, 1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Markerboard	20.37	1.99
10 11 16 13-0013	SF		>24 SF, 1-1/4" Face Aluminum Frame, Porcelain Enamel Steel Markerboard	17.75	1.11

10 11 16 13-0014			1-3/4" Face Wood Frame, Porcelain Enamel Steel Markerboards (Claridge LCS Series) <small>(10 11 16 13-0001)</small> Note: Includes up to 1/2" core material, aluminum backing, marker tray and mounting hardware.		
10 11 16 13-0015	SF		Up To 6 SF, 1-3/4" Face Wood Frame, Porcelain Enamel Steel Markerboard	39.40	7.54
10 11 16 13-0016	SF		>6 To 12 SF, 1-3/4" Face Wood Frame, Porcelain Enamel Steel Markerboard	24.77	3.54
10 11 16 13-0017	SF		>12 To 16 SF, 1-3/4" Face Wood Frame, Porcelain Enamel Steel Markerboard	22.37	3.06
10 11 16 13-0018	SF		>16 To 24 SF, 1-3/4" Face Wood Frame, Porcelain Enamel Steel Markerboard	17.81	1.99
10 11 16 13-0019	SF		>24 SF, 1-3/4" Face Wood Frame, Porcelain Enamel Steel Markerboard	14.25	1.11

10 11 16 13-0020			Melamine Markerboards <small>(10 11 16 13)</small>		
10 11 16 13-0021			1-1/4" Face Aluminum Frame, Melamine Markerboard (Claridge MLC Series) <small>(10 11 16 13-0020)</small> Note: Includes full length map rail, map hooks, marker tray and mounting hardware.		
10 11 16 13-0022	SF		Up To 6 SF, 1-1/4" Face Aluminum Frame, Melamine Markerboard	32.44	7.54
10 11 16 13-0023	SF		>6 To 12 SF, 1-1/4" Face Aluminum Frame, Melamine Markerboard	19.97	3.54
10 11 16 13-0024	SF		>12 To 16 SF, 1-1/4" Face Aluminum Frame, Melamine Markerboard	17.33	3.06
10 11 16 13-0025	SF		>16 To 24 SF, 1-1/4" Face Aluminum Frame, Melamine Markerboard	13.05	1.99
10 11 16 13-0026	SF		>24 SF, 1-1/4" Face Aluminum Frame, Melamine Markerboard	10.63	1.11

10 11 16 13-0027			1-3/4" Face Wood Frame, Melamine Markerboard (Claridge MLC Series) <small>(10 11 16 13-0020)</small> Note: Includes marker tray and mounting hardware.		
10 11 16 13-0028	SF		Up To 6 SF, 1-3/4" Face Wood Frame, Melamine Markerboard	31.66	7.54
10 11 16 13-0029	SF		>6 To 12 SF, 1-3/4" Face Wood Frame, Melamine Markerboard	19.61	3.54
10 11 16 13-0030	SF		>12 To 16 SF, 1-3/4" Face Wood Frame, Melamine Markerboard	16.82	3.06
10 11 16 13-0031	SF		>16 To 24 SF, 1-3/4" Face Wood Frame, Melamine Markerboard	12.14	1.99
10 11 16 13-0032	SF		>24 SF, 1-3/4" Face Wood Frame, Melamine Markerboard	9.80	1.11

10 11 16 13-0033			Nonporous, Non-Staining Markerboards <small>(10 11 16 13)</small>		
10 11 16 13-0034			5/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboards (EverWhite Classic Series) <small>(10 11 16 13-0033)</small> Note: Includes non-staining permanent marker resistant surface, non-magnetic surface, marker tray and mounting hardware.		
10 11 16 13-0035	SF		Up To 6 SF, 5/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboard	35.48	7.54
			For Magnetic Surface, Add	2.04	
10 11 16 13-0036	SF		>6 To 12 SF, 5/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboard	22.62	3.54
			For Magnetic Surface, Add	1.55	
10 11 16 13-0037	SF		>12 To 16 SF, 5/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboard	19.52	3.06
			For Magnetic Surface, Add	1.34	
10 11 16 13-0038	SF		>16 To 24 SF, 5/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboard	16.86	1.99
			For Magnetic Surface, Add	1.29	
10 11 16 13-0039	SF		>24 SF, 5/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboard	14.21	1.11
			For Magnetic Surface, Add	1.20	

10 11 16 13-0040			1-1/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboards (EverWhite Classic Series) <small>(10 11 16 13-0033)</small> Note: Includes non-staining permanent marker resistant surface, non-magnetic surface, marker tray and mounting hardware.		
10 11 16 13-0041	SF		Up To 6 SF, 1-1/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboard	35.48	7.54
			For Magnetic Surface, Add	2.04	
10 11 16 13-0042	SF		>6 To 12 SF, 1-1/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboard	22.62	3.54
			For Magnetic Surface, Add	1.55	



Specialties	10
Information Specialties	10 10
Visual Display Units	10 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 11 16 13-0043 SF >12 To 16 SF, 1-1/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboard <i>For Magnetic Surface, Add</i>	19.52 1.34	3.06
10 11 16 13-0044 SF >16 To 24 SF, 1-1/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboard <i>For Magnetic Surface, Add</i>	16.86 1.29	1.99
10 11 16 13-0045 SF >24 SF, 1-1/8" Face Aluminum Frame, Nonporous, Non-Staining Markerboard <i>For Magnetic Surface, Add</i>	14.21 1.20	1.11
10 11 16 13-0046 1-1/4" Face Wood Frame, Nonporous, Non-Staining Markerboards (EverWhite Classic Series) (10 11 16 13-0033) Note: Includes non-staining permanent marker resistant surface, non-magnetic surface, marker tray and mounting hardware.		
10 11 16 13-0047 SF Up To 6 SF, 1-1/4" Face Wood Frame, Nonporous, Non-Staining Markerboard <i>For Magnetic Surface, Add</i>	60.78 4.57	7.54
10 11 16 13-0048 SF >6 To 12 SF, 1-1/4" Face Wood Frame, Nonporous, Non-Staining Markerboard <i>For Magnetic Surface, Add</i>	37.82 3.07	3.54
10 11 16 13-0049 SF >12 To 16 SF, 1-1/4" Face Wood Frame, Nonporous, Non-Staining Markerboard <i>For Magnetic Surface, Add</i>	32.00 2.59	3.06
10 11 16 13-0050 SF >16 To 24 SF, 1-1/4" Face Wood Frame, Nonporous, Non-Staining Markerboard <i>For Magnetic Surface, Add</i>	26.73 2.27	1.99
10 11 16 13-0051 SF >24 SF, 1-1/4" Face Wood Frame, Nonporous, Non-Staining Markerboard <i>For Magnetic Surface, Add</i>	20.52 1.83	1.11
10 11 16 13-0052 Nonporous, Non-Staining Markerboard Resurfacing Panels (EverWhite EverEZ Resurfacing Panels) (10 11 16 13-0033) Note: Includes non-staining, permanent marker resistant, magnetic dry erase surface. Excludes frame. Resurfacing panel for mounting to existing chalkboard or markerboard consists of dry erase surface, 24-gauge treated steel interlayer and pressure-sensitive adhesive backing.		
10 11 16 13-0053 SF Up To 16 SF, Nonporous, Non-Staining Markerboard Resurfacing Panel With Pressure-Sensitive Adhesive Backing	15.77	3.06
10 11 16 13-0054 SF >16 To 24 SF, Nonporous, Non-Staining Markerboard Resurfacing Panel With Pressure-Sensitive Adhesive Backing	13.14	1.99
10 11 16 13-0055 SF >24 SF, Nonporous, Non-Staining Markerboard Resurfacing Panel With Pressure-Sensitive Adhesive Backing	10.74	1.11
10 11 16 13-0056 Remove And Reinstall Markerboard (10 11 16 13)		
10 11 16 13-0057 EA Up To 6 SF, Removal And Reinstallation Of Markerboard	53.19	
10 11 16 13-0058 EA >6 To 12 SF, Removal And Reinstallation Of Markerboard	62.05	
10 11 16 13-0059 EA >12 To 16 SF, Removal And Reinstallation Of Markerboard	70.92	
10 11 16 13-0060 EA >16 To 24 SF, Removal And Reinstallation Of Markerboard	79.78	
10 11 16 13-0061 EA >24 SF, Removal And Reinstallation Of Markerboard	88.64	
10 11 16 13-0062 Field Applied Markerboard And Accessories (10 11 16 13)		
10 11 16 13-0063 Markerboard Face Sheets And Panels (10 11 16 13-0062)		
10 11 16 13-0064 SF Porcelain Enamel Steel Markerboard Face Sheet (Claridge LCS).....	13.32	3.54
Note: Includes porcelain enamel steel markerboard skin backed with double sided tape.		
10 11 16 13-0065 SF Porcelain Enamel Steel Markerboard Face Sheet With Double Sided Tape (Claridge LCS EZ Stick).....	15.71	3.54
Note: Includes porcelain enamel steel markerboard skin backed with double sided tape.		
10 11 16 13-0066 SF Porcelain Enamel Steel Markerboard Panel (Claridge LCS).....	15.66	3.54
Note: Includes porcelain enamel steel surface mounted on either 3/8" particle board or 1/4" hardboard core with an aluminum moisture barrier back.		
10 11 16 13-0067 SF Melamine Markerboard Panel (Claridge 1032)	8.99	3.54
Note: Includes 1/4" thick melamine panel.		
10 11 16 13-0068 Chalkboard And Markerboard Accessory Trays And Trim (10 11 16 13-0062) See CSI section 10 11 13 13-0026 for chalkboard and markerboard accessory trays and trim.		
10 11 16 33 Rail-Mounted Markerboards (10 11 16)		
10 11 16 33-0001 Horizontal Sliding, Porcelain Enamel Steel Markerboards (Claridge HS Series) (10 11 16 33)		
10 11 16 33-0002 Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboards (10 11 16 33-0001)		
10 11 16 33-0003 EA 4' x 6' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	1,884.33	88.64
10 11 16 33-0004 EA 4' x 8' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	2,111.76	88.64
10 11 16 33-0005 EA 4' x 10' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	2,388.77	94.41
10 11 16 33-0006 EA 4' x 12' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	2,654.25	94.41
10 11 16 33-0007 EA 4' x 14' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	3,312.67	101.50
10 11 16 33-0008 EA 4' x 16' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	3,522.88	101.50
10 11 16 33-0009 EA 4' x 20' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	3,973.89	106.37
10 11 16 33-0010 EA 4' x 24' Frame, Two Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	4,499.41	106.37
10 11 16 33-0011 Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboards (10 11 16 33-0001)		
10 11 16 33-0012 EA 4' x 6' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	2,585.64	88.64
10 11 16 33-0013 EA 4' x 8' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	3,064.96	88.64

10	10	Specialties
	10 10	Information Specialties
	10 11	Visual Display Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 11 16 33-0014	EA		4' x 10' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard.....	3,505.06	94.41
10 11 16 33-0015	EA		4' x 12' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard.....	3,944.51	94.41
10 11 16 33-0016	EA		4' x 14' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard.....	4,496.01	101.50
10 11 16 33-0017	EA		4' x 16' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard.....	4,685.38	101.50
10 11 16 33-0018	EA		4' x 20' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard.....	5,490.67	106.37
10 11 16 33-0019	EA		4' x 24' Frame, Three Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard.....	6,133.08	106.37
10 11 16 33-0020			Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboards (10 11 16 33-0001)		
10 11 16 33-0021	EA		4' x 6' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	2,884.65	88.64
10 11 16 33-0022	EA		4' x 8' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	3,275.17	88.64
10 11 16 33-0023	EA		4' x 10' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	3,698.06	94.41
10 11 16 33-0024	EA		4' x 12' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	4,147.47	94.41
10 11 16 33-0025	EA		4' x 14' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	5,025.16	101.50
10 11 16 33-0026	EA		4' x 16' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	5,227.21	101.50
10 11 16 33-0027	EA		4' x 20' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	6,169.32	106.37
10 11 16 33-0028	EA		4' x 24' Frame, Four Sliding Panels, Horizontal Sliding, Porcelain Enamel Steel Markerboard	6,905.06	106.37
10 11 16 33-0029			Vertical Sliding, Porcelain Enamel Steel Markerboards (Claridge TW Series) (10 11 16 33)		
10 11 16 33-0030			One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Markerboards (10 11 16 33-0029)		
10 11 16 33-0031	EA		8' x 4' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Markerboard	2,250.39	88.64
10 11 16 33-0032	EA		8' x 5' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Markerboard	2,479.63	88.64
10 11 16 33-0033	EA		8' x 6' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Markerboard	2,707.71	94.41
10 11 16 33-0034	EA		8' x 8' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Markerboard	3,103.67	94.41
10 11 16 33-0035	EA		8' x 10' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Markerboard	3,390.59	101.50
10 11 16 33-0036	EA		8' x 12' Frame, One Sliding Panel, Vertical Sliding, Porcelain Enamel Steel Markerboard	3,754.83	101.50
10 11 16 33-0037			Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboards (10 11 16 33-0029)		
10 11 16 33-0038	EA		8' x 4' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard	3,286.95	88.64
10 11 16 33-0039	EA		8' x 5' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard	3,639.41	88.64
10 11 16 33-0040	EA		8' x 6' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard	3,992.53	94.41
10 11 16 33-0041	EA		8' x 8' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard	4,638.57	94.41
10 11 16 33-0042	EA		8' x 10' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard	5,028.78	101.50
10 11 16 33-0043	EA		8' x 12' Frame, Two Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard	5,612.30	101.50
10 11 16 33-0044			Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboards (10 11 16 33-0029)		
10 11 16 33-0045	EA		8' x 4' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard.....	4,482.07	88.64
10 11 16 33-0046	EA		8' x 5' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard.....	4,960.48	88.64
10 11 16 33-0047	EA		8' x 6' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard.....	5,439.54	94.41
10 11 16 33-0048	EA		8' x 8' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard.....	6,334.75	94.41
10 11 16 33-0049	EA		8' x 10' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard.....	6,839.13	101.50
10 11 16 33-0050	EA		8' x 12' Frame, Three Sliding Panels, Vertical Sliding, Porcelain Enamel Steel Markerboard.....	7,658.23	101.50
10 11 16 33-0051			Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboards (Claridge MO Series) (10 11 16 33)		
			Note: Excludes remotes.		
10 11 16 33-0052			One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboards (10 11 16 33-0051)		
10 11 16 33-0053	EA		10' x 4' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	7,296.96	177.28
10 11 16 33-0054	EA		10' x 5' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	7,497.21	177.28
10 11 16 33-0055	EA		10' x 6' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	7,721.22	182.83
10 11 16 33-0056	EA		10' x 8' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	8,086.37	182.83
10 11 16 33-0057	EA		10' x 10' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	8,491.59	188.37
10 11 16 33-0058	EA		10' x 12' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	8,843.15	188.37
10 11 16 33-0059	EA		10' x 14' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	9,630.05	199.45
10 11 16 33-0060	EA		10' x 16' Frame, One Sliding Panel, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	9,713.41	199.45
10 11 16 33-0061			Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboards (10 11 16 33-0051)		
10 11 16 33-0062	EA		10' x 4' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	11,468.56	177.28
10 11 16 33-0063	EA		10' x 5' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	11,726.79	177.28
10 11 16 33-0064	EA		10' x 6' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	12,016.94	182.83
10 11 16 33-0065	EA		10' x 8' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	12,543.38	182.83
10 11 16 33-0066	EA		10' x 10' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	13,066.39	188.37
10 11 16 33-0067	EA		10' x 12' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	13,564.73	188.37
10 11 16 33-0068	EA		10' x 14' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	14,615.31	199.45
10 11 16 33-0069	EA		10' x 16' Frame, Two Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	14,739.44	199.45



Specialties	10
Information Specialties	10 10
Visual Display Units	10 11

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 11 16 33-0070 Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboards <small>(10 11 16 33-0051)</small>		
10 11 16 33-0071 EA 10' x 4' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	14,887.20	177.28
10 11 16 33-0072 EA 10' x 5' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	15,558.60	177.28
10 11 16 33-0073 EA 10' x 6' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	15,900.40	182.83
10 11 16 33-0074 EA 10' x 8' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	16,577.24	182.83
10 11 16 33-0075 EA 10' x 10' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	17,291.44	188.37
10 11 16 33-0076 EA 10' x 12' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	17,976.44	188.37
10 11 16 33-0077 EA 10' x 14' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	19,383.10	199.45
10 11 16 33-0078 EA 10' x 16' Frame, Three Sliding Panels, Motor Operated Vertical Sliding, Porcelain Enamel Steel Markerboard.....	19,611.43	199.45
10 11 16 33-0079 Sliding Chalkboard And Markerboard Accessories <small>(10 11 16 33)</small> See CSI section 10 11 13 33-0079 for sliding chalkboard and markerboard accessories.		
10 11 23 Tackboards <small>(10 11)</small>		
10 11 23 13 Fixed Tackboards <small>(10 11 23)</small> Note: Select task based off the square footage of an individual tackboard. For example use the >12 To 16 SF range for each 3' x 5' tackboard.		
10 11 23 13-0001 Fixed Tackboards <small>(10 11 23 13)</small> Note: Select task based off the square footage of an individual tackboard. For example use the >12 To 16 SF range for each 3' x 5' tackboard.		
10 11 23 13-0002 Cork Surface, Fixed Tackboards <small>(10 11 23 13-0001)</small> Note: Includes up to 1/4" cork surface, unmounted or mounted on duracore or hardboard.		
10 11 23 13-0003 5/8" Face Aluminum Frame, Cork Surface, Fixed Tackboards (Claridge 800 Series) <small>(10 11 23 13-0002)</small>		
10 11 23 13-0004 SF Up To 6 SF, 5/8" Face Aluminum Frame, Cork Surface, Fixed Tackboard.....	27.23	7.54
10 11 23 13-0005 SF >6 To 12 SF, 5/8" Face Aluminum Frame, Cork Surface, Fixed Tackboard.....	15.55	3.54
10 11 23 13-0006 SF >12 To 16 SF, 5/8" Face Aluminum Frame, Cork Surface, Fixed Tackboard.....	13.48	3.06
10 11 23 13-0007 SF >16 To 24 SF, 5/8" Face Aluminum Frame, Cork Surface, Fixed Tackboard.....	10.79	1.99
10 11 23 13-0008 SF >24 SF, 5/8" Face Aluminum Frame, Cork Surface, Fixed Tackboard.....	8.84	1.11
10 11 23 13-0009 1-1/4" Face Aluminum Frame, Cork Surface, Fixed Tackboards (Claridge 900A Series) <small>(10 11 23 13-0002)</small>		
10 11 23 13-0010 SF Up To 6 SF, 1-1/4" Face Aluminum Frame, Cork Surface, Fixed Tackboard.....	28.66	7.54
10 11 23 13-0011 SF >6 To 12 SF, 1-1/4" Face Aluminum Frame, Cork Surface, Fixed Tackboard.....	16.21	3.54
10 11 23 13-0012 SF >12 To 16 SF, 1-1/4" Face Aluminum Frame, Cork Surface, Fixed Tackboard.....	13.14	3.06
10 11 23 13-0013 SF >16 To 24 SF, 1-1/4" Face Aluminum Frame, Cork Surface, Fixed Tackboard.....	10.26	1.99
10 11 23 13-0014 SF >24 SF, 1-1/4" Face Aluminum Frame, Cork Surface, Fixed Tackboard.....	8.01	1.11
10 11 23 13-0015 1-3/4" Face Wood Frame, Cork Surface, Fixed Tackboards (Claridge 700 Series) <small>(10 11 23 13-0002)</small>		
10 11 23 13-0016 SF Up To 6 SF, 1-3/4" Face Wood Frame, Cork Surface, Fixed Tackboard.....	28.81	7.54
10 11 23 13-0017 SF >6 To 12 SF, 1-3/4" Face Wood Frame, Cork Surface, Fixed Tackboard.....	17.61	3.54
10 11 23 13-0018 SF >12 To 16 SF, 1-3/4" Face Wood Frame, Cork Surface, Fixed Tackboard.....	16.31	3.06
10 11 23 13-0019 SF >16 To 24 SF, 1-3/4" Face Wood Frame, Cork Surface, Fixed Tackboard.....	12.56	1.99
10 11 23 13-0020 SF >24 SF, 1-3/4" Face Wood Frame, Cork Surface, Fixed Tackboard.....	9.94	1.11
10 11 23 13-0021 Burlap Backed Cork Surface, Fixed Tackboards <small>(10 11 23 13-0001)</small> Note: Includes burlap backed 1/4" self healing cork surface, unmounted or mounted on hardboard.		
10 11 23 13-0022 5/8" Face Aluminum Frame, Burlap Backed Cork Surface, Fixed Tackboards (Claridge 800 Series) <small>(10 11 23 13-0021)</small>		
10 11 23 13-0023 SF Up To 6 SF, 5/8" Face Aluminum Frame, Burlap Backed Cork Surface, Fixed Tackboard.....	31.38	7.54
10 11 23 13-0024 SF >6 To 12 SF, 5/8" Face Aluminum Frame, Burlap Backed Cork Surface, Fixed Tackboard.....	20.53	3.54
10 11 23 13-0025 SF >12 To 16 SF, 5/8" Face Aluminum Frame, Burlap Backed Cork Surface, Fixed Tackboard.....	18.75	3.06
10 11 23 13-0026 SF >16 To 24 SF, 5/8" Face Aluminum Frame, Burlap Backed Cork Surface, Fixed Tackboard.....	16.07	1.99
10 11 23 13-0027 SF >24 SF, 5/8" Face Aluminum Frame, Burlap Backed Cork Surface, Fixed Tackboard.....	14.22	1.11
10 11 23 13-0028 1-3/4" Face Wood Frame, Burlap Backed Cork Surface, Fixed Tackboards (Claridge 700 Series) <small>(10 11 23 13-0021)</small>		
10 11 23 13-0029 SF Up To 6 SF, 1-3/4" Face Wood Frame, Burlap Backed Cork Surface, Fixed Tackboard.....	34.85	7.54
10 11 23 13-0030 SF >6 To 12 SF, 1-3/4" Face Wood Frame, Burlap Backed Cork Surface, Fixed Tackboard.....	24.24	3.54
10 11 23 13-0031 SF >12 To 16 SF, 1-3/4" Face Wood Frame, Burlap Backed Cork Surface, Fixed Tackboard.....	22.49	3.06
10 11 23 13-0032 SF >16 To 24 SF, 1-3/4" Face Wood Frame, Burlap Backed Cork Surface, Fixed Tackboard.....	18.79	1.99
10 11 23 13-0033 SF >24 SF, 1-3/4" Face Wood Frame, Burlap Backed Cork Surface, Fixed Tackboard.....	16.20	1.11
10 11 23 13-0034 Polyester Fabric Surface, Fixed Tackboards <small>(10 11 23 13-0001)</small> Note: Includes polyester fabric on cork underlay, unmounted or mounted on duracore. Class A rating.		
10 11 23 13-0035 5/8" Face Aluminum Frame, Polyester Fabric Surface, Fixed Tackboards (Claridge 800 Series) <small>(10 11 23 13-0034)</small>		

10	10	Specialties
	10 10	Information Specialties
	10 11	Visual Display Units



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 11 23 13-0036 SF Up To 6 SF, 5/8" Face Aluminum Frame, Polyester Fabric Surface, Fixed Tackboard.....	28.21	7.54
10 11 23 13-0037 SF >6 To 12 SF, 5/8" Face Aluminum Frame, Polyester Fabric Surface, Fixed Tackboard	16.75	3.54
10 11 23 13-0038 SF >12 To 16 SF, 5/8" Face Aluminum Frame, Polyester Fabric Surface, Fixed Tackboard	14.84	3.06
10 11 23 13-0039 SF >16 To 24 SF, 5/8" Face Aluminum Frame, Polyester Fabric Surface, Fixed Tackboard	12.18	1.99
10 11 23 13-0040 SF >24 SF, 5/8" Face Aluminum Frame, Polyester Fabric Surface, Fixed Tackboard	10.08	1.11
10 11 23 13-0041 1-3/4" Face Wood Frame, Polyester Fabric Surface, Fixed Tackboards (Claridge 700 Series) (10 11 23 13-0034)		
10 11 23 13-0042 SF Up To 6 SF, 1-3/4" Face Wood Frame, Polyester Fabric Surface, Fixed Tackboard	30.17	7.54
10 11 23 13-0043 SF >6 To 12 SF, 1-3/4" Face Wood Frame, Polyester Fabric Surface, Fixed Tackboard.....	19.31	3.54
10 11 23 13-0044 SF >12 To 16 SF, 1-3/4" Face Wood Frame, Polyester Fabric Surface, Fixed Tackboard.....	17.90	3.06
10 11 23 13-0045 SF >16 To 24 SF, 1-3/4" Face Wood Frame, Polyester Fabric Surface, Fixed Tackboard.....	14.30	1.99
10 11 23 13-0046 SF >24 SF, 1-3/4" Face Wood Frame, Polyester Fabric Surface, Fixed Tackboard.....	11.75	1.11
10 11 23 13-0047 Vinyl Fabric Surface, Fixed Tackboards (10 11 23 13-0001)		
Note: Includes vinyl fabric on cork underlay, unmounted or mounted on duracore.		
10 11 23 13-0048 5/8" Face Aluminum Frame, Vinyl Fabric Surface, Fixed Tackboards (Claridge 800 Series) (10 11 23 13-0047)		
10 11 23 13-0049 SF Up To 6 SF, 5/8" Face Aluminum Frame, Vinyl Fabric Surface, Fixed Tackboard.....	27.23	7.54
10 11 23 13-0050 SF >6 To 12 SF, 5/8" Face Aluminum Frame, Vinyl Fabric Surface, Fixed Tackboard.....	15.62	3.54
10 11 23 13-0051 SF >12 To 16 SF, 5/8" Face Aluminum Frame, Vinyl Fabric Surface, Fixed Tackboard	13.60	3.06
10 11 23 13-0052 SF >16 To 24 SF, 5/8" Face Aluminum Frame, Vinyl Fabric Surface, Fixed Tackboard	10.79	1.99
10 11 23 13-0053 SF >24 SF, 5/8" Face Aluminum Frame, Vinyl Fabric Surface, Fixed Tackboard	8.67	1.11
10 11 23 13-0054 1-3/4" Face Wood Frame, Vinyl Fabric Surface, Fixed Tackboards (Claridge 700 Series) (10 11 23 13-0047)		
10 11 23 13-0055 SF Up To 6 SF, 1-3/4" Face Wood Frame, Vinyl Fabric Surface, Fixed Tackboard	28.81	7.54
10 11 23 13-0056 SF >6 To 12 SF, 1-3/4" Face Wood Frame, Vinyl Fabric Surface, Fixed Tackboard.....	18.31	3.54
10 11 23 13-0057 SF >12 To 16 SF, 1-3/4" Face Wood Frame, Vinyl Fabric Surface, Fixed Tackboard.....	16.31	3.06
10 11 23 13-0058 SF >16 To 24 SF, 1-3/4" Face Wood Frame, Vinyl Fabric Surface, Fixed Tackboard.....	12.56	1.99
10 11 23 13-0059 SF 4' x 8', 1-3/4" Face Wood Frame, Vinyl Fabric Surface, Fixed Tackboard	9.94	1.11
10 12 Display Cases (10 10)		
10 12 00 00-0001 Counter Display Cases (10 12)		
10 12 00 00-0002 EA 30" x 12" x 36" Counter Display Cases	1,053.03	135.81
10 12 00 00-0003 EA 30" x 12" x 48" Counter Display Cases	1,132.54	135.81
10 12 00 00-0004 EA 30" x 18" x 36" Counter Display Cases	1,100.16	135.81
10 12 00 00-0005 EA 30" x 18" x 48" Counter Display Cases	1,059.39	60.36
10 12 00 00-0006 Upright Display Case (10 12)		
10 12 00 00-0007 EA 72 In x 20 In x 70 In Upright Display Case	2,131.66	135.81
10 12 00 00-0008 Full Vision Display Case (10 12)		
10 12 00 00-0009 EA 38 In x 20 In x 70 In Full Vision Display Case	1,412.54	135.81
10 13 Directories (10 10)		
10 13 11 Directory And Bulletin Boards (10 13)		
Note: Select task based off the square footage of an individual directory or bulletin board. For example use the >12 To 16 SF range for each 3' x 5' directory or bulletin board.		
10 13 11 00-0001 Wall Mounted Directories (10 13 11)		
Note: Includes changeable letters.		
10 13 11 00-0002 Open Face, Wall Mounted Directories (10 13 11 00-0001)		
Note: Includes vinyl or felt back panel.		
10 13 11 00-0003 Wood Frame, Open Face, Wall Mounted Directories (Claridge 350 Series) (10 13 11 00-0002)		
10 13 11 00-0004 SF Up To 6 SF, Wood Frame, Open Face, Wall Mounted Directory	45.57	7.54
10 13 11 00-0005 SF >6 To 12 SF, Wood Frame, Open Face, Wall Mounted Directory.....	29.97	3.54
10 13 11 00-0006 SF >12 To 16 SF, Wood Frame, Open Face, Wall Mounted Directory.....	27.26	3.06
10 13 11 00-0007 SF >16 To 24 SF, Wood Frame, Open Face, Wall Mounted Directory.....	20.87	1.99
10 13 11 00-0008 SF >24 SF, Wood Frame, Open Face, Wall Mounted Directory	16.71	1.11
10 13 11 00-0009 Aluminum Frame, Open Face, Wall Mounted Directories (Claridge 432 Series) (10 13 11 00-0002)		
10 13 11 00-0010 SF Up To 6 SF, Aluminum Frame, Open Face, Wall Mounted Directory.....	46.03	7.54
For Bronze Anodize Finish, Add		12.00
10 13 11 00-0011 SF >6 To 12 SF, Aluminum Frame, Open Face, Wall Mounted Directory	30.27	3.54
For Bronze Anodize Finish, Add		12.00



Specialties	10
Information Specialties	10 10
Directories	10 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 13 11 00-0012 SF >12 To 16 SF, Aluminum Frame, Open Face, Wall Mounted Directory <i>For Bronze Anodize Finish, Add</i>	27.87 12.00	3.06
10 13 11 00-0013 SF >16 To 24 SF, Aluminum Frame, Open Face, Wall Mounted Directory <i>For Bronze Anodize Finish, Add</i>	19.88 12.00	1.99
10 13 11 00-0014 SF >24 SF, Aluminum Frame, Open Face, Wall Mounted Directory <i>For Bronze Anodize Finish, Add</i>	17.16 12.00	1.11
10 13 11 00-0015 Glass Encased, Wall Mounted Directory Cabinets (10 13 11 00-0001) Note: Includes vinyl or felt back panel, 3/16" tempered glass and flat key tumbler lock. Surface or recess mounted.		
10 13 11 00-0016 Wood Frame, Glass Encased, Wall Mounted Directory Cabinets (10 13 11 00-0015)		
10 13 11 00-0017 Hinged Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinets (Claridge 3052 Series) (10 13 11 00-0016)		
10 13 11 00-0018 SF Up To 6 SF, Hinged Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i>	113.68 15.00	7.54
10 13 11 00-0019 SF >6 To 12 SF, Hinged Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i>	91.43 15.00	3.54
10 13 11 00-0020 SF >12 To 16 SF, Hinged Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i>	76.57 15.00	3.06
10 13 11 00-0021 SF >16 To 24 SF, Hinged Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i>	71.00 15.00	1.99
10 13 11 00-0022 SF >24 SF, Hinged Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i>	64.28 15.00	1.11
10 13 11 00-0023 Sliding Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinets (Claridge 345 Series) (10 13 11 00-0016)		
10 13 11 00-0024 SF Up To 12 SF, Sliding Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i>	97.67 15.00	7.54
10 13 11 00-0025 SF >12 To 16 SF, Sliding Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i>	79.09 15.00	3.06
10 13 11 00-0026 SF >16 To 24 SF, Sliding Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i>	56.73 15.00	1.99
10 13 11 00-0027 SF >24 SF, Sliding Door, Wood Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i>	51.14 15.00	1.11
10 13 11 00-0028 Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinets (10 13 11 00-0015)		
10 13 11 00-0029 Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinets (Claridge Contemporary Series) (10 13 11 00-0028)		
10 13 11 00-0030 SF Up To 6 SF, Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	101.68 15.00 12.00 17.32	7.54
10 13 11 00-0031 SF >6 To 12 SF, Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	78.98 15.00 12.00 14.38	3.54
10 13 11 00-0032 SF >12 To 16 SF, Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	66.84 15.00 12.00 12.14	3.06
10 13 11 00-0033 SF >16 To 24 SF, Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	49.15 15.00 12.00 9.03	1.99
10 13 11 00-0034 SF >24 SF, Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	45.93 15.00 12.00 8.74	1.11
10 13 11 00-0035 Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinets (Claridge Contemporary Series) (10 13 11 00-0028)		
10 13 11 00-0036 SF Up To 6 SF, Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	157.10 15.00 12.00 28.41	7.54
10 13 11 00-0037 SF >6 To 12 SF, Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	91.37 15.00 12.00 16.86	3.54
10 13 11 00-0038 SF >12 To 16 SF, Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	76.98 15.00 12.00 14.17	3.06

10	10	Specialties
	10 10	Information Specialties
	10 13	Directories



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 13 11 00-0039	SF	>16 To 24 SF, Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinet	59.38	1.99
		<i>For Fluorescent Lights, Add</i>	15.00	
		<i>For Bronze Anodize Finish, Add</i>	12.00	
		<i>For Header Panel, Add</i>	11.08	
10 13 11 00-0040	SF	>24 SF, Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Directory Cabinet	55.00	1.11
		<i>For Fluorescent Lights, Add</i>	15.00	
		<i>For Bronze Anodize Finish, Add</i>	12.00	
		<i>For Header Panel, Add</i>	10.56	
10 13 11 00-0041		Outdoor, Glass Encased, Wall Mounted Directory Cabinets <small>(10 13 11 00-0001)</small>		
		Note: Includes vinyl or felt back panel, 3/16" tempered glass and flat key tumbler lock. Surface or recess mounted.		
10 13 11 00-0042		Aluminum Frame, Outdoor, Glass Encased, Wall Mounted Directory Cabinets <small>(10 13 11 00-0041)</small>		
10 13 11 00-0043		Hinged Door, Aluminum Frame, Outdoor, Glass Encased, Wall Mounted Directory Cabinets (Claridge 548 Series) <small>(10 13 11 00-0042)</small>		
10 13 11 00-0044	SF	Up To 6 SF, Hinged Door, Outdoor, Glass Encased, Wall Mounted Directory Cabinet	154.30	7.54
		<i>For Fluorescent Lights, Add</i>	15.00	
		<i>For Bronze Anodize Finish, Add</i>	12.00	
10 13 11 00-0045	SF	>6 To 12 SF, Hinged Door, Outdoor, Glass Encased, Wall Mounted Directory Cabinet	103.22	3.54
		<i>For Fluorescent Lights, Add</i>	15.00	
		<i>For Bronze Anodize Finish, Add</i>	12.00	
10 13 11 00-0046	SF	>12 SF, Hinged Door, Outdoor, Glass Encased, Wall Mounted Directory Cabinet	100.35	3.06
		<i>For Fluorescent Lights, Add</i>	15.00	
		<i>For Bronze Anodize Finish, Add</i>	12.00	
10 13 11 00-0047		Wall Mounted Bulletin Boards <small>(10 13 11)</small>		
10 13 11 00-0048		Glass Encased, Wall Mounted Bulletin Board Cabinets <small>(10 13 11 00-0047)</small>		
		Note: Includes cork, fabric or hook-fab back panel, 3/16" tempered glass and flat key tumbler lock. Surface or recess mounted.		
10 13 11 00-0049		Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinets <small>(10 13 11 00-0048)</small>		
10 13 11 00-0050		Hinged Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinets (Claridge 3070 Series) <small>(10 13 11 00-0049)</small>		
10 13 11 00-0051	SF	Up To 6 SF, Hinged Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	110.96	7.54
		<i>For Fluorescent Lights, Add</i>	15.00	
10 13 11 00-0052	SF	>6 To 12 SF, Hinged Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	89.39	3.54
		<i>For Fluorescent Lights, Add</i>	15.00	
10 13 11 00-0053	SF	>12 To 16 SF, Hinged Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	74.53	3.06
		<i>For Fluorescent Lights, Add</i>	15.00	
10 13 11 00-0054	SF	>16 To 24 SF, Hinged Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	69.08	1.99
		<i>For Fluorescent Lights, Add</i>	15.00	
10 13 11 00-0055	SF	>24 SF, Hinged Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	63.37	1.11
		<i>For Fluorescent Lights, Add</i>	15.00	
10 13 11 00-0056		Sliding Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinets (Claridge 310 Series) <small>(10 13 11 00-0049)</small>		
10 13 11 00-0057	SF	Up To 12 SF, Sliding Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	92.84	7.54
		<i>For Fluorescent Lights, Add</i>	15.00	
10 13 11 00-0058	SF	>12 To 16 SF, Sliding Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	74.50	3.06
		<i>For Fluorescent Lights, Add</i>	15.00	
10 13 11 00-0059	SF	>16 To 24 SF, Sliding Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	53.18	1.99
		<i>For Fluorescent Lights, Add</i>	15.00	
10 13 11 00-0060	SF	>24 SF, Sliding Door, Wood Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	48.42	1.11
		<i>For Fluorescent Lights, Add</i>	15.00	
10 13 11 00-0061		Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinets <small>(10 13 11 00-0048)</small>		
10 13 11 00-0062		Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinets (Claridge Contemporary Series) <small>(10 13 11 00-0061)</small>		
10 13 11 00-0063	SF	Up To 6 SF, Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	104.17	7.54
		<i>For Fluorescent Lights, Add</i>	15.00	
		<i>For Bronze Anodize Finish, Add</i>	12.00	
		<i>For Header Panel, Add</i>	17.82	
10 13 11 00-0064	SF	>6 To 12 SF, Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	81.46	3.54
		<i>For Fluorescent Lights, Add</i>	15.00	
		<i>For Bronze Anodize Finish, Add</i>	12.00	
		<i>For Header Panel, Add</i>	14.87	
10 13 11 00-0065	SF	>12 To 16 SF, Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet	69.32	3.06
		<i>For Fluorescent Lights, Add</i>	15.00	
		<i>For Bronze Anodize Finish, Add</i>	12.00	
		<i>For Header Panel, Add</i>	12.64	



Specialties	10
Information Specialties	10 10
Directories	10 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 13 11 00-0066 SF >16 To 24 SF, Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	51.63 15.00 12.00 9.53	1.99
10 13 11 00-0067 SF >24 SF, Hinged Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	48.42 15.00 12.00 9.24	1.11
10 13 11 00-0068 Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinets (Claridge Contemporary Series) (10 13 11 00-0061)		
10 13 11 00-0069 SF Up To 6 SF, Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	159.59 15.00 12.00 28.90	7.54
10 13 11 00-0070 SF >6 To 12 SF, Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	93.85 15.00 12.00 17.35	3.54
10 13 11 00-0071 SF >12 To 16 SF, Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	79.46 15.00 12.00 14.67	3.06
10 13 11 00-0072 SF >16 To 24 SF, Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	61.87 15.00 12.00 11.58	1.99
10 13 11 00-0073 SF >24 SF, Sliding Door, Aluminum Frame, Glass Encased, Wall Mounted Bulletin Board Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i> <i>For Header Panel, Add</i>	57.48 15.00 12.00 11.05	1.11
10 13 11 00-0074 Outdoor, Glass Encased, Wall Mounted Bulletin Board Cabinets (10 13 11 00-0047) Note: Includes cork, fabric or hook-fab back panel, 3/16" tempered glass and flat key tumbler lock. Surface or recess mounted.		
10 13 11 00-0075 Aluminum Frame, Outdoor, Glass Encased, Wall Mounted Bulletin Board Cabinets (10 13 11 00-0074)		
10 13 11 00-0076 Hinged Door, Aluminum Frame, Outdoor, Glass Encased, Wall Mounted Bulletin Board Cabinets (10 13 11 00-0075)		
10 13 11 00-0077 SF Up To 6 SF, Hinged Door, Outdoor, Glass Encased, Wall Mounted Bulletin Board Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i>	151.82 15.00 12.00	7.54
10 13 11 00-0078 SF >6 To 12 SF, Hinged Door, Outdoor, Glass Encased, Wall Mounted Bulletin Board Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i>	100.74 15.00 12.00	3.54
10 13 11 00-0079 SF >12 SF, Hinged Door, Outdoor, Glass Encased, Wall Mounted Bulletin Board Cabinet..... <i>For Fluorescent Lights, Add</i> <i>For Bronze Anodize Finish, Add</i>	97.89 15.00 12.00	3.06
10 14 Signage (10 10) Note: Where required, signage excludes electrical connection, disconnect, or terminations unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection wiring, 26 05 83 00-0130 for terminations.		
10 14 16 Plaques (10 14) Note: Includes minimum 1/4" to 3/8" plaque with custom 1/4" raised lettering and emblem casting. Sizes one to four SF each.		
10 14 16 00-0001 Metal Cased Plaque (10 14 16)		
10 14 16 00-0002 SF Bronze Cast Plaque With lettering Including Emblem Size 1-4 SF Each..... <i>For >5 To 10, Deduct</i> <i>For >10 Each, Deduct</i>	484.37 -52.39 -91.97	22.15
10 14 16 00-0003 SF Aluminum Cast Plaque With lettering Including Emblem Size 1-4 SF Each..... <i>For >5 To 10, Deduct</i> <i>For >10 Each, Deduct</i>	283.18 -30.26 -49.72	22.15
10 14 16 00-0004 Metal Engraved Plaque, Etched (10 14 16)		
10 14 16 00-0005 SF Porcelainized Steel Engraved Plaque Including Emblem Size 1-4 SF Each..... <i>For >5 To 10, Deduct</i> <i>For >10 Each, Deduct</i>	309.67 -33.18 -55.28	22.15
10 14 16 00-0006 SF Stainless Steel Engraved Plaque Including Emblem Size 1-4 SF Each..... <i>For >5 To 10, Deduct</i> <i>For >10 Each, Deduct</i>	289.57 -30.97 -51.06	22.15
10 14 16 00-0007 SF Brass Engraved Plaque Including Emblem Size 1-4 SF Each..... <i>For >5 To 10, Deduct</i> <i>For >10 Each, Deduct</i>	202.79 -21.42 -32.84	22.15
10 14 16 00-0008 SF Aluminum Engraved Plaque Including Emblem Size 1-4 SF Each..... <i>For >5 To 10, Deduct</i> <i>For >10 Each, Deduct</i>	196.40 -20.72 -31.50	22.15

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
10 14 16 00-0009		Metal Built-Up Plaque <small>(10 14 16)</small>			
10 14 16 00-0010	SF	Bronze Built-up Plaque .....364.86			27.47
		Note: Including Emblem Size 1-4 SF Each			
		For >5 To 10, Deduct	-39.03		
		For >10 Each, Deduct	-64.44		
10 14 16 00-0011	SF	Copper And Bronze Built-up Plaque .....372.56			27.47
		Note: Including Emblem Size 1-4 SF Each			
		For >5 To 10, Deduct	-39.87		
		For >10 Each, Deduct	-66.05		
10 14 16 00-0012	SF	Copper And Aluminum Built-up Plaque.....318.13			27.47
		Note: Including Emblem Size 1-4 SF Each			
		For >5 To 10, Deduct	-33.89		
		For >10 Each, Deduct	-54.62		
10 14 16 00-0013	SF	Bronze Built-up Dedication Plaque.....425.22			55.38
		Note: Including Raised Bronze Lettering			
		For >5 To 10, Deduct	-45.67		
		For >10 Each, Deduct	-77.11		
10 14 16 00-0014	SF	Bronze Built-up Plaque .....361.04			55.38
		Note: Including Raised Bronze Lettering			
		For >5 To 10, Deduct	-38.61		
		For >10 Each, Deduct	-63.63		
10 14 16 00-0015		Metal Nameplate Plaques <small>(10 14 16)</small>			
10 14 16 00-0016	SF	Cast Bronze Nameplate Plaque Including Emblem Size 1-4 SF Each.....187.42			15.07
		For >5 To 10, Deduct	-20.03		
		For >10 Each, Deduct	-32.86		
10 14 16 00-0017	SF	Cast Aluminum Nameplate Plaque Including Emblem Size 1-4 SF Each .....218.95			15.07
		For >5 To 10, Deduct	-23.49		
		For >10 Each, Deduct	-39.48		
10 14 16 00-0018	EA	1-1/2" x 6" Engraved Bronze Nameplate Including Emblem Size 1-4 SF Each.....136.09			15.07
		For >5 To 10, Deduct	-14.38		
		For >10 Each, Deduct	-22.08		
10 14 16 00-0019	EA	1-1/2" x 6" Engraved Aluminum Nameplate Including Emblem Size 1-4 SF Each.....113.90			15.07
		For >5 To 10, Deduct	-11.94		
		For >10 Each, Deduct	-17.42		
10 14 16 00-0020	SF	Bronze Built-up Plaque Including Raised Bronze Lettering (3' x 9").....351.87			55.38
		For >5 To 10, Deduct	-37.60		
		For >10 Each, Deduct	-61.71		
10 14 19		Dimensional Letter Signage <small>(10 14)</small>			
		Note: Mounted on masonry or concrete.			
10 14 19 00-0001		Cast Characters <small>(10 14 19)</small>			
		Note: Any font.			
10 14 19 00-0002		Satin Finish, Cast Aluminum Characters <small>(10 14 19 00-0001)</small>			
10 14 19 00-0003	EA	2" High x 3/8" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs .....38.53			5.54
		For Installation With Adhesive, Deduct	-4.14		
		For Clear Anodized, Add	1.64		
		For Satin Face And Enameled Return, Add	4.91		
		For Patina Finish, Add	6.55		
		For Color Anodized, Add	8.19		
10 14 19 00-0004	EA	3" High x 1/2" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs .....45.35			5.98
		For Installation With Adhesive, Deduct	-4.66		
		For Clear Anodized, Add	2.14		
		For Satin Face And Enameled Return, Add	6.43		
		For Patina Finish, Add	8.57		
		For Color Anodized, Add	10.71		
10 14 19 00-0005	EA	4" High x 5/8" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs .....49.63			6.43
		For Installation With Adhesive, Deduct	-5.05		
		For Clear Anodized, Add	2.39		
		For Satin Face And Enameled Return, Add	7.18		
		For Patina Finish, Add	9.58		
		For Color Anodized, Add	11.97		
10 14 19 00-0006	EA	5" High x 3/4" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs .....56.96			7.35
		For Installation With Adhesive, Deduct	-5.77		
		For Clear Anodized, Add	2.77		
		For Satin Face And Enameled Return, Add	8.32		
		For Patina Finish, Add	11.09		
		For Color Anodized, Add	13.86		
10 14 19 00-0007	EA	6" High x 3/4" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs .....62.52			7.75
		For Installation With Adhesive, Deduct	-6.23		
		For Clear Anodized, Add	3.15		
		For Satin Face And Enameled Return, Add	9.45		
		For Patina Finish, Add	12.60		
		For Color Anodized, Add	15.75		
10 14 19 00-0008	EA	8" High x 3/4" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs .....74.50			8.86
		For Installation With Adhesive, Deduct	-7.27		
		For Clear Anodized, Add	3.91		
		For Satin Face And Enameled Return, Add	11.72		
		For Patina Finish, Add	15.62		
		For Color Anodized, Add	19.53		



Specialties	10
Information Specialties	10 10
Signage	10 14

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0009	EA		9" High x 3/4" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Patina Finish, Add</i> <i>For Color Anodized, Add</i>	82.58 -7.85 4.54 13.61 18.14 22.68	9.30
10 14 19 00-0010	EA		10" High x 1" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Patina Finish, Add</i> <i>For Color Anodized, Add</i>	94.05 -8.69 5.42 16.25 21.67 27.09	9.97
10 14 19 00-0011	EA		12" High x 1" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Patina Finish, Add</i> <i>For Color Anodized, Add</i>	114.12 -10.31 6.80 20.41 27.22 34.02	11.51
10 14 19 00-0012	EA		14" High x 1" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Patina Finish, Add</i> <i>For Color Anodized, Add</i>	136.33 -12.13 8.32 24.95 33.26 41.58	13.30
10 14 19 00-0013	EA		15" High x 1-1/4" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Patina Finish, Add</i> <i>For Color Anodized, Add</i>	149.82 -13.40 9.07 27.22 36.29 45.36	14.77
10 14 19 00-0014	EA		16" High x 1-1/4" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Patina Finish, Add</i> <i>For Color Anodized, Add</i>	167.12 -14.74 10.33 31.00 41.33 51.66	15.95
10 14 19 00-0015	EA		18" High x 1-1/2" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Patina Finish, Add</i> <i>For Color Anodized, Add</i>	201.93 -17.19 13.10 39.31 52.42 65.52	17.72
10 14 19 00-0016	EA		20" High x 1-1/2" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Patina Finish, Add</i> <i>For Color Anodized, Add</i>	243.55 -20.15 16.38 49.14 65.52 81.90	19.94
10 14 19 00-0017	EA		24" High x 1-1/2" Deep, Satin Finish, Cast Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Patina Finish, Add</i> <i>For Color Anodized, Add</i>	292.73 -23.50 20.41 61.24 81.65 102.06	22.15
10 14 19 00-0018	Satin Finish, Cast Bronze Characters <small>(10 14 19 00-0001)</small>				
10 14 19 00-0019	EA		2" High x 3/8" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	47.91 -4.83 3.53 7.06	6.09
10 14 19 00-0020	EA		3" High x 1/2" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	68.06 -6.06 6.22 12.44	6.65
10 14 19 00-0021	EA		4" High x 5/8" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	74.33 -6.55 6.90 13.79	7.09
10 14 19 00-0022	EA		5" High x 3/4" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	90.20 -7.70 8.75 17.49	7.97
10 14 19 00-0023	EA		6" High x 1/2" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	100.26 -8.42 9.92 19.85	8.51
10 14 19 00-0024	EA		8" High x 3/4" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	133.17 -10.56 14.13 28.25	9.75
10 14 19 00-0025	EA		9" High x 3/4" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	151.76 -11.66 16.65 33.30	10.19

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0026	EA		10" High x 1" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	169.88 -12.93 18.84 37.67	11.07
10 14 19 00-0027	EA		12" High x 1" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	201.64 -15.22 22.54 45.07	12.85
10 14 19 00-0028	EA		14" High x 1" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	236.75 -17.69 26.74 53.48	14.62
10 14 19 00-0029	EA		15" High x 1-1/4" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	280.55 -21.12 31.45 62.90	17.72
10 14 19 00-0030	EA		16" High x 1-1/4" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	291.48 -22.20 32.29 64.58	19.05
10 14 19 00-0031	EA		18" High x 1-1/2" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	412.63 -29.49 48.60 97.21	22.15
10 14 19 00-0032	EA		20" High x 1-1/2" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	496.59 -34.80 59.54 119.07	24.93
10 14 19 00-0033	EA		24" High x 1-1/2" Deep, Satin Finish, Cast Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	630.95 -43.07 77.36 154.73	28.80
10 14 19 00-0034			Molded Characters (10 14 19) Note: Any font.		
10 14 19 00-0035			Molded Plastic Characters (10 14 19 00-0034)		
10 14 19 00-0036	EA		4" High x 3/4" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	27.59 -3.15	4.43
10 14 19 00-0037	EA		5" High x 3/4" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	29.97 -3.45	4.88
10 14 19 00-0038	EA		6" High x 3/4" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	33.03 -3.78	5.32
10 14 19 00-0039	EA		8" High x 3/4" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	41.11 -4.36	5.76
10 14 19 00-0040	EA		9" High x 3/4" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	44.40 -4.70	6.21
10 14 19 00-0041	EA		10" High x 1" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	48.00 -5.06	6.65
10 14 19 00-0042	EA		12" High x 1" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	55.97 -5.90	7.75
10 14 19 00-0043	EA		15" High x 1" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	73.21 -7.56	9.75
10 14 19 00-0044	EA		18" High x 1-1/2" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	92.20 -9.22	11.51
10 14 19 00-0045	EA		24" High x 1-1/2" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	133.25 -12.33	14.18
10 14 19 00-0046	EA		30" High x 1-1/2" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	192.85 -16.29	16.61
10 14 19 00-0047	EA		36" High x 1-1/2" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	250.04 -20.12	19.05
10 14 19 00-0048	EA		48" High x 1-1/2" Deep, Molded Plastic Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i>	456.16 -33.00	25.47
10 14 19 00-0049			Cutout Characters (10 14 19) Note: Any font.		
10 14 19 00-0050			Satin Finish, Aluminum Characters (10 14 19 00-0049)		
10 14 19 00-0051			1/4" Deep, Satin Finish, Aluminum Characters (10 14 19 00-0050)		
10 14 19 00-0052	EA		2" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Color Anodized, Add</i> <i>For Polished Or Patina Finish, Add</i> <i>For Polished Anodized Finish, Add</i>	36.01 -4.02 1.39 4.85 6.93 6.93 10.40	5.54
10 14 19 00-0053	EA		4" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Clear Anodized, Add</i> <i>For Satin Face And Enameled Return, Add</i> <i>For Color Anodized, Add</i> <i>For Polished Or Patina Finish, Add</i> <i>For Polished Anodized Finish, Add</i>	49.63 -5.05 2.39 8.38 11.97 11.97 17.96	6.43



Specialties	10
Information Specialties	10 10
Signage	10 14

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0054	EA		6" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	66.30	7.75
			<i>For Installation With Adhesive, Deduct</i>	-6.42	
			<i>For Clear Anodized, Add</i>	3.53	
			<i>For Satin Face And Enameled Return, Add</i>	12.35	
			<i>For Color Anodized, Add</i>	17.64	
			<i>For Polished Or Patina Finish, Add</i>	17.64	
			<i>For Polished Anodized Finish, Add</i>	26.46	
10 14 19 00-0055	EA		8" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	80.80	8.86
			<i>For Installation With Adhesive, Deduct</i>	-7.58	
			<i>For Clear Anodized, Add</i>	4.54	
			<i>For Satin Face And Enameled Return, Add</i>	15.88	
			<i>For Color Anodized, Add</i>	22.68	
			<i>For Polished Or Patina Finish, Add</i>	22.68	
			<i>For Polished Anodized Finish, Add</i>	34.02	
10 14 19 00-0056	EA		10" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	92.79	9.97
			<i>For Installation With Adhesive, Deduct</i>	-8.63	
			<i>For Clear Anodized, Add</i>	5.29	
			<i>For Satin Face And Enameled Return, Add</i>	18.52	
			<i>For Color Anodized, Add</i>	26.46	
			<i>For Polished Or Patina Finish, Add</i>	26.46	
			<i>For Polished Anodized Finish, Add</i>	39.69	
10 14 19 00-0057	EA		12" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	106.56	11.51
			<i>For Installation With Adhesive, Deduct</i>	-9.94	
			<i>For Clear Anodized, Add</i>	6.05	
			<i>For Satin Face And Enameled Return, Add</i>	21.17	
			<i>For Color Anodized, Add</i>	30.24	
			<i>For Polished Or Patina Finish, Add</i>	30.24	
			<i>For Polished Anodized Finish, Add</i>	45.36	
10 14 19 00-0058	EA		14" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	124.99	13.30
			<i>For Installation With Adhesive, Deduct</i>	-11.57	
			<i>For Clear Anodized, Add</i>	7.18	
			<i>For Satin Face And Enameled Return, Add</i>	25.14	
			<i>For Color Anodized, Add</i>	35.91	
			<i>For Polished Or Patina Finish, Add</i>	35.91	
			<i>For Polished Anodized Finish, Add</i>	53.87	
10 14 19 00-0059	EA		16" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	148.22	15.95
			<i>For Installation With Adhesive, Deduct</i>	-13.79	
			<i>For Clear Anodized, Add</i>	8.44	
			<i>For Satin Face And Enameled Return, Add</i>	29.55	
			<i>For Color Anodized, Add</i>	42.21	
			<i>For Polished Or Patina Finish, Add</i>	42.21	
			<i>For Polished Anodized Finish, Add</i>	63.32	
10 14 19 00-0060	EA		18" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	166.65	17.72
			<i>For Installation With Adhesive, Deduct</i>	-15.42	
			<i>For Clear Anodized, Add</i>	9.58	
			<i>For Satin Face And Enameled Return, Add</i>	33.52	
			<i>For Color Anodized, Add</i>	47.88	
			<i>For Polished Or Patina Finish, Add</i>	47.88	
			<i>For Polished Anodized Finish, Add</i>	71.82	
10 14 19 00-0061	EA		20" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	199.45	19.94
			<i>For Installation With Adhesive, Deduct</i>	-17.95	
			<i>For Clear Anodized, Add</i>	11.97	
			<i>For Satin Face And Enameled Return, Add</i>	41.90	
			<i>For Color Anodized, Add</i>	59.85	
			<i>For Polished Or Patina Finish, Add</i>	59.85	
			<i>For Polished Anodized Finish, Add</i>	89.78	
10 14 19 00-0062	EA		22" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	227.83	21.05
			<i>For Installation With Adhesive, Deduct</i>	-19.81	
			<i>For Clear Anodized, Add</i>	14.36	
			<i>For Satin Face And Enameled Return, Add</i>	50.27	
			<i>For Color Anodized, Add</i>	71.82	
			<i>For Polished Or Patina Finish, Add</i>	71.82	
			<i>For Polished Anodized Finish, Add</i>	107.73	
10 14 19 00-0063	EA		24" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	280.13	22.15
			<i>For Installation With Adhesive, Deduct</i>	-22.87	
			<i>For Clear Anodized, Add</i>	19.15	
			<i>For Satin Face And Enameled Return, Add</i>	67.03	
			<i>For Color Anodized, Add</i>	95.76	
			<i>For Polished Or Patina Finish, Add</i>	95.76	
			<i>For Polished Anodized Finish, Add</i>	143.64	
10 14 19 00-0064	EA		30" High x 1/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	398.23	26.58
			<i>For Installation With Adhesive, Deduct</i>	-30.54	
			<i>For Clear Anodized, Add</i>	29.19	
			<i>For Satin Face And Enameled Return, Add</i>	102.17	
			<i>For Color Anodized, Add</i>	145.95	
			<i>For Polished Or Patina Finish, Add</i>	145.95	
			<i>For Polished Anodized Finish, Add</i>	218.93	
10 14 19 00-0065			3/8" Deep, Satin Finish, Aluminum Characters <small>(10 14 19 00-0050)</small>		
10 14 19 00-0066	EA		2" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	44.88	5.54
			<i>For Installation With Adhesive, Deduct</i>	-4.46	
			<i>For Clear Anodized, Add</i>	2.27	
			<i>For Satin Face And Enameled Return, Add</i>	7.96	
			<i>For Color Anodized, Add</i>	11.37	
			<i>For Polished Or Patina Finish, Add</i>	11.37	
			<i>For Polished Anodized Finish, Add</i>	17.05	

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0067	EA		4" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	63.52	6.43
			<i>For Installation With Adhesive, Deduct</i>	-5.75	
			<i>For Clear Anodized, Add</i>	3.78	
			<i>For Satin Face And Enameled Return, Add</i>	13.24	
			<i>For Color Anodized, Add</i>	18.92	
			<i>For Polished Or Patina Finish, Add</i>	18.92	
			<i>For Polished Anodized Finish, Add</i>	28.37	
10 14 19 00-0068	EA		6" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	80.06	7.75
			<i>For Installation With Adhesive, Deduct</i>	-7.11	
			<i>For Clear Anodized, Add</i>	4.90	
			<i>For Satin Face And Enameled Return, Add</i>	17.16	
			<i>For Color Anodized, Add</i>	24.52	
			<i>For Polished Or Patina Finish, Add</i>	24.52	
			<i>For Polished Anodized Finish, Add</i>	36.78	
10 14 19 00-0069	EA		8" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	99.85	8.86
			<i>For Installation With Adhesive, Deduct</i>	-8.54	
			<i>For Clear Anodized, Add</i>	6.44	
			<i>For Satin Face And Enameled Return, Add</i>	22.54	
			<i>For Color Anodized, Add</i>	32.21	
			<i>For Polished Or Patina Finish, Add</i>	32.21	
			<i>For Polished Anodized Finish, Add</i>	48.31	
10 14 19 00-0070	EA		10" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	115.55	9.97
			<i>For Installation With Adhesive, Deduct</i>	-9.76	
			<i>For Clear Anodized, Add</i>	7.57	
			<i>For Satin Face And Enameled Return, Add</i>	26.49	
			<i>For Color Anodized, Add</i>	37.84	
			<i>For Polished Or Patina Finish, Add</i>	37.84	
			<i>For Polished Anodized Finish, Add</i>	56.76	
10 14 19 00-0071	EA		12" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	135.59	11.51
			<i>For Installation With Adhesive, Deduct</i>	-11.39	
			<i>For Clear Anodized, Add</i>	8.95	
			<i>For Satin Face And Enameled Return, Add</i>	31.33	
			<i>For Color Anodized, Add</i>	44.76	
			<i>For Polished Or Patina Finish, Add</i>	44.76	
			<i>For Polished Anodized Finish, Add</i>	67.13	
10 14 19 00-0072	EA		14" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	158.75	13.30
			<i>For Installation With Adhesive, Deduct</i>	-13.25	
			<i>For Clear Anodized, Add</i>	10.56	
			<i>For Satin Face And Enameled Return, Add</i>	36.95	
			<i>For Color Anodized, Add</i>	52.79	
			<i>For Polished Or Patina Finish, Add</i>	52.79	
			<i>For Polished Anodized Finish, Add</i>	79.19	
10 14 19 00-0073	EA		16" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	196.34	15.95
			<i>For Installation With Adhesive, Deduct</i>	-16.20	
			<i>For Clear Anodized, Add</i>	13.25	
			<i>For Satin Face And Enameled Return, Add</i>	46.39	
			<i>For Color Anodized, Add</i>	66.27	
			<i>For Polished Or Patina Finish, Add</i>	66.27	
			<i>For Polished Anodized Finish, Add</i>	99.41	
10 14 19 00-0074	EA		18" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	226.98	17.72
			<i>For Installation With Adhesive, Deduct</i>	-18.44	
			<i>For Clear Anodized, Add</i>	15.61	
			<i>For Satin Face And Enameled Return, Add</i>	54.63	
			<i>For Color Anodized, Add</i>	78.05	
			<i>For Polished Or Patina Finish, Add</i>	78.05	
			<i>For Polished Anodized Finish, Add</i>	117.07	
10 14 19 00-0075	EA		20" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	262.89	19.94
			<i>For Installation With Adhesive, Deduct</i>	-21.12	
			<i>For Clear Anodized, Add</i>	18.31	
			<i>For Satin Face And Enameled Return, Add</i>	64.10	
			<i>For Color Anodized, Add</i>	91.57	
			<i>For Polished Or Patina Finish, Add</i>	91.57	
			<i>For Polished Anodized Finish, Add</i>	137.36	
10 14 19 00-0076	EA		22" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	293.90	21.05
			<i>For Installation With Adhesive, Deduct</i>	-23.11	
			<i>For Clear Anodized, Add</i>	20.97	
			<i>For Satin Face And Enameled Return, Add</i>	73.40	
			<i>For Color Anodized, Add</i>	104.86	
			<i>For Polished Or Patina Finish, Add</i>	104.86	
			<i>For Polished Anodized Finish, Add</i>	157.28	
10 14 19 00-0077	EA		24" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	326.09	22.15
			<i>For Installation With Adhesive, Deduct</i>	-25.17	
			<i>For Clear Anodized, Add</i>	23.75	
			<i>For Satin Face And Enameled Return, Add</i>	83.12	
			<i>For Color Anodized, Add</i>	118.74	
			<i>For Polished Or Patina Finish, Add</i>	118.74	
			<i>For Polished Anodized Finish, Add</i>	178.11	
10 14 19 00-0078	EA		30" High x 3/8" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	446.53	26.58
			<i>For Installation With Adhesive, Deduct</i>	-32.96	
			<i>For Clear Anodized, Add</i>	34.02	
			<i>For Satin Face And Enameled Return, Add</i>	119.07	
			<i>For Color Anodized, Add</i>	170.10	
			<i>For Polished Or Patina Finish, Add</i>	170.10	
			<i>For Polished Anodized Finish, Add</i>	255.15	

10 14 19 00-0079 1/2" Deep, Satin Finish, Aluminum Characters (10 14 19 00-0050)



Specialties	10
Information Specialties	10 10
Signage	10 14

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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0080	EA	2"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	55.14	5.54
			<i>For Installation With Adhesive, Deduct</i>	-4.97	
			<i>For Clear Anodized, Add</i>	3.30	
			<i>For Satin Face And Enameled Return, Add</i>	11.55	
			<i>For Color Anodized, Add</i>	16.50	
			<i>For Polished Or Patina Finish, Add</i>	16.50	
			<i>For Polished Anodized Finish, Add</i>	24.74	
10 14 19 00-0081	EA	4"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	70.94	6.43
			<i>For Installation With Adhesive, Deduct</i>	-6.12	
			<i>For Clear Anodized, Add</i>	4.53	
			<i>For Satin Face And Enameled Return, Add</i>	15.84	
			<i>For Color Anodized, Add</i>	22.63	
			<i>For Polished Or Patina Finish, Add</i>	22.63	
			<i>For Polished Anodized Finish, Add</i>	33.94	
10 14 19 00-0082	EA	6"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	88.88	7.75
			<i>For Installation With Adhesive, Deduct</i>	-7.55	
			<i>For Clear Anodized, Add</i>	5.79	
			<i>For Satin Face And Enameled Return, Add</i>	20.25	
			<i>For Color Anodized, Add</i>	28.93	
			<i>For Polished Or Patina Finish, Add</i>	28.93	
			<i>For Polished Anodized Finish, Add</i>	43.40	
10 14 19 00-0083	EA	8"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	104.84	8.86
			<i>For Installation With Adhesive, Deduct</i>	-8.79	
			<i>For Clear Anodized, Add</i>	6.94	
			<i>For Satin Face And Enameled Return, Add</i>	24.29	
			<i>For Color Anodized, Add</i>	34.70	
			<i>For Polished Or Patina Finish, Add</i>	34.70	
			<i>For Polished Anodized Finish, Add</i>	52.05	
10 14 19 00-0084	EA	10"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	121.90	9.97
			<i>For Installation With Adhesive, Deduct</i>	-10.08	
			<i>For Clear Anodized, Add</i>	8.20	
			<i>For Satin Face And Enameled Return, Add</i>	28.71	
			<i>For Color Anodized, Add</i>	41.02	
			<i>For Polished Or Patina Finish, Add</i>	41.02	
			<i>For Polished Anodized Finish, Add</i>	61.52	
10 14 19 00-0085	EA	12"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	149.50	11.51
			<i>For Installation With Adhesive, Deduct</i>	-12.08	
			<i>For Clear Anodized, Add</i>	10.34	
			<i>For Satin Face And Enameled Return, Add</i>	36.20	
			<i>For Color Anodized, Add</i>	51.71	
			<i>For Polished Or Patina Finish, Add</i>	51.71	
			<i>For Polished Anodized Finish, Add</i>	77.57	
10 14 19 00-0086	EA	14"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	183.88	13.30
			<i>For Installation With Adhesive, Deduct</i>	-14.51	
			<i>For Clear Anodized, Add</i>	13.07	
			<i>For Satin Face And Enameled Return, Add</i>	45.75	
			<i>For Color Anodized, Add</i>	65.36	
			<i>For Polished Or Patina Finish, Add</i>	65.36	
			<i>For Polished Anodized Finish, Add</i>	98.03	
10 14 19 00-0087	EA	16"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	222.51	15.95
			<i>For Installation With Adhesive, Deduct</i>	-17.51	
			<i>For Clear Anodized, Add</i>	15.87	
			<i>For Satin Face And Enameled Return, Add</i>	55.55	
			<i>For Color Anodized, Add</i>	79.36	
			<i>For Polished Or Patina Finish, Add</i>	79.36	
			<i>For Polished Anodized Finish, Add</i>	119.03	
10 14 19 00-0088	EA	18"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	269.11	17.72
			<i>For Installation With Adhesive, Deduct</i>	-20.54	
			<i>For Clear Anodized, Add</i>	19.82	
			<i>For Satin Face And Enameled Return, Add</i>	69.38	
			<i>For Color Anodized, Add</i>	99.11	
			<i>For Polished Or Patina Finish, Add</i>	99.11	
			<i>For Polished Anodized Finish, Add</i>	148.67	
10 14 19 00-0089	EA	20"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	316.76	19.94
			<i>For Installation With Adhesive, Deduct</i>	-23.81	
			<i>For Clear Anodized, Add</i>	23.70	
			<i>For Satin Face And Enameled Return, Add</i>	82.95	
			<i>For Color Anodized, Add</i>	118.51	
			<i>For Polished Or Patina Finish, Add</i>	118.51	
			<i>For Polished Anodized Finish, Add</i>	177.76	
10 14 19 00-0090	EA	22"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	362.85	21.05
			<i>For Installation With Adhesive, Deduct</i>	-26.56	
			<i>For Clear Anodized, Add</i>	27.87	
			<i>For Satin Face And Enameled Return, Add</i>	97.53	
			<i>For Color Anodized, Add</i>	139.33	
			<i>For Polished Or Patina Finish, Add</i>	139.33	
			<i>For Polished Anodized Finish, Add</i>	209.00	
10 14 19 00-0091	EA	24"	High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	406.53	22.15
			<i>For Installation With Adhesive, Deduct</i>	-29.19	
			<i>For Clear Anodized, Add</i>	31.79	
			<i>For Satin Face And Enameled Return, Add</i>	111.27	
			<i>For Color Anodized, Add</i>	158.96	
			<i>For Polished Or Patina Finish, Add</i>	158.96	
			<i>For Polished Anodized Finish, Add</i>	238.44	

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0092	EA		30" High x 1/2" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	562.20	26.58
			<i>For Installation With Adhesive, Deduct</i>	-38.74	
			<i>For Clear Anodized, Add</i>	45.59	
			<i>For Satin Face And Enameled Return, Add</i>	159.55	
			<i>For Color Anodized, Add</i>	227.94	
			<i>For Polished Or Patina Finish, Add</i>	227.94	
			<i>For Polished Anodized Finish, Add</i>	341.90	
10 14 19 00-0093			3/4" Deep, Satin Finish, Aluminum Characters (10 14 19 00-0050)		
10 14 19 00-0094	EA		6" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	57.49	5.54
			<i>For Installation With Adhesive, Deduct</i>	-5.09	
			<i>For Clear Anodized, Add</i>	3.53	
			<i>For Satin Face And Enameled Return, Add</i>	12.37	
			<i>For Color Anodized, Add</i>	17.67	
			<i>For Polished Or Patina Finish, Add</i>	17.67	
			<i>For Polished Anodized Finish, Add</i>	26.51	
10 14 19 00-0095	EA		4" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	73.57	6.43
			<i>For Installation With Adhesive, Deduct</i>	-6.25	
			<i>For Clear Anodized, Add</i>	4.79	
			<i>For Satin Face And Enameled Return, Add</i>	16.76	
			<i>For Color Anodized, Add</i>	23.94	
			<i>For Polished Or Patina Finish, Add</i>	23.94	
			<i>For Polished Anodized Finish, Add</i>	35.91	
10 14 19 00-0096	EA		6" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	96.64	7.75
			<i>For Installation With Adhesive, Deduct</i>	-7.93	
			<i>For Clear Anodized, Add</i>	6.56	
			<i>For Satin Face And Enameled Return, Add</i>	22.97	
			<i>For Color Anodized, Add</i>	32.81	
			<i>For Polished Or Patina Finish, Add</i>	32.81	
			<i>For Polished Anodized Finish, Add</i>	49.22	
10 14 19 00-0097	EA		8" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	127.52	8.86
			<i>For Installation With Adhesive, Deduct</i>	-9.92	
			<i>For Clear Anodized, Add</i>	9.21	
			<i>For Satin Face And Enameled Return, Add</i>	32.23	
			<i>For Color Anodized, Add</i>	46.04	
			<i>For Polished Or Patina Finish, Add</i>	46.04	
			<i>For Polished Anodized Finish, Add</i>	69.06	
10 14 19 00-0098	EA		10" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	159.47	9.97
			<i>For Installation With Adhesive, Deduct</i>	-11.96	
			<i>For Clear Anodized, Add</i>	11.96	
			<i>For Satin Face And Enameled Return, Add</i>	41.86	
			<i>For Color Anodized, Add</i>	59.80	
			<i>For Polished Or Patina Finish, Add</i>	59.80	
			<i>For Polished Anodized Finish, Add</i>	89.70	
10 14 19 00-0099	EA		12" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	199.70	11.51
			<i>For Installation With Adhesive, Deduct</i>	-14.59	
			<i>For Clear Anodized, Add</i>	15.36	
			<i>For Satin Face And Enameled Return, Add</i>	53.77	
			<i>For Color Anodized, Add</i>	76.81	
			<i>For Polished Or Patina Finish, Add</i>	76.81	
			<i>For Polished Anodized Finish, Add</i>	115.22	
10 14 19 00-0100	EA		14" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	248.52	13.30
			<i>For Installation With Adhesive, Deduct</i>	-17.74	
			<i>For Clear Anodized, Add</i>	19.54	
			<i>For Satin Face And Enameled Return, Add</i>	68.37	
			<i>For Color Anodized, Add</i>	97.68	
			<i>For Polished Or Patina Finish, Add</i>	97.68	
			<i>For Polished Anodized Finish, Add</i>	146.51	
10 14 19 00-0101	EA		16" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	306.93	15.95
			<i>For Installation With Adhesive, Deduct</i>	-21.73	
			<i>For Clear Anodized, Add</i>	24.31	
			<i>For Satin Face And Enameled Return, Add</i>	85.10	
			<i>For Color Anodized, Add</i>	121.57	
			<i>For Polished Or Patina Finish, Add</i>	121.57	
			<i>For Polished Anodized Finish, Add</i>	182.35	
10 14 19 00-0102	EA		18" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	374.45	17.72
			<i>For Installation With Adhesive, Deduct</i>	-25.81	
			<i>For Clear Anodized, Add</i>	30.36	
			<i>For Satin Face And Enameled Return, Add</i>	106.25	
			<i>For Color Anodized, Add</i>	151.78	
			<i>For Polished Or Patina Finish, Add</i>	151.78	
			<i>For Polished Anodized Finish, Add</i>	227.67	
10 14 19 00-0103	EA		20" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	444.83	19.94
			<i>For Installation With Adhesive, Deduct</i>	-30.22	
			<i>For Clear Anodized, Add</i>	36.51	
			<i>For Satin Face And Enameled Return, Add</i>	127.78	
			<i>For Color Anodized, Add</i>	182.54	
			<i>For Polished Or Patina Finish, Add</i>	182.54	
			<i>For Polished Anodized Finish, Add</i>	273.81	
10 14 19 00-0104	EA		22" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	515.11	21.05
			<i>For Installation With Adhesive, Deduct</i>	-34.17	
			<i>For Clear Anodized, Add</i>	43.09	
			<i>For Satin Face And Enameled Return, Add</i>	150.82	
			<i>For Color Anodized, Add</i>	215.46	
			<i>For Polished Or Patina Finish, Add</i>	215.46	
			<i>For Polished Anodized Finish, Add</i>	323.19	



Specialties	10
Information Specialties	10 10
Signage	10 14

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0105	EA		24" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	588.48	22.15
			<i>For Installation With Adhesive, Deduct</i>	-38.29	
			<i>For Clear Anodized, Add</i>	49.99	
			<i>For Satin Face And Enameled Return, Add</i>	174.95	
			<i>For Color Anodized, Add</i>	249.94	
			<i>For Polished Or Patina Finish, Add</i>	249.94	
			<i>For Polished Anodized Finish, Add</i>	374.90	
10 14 19 00-0106	EA		30" High x 3/4" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	807.14	26.58
			<i>For Installation With Adhesive, Deduct</i>	-50.99	
			<i>For Clear Anodized, Add</i>	70.08	
			<i>For Satin Face And Enameled Return, Add</i>	245.28	
			<i>For Color Anodized, Add</i>	350.41	
			<i>For Polished Or Patina Finish, Add</i>	350.41	
			<i>For Polished Anodized Finish, Add</i>	525.61	
10 14 19 00-0107			1" Deep, Satin Finish, Aluminum Characters <small>(10 14 19 00-0050)</small>		
10 14 19 00-0108	EA		2" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	63.73	5.54
			<i>For Installation With Adhesive, Deduct</i>	-5.40	
			<i>For Clear Anodized, Add</i>	4.16	
			<i>For Satin Face And Enameled Return, Add</i>	14.55	
			<i>For Color Anodized, Add</i>	20.79	
			<i>For Polished Or Patina Finish, Add</i>	20.79	
			<i>For Polished Anodized Finish, Add</i>	31.19	
10 14 19 00-0109	EA		4" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	78.60	6.43
			<i>For Installation With Adhesive, Deduct</i>	-6.50	
			<i>For Clear Anodized, Add</i>	5.29	
			<i>For Satin Face And Enameled Return, Add</i>	18.52	
			<i>For Color Anodized, Add</i>	26.46	
			<i>For Polished Or Patina Finish, Add</i>	26.46	
			<i>For Polished Anodized Finish, Add</i>	39.68	
10 14 19 00-0110	EA		6" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	102.99	7.75
			<i>For Installation With Adhesive, Deduct</i>	-8.25	
			<i>For Clear Anodized, Add</i>	7.20	
			<i>For Satin Face And Enameled Return, Add</i>	25.19	
			<i>For Color Anodized, Add</i>	35.99	
			<i>For Polished Or Patina Finish, Add</i>	35.99	
			<i>For Polished Anodized Finish, Add</i>	53.98	
10 14 19 00-0111	EA		8" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	140.22	8.86
			<i>For Installation With Adhesive, Deduct</i>	-10.56	
			<i>For Clear Anodized, Add</i>	10.48	
			<i>For Satin Face And Enameled Return, Add</i>	36.67	
			<i>For Color Anodized, Add</i>	52.39	
			<i>For Polished Or Patina Finish, Add</i>	52.39	
			<i>For Polished Anodized Finish, Add</i>	78.59	
10 14 19 00-0112	EA		10" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	189.63	9.97
			<i>For Installation With Adhesive, Deduct</i>	-13.47	
			<i>For Clear Anodized, Add</i>	14.98	
			<i>For Satin Face And Enameled Return, Add</i>	52.42	
			<i>For Color Anodized, Add</i>	74.88	
			<i>For Polished Or Patina Finish, Add</i>	74.88	
			<i>For Polished Anodized Finish, Add</i>	112.32	
10 14 19 00-0113	EA		12" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	247.48	11.51
			<i>For Installation With Adhesive, Deduct</i>	-16.98	
			<i>For Clear Anodized, Add</i>	20.14	
			<i>For Satin Face And Enameled Return, Add</i>	70.49	
			<i>For Color Anodized, Add</i>	100.70	
			<i>For Polished Or Patina Finish, Add</i>	100.70	
			<i>For Polished Anodized Finish, Add</i>	151.05	
10 14 19 00-0114	EA		14" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	312.44	13.30
			<i>For Installation With Adhesive, Deduct</i>	-20.94	
			<i>For Clear Anodized, Add</i>	25.93	
			<i>For Satin Face And Enameled Return, Add</i>	90.74	
			<i>For Color Anodized, Add</i>	129.64	
			<i>For Polished Or Patina Finish, Add</i>	129.64	
			<i>For Polished Anodized Finish, Add</i>	194.45	
10 14 19 00-0115	EA		16" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	387.97	15.95
			<i>For Installation With Adhesive, Deduct</i>	-25.78	
			<i>For Clear Anodized, Add</i>	32.42	
			<i>For Satin Face And Enameled Return, Add</i>	113.46	
			<i>For Color Anodized, Add</i>	162.09	
			<i>For Polished Or Patina Finish, Add</i>	162.09	
			<i>For Polished Anodized Finish, Add</i>	243.13	
10 14 19 00-0116	EA		18" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	469.25	17.72
			<i>For Installation With Adhesive, Deduct</i>	-30.55	
			<i>For Clear Anodized, Add</i>	39.84	
			<i>For Satin Face And Enameled Return, Add</i>	139.43	
			<i>For Color Anodized, Add</i>	199.18	
			<i>For Polished Or Patina Finish, Add</i>	199.18	
			<i>For Polished Anodized Finish, Add</i>	298.77	
10 14 19 00-0117	EA		20" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	576.51	19.94
			<i>For Installation With Adhesive, Deduct</i>	-36.80	
			<i>For Clear Anodized, Add</i>	49.68	
			<i>For Satin Face And Enameled Return, Add</i>	173.87	
			<i>For Color Anodized, Add</i>	248.38	
			<i>For Polished Or Patina Finish, Add</i>	248.38	
			<i>For Polished Anodized Finish, Add</i>	372.57	

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0118	EA	22" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	686.04	21.05
		<i>For Installation With Adhesive, Deduct</i>	-42.72	
		<i>For Clear Anodized, Add</i>	60.19	
		<i>For Satin Face And Enameled Return, Add</i>	210.65	
		<i>For Color Anodized, Add</i>	300.93	
		<i>For Polished Or Patina Finish, Add</i>	300.93	
		<i>For Polished Anodized Finish, Add</i>	451.39	
10 14 19 00-0119	EA	24" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	808.73	22.15
		<i>For Installation With Adhesive, Deduct</i>	-49.30	
		<i>For Clear Anodized, Add</i>	72.01	
		<i>For Satin Face And Enameled Return, Add</i>	252.04	
		<i>For Color Anodized, Add</i>	360.06	
		<i>For Polished Or Patina Finish, Add</i>	360.06	
		<i>For Polished Anodized Finish, Add</i>	540.09	
10 14 19 00-0120	EA	30" High x 1" Deep, Satin Finish, Aluminum Sign Letter/Character, Installed With Studs.....	1,140.54	26.58
		<i>For Installation With Adhesive, Deduct</i>	-67.66	
		<i>For Clear Anodized, Add</i>	103.42	
		<i>For Satin Face And Enameled Return, Add</i>	361.97	
		<i>For Color Anodized, Add</i>	517.11	
		<i>For Polished Or Patina Finish, Add</i>	517.11	
		<i>For Polished Anodized Finish, Add</i>	775.66	
10 14 19 00-0121		Satin Finish, Brass Characters (10 14 19 00-0049)		
10 14 19 00-0122		1/4" Deep, Satin Finish, Brass Characters (10 14 19 00-0121)		
10 14 19 00-0123	EA	2" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	51.04	5.54
		<i>For Installation With Adhesive, Deduct</i>	-4.77	
		<i>For Oxidized Finish, Add</i>	4.33	
		<i>For Polished Finish, Add</i>	8.67	
10 14 19 00-0124	EA	4" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	65.89	6.43
		<i>For Installation With Adhesive, Deduct</i>	-5.86	
		<i>For Oxidized Finish, Add</i>	6.03	
		<i>For Polished Finish, Add</i>	12.06	
10 14 19 00-0125	EA	6" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	90.87	7.75
		<i>For Installation With Adhesive, Deduct</i>	-7.65	
		<i>For Oxidized Finish, Add</i>	8.98	
		<i>For Polished Finish, Add</i>	17.96	
10 14 19 00-0126	EA	8" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	119.02	8.86
		<i>For Installation With Adhesive, Deduct</i>	-9.50	
		<i>For Oxidized Finish, Add</i>	12.54	
		<i>For Polished Finish, Add</i>	25.07	
10 14 19 00-0127	EA	10" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	152.34	9.97
		<i>For Installation With Adhesive, Deduct</i>	-11.60	
		<i>For Oxidized Finish, Add</i>	16.87	
		<i>For Polished Finish, Add</i>	33.74	
10 14 19 00-0128	EA	12" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	192.60	11.51
		<i>For Installation With Adhesive, Deduct</i>	-14.24	
		<i>For Oxidized Finish, Add</i>	21.98	
		<i>For Polished Finish, Add</i>	43.96	
10 14 19 00-0129	EA	14" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	240.96	13.30
		<i>For Installation With Adhesive, Deduct</i>	-17.37	
		<i>For Oxidized Finish, Add</i>	28.17	
		<i>For Polished Finish, Add</i>	56.34	
10 14 19 00-0130	EA	16" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	293.90	15.95
		<i>For Installation With Adhesive, Deduct</i>	-21.08	
		<i>For Oxidized Finish, Add</i>	34.52	
		<i>For Polished Finish, Add</i>	69.03	
10 14 19 00-0131	EA	18" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	356.85	17.72
		<i>For Installation With Adhesive, Deduct</i>	-24.93	
		<i>For Oxidized Finish, Add</i>	42.89	
		<i>For Polished Finish, Add</i>	85.79	
10 14 19 00-0132	EA	20" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	424.38	19.94
		<i>For Installation With Adhesive, Deduct</i>	-29.19	
		<i>For Oxidized Finish, Add</i>	51.69	
		<i>For Polished Finish, Add</i>	103.39	
10 14 19 00-0133	EA	22" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	521.69	21.05
		<i>For Installation With Adhesive, Deduct</i>	-34.50	
		<i>For Oxidized Finish, Add</i>	65.63	
		<i>For Polished Finish, Add</i>	131.25	
10 14 19 00-0134	EA	24" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	572.10	22.15
		<i>For Installation With Adhesive, Deduct</i>	-37.47	
		<i>For Oxidized Finish, Add</i>	72.52	
		<i>For Polished Finish, Add</i>	145.05	
10 14 19 00-0135	EA	30" High x 1/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	860.20	26.58
		<i>For Installation With Adhesive, Deduct</i>	-53.64	
		<i>For Oxidized Finish, Add</i>	113.08	
		<i>For Polished Finish, Add</i>	226.16	
10 14 19 00-0136		3/8" Deep, Satin Finish, Brass Characters (10 14 19 00-0121)		
10 14 19 00-0137	EA	2" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	61.15	5.54
		<i>For Installation With Adhesive, Deduct</i>	-5.27	
		<i>For Oxidized Finish, Add</i>	5.85	
		<i>For Polished Finish, Add</i>	11.70	



Specialties	10
Information Specialties	10 10
Signage	10 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0138	EA		4" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	79.96 -6.57 8.14 16.28	6.43
10 14 19 00-0139	EA		6" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	114.80 -8.84 12.57 25.13	7.75
10 14 19 00-0140	EA		8" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	152.45 -11.17 17.55 35.10	8.86
10 14 19 00-0141	EA		10" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	202.95 -14.13 24.46 48.92	9.97
10 14 19 00-0142	EA		12" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	258.53 -17.53 31.87 63.74	11.51
10 14 19 00-0143	EA		14" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	325.47 -21.59 40.85 81.69	13.30
10 14 19 00-0144	EA		16" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	385.94 -25.68 48.32 96.64	15.95
10 14 19 00-0145	EA		18" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	485.54 -31.37 62.20 124.40	17.72
10 14 19 00-0146	EA		20" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	562.23 -36.09 72.37 144.74	19.94
10 14 19 00-0147	EA		22" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	692.31 -43.03 91.22 182.44	21.05
10 14 19 00-0148	EA		24" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	789.66 -48.34 105.16 210.32	22.15
10 14 19 00-0149	EA		30" High x 3/8" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	1,093.91 -65.33 148.14 296.27	26.58
10 14 19 00-0150			1/2" Deep, Satin Finish, Brass Characters <small>(10 14 19 00-0121)</small>		
10 14 19 00-0151	EA		2" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	77.04 -6.07 8.23 16.47	5.54
10 14 19 00-0152	EA		4" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	100.06 -7.57 11.16 22.31	6.43
10 14 19 00-0153	EA		6" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	144.73 -10.34 17.06 34.11	7.75
10 14 19 00-0154	EA		8" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	198.42 -13.47 24.45 48.89	8.86
10 14 19 00-0155	EA		10" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	276.06 -17.79 35.43 70.86	9.97
10 14 19 00-0156	EA		12" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	368.42 -23.03 48.35 96.70	11.51
10 14 19 00-0157	EA		14" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	456.93 -28.16 60.56 121.13	13.30
10 14 19 00-0158	EA		16" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Finish, Add</i>	544.70 -33.62 72.14 144.27	15.95

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0159	EA		18" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	742.91	17.72
			<i>For Installation With Adhesive, Deduct</i>	-44.23	
			<i>For Oxidized Finish, Add</i>	100.80	
			<i>For Polished Finish, Add</i>	201.61	
10 14 19 00-0160	EA		20" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	837.94	19.94
			<i>For Installation With Adhesive, Deduct</i>	-49.87	
			<i>For Oxidized Finish, Add</i>	113.73	
			<i>For Polished Finish, Add</i>	227.46	
10 14 19 00-0161	EA		22" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	1,046.68	21.05
			<i>For Installation With Adhesive, Deduct</i>	-60.75	
			<i>For Oxidized Finish, Add</i>	144.37	
			<i>For Polished Finish, Add</i>	288.75	
10 14 19 00-0162	EA		24" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	1,224.80	22.15
			<i>For Installation With Adhesive, Deduct</i>	-70.10	
			<i>For Oxidized Finish, Add</i>	170.43	
			<i>For Polished Finish, Add</i>	340.86	
10 14 19 00-0163	EA		30" High x 1/2" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	1,847.78	26.58
			<i>For Installation With Adhesive, Deduct</i>	-103.02	
			<i>For Oxidized Finish, Add</i>	261.22	
			<i>For Polished Finish, Add</i>	522.44	
10 14 19 00-0164			3/4" Deep, Satin Finish, Brass Characters (10 14 19 00-0121)		
10 14 19 00-0165	EA		2" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	94.38	5.54
			<i>For Installation With Adhesive, Deduct</i>	-6.93	
			<i>For Oxidized Finish, Add</i>	10.83	
			<i>For Polished Finish, Add</i>	21.67	
10 14 19 00-0166	EA		4" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	132.23	6.43
			<i>For Installation With Adhesive, Deduct</i>	-9.18	
			<i>For Oxidized Finish, Add</i>	15.98	
			<i>For Polished Finish, Add</i>	31.96	
10 14 19 00-0167	EA		6" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	180.64	7.75
			<i>For Installation With Adhesive, Deduct</i>	-12.13	
			<i>For Oxidized Finish, Add</i>	22.44	
			<i>For Polished Finish, Add</i>	44.89	
10 14 19 00-0168	EA		8" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	244.39	8.86
			<i>For Installation With Adhesive, Deduct</i>	-15.76	
			<i>For Oxidized Finish, Add</i>	31.34	
			<i>For Polished Finish, Add</i>	62.69	
10 14 19 00-0169	EA		10" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	332.29	9.97
			<i>For Installation With Adhesive, Deduct</i>	-20.60	
			<i>For Oxidized Finish, Add</i>	43.86	
			<i>For Polished Finish, Add</i>	87.73	
10 14 19 00-0170	EA		12" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	456.34	11.51
			<i>For Installation With Adhesive, Deduct</i>	-27.43	
			<i>For Oxidized Finish, Add</i>	61.54	
			<i>For Polished Finish, Add</i>	123.08	
10 14 19 00-0171	EA		14" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	569.60	13.30
			<i>For Installation With Adhesive, Deduct</i>	-33.80	
			<i>For Oxidized Finish, Add</i>	77.46	
			<i>For Polished Finish, Add</i>	154.93	
10 14 19 00-0172	EA		16" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	664.36	15.95
			<i>For Installation With Adhesive, Deduct</i>	-39.60	
			<i>For Oxidized Finish, Add</i>	90.08	
			<i>For Polished Finish, Add</i>	180.17	
10 14 19 00-0173	EA		18" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	885.89	17.72
			<i>For Installation With Adhesive, Deduct</i>	-51.38	
			<i>For Oxidized Finish, Add</i>	122.25	
			<i>For Polished Finish, Add</i>	244.50	
10 14 19 00-0174	EA		20" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	968.90	19.94
			<i>For Installation With Adhesive, Deduct</i>	-56.42	
			<i>For Oxidized Finish, Add</i>	133.37	
			<i>For Polished Finish, Add</i>	266.75	
10 14 19 00-0175	EA		22" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	1,230.43	21.05
			<i>For Installation With Adhesive, Deduct</i>	-69.94	
			<i>For Oxidized Finish, Add</i>	171.94	
			<i>For Polished Finish, Add</i>	343.87	
10 14 19 00-0176	EA		24" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	1,563.24	22.15
			<i>For Installation With Adhesive, Deduct</i>	-87.02	
			<i>For Oxidized Finish, Add</i>	221.19	
			<i>For Polished Finish, Add</i>	442.39	
10 14 19 00-0177	EA		30" High x 3/4" Deep, Satin Finish, Brass Sign Letter/Character, Installed With Studs.....	2,360.41	26.58
			<i>For Installation With Adhesive, Deduct</i>	-128.65	
			<i>For Oxidized Finish, Add</i>	338.11	
			<i>For Polished Finish, Add</i>	676.22	
10 14 19 00-0178			Satin Finish, Bronze Characters (10 14 19 00-0049)		
10 14 19 00-0179			1/4" Deep, Satin Finish, Bronze Characters (10 14 19 00-0178)		
10 14 19 00-0180	EA		2" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	52.67	5.54
			<i>For Installation With Adhesive, Deduct</i>	-4.85	
			<i>For Oxidized Finish, Add</i>	4.58	
			<i>For Polished Or Patina Finish, Add</i>	9.16	



Specialties	10
Information Specialties	10 10
Signage	10 14

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0181	EA		4" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	68.20 -5.98 6.38 12.75	6.43
10 14 19 00-0182	EA		6" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	94.24 -7.81 9.48 18.97	7.75
10 14 19 00-0183	EA		8" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	123.73 -9.73 13.24 26.49	8.86
10 14 19 00-0184	EA		10" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	158.68 -11.92 17.82 35.64	9.97
10 14 19 00-0185	EA		12" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	200.87 -14.65 23.22 46.44	11.51
10 14 19 00-0186	EA		14" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	251.56 -17.90 29.76 59.52	13.30
10 14 19 00-0187	EA		16" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	312.33 -22.00 37.28 74.56	15.95
10 14 19 00-0188	EA		18" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	373.92 -25.79 45.45 90.91	17.72
10 14 19 00-0189	EA		20" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	443.82 -30.17 54.61 109.22	19.94
10 14 19 00-0190	EA		22" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	518.03 -34.32 65.08 130.15	21.05
10 14 19 00-0191	EA		24" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	599.84 -38.85 76.68 153.37	22.15
10 14 19 00-0192	EA		30" High x 1/4" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	910.78 -56.17 120.67 241.34	26.58
10 14 19 00-0193			3/8" Deep, Satin Finish, Bronze Characters <small>(10 14 19 00-0178)</small>		
10 14 19 00-0194	EA		2" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	62.44 -5.34 6.04 12.09	5.54
10 14 19 00-0195	EA		4" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	81.38 -6.64 8.35 16.71	6.43
10 14 19 00-0196	EA		6" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	118.27 -9.02 13.09 26.18	7.75
10 14 19 00-0197	EA		8" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	156.40 -11.36 18.14 36.29	8.86
10 14 19 00-0198	EA		10" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	212.15 -14.59 25.84 51.68	9.97
10 14 19 00-0199	EA		12" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	268.97 -18.06 33.43 66.87	11.51
10 14 19 00-0200	EA		14" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	336.86 -22.16 42.55 85.11	13.30
10 14 19 00-0201	EA		16" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Oxidized Finish, Add</i> <i>For Polished Or Patina Finish, Add</i>	416.71 -27.22 52.94 105.87	15.95

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0202	EA		18" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	504.23	17.72
			<i>For Installation With Adhesive, Deduct</i>	-32.30	
			<i>For Oxidized Finish, Add</i>	65.00	
			<i>For Polished Or Patina Finish, Add</i>	130.00	
10 14 19 00-0203	EA		20" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	600.38	19.94
			<i>For Installation With Adhesive, Deduct</i>	-37.99	
			<i>For Oxidized Finish, Add</i>	78.09	
			<i>For Polished Or Patina Finish, Add</i>	156.19	
10 14 19 00-0204	EA		22" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	704.58	21.05
			<i>For Installation With Adhesive, Deduct</i>	-43.65	
			<i>For Oxidized Finish, Add</i>	93.06	
			<i>For Polished Or Patina Finish, Add</i>	186.12	
10 14 19 00-0205	EA		24" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	799.22	22.15
			<i>For Installation With Adhesive, Deduct</i>	-48.82	
			<i>For Oxidized Finish, Add</i>	106.59	
			<i>For Polished Or Patina Finish, Add</i>	213.18	
10 14 19 00-0206	EA		30" High x 3/8" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	1,095.80	26.58
			<i>For Installation With Adhesive, Deduct</i>	-65.42	
			<i>For Oxidized Finish, Add</i>	148.42	
			<i>For Polished Or Patina Finish, Add</i>	296.84	
10 14 19 00-0207			1/2" Deep, Satin Finish, Bronze Characters (10 14 19 00-0178)		
10 14 19 00-0208	EA		2" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	64.57	5.54
			<i>For Installation With Adhesive, Deduct</i>	-5.44	
			<i>For Oxidized Finish, Add</i>	6.36	
			<i>For Polished Or Patina Finish, Add</i>	12.73	
10 14 19 00-0209	EA		4" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	96.68	6.43
			<i>For Installation With Adhesive, Deduct</i>	-7.40	
			<i>For Oxidized Finish, Add</i>	10.65	
			<i>For Polished Or Patina Finish, Add</i>	21.30	
10 14 19 00-0210	EA		6" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	137.87	7.75
			<i>For Installation With Adhesive, Deduct</i>	-10.00	
			<i>For Oxidized Finish, Add</i>	16.03	
			<i>For Polished Or Patina Finish, Add</i>	32.06	
10 14 19 00-0211	EA		8" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	189.95	8.86
			<i>For Installation With Adhesive, Deduct</i>	-13.04	
			<i>For Oxidized Finish, Add</i>	23.18	
			<i>For Polished Or Patina Finish, Add</i>	46.35	
10 14 19 00-0212	EA		10" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	259.68	9.97
			<i>For Installation With Adhesive, Deduct</i>	-16.97	
			<i>For Oxidized Finish, Add</i>	32.97	
			<i>For Polished Or Patina Finish, Add</i>	65.94	
10 14 19 00-0213	EA		12" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	354.10	11.51
			<i>For Installation With Adhesive, Deduct</i>	-22.31	
			<i>For Oxidized Finish, Add</i>	46.20	
			<i>For Polished Or Patina Finish, Add</i>	92.41	
10 14 19 00-0214	EA		14" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	459.86	13.30
			<i>For Installation With Adhesive, Deduct</i>	-28.31	
			<i>For Oxidized Finish, Add</i>	61.00	
			<i>For Polished Or Patina Finish, Add</i>	122.01	
10 14 19 00-0215	EA		16" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	575.77	15.95
			<i>For Installation With Adhesive, Deduct</i>	-35.17	
			<i>For Oxidized Finish, Add</i>	76.80	
			<i>For Polished Or Patina Finish, Add</i>	153.59	
10 14 19 00-0216	EA		18" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	707.26	17.72
			<i>For Installation With Adhesive, Deduct</i>	-42.45	
			<i>For Oxidized Finish, Add</i>	95.46	
			<i>For Polished Or Patina Finish, Add</i>	190.91	
10 14 19 00-0217	EA		20" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	847.95	19.94
			<i>For Installation With Adhesive, Deduct</i>	-50.37	
			<i>For Oxidized Finish, Add</i>	115.23	
			<i>For Polished Or Patina Finish, Add</i>	230.46	
10 14 19 00-0218	EA		22" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	1,003.92	21.05
			<i>For Installation With Adhesive, Deduct</i>	-58.62	
			<i>For Oxidized Finish, Add</i>	137.96	
			<i>For Polished Or Patina Finish, Add</i>	275.92	
10 14 19 00-0219	EA		24" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	1,167.30	22.15
			<i>For Installation With Adhesive, Deduct</i>	-67.23	
			<i>For Oxidized Finish, Add</i>	161.80	
			<i>For Polished Or Patina Finish, Add</i>	323.61	
10 14 19 00-0220	EA		30" High x 1/2" Deep, Satin Finish, Bronze Sign Letter/Character, Installed With Studs	1,634.79	26.58
			<i>For Installation With Adhesive, Deduct</i>	-92.37	
			<i>For Oxidized Finish, Add</i>	229.27	
			<i>For Polished Or Patina Finish, Add</i>	458.54	
10 14 19 00-0221			Satin Finish, Copper Characters (10 14 19 00-0049)		
10 14 19 00-0222			1/4" Deep, Satin Finish, Copper Characters (10 14 19 00-0221)		
10 14 19 00-0223	EA		2" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs	51.04	5.54
			<i>For Installation With Adhesive, Deduct</i>	-4.77	
			<i>For Polished Finish, Add</i>	8.67	
10 14 19 00-0224	EA		4" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs	66.96	6.43
			<i>For Installation With Adhesive, Deduct</i>	-5.92	
			<i>For Polished Finish, Add</i>	12.38	



Specialties	10
Information Specialties	10 10
Signage	10 14

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0225	EA		6" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	94.99 -7.85 19.19	7.75
10 14 19 00-0226	EA		8" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	126.24 -9.86 27.24	8.86
10 14 19 00-0227	EA		10" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	160.59 -12.02 36.22	9.97
10 14 19 00-0228	EA		12" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	204.98 -14.86 47.67	11.51
10 14 19 00-0229	EA		14" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	257.47 -18.19 61.29	13.30
10 14 19 00-0230	EA		16" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	317.63 -22.26 76.15	15.95
10 14 19 00-0231	EA		18" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	381.47 -26.16 93.17	17.72
10 14 19 00-0232	EA		20" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	452.24 -30.59 111.75	19.94
10 14 19 00-0233	EA		22" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	528.92 -34.87 133.42	21.05
10 14 19 00-0234	EA		24" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	611.75 -39.45 156.94	22.15
10 14 19 00-0235	EA		30" High x 1/4" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	880.69 -54.67 232.31	26.58
10 14 19 00-0236			3/8" Deep, Satin Finish, Copper Characters <small>(10 14 19 00-0221)</small>		
10 14 19 00-0237	EA		2" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	58.26 -5.13 10.83	5.54
10 14 19 00-0238	EA		4" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	79.35 -6.54 16.10	6.43
10 14 19 00-0239	EA		6" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	117.38 -8.97 25.91	7.75
10 14 19 00-0240	EA		8" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	162.56 -11.67 38.14	8.86
10 14 19 00-0241	EA		10" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	220.96 -15.04 54.33	9.97
10 14 19 00-0242	EA		12" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	276.49 -18.43 69.12	11.51
10 14 19 00-0243	EA		14" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	349.41 -22.79 88.87	13.30
10 14 19 00-0244	EA		16" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	431.85 -27.97 110.42	15.95
10 14 19 00-0245	EA		18" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	521.23 -33.15 135.10	17.72
10 14 19 00-0246	EA		20" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	619.86 -38.97 162.03	19.94
10 14 19 00-0247	EA		22" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	729.05 -44.87 193.46	21.05
10 14 19 00-0248	EA		24" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	821.00 -49.91 219.72	22.15
10 14 19 00-0249	EA		30" High x 3/8" Deep, Satin Finish, Copper Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	1,151.72 -68.22 313.62	26.58
10 14 19 00-0250			Satin Finish, Stainless Steel Characters <small>(10 14 19 00-0049)</small>		
10 14 19 00-0251			1/4" Deep, Satin Finish, Stainless Steel Characters <small>(10 14 19 00-0250)</small>		
10 14 19 00-0252	EA		2" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs..... <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	49.07 -4.67 8.08	5.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0253 EA 4" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	64.73	6.43
For Installation With Adhesive, Deduct	-5.81	
For Polished Finish, Add	11.71	
10 14 19 00-0254 EA 6" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	83.52	7.75
For Installation With Adhesive, Deduct	-7.28	
For Polished Finish, Add	15.75	
10 14 19 00-0255 EA 8" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	108.13	8.86
For Installation With Adhesive, Deduct	-8.95	
For Polished Finish, Add	21.81	
10 14 19 00-0256 EA 10" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	132.75	9.97
For Installation With Adhesive, Deduct	-10.62	
For Polished Finish, Add	27.86	
10 14 19 00-0257 EA 12" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	163.19	11.51
For Installation With Adhesive, Deduct	-12.77	
For Polished Finish, Add	35.13	
10 14 19 00-0258 EA 14" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	195.85	13.30
For Installation With Adhesive, Deduct	-15.11	
For Polished Finish, Add	42.80	
10 14 19 00-0259 EA 16" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	234.75	15.95
For Installation With Adhesive, Deduct	-18.12	
For Polished Finish, Add	51.29	
10 14 19 00-0260 EA 18" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	274.14	17.72
For Installation With Adhesive, Deduct	-20.80	
For Polished Finish, Add	60.98	
10 14 19 00-0261 EA 20" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	320.69	19.94
For Installation With Adhesive, Deduct	-24.01	
For Polished Finish, Add	72.28	
10 14 19 00-0262 EA 22" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	373.59	21.05
For Installation With Adhesive, Deduct	-27.10	
For Polished Finish, Add	86.82	
10 14 19 00-0263 EA 24" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	427.81	22.15
For Installation With Adhesive, Deduct	-30.25	
For Polished Finish, Add	101.76	
10 14 19 00-0264 EA 30" High x 1/4" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	588.22	26.58
For Installation With Adhesive, Deduct	-40.04	
For Polished Finish, Add	144.57	
10 14 19 00-0265 3/8" Deep, Satin Finish, Stainless Steel Characters (10 14 19 00-0250)		
10 14 19 00-0266 EA 2" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	58.49	5.54
For Installation With Adhesive, Deduct	-5.14	
For Polished Finish, Add	10.90	
10 14 19 00-0267 EA 4" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	78.39	6.43
For Installation With Adhesive, Deduct	-6.49	
For Polished Finish, Add	15.81	
10 14 19 00-0268 EA 6" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	100.84	7.75
For Installation With Adhesive, Deduct	-8.14	
For Polished Finish, Add	20.95	
10 14 19 00-0269 EA 8" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	129.21	8.86
For Installation With Adhesive, Deduct	-10.00	
For Polished Finish, Add	28.13	
10 14 19 00-0270 EA 10" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	159.68	9.97
For Installation With Adhesive, Deduct	-11.97	
For Polished Finish, Add	35.94	
10 14 19 00-0271 EA 12" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	197.15	11.51
For Installation With Adhesive, Deduct	-14.47	
For Polished Finish, Add	45.32	
10 14 19 00-0272 EA 14" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	237.23	13.30
For Installation With Adhesive, Deduct	-17.18	
For Polished Finish, Add	55.22	
10 14 19 00-0273 EA 16" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	284.32	15.95
For Installation With Adhesive, Deduct	-20.60	
For Polished Finish, Add	66.16	
10 14 19 00-0274 EA 18" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	331.05	17.72
For Installation With Adhesive, Deduct	-23.64	
For Polished Finish, Add	78.05	
10 14 19 00-0275 EA 20" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	388.16	19.94
For Installation With Adhesive, Deduct	-27.38	
For Polished Finish, Add	92.52	
10 14 19 00-0276 EA 22" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	437.26	21.05
For Installation With Adhesive, Deduct	-30.28	
For Polished Finish, Add	105.92	
10 14 19 00-0277 EA 24" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	502.44	22.15
For Installation With Adhesive, Deduct	-33.98	
For Polished Finish, Add	124.15	
10 14 19 00-0278 EA 30" High x 3/8" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	694.23	26.58
For Installation With Adhesive, Deduct	-45.34	
For Polished Finish, Add	176.37	
10 14 19 00-0279 1/2" Deep, Satin Finish, Stainless Steel Characters (10 14 19 00-0250)		
10 14 19 00-0280 EA 2" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs	70.61	5.54
For Installation With Adhesive, Deduct	-5.75	
For Polished Finish, Add	14.54	



Specialties	10
Information Specialties	10 10
Signage	10 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 19 00-0281	EA		4" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	95.95 -7.37 21.08	6.43
10 14 19 00-0282	EA		6" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	123.94 -9.30 27.88	7.75
10 14 19 00-0283	EA		8" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	163.37 -11.71 38.38	8.86
10 14 19 00-0284	EA		10" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	203.33 -14.15 49.04	9.97
10 14 19 00-0285	EA		12" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	252.19 -17.22 61.83	11.51
10 14 19 00-0286	EA		14" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	304.29 -20.53 75.34	13.30
10 14 19 00-0287	EA		16" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	364.67 -24.61 90.26	15.95
10 14 19 00-0288	EA		18" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	434.71 -28.82 109.15	17.72
10 14 19 00-0289	EA		20" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	511.04 -33.53 129.39	19.94
10 14 19 00-0290	EA		22" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	573.28 -37.08 146.73	21.05
10 14 19 00-0291	EA		24" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	661.87 -41.95 171.98	22.15
10 14 19 00-0292	EA		30" High x 1/2" Deep, Satin Finish, Stainless Steel Sign Letter/Character, Installed With Studs <i>For Installation With Adhesive, Deduct</i> <i>For Polished Finish, Add</i>	920.72 -56.67 244.32	26.58

10 14 23 Panel Signage (10 14)

10 14 23 11 Panel Signage (10 14 23)

10 14 23 11-0001			Indoor/Outdoor Signs (10 14 23 11) Note: Office number signs, conference room signs, restroom signs, stairway signs, fire extinguisher marker, ANSI/OSHA safety signs, entry/exit signs, etc.		
10 14 23 11-0002			Surface Mount, Indoor/Outdoor Signs (10 14 23 11-0001)		
10 14 23 11-0003			Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Signs (10 14 23 11-0002) Note: Multi-color with words, symbols and graphics.		
10 14 23 11-0004	EA		Up To 25 SI, Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Sign <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For Clear Glass Mount, Add</i> <i>For Glow-In-Dark, Add</i> <i>For Reflective Finish, Add</i>	23.43 -0.40 -1.00 -1.20 3.21 8.02 9.02	9.72
10 14 23 11-0005	EA		>25 To 50 SI, Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Sign <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For Clear Glass Mount, Add</i> <i>For Glow-In-Dark, Add</i> <i>For Reflective Finish, Add</i>	26.29 -0.69 -1.72 -2.06 5.50 13.74 15.46	9.72
10 14 23 11-0006	EA		>50 To 100 SI, Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Sign <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For Clear Glass Mount, Add</i> <i>For Glow-In-Dark, Add</i> <i>For Reflective Finish, Add</i>	30.87 -1.15 -2.86 -3.44 9.16 22.90 25.76	9.72
10 14 23 11-0007	EA		>100 To 250 SI, Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Sign <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For Clear Glass Mount, Add</i> <i>For Glow-In-Dark, Add</i> <i>For Reflective Finish, Add</i>	36.60 -1.72 -4.30 -5.15 13.74 34.36 38.66	9.72
10 14 23 11-0008	EA		>250 To 500 SI, Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Sign <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For Clear Glass Mount, Add</i> <i>For Glow-In-Dark, Add</i> <i>For Reflective Finish, Add</i>	46.91 -2.75 -6.87 -8.25 21.99 54.98 61.85	9.72

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 23 11-0009	EA	>500 To 750 SI, Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Sign.....	65.24	9.72
		<i>For >25 To 50, Deduct</i>	-4.58	
		<i>For >50 To 100, Deduct</i>	-11.46	
		<i>For >100, Deduct</i>	-13.75	
		<i>For Clear Glass Mount, Add</i>	36.66	
		<i>For Glow-In-Dark, Add</i>	91.64	
		<i>For Reflective Finish, Add</i>	103.10	
10 14 23 11-0010	EA	>750 To 1,000 SI, Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Sign.....	88.14	9.72
		<i>For >25 To 50, Deduct</i>	-6.87	
		<i>For >50 To 100, Deduct</i>	-17.18	
		<i>For >100, Deduct</i>	-20.62	
		<i>For Clear Glass Mount, Add</i>	54.98	
		<i>For Glow-In-Dark, Add</i>	137.44	
		<i>For Reflective Finish, Add</i>	154.62	
10 14 23 11-0011	SI	>1,000 SI, Adhesive Backed Vinyl, Surface Mount, Indoor/Outdoor Sign.....	0.10	0.01
		<i>For Clear Glass Mount, Add</i>	0.06	
		<i>For Glow-In-Dark, Add</i>	0.16	
		<i>For Reflective Finish, Add</i>	0.18	
10 14 23 11-0012		Semi-Rigid Polyvinyl Chloride (PVC), Surface Mount, Indoor/Outdoor Signs		
		<small>(10 14 23 11-0002)</small>		
		Note: Multi-color with words, symbols and graphics. Includes adhesive or fasteners for mounting.		
10 14 23 11-0013	EA	Up To 25 SI, Semi-Rigid Polyvinyl Chloride (PVC), Surface Mount, Indoor/Outdoor Sign.....	24.57	9.72
		<i>For >25 To 50, Deduct</i>	-0.52	
		<i>For >50 To 100, Deduct</i>	-1.29	
		<i>For >100, Deduct</i>	-1.55	
		<i>For Glow-In-Dark, Add</i>	10.30	
		<i>For Reflective Finish, Add</i>	11.07	
10 14 23 11-0014	EA	>25 To 50 SI, Semi-Rigid Polyvinyl Chloride (PVC), Surface Mount, Indoor/Outdoor Sign.....	27.44	9.72
		<i>For >25 To 50, Deduct</i>	-0.80	
		<i>For >50 To 100, Deduct</i>	-2.01	
		<i>For >100, Deduct</i>	-2.41	
		<i>For Glow-In-Dark, Add</i>	16.04	
		<i>For Reflective Finish, Add</i>	17.24	
10 14 23 11-0015	EA	>50 To 100 SI, Semi-Rigid Polyvinyl Chloride (PVC), Surface Mount, Indoor/Outdoor Sign.....	33.16	9.72
		<i>For >25 To 50, Deduct</i>	-1.37	
		<i>For >50 To 100, Deduct</i>	-3.44	
		<i>For >100, Deduct</i>	-4.12	
		<i>For Glow-In-Dark, Add</i>	27.48	
		<i>For Reflective Finish, Add</i>	29.54	
10 14 23 11-0016	EA	>100 To 250 SI, Semi-Rigid Polyvinyl Chloride (PVC), Surface Mount, Indoor/Outdoor Sign.....	38.89	9.72
		<i>For >25 To 50, Deduct</i>	-1.95	
		<i>For >50 To 100, Deduct</i>	-4.87	
		<i>For >100, Deduct</i>	-5.84	
		<i>For Glow-In-Dark, Add</i>	38.94	
		<i>For Reflective Finish, Add</i>	41.86	
10 14 23 11-0017	EA	>250 To 500 SI, Semi-Rigid Polyvinyl Chloride (PVC), Surface Mount, Indoor/Outdoor Sign.....	47.48	9.72
		<i>For >25 To 50, Deduct</i>	-2.81	
		<i>For >50 To 100, Deduct</i>	-7.02	
		<i>For >100, Deduct</i>	-8.42	
		<i>For Glow-In-Dark, Add</i>	56.12	
		<i>For Reflective Finish, Add</i>	60.33	
10 14 23 11-0018	EA	>500 To 750 SI, Semi-Rigid Polyvinyl Chloride (PVC), Surface Mount, Indoor/Outdoor Sign.....	56.07	9.72
		<i>For >25 To 50, Deduct</i>	-3.67	
		<i>For >50 To 100, Deduct</i>	-9.16	
		<i>For >100, Deduct</i>	-11.00	
		<i>For Glow-In-Dark, Add</i>	73.30	
		<i>For Reflective Finish, Add</i>	78.80	
10 14 23 11-0019	EA	>750 To 1,000 SI, Semi-Rigid Polyvinyl Chloride (PVC), Surface Mount, Indoor/Outdoor Sign.....	65.24	9.72
		<i>For >25 To 50, Deduct</i>	-4.58	
		<i>For >50 To 100, Deduct</i>	-11.46	
		<i>For >100, Deduct</i>	-13.75	
		<i>For Glow-In-Dark, Add</i>	91.64	
		<i>For Reflective Finish, Add</i>	98.51	
10 14 23 11-0020	SI	>1,000 SI, Semi-Rigid Polyvinyl Chloride (PVC), Surface Mount, Indoor/Outdoor Sign.....	0.07	0.01
		<i>For Glow-In-Dark, Add</i>	0.10	
		<i>For Reflective Finish, Add</i>	0.11	
10 14 23 11-0021		Acrylic, Surface Mount, Indoor/Outdoor Signs With Braille <small>(10 14 23 11-0002)</small>		
		Note: Multi-color with words, symbols and graphics. Includes adhesive or fasteners for mounting. Excludes frame.		
10 14 23 11-0022	EA	Up To 25 SI, Acrylic, Surface Mount, Indoor/Outdoor Signs With Braille	33.16	9.72
		<i>For >25 To 50, Deduct</i>	-1.37	
		<i>For >50 To 100, Deduct</i>	-3.44	
		<i>For >100, Deduct</i>	-4.12	
		<i>For Molded Plastic Frame, Add</i>	15.00	
		<i>For Brushed Metal Finish/Faux Metal Finish, Add</i>	23.00	
		<i>For 2" Height Slider Channel For Custom Inserts, Add</i>	35.00	
10 14 23 11-0023	EA	>25 To 50 SI, Acrylic, Surface Mount, Indoor/Outdoor Signs With Braille.....	36.60	9.72
		<i>For >25 To 50, Deduct</i>	-1.72	
		<i>For >50 To 100, Deduct</i>	-4.30	
		<i>For >100, Deduct</i>	-5.15	
		<i>For Molded Plastic Frame, Add</i>	17.00	
		<i>For Brushed Metal Finish/Faux Metal Finish, Add</i>	28.00	
		<i>For 2" Height Slider Channel For Custom Inserts, Add</i>	35.00	



Specialties	10
Information Specialties	10 10
Signage	10 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 23 11-0024	EA		>50 To 75 SI, Acrylic, Surface Mount, Indoor/Outdoor Signs With Braille.....	42.33	9.72
			<i>For >25 To 50, Deduct</i>	-2.29	
			<i>For >50 To 100, Deduct</i>	-5.73	
			<i>For >100, Deduct</i>	-6.87	
			<i>For Molded Plastic Frame, Add</i>	19.00	
			<i>For Brushed Metal Finish/Faux Metal Finish, Add</i>	31.00	
10 14 23 11-0025	EA		>75 To 100 SI, Acrylic, Surface Mount, Indoor/Outdoor Signs With Braille.....	47.71	9.72
			<i>For >25 To 50, Deduct</i>	-2.83	
			<i>For >50 To 100, Deduct</i>	-7.07	
			<i>For >100, Deduct</i>	-8.49	
			<i>For Molded Plastic Frame, Add</i>	21.00	
			<i>For Brushed Metal Finish/Faux Metal Finish, Add</i>	35.00	
10 14 23 11-0026	SI		>100 SI, Acrylic, Surface Mount, Indoor/Outdoor Signs With Braille.....	0.51	0.10
			<i>For Molded Plastic Frame, Add</i>	0.20	
			<i>For Brushed Metal Finish/Faux Metal Finish, Add</i>	0.31	
10 14 23 11-0027			Engraved Steel, Surface Mount, Indoor/Outdoor Signs <small>(10 14 23 11-0002)</small>		
			Note: Multi-color with words, symbols and graphics. Includes adhesive or fasteners for mounting. Excludes frame.		
10 14 23 11-0028	EA		Up To 25 SI, Engraved Steel, Surface Mount, Indoor/Outdoor Sign.....	41.18	9.72
			<i>For >25 To 50, Deduct</i>	-2.18	
			<i>For >50 To 100, Deduct</i>	-5.44	
			<i>For >100, Deduct</i>	-6.53	
			<i>For Molded Plastic Frame, Add</i>	15.00	
10 14 23 11-0029	EA		>25 To 50 SI, Engraved Steel, Surface Mount, Indoor/Outdoor Sign.....	48.06	9.72
			<i>For >25 To 50, Deduct</i>	-2.86	
			<i>For >50 To 100, Deduct</i>	-7.16	
			<i>For >100, Deduct</i>	-8.59	
			<i>For Molded Plastic Frame, Add</i>	17.00	
10 14 23 11-0030	EA		>50 To 75 SI, Engraved Steel, Surface Mount, Indoor/Outdoor Sign.....	57.22	9.72
			<i>For >25 To 50, Deduct</i>	-3.78	
			<i>For >50 To 100, Deduct</i>	-9.45	
			<i>For >100, Deduct</i>	-11.34	
			<i>For Molded Plastic Frame, Add</i>	19.00	
10 14 23 11-0031	EA		>75 To 100 SI, Engraved Steel, Surface Mount, Indoor/Outdoor Sign.....	75.54	9.72
			<i>For >25 To 50, Deduct</i>	-5.61	
			<i>For >50 To 100, Deduct</i>	-14.03	
			<i>For >100, Deduct</i>	-16.84	
			<i>For Molded Plastic Frame, Add</i>	21.00	
10 14 23 11-0032	SI		>100 SI, Engraved Steel, Surface Mount, Indoor/Outdoor Sign.....	0.75	0.10
			<i>For Molded Plastic Frame, Add</i>	0.20	
10 14 23 11-0033			Enamel Coated Aluminum, Surface Mount, Indoor/Outdoor Signs <small>(10 14 23 11-0002)</small>		
			Note: Multi-color with words, symbols and graphics. Includes adhesive or fasteners for mounting.		
10 14 23 11-0034	EA		Up To 25 SI, Enamel Coated Aluminum, Surface Mount, Indoor/Outdoor Sign.....	24.00	9.72
			<i>For >25 To 50, Deduct</i>	-0.46	
			<i>For >50 To 100, Deduct</i>	-1.15	
			<i>For >100, Deduct</i>	-1.37	
			<i>For Glow-In-Dark, Add</i>	2.75	
			<i>For Reflective Finish, Add</i>	3.44	
10 14 23 11-0035	EA		>25 To 50 SI, Enamel Coated Aluminum, Surface Mount, Indoor/Outdoor Sign.....	27.44	9.72
			<i>For >25 To 50, Deduct</i>	-0.80	
			<i>For >50 To 100, Deduct</i>	-2.01	
			<i>For >100, Deduct</i>	-2.41	
			<i>For Glow-In-Dark, Add</i>	4.81	
			<i>For Reflective Finish, Add</i>	6.02	
10 14 23 11-0036	EA		>50 To 100 SI, Enamel Coated Aluminum, Surface Mount, Indoor/Outdoor Sign.....	34.31	9.72
			<i>For >25 To 50, Deduct</i>	-1.49	
			<i>For >50 To 100, Deduct</i>	-3.72	
			<i>For >100, Deduct</i>	-4.47	
			<i>For Glow-In-Dark, Add</i>	8.93	
			<i>For Reflective Finish, Add</i>	11.17	
10 14 23 11-0037	EA		>100 To 250 SI, Enamel Coated Aluminum, Surface Mount, Indoor/Outdoor Sign.....	42.33	9.72
			<i>For >25 To 50, Deduct</i>	-2.29	
			<i>For >50 To 100, Deduct</i>	-5.73	
			<i>For >100, Deduct</i>	-6.87	
			<i>For Glow-In-Dark, Add</i>	13.75	
			<i>For Reflective Finish, Add</i>	17.18	
10 14 23 11-0038	EA		>250 To 500 SI, Enamel Coated Aluminum, Surface Mount, Indoor/Outdoor Sign.....	66.38	9.72
			<i>For >25 To 50, Deduct</i>	-4.70	
			<i>For >50 To 100, Deduct</i>	-11.74	
			<i>For >100, Deduct</i>	-14.09	
			<i>For Glow-In-Dark, Add</i>	28.18	
			<i>For Reflective Finish, Add</i>	35.22	
10 14 23 11-0039	EA		>500 To 750 SI, Enamel Coated Aluminum, Surface Mount, Indoor/Outdoor Sign.....	76.69	9.72
			<i>For >25 To 50, Deduct</i>	-5.73	
			<i>For >50 To 100, Deduct</i>	-14.32	
			<i>For >100, Deduct</i>	-17.18	
			<i>For Glow-In-Dark, Add</i>	34.36	
			<i>For Reflective Finish, Add</i>	42.95	

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 23 11-0040	EA		>750 To 1,000 SI, Enamel Coated Aluminum, Surface Mount, Indoor/Outdoor Sign.....	90.43	9.72
			<i>For >25 To 50, Deduct</i>	-7.10	
			<i>For >50 To 100, Deduct</i>	-17.75	
			<i>For >100, Deduct</i>	-21.30	
			<i>For Glow-In-Dark, Add</i>	42.61	
			<i>For Reflective Finish, Add</i>	53.26	
10 14 23 11-0041	SI		>1,000 SI, Enamel Coated Aluminum, Surface Mount, Indoor/Outdoor Sign.....	0.10	0.01
			<i>For Glow-In-Dark, Add</i>	0.05	
			<i>For Reflective Finish, Add</i>	0.06	
10 14 23 11-0042			California Title 24, Surface Mount, Signs (10 14 23 11-0002)		
10 14 23 11-0043			California Title 24, Surface Mount, Geometric Restroom Signs (10 14 23 11-0042)		
			Note: Includes 1/4" thick acrylic or PVC construction, color that contrasts with the door color, and with or without the international symbol of accessibility and staff only designation.		
10 14 23 11-0044	EA		1/4" Thick, Equilateral Triangle With 12" Long Edges, California Title 24, Surface Mount, Geometric Male Restroom Sign.....	61.51	9.72
			<i>For >25 To 50, Deduct</i>	-4.21	
			<i>For >50 To 100, Deduct</i>	-6.31	
			<i>For >100, Deduct</i>	-7.16	
10 14 23 11-0045	EA		1/4" Thick, 12" Diameter, California Title 24, Surface Mount, Geometric Female Restroom Sign.....	61.51	9.72
			<i>For >25 To 50, Deduct</i>	-4.21	
			<i>For >50 To 100, Deduct</i>	-6.31	
			<i>For >100, Deduct</i>	-7.16	
10 14 23 11-0046	EA		1/4" Thick, 12" Diameter, California Title 24, Surface Mount, Geometric Unisex Restroom Sign.....	78.35	9.72
			Note: Includes contrasting color equilateral triangle with 12" long edges superimposed on the circle.		
			<i>For >25 To 50, Deduct</i>	-5.89	
			<i>For >50 To 100, Deduct</i>	-8.84	
			<i>For >100, Deduct</i>	-10.02	
10 14 23 11-0047			California Title 24, Surface Mount, Stairwell Signs (10 14 23 11-0042)		
			Note: Includes 1/16" matte finish colored polymer face plate with 1/16" acrylic backer. Includes information on stairway location, roof access availability, floor level number, basement or mezzanine level identification and exit level and direction.		
10 14 23 11-0048	EA		1/8" Thick, 12" x 18", California Title 24, Surface Mount, Stairwell Sign.....	114.43	9.72
			<i>For >25 To 50, Deduct</i>	-9.50	
			<i>For >50 To 100, Deduct</i>	-14.25	
			<i>For >100, Deduct</i>	-16.15	
10 14 23 11-0049			Ceiling Mount, Indoor/Outdoor Signs (10 14 23 11-0001)		
10 14 23 11-0050			Enamel Coated Aluminum, Ceiling Mount, Indoor/Outdoor Signs (10 14 23 11-0049)		
10 14 23 11-0051	EA		Up To 25 SI, Enamel Coated Aluminum, Ceiling Mount, Indoor/Outdoor Sign.....	33.49	13.60
			<i>For >25 To 50, Deduct</i>	-0.63	
			<i>For >50 To 100, Deduct</i>	-1.58	
			<i>For >100, Deduct</i>	-1.89	
			<i>For Glow-In-Dark, Add</i>	3.78	
			<i>For Reflective Finish, Add</i>	4.73	
10 14 23 11-0052	EA		>25 To 50 SI, Enamel Coated Aluminum, Ceiling Mount, Indoor/Outdoor Sign.....	38.64	13.60
			<i>For >25 To 50, Deduct</i>	-1.15	
			<i>For >50 To 100, Deduct</i>	-2.86	
			<i>For >100, Deduct</i>	-3.44	
			<i>For Glow-In-Dark, Add</i>	6.87	
			<i>For Reflective Finish, Add</i>	8.59	
10 14 23 11-0053	EA		>50 To 100 SI, Enamel Coated Aluminum, Ceiling Mount, Indoor/Outdoor Sign.....	45.52	13.60
			<i>For >25 To 50, Deduct</i>	-1.83	
			<i>For >50 To 100, Deduct</i>	-4.58	
			<i>For >100, Deduct</i>	-5.50	
			<i>For Glow-In-Dark, Add</i>	11.00	
			<i>For Reflective Finish, Add</i>	13.75	
10 14 23 11-0054	EA		>100 To 150 SI, Enamel Coated Aluminum, Ceiling Mount, Indoor/Outdoor Sign.....	55.83	13.60
			<i>For >25 To 50, Deduct</i>	-2.86	
			<i>For >50 To 100, Deduct</i>	-7.16	
			<i>For >100, Deduct</i>	-8.59	
			<i>For Glow-In-Dark, Add</i>	17.18	
			<i>For Reflective Finish, Add</i>	21.48	
10 14 23 11-0055			90 Degree, Projection Mount, Indoor/Outdoor Signs (10 14 23 11-0001)		
10 14 23 11-0056			Enamel Coated Aluminum, 90 Degree, Projection Mount, Indoor/Outdoor Signs (10 14 23 11-0055)		
10 14 23 11-0057	EA		Up To 25 SI, Enamel Coated Aluminum, 90 Degree, Projection Mount, Indoor/Outdoor Sign.....	34.06	13.60
			<i>For >25 To 50, Deduct</i>	-0.69	
			<i>For >50 To 100, Deduct</i>	-1.72	
			<i>For >100, Deduct</i>	-2.06	
			<i>For Glow-In-Dark, Add</i>	4.12	
			<i>For Reflective Finish, Add</i>	5.15	



Specialties	10
Information Specialties	10 10
Signage	10 14

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 23	11-0058	EA	>25 To 50 SI, Enamel Coated Aluminum, 90 Degree, Projection Mount, Indoor/Outdoor Sign	39.79	13.60
			<i>For >25 To 50, Deduct</i>	-1.26	
			<i>For >50 To 100, Deduct</i>	-3.15	
			<i>For >100, Deduct</i>	-3.78	
			<i>For Glow-In-Dark, Add</i>	7.56	
			<i>For Reflective Finish, Add</i>	9.45	
10 14 23	11-0059	EA	>50 To 100 SI, Enamel Coated Aluminum, 90 Degree, Projection Mount, Indoor/Outdoor Sign	52.39	13.60
			<i>For >25 To 50, Deduct</i>	-2.52	
			<i>For >50 To 100, Deduct</i>	-6.30	
			<i>For >100, Deduct</i>	-7.56	
			<i>For Glow-In-Dark, Add</i>	15.12	
			<i>For Reflective Finish, Add</i>	18.90	
10 14 23	11-0060	EA	>100 To 150 SI, Enamel Coated Aluminum, 90 Degree, Projection Mount, Indoor/Outdoor Sign	56.97	13.60
			<i>For >25 To 50, Deduct</i>	-2.98	
			<i>For >50 To 100, Deduct</i>	-7.45	
			<i>For >100, Deduct</i>	-8.93	
			<i>For Glow-In-Dark, Add</i>	17.87	
			<i>For Reflective Finish, Add</i>	22.34	
10 14 23	11-0061		Triangle, Projection Mount, Indoor/Outdoor Signs <small>(10 14 23 11-0001)</small>		
10 14 23	11-0062		Enamel Coated Aluminum, Triangle, Projection Mount, Indoor/Outdoor Signs <small>(10 14 23 11-0061)</small>		
10 14 23	11-0063	EA	Up To 25 SI, Enamel Coated Aluminum, Triangle, Projection Mount, Indoor/Outdoor Sign	35.78	13.60
			<i>For >25 To 50, Deduct</i>	-0.86	
			<i>For >50 To 100, Deduct</i>	-2.15	
			<i>For >100, Deduct</i>	-2.58	
			<i>For Glow-In-Dark, Add</i>	5.15	
			<i>For Reflective Finish, Add</i>	6.44	
10 14 23	11-0064	EA	>25 To 50 SI, Enamel Coated Aluminum, Triangle, Projection Mount, Indoor/Outdoor Sign	44.37	13.60
			<i>For >25 To 50, Deduct</i>	-1.72	
			<i>For >50 To 100, Deduct</i>	-4.30	
			<i>For >100, Deduct</i>	-5.15	
			<i>For Glow-In-Dark, Add</i>	10.31	
			<i>For Reflective Finish, Add</i>	12.89	
10 14 23	11-0065	EA	>50 To 100 SI, Enamel Coated Aluminum, Triangle, Projection Mount, Indoor/Outdoor Sign	47.81	13.60
			<i>For >25 To 50, Deduct</i>	-2.06	
			<i>For >50 To 100, Deduct</i>	-5.16	
			<i>For >100, Deduct</i>	-6.19	
			<i>For Glow-In-Dark, Add</i>	12.37	
			<i>For Reflective Finish, Add</i>	15.47	
10 14 23	11-0066	EA	>100 To 150 SI, Enamel Coated Aluminum, Triangle, Projection Mount, Indoor/Outdoor Sign	52.39	13.60
			<i>For >25 To 50, Deduct</i>	-2.52	
			<i>For >50 To 100, Deduct</i>	-6.30	
			<i>For >100, Deduct</i>	-7.56	
			<i>For Glow-In-Dark, Add</i>	15.12	
			<i>For Reflective Finish, Add</i>	18.90	
10 14 23	11-0067		Adhesive Backed Vinyl Characters <small>(10 14 23 11)</small>		
			Note: Includes capital or lower case letters in any font or color. Includes numbers, symbols, punctuation marks, etc. Includes adhesive.		
10 14 23	11-0068	EA	1/2" High, 3 Mil, Adhesive Backed Vinyl Sign Letter/Character	2.27	0.78
			<i>For Pressure Sensitive Vinyl Letters, Custom Cut, Add</i>	0.37	
10 14 23	11-0069	EA	3/4" High, 3 Mil, Adhesive Backed Vinyl Sign Letter/Character	2.34	0.89
			<i>For Pressure Sensitive Vinyl Letters, Custom Cut, Add</i>	0.38	
10 14 23	11-0070	EA	1" High, 3 Mil, Adhesive Backed Vinyl Sign Letter/Character	2.40	1.01
			<i>For Pressure Sensitive Vinyl Letters, Custom Cut, Add</i>	0.40	
10 14 23	11-0071	EA	1-1/2" High, 3 Mil, Adhesive Backed Vinyl Sign Letter/Character	3.29	1.16
			<i>For Pressure Sensitive Vinyl Letters, Custom Cut, Add</i>	0.52	
10 14 23	11-0072	EA	2" High, 3 Mil, Adhesive Backed Vinyl Sign Letter/Character	3.38	1.36
			<i>For Pressure Sensitive Vinyl Letters, Custom Cut, Add</i>	0.54	
10 14 23	11-0073	EA	3" High, 3 Mil, Adhesive Backed Vinyl Sign Letter/Character	4.73	1.55
			<i>For Pressure Sensitive Vinyl Letters, Custom Cut, Add</i>	0.78	
10 14 23	11-0074	EA	4" High, 3 Mil, Adhesive Backed Vinyl Sign Letter/Character	5.01	1.74
			<i>For Pressure Sensitive Vinyl Letters, Custom Cut, Add</i>	0.85	
10 14 23	11-0075	EA	6" High, 3 Mil, Adhesive Backed Vinyl Sign Letter/Character	6.63	1.95
			<i>For Pressure Sensitive Vinyl Letters, Custom Cut, Add</i>	1.15	
10 14 23	11-0076	EA	8" High, 3 Mil, Adhesive Backed Vinyl Sign Letter/Character	7.74	2.14
			<i>For Pressure Sensitive Vinyl Letters, Custom Cut, Add</i>	1.43	
10 14 23	11-0077	EA	10" High, 3 Mil, Adhesive Backed Vinyl Sign Letter/Character	9.83	2.33
			<i>For Pressure Sensitive Vinyl Letters, Custom Cut, Add</i>	1.85	
10 14 23	11-0078		Standoffs For Wall Signage <small>(10 14 23 11)</small>		
			Note: Excludes signage		
10 14 23	11-0079	EA	1/2" Diameter x 1/2" Long, Stainless Steel Standoff	10.53	4.43
10 14 23	11-0080	EA	1/2" Diameter x 3/4" Long, Stainless Steel Standoff	10.75	4.43
10 14 23	11-0081	EA	1/2" Diameter x 1" Long, Stainless Steel Standoff	10.80	4.43
10 14 23	11-0082	EA	5/8" Diameter x 1/2" Long, Stainless Steel Standoff	11.35	4.43
10 14 23	11-0083	EA	5/8" Diameter x 3/4" Long, Stainless Steel Standoff	11.57	4.43
10 14 23	11-0084	EA	5/8" Diameter x 1" Long, Stainless Steel Standoff	12.00	4.43
10 14 23	11-0085	EA	3/4" Diameter x 3/4" Long, Stainless Steel Standoff	12.13	5.32
10 14 23	11-0086	EA	3/4" Diameter x 1" Long, Stainless Steel Standoff	12.72	5.32

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 23 11-0087	EA		3/4" Diameter x 1-1/2" Long, Stainless Steel Standoff	13.21	5.32
10 14 23 11-0088	EA		1" Diameter x 3/4" Long, Stainless Steel Standoff	14.09	5.32
10 14 23 11-0089	EA		1" Diameter x 1" Long, Stainless Steel Standoff	14.79	5.32
10 14 23 11-0090	EA		1" Diameter x 1-1/2" Long, Stainless Steel Standoff	15.65	5.32
10 14 23 11-0091	EA		5/8" Diameter x 3/4" Long, Clear Anodized Aluminum Standoff.....	11.51	4.43
10 14 23 11-0092	EA		5/8" Diameter x 1" Long, Clear Anodized Aluminum Standoff.....	11.68	4.43
10 14 23 11-0093	EA		3/4" Diameter x 3/4" Long, Clear Anodized Aluminum Standoff.....	12.61	5.32
10 14 23 11-0094	EA		3/4" Diameter x 1" Long, Clear Anodized Aluminum Standoff.....	12.77	5.32
10 14 23 11-0095	EA		1" Diameter x 3/4" Long, Clear Anodized Aluminum Standoff.....	13.87	5.32
10 14 23 11-0096	EA		1" Diameter x 1" Long, Clear Anodized Aluminum Standoff.....	13.98	5.32
10 14 23 11-0097			Removal And Reinstallation Of Building Signage (10 14 23 11)		
			Note: Includes storage and cleaning.		
10 14 23 11-0098	EA		Removal And Reinstallation Of Building Signage, Exterior Up To 4 SF	155.13	
10 14 23 11-0099	EA		Removal And Reinstallation Of Building Signage, Exterior >4 To 12 SF	178.19	
10 14 23 11-0100	EA		Removal And Reinstallation Of Building Signage, >12 To 20 SF	200.36	
10 14 23 11-0101	EA		Removal And Reinstallation Of Interior Door And Office Signage, Up To 4SF	58.28	
10 14 23 11-0102			Building Sign (10 14 23 11)		
			Note: Includes 4" numbers painted on. Installed on building.		
10 14 23 11-0103	EA		6" x 18" Metal Building Sign With Numbers.....	128.54	23.32
10 14 23 11-0104	SF		Double Sided, Molding On Two Sides, For Mounting On Aluminum Posts	33.97	6.21
10 14 23 11-0105	SF		Single Sided, Molding On One Side, For Mounting On Structure Up To 20'	25.80	5.76
10 14 23 11-0106	EA		Aluminum Posts, Formed Prefinished, Ribbed, 4" Square, 6' High, 3' Deep.....	22.86	4.88
10 14 23 11-0107	EA		Aluminum Posts, Formed Prefinished, Ribbed, 4" Square, 8' High, 3' Deep.....	26.43	5.32
10 14 23 11-0108	EA		Aluminum Posts, Formed Prefinished, Ribbed, 6" Square, 10' High, 3' Deep.....	29.00	5.76
10 14 23 11-0109	EA		Aluminum Posts, Formed Prefinished, Ribbed, 6" Square, 15' High, 4' Deep.....	34.25	6.21
10 14 53			Traffic Signage (10 14)		
10 14 53 11			Traffic Signage (10 14 53)		
10 14 53 11-0001			Traffic Signs (10 14 53 11)		
10 14 53 11-0002			Reflectorized Stop Signs And Other Traffic Signs (10 14 53 11-0001)		
			Note: Excludes posts.		
10 14 53 11-0003			Aluminum Engineer Grade Stop Signs (10 14 53 11-0002)		
10 14 53 11-0004	EA		18" x 18" Aluminum Engineer Grade Stop Sign	55.92	17.49
			For Hi-Intensity Grade, Add	6.29	
			For Diamond Grade, Add	11.94	
10 14 53 11-0005	EA		18" x 24" Aluminum Engineer Grade Stop Sign	64.30	18.49
			For Hi-Intensity Grade, Add	8.22	
			For Diamond Grade, Add	15.61	
10 14 53 11-0006	EA		24" x 24" Aluminum Engineer Grade Stop Sign	69.47	19.42
			For Hi-Intensity Grade, Add	12.55	
			For Diamond Grade, Add	19.90	
10 14 53 11-0007	EA		30" x 30" Aluminum Engineer Grade Stop Sign	80.01	20.44
			For Hi-Intensity Grade, Add	4.71	
			For Diamond Grade, Add	25.49	
10 14 53 11-0008	EA		36" x 36" Aluminum Engineer Grade Stop Sign	105.58	21.37
			For Hi-Intensity Grade, Add	13.82	
			For Diamond Grade, Add	43.36	
10 14 53 11-0009			Other Reflectorized Traffic Signs (10 14 53 11-0002)		
			Note: Other traffic signs includes reserve, handicap, visitor, no parking, property, speed limit, tow away, ADA, parking time limit, parking exclusive area, school, traffic/caution, etc. Excludes posts.		
10 14 53 11-0010			Aluminum Engineer Grade Traffic Signs (10 14 53 11-0009)		
10 14 53 11-0011	EA		6" x 12" Aluminum Engineer Grade Traffic Sign.....	36.28	15.54
			For Hi-Intensity Grade, Add	1.56	
10 14 53 11-0012	EA		6" x 18" Aluminum Engineer Grade Traffic Sign.....	38.87	15.54
			For Hi-Intensity Grade, Add	2.33	
10 14 53 11-0013	EA		9" x 12" Aluminum Engineer Grade Traffic Sign.....	38.87	15.54
			For Hi-Intensity Grade, Add	2.33	
10 14 53 11-0014	EA		9" x 15" Aluminum Engineer Grade Traffic Sign.....	40.82	15.54
			For Hi-Intensity Grade, Add	2.92	
10 14 53 11-0015	EA		9" x 18" Aluminum Engineer Grade Traffic Sign.....	42.76	15.54
			For Hi-Intensity Grade, Add	3.50	
10 14 53 11-0016	EA		9" x 24" Aluminum Engineer Grade Traffic Sign.....	48.60	16.52
			For Hi-Intensity Grade, Add	4.67	
10 14 53 11-0017	EA		9" x 48" Aluminum Engineer Grade Traffic Sign.....	64.16	16.52
			For Hi-Intensity Grade, Add	9.34	
10 14 53 11-0018	EA		12" x 12" Aluminum Engineer Grade Traffic Sign.....	41.47	15.54
			For Hi-Intensity Grade, Add	3.11	
10 14 53 11-0019	EA		12" x 18" Aluminum Engineer Grade Traffic Sign.....	48.60	16.52
			For Hi-Intensity Grade, Add	4.67	
10 14 53 11-0020	EA		12" x 24" Aluminum Engineer Grade Traffic Sign.....	53.78	16.52
			For Hi-Intensity Grade, Add	6.23	



Specialties	10
Information Specialties	10 10
Signage	10 14

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0021	EA		12" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	58.97 7.78	16.52
10 14 53 11-0022	EA		12" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	64.16 9.34	16.52
10 14 53 11-0023	EA		18" x 18" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	56.38 7.01	16.52
10 14 53 11-0024	EA		18" x 24" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	64.16 9.34	16.52
10 14 53 11-0025	EA		18" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	73.89 11.68	17.49
10 14 53 11-0026	EA		18" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	81.67 14.01	17.49
10 14 53 11-0027	EA		18" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	105.00 18.68	21.37
10 14 53 11-0028	EA		18" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	112.79 21.02	21.37
10 14 53 11-0029	EA		24" x 24" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	76.48 12.45	17.49
10 14 53 11-0030	EA		24" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	86.86 15.57	17.49
10 14 53 11-0031	EA		24" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	97.23 18.68	17.49
10 14 53 11-0032	EA		24" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	115.38 21.79	21.37
10 14 53 11-0033	EA		24" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	125.76 24.91	21.37
10 14 53 11-0034	EA		24" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	136.14 28.02	21.37
10 14 53 11-0035	EA		24" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	146.51 31.13	21.37
10 14 53 11-0036	EA		30" x 30" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	99.83 19.46	17.49
10 14 53 11-0037	EA		30" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	120.57 23.35	21.37
10 14 53 11-0038	EA		30" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	133.54 27.24	21.37
10 14 53 11-0039	EA		30" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	154.28 31.13	25.26
10 14 53 11-0040	EA		30" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	188.00 38.92	29.14
10 14 53 11-0041	EA		36" x 36" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	136.14 28.02	21.37
10 14 53 11-0042	EA		36" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	159.47 32.69	25.26
10 14 53 11-0043	EA		36" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	182.81 37.36	29.14
10 14 53 11-0044	EA		36" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	198.38 42.03	29.14
10 14 53 11-0045	EA		36" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	221.72 46.70	33.03
10 14 53 11-0046	EA		36" x 73" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	263.22 56.82	36.91
10 14 53 11-0047	EA		36" x 78" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	276.19 60.71	36.91
10 14 53 11-0048	EA		36" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	365.68 84.06	42.74
10 14 53 11-0049	EA		42" x 42" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	185.40 38.14	29.14
10 14 53 11-0050	EA		48" x 48" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	232.10 49.81	33.03
10 14 53 11-0051	EA		48" x 54" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	260.62 56.04	36.91
10 14 53 11-0052	EA		48" x 60" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	281.38 62.27	36.91
10 14 53 11-0053	EA		48" x 66" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	313.79 68.49	42.74
10 14 53 11-0054	EA		48" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	334.55 74.72	42.74
10 14 53 11-0055	EA		48" x 84" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	383.83 87.17	46.63
10 14 53 11-0056	EA		48" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	425.34 99.62	46.63
10 14 53 11-0057	EA		48" x 102" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	446.09 105.85	46.63
10 14 53 11-0058	EA		48" x 108" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	470.73 112.08	48.58
10 14 53 11-0059	EA		60" x 72" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	404.58 93.40	46.63
10 14 53 11-0060	EA		72" x 144" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	871.53 224.15	62.17
10 14 53 11-0061	EA		78" x 96" Aluminum Engineer Grade Traffic Sign <i>For Hi-Intensity Grade, Add</i>	636.77 161.89	48.58

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 14 53 11-0062 Non-Reflectorized Traffic Signs (10 14 53 11-0001)
 Note: Includes reserved parking, handicap parking, visitor parking, no parking, tow away zones, etc. Excludes posts.

10 14 53 11-0063 Steel Non-Reflectorized Traffic Signs (10 14 53 11-0062)

10 14 53 11-0064	EA	6" x 12" Steel Non Reflectorized Traffic Sign	35.58	15.54
10 14 53 11-0065	EA	6" x 18" Steel Non Reflectorized Traffic Sign	37.82	15.54
10 14 53 11-0066	EA	9" x 12" Steel Non Reflectorized Traffic Sign	37.82	15.54
10 14 53 11-0067	EA	9" x 15" Steel Non Reflectorized Traffic Sign	39.50	15.54
10 14 53 11-0068	EA	9" x 18" Steel Non Reflectorized Traffic Sign	41.18	15.54
10 14 53 11-0069	EA	9" x 24" Steel Non Reflectorized Traffic Sign	46.49	16.52
10 14 53 11-0070	EA	9" x 48" Steel Non Reflectorized Traffic Sign	59.94	16.52
10 14 53 11-0071	EA	12" x 12" Steel Non Reflectorized Traffic Sign	40.06	15.54
10 14 53 11-0072	EA	12" x 18" Steel Non Reflectorized Traffic Sign	46.49	16.52
10 14 53 11-0073	EA	12" x 24" Steel Non Reflectorized Traffic Sign	50.97	16.52
10 14 53 11-0074	EA	12" x 30" Steel Non Reflectorized Traffic Sign	55.46	16.52
10 14 53 11-0075	EA	12" x 36" Steel Non Reflectorized Traffic Sign	59.94	16.52
10 14 53 11-0076	EA	18" x 18" Steel Non Reflectorized Traffic Sign	53.22	16.52
10 14 53 11-0077	EA	18" x 24" Steel Non Reflectorized Traffic Sign	59.94	16.52
10 14 53 11-0078	EA	18" x 30" Steel Non Reflectorized Traffic Sign	68.61	17.49
10 14 53 11-0079	EA	18" x 36" Steel Non Reflectorized Traffic Sign	75.34	17.49
10 14 53 11-0080	EA	18" x 48" Steel Non Reflectorized Traffic Sign	96.57	21.37
10 14 53 11-0081	EA	18" x 54" Steel Non Reflectorized Traffic Sign	103.30	21.37
10 14 53 11-0082	EA	24" x 24" Steel Non Reflectorized Traffic Sign	70.86	17.49
10 14 53 11-0083	EA	24" x 30" Steel Non Reflectorized Traffic Sign	79.83	17.49
10 14 53 11-0084	EA	24" x 36" Steel Non Reflectorized Traffic Sign	88.80	17.49
10 14 53 11-0085	EA	24" x 42" Steel Non Reflectorized Traffic Sign	105.54	21.37
10 14 53 11-0086	EA	24" x 48" Steel Non Reflectorized Traffic Sign	114.51	21.37
10 14 53 11-0087	EA	24" x 54" Steel Non Reflectorized Traffic Sign	123.48	21.37
10 14 53 11-0088	EA	24" x 60" Steel Non Reflectorized Traffic Sign	132.45	21.37
10 14 53 11-0089	EA	30" x 30" Steel Non Reflectorized Traffic Sign	91.04	17.49
10 14 53 11-0090	EA	30" x 36" Steel Non Reflectorized Traffic Sign	110.02	21.37
10 14 53 11-0091	EA	30" x 42" Steel Non Reflectorized Traffic Sign	121.24	21.37
10 14 53 11-0092	EA	30" x 48" Steel Non Reflectorized Traffic Sign	140.22	25.26
10 14 53 11-0093	EA	30" x 60" Steel Non Reflectorized Traffic Sign	170.42	29.14
10 14 53 11-0094	EA	36" x 36" Steel Non Reflectorized Traffic Sign	123.48	21.37
10 14 53 11-0095	EA	36" x 42" Steel Non Reflectorized Traffic Sign	144.71	25.26
10 14 53 11-0096	EA	36" x 48" Steel Non Reflectorized Traffic Sign	165.94	29.14
10 14 53 11-0097	EA	36" x 54" Steel Non Reflectorized Traffic Sign	179.39	29.14
10 14 53 11-0098	EA	36" x 60" Steel Non Reflectorized Traffic Sign	200.63	33.03
10 14 53 11-0099	EA	36" x 73" Steel Non Reflectorized Traffic Sign	237.56	36.91
10 14 53 11-0100	EA	36" x 78" Steel Non Reflectorized Traffic Sign	248.77	36.91
10 14 53 11-0101	EA	36" x 108" Steel Non Reflectorized Traffic Sign	327.72	42.74
10 14 53 11-0102	EA	42" x 42" Steel Non Reflectorized Traffic Sign	168.18	29.14
10 14 53 11-0103	EA	48" x 48" Steel Non Reflectorized Traffic Sign	209.60	33.03
10 14 53 11-0104	EA	48" x 54" Steel Non Reflectorized Traffic Sign	235.31	36.91
10 14 53 11-0105	EA	48" x 60" Steel Non Reflectorized Traffic Sign	253.26	36.91
10 14 53 11-0106	EA	48" x 66" Steel Non Reflectorized Traffic Sign	282.86	42.74
10 14 53 11-0107	EA	48" x 72" Steel Non Reflectorized Traffic Sign	300.80	42.74
10 14 53 11-0108	EA	48" x 84" Steel Non Reflectorized Traffic Sign	344.46	46.63
10 14 53 11-0109	EA	48" x 96" Steel Non Reflectorized Traffic Sign	380.34	46.63
10 14 53 11-0110	EA	48" x 102" Steel Non Reflectorized Traffic Sign	398.28	46.63
10 14 53 11-0111	EA	48" x 108" Steel Non Reflectorized Traffic Sign	420.11	48.58
10 14 53 11-0112	EA	60" x 72" Steel Non Reflectorized Traffic Sign	362.40	46.63
10 14 53 11-0113	EA	72" x 144" Steel Non Reflectorized Traffic Sign	770.28	62.17
10 14 53 11-0114	EA	78" x 96" Steel Non Reflectorized Traffic Sign	563.65	48.58

10 14 53 11-0115 Aluminum Non-Reflectorized Traffic Signs (10 14 53 11-0062)

10 14 53 11-0116	EA	6" x 12" Aluminum Non Reflectorized Traffic Sign	35.76	15.54
10 14 53 11-0117	EA	6" x 18" Aluminum Non Reflectorized Traffic Sign	38.09	15.54
10 14 53 11-0118	EA	9" x 12" Aluminum Non Reflectorized Traffic Sign	38.09	15.54
10 14 53 11-0119	EA	9" x 15" Aluminum Non Reflectorized Traffic Sign	39.84	15.54
10 14 53 11-0120	EA	9" x 18" Aluminum Non Reflectorized Traffic Sign	41.59	15.54
10 14 53 11-0121	EA	9" x 24" Aluminum Non Reflectorized Traffic Sign	47.04	16.52
10 14 53 11-0122	EA	9" x 48" Aluminum Non Reflectorized Traffic Sign	61.04	16.52
10 14 53 11-0123	EA	12" x 12" Aluminum Non Reflectorized Traffic Sign	40.43	15.54
10 14 53 11-0124	EA	12" x 18" Aluminum Non Reflectorized Traffic Sign	47.04	16.52
10 14 53 11-0125	EA	12" x 24" Aluminum Non Reflectorized Traffic Sign	51.70	16.52
10 14 53 11-0126	EA	12" x 30" Aluminum Non Reflectorized Traffic Sign	56.37	16.52
10 14 53 11-0127	EA	12" x 36" Aluminum Non Reflectorized Traffic Sign	61.04	16.52
10 14 53 11-0128	EA	18" x 18" Aluminum Non Reflectorized Traffic Sign	54.04	16.52
10 14 53 11-0129	EA	18" x 24" Aluminum Non Reflectorized Traffic Sign	61.04	16.52
10 14 53 11-0130	EA	18" x 30" Aluminum Non Reflectorized Traffic Sign	69.98	17.49
10 14 53 11-0131	EA	18" x 36" Aluminum Non Reflectorized Traffic Sign	76.99	17.49
10 14 53 11-0132	EA	18" x 48" Aluminum Non Reflectorized Traffic Sign	98.76	21.37
10 14 53 11-0133	EA	18" x 54" Aluminum Non Reflectorized Traffic Sign	105.76	21.37
10 14 53 11-0134	EA	24" x 24" Aluminum Non Reflectorized Traffic Sign	72.32	17.49
10 14 53 11-0135	EA	24" x 30" Aluminum Non Reflectorized Traffic Sign	81.65	17.49
10 14 53 11-0136	EA	24" x 36" Aluminum Non Reflectorized Traffic Sign	90.99	17.49
10 14 53 11-0137	EA	24" x 42" Aluminum Non Reflectorized Traffic Sign	108.10	21.37



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 14 53 11-0138 EA 24" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	117.44	21.37
10 14 53 11-0139 EA 24" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	126.77	21.37
10 14 53 11-0140 EA 24" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	136.11	21.37
10 14 53 11-0141 EA 30" x 30" Aluminum Non ReflectORIZED Traffic Sign.....	93.33	17.49
10 14 53 11-0142 EA 30" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	112.77	21.37
10 14 53 11-0143 EA 30" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	124.44	21.37
10 14 53 11-0144 EA 30" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	143.88	25.26
10 14 53 11-0145 EA 30" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	174.99	29.14
10 14 53 11-0146 EA 36" x 36" Aluminum Non ReflectORIZED Traffic Sign.....	126.77	21.37
10 14 53 11-0147 EA 36" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	148.55	25.26
10 14 53 11-0148 EA 36" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	170.32	29.14
10 14 53 11-0149 EA 36" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	184.33	29.14
10 14 53 11-0150 EA 36" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	206.11	33.03
10 14 53 11-0151 EA 36" x 73" Aluminum Non ReflectORIZED Traffic Sign.....	244.23	36.91
10 14 53 11-0152 EA 36" x 78" Aluminum Non ReflectORIZED Traffic Sign.....	255.90	36.91
10 14 53 11-0153 EA 36" x 108" Aluminum Non ReflectORIZED Traffic Sign.....	337.59	42.74
10 14 53 11-0154 EA 42" x 42" Aluminum Non ReflectORIZED Traffic Sign.....	172.66	29.14
10 14 53 11-0155 EA 48" x 48" Aluminum Non ReflectORIZED Traffic Sign.....	215.45	33.03
10 14 53 11-0156 EA 48" x 54" Aluminum Non ReflectORIZED Traffic Sign.....	241.89	36.91
10 14 53 11-0157 EA 48" x 60" Aluminum Non ReflectORIZED Traffic Sign.....	260.57	36.91
10 14 53 11-0158 EA 48" x 66" Aluminum Non ReflectORIZED Traffic Sign.....	290.90	42.74
10 14 53 11-0159 EA 48" x 72" Aluminum Non ReflectORIZED Traffic Sign.....	309.58	42.74
10 14 53 11-0160 EA 48" x 84" Aluminum Non ReflectORIZED Traffic Sign.....	354.69	46.63
10 14 53 11-0161 EA 48" x 96" Aluminum Non ReflectORIZED Traffic Sign.....	392.04	46.63
10 14 53 11-0162 EA 48" x 102" Aluminum Non ReflectORIZED Traffic Sign.....	410.71	46.63
10 14 53 11-0163 EA 48" x 108" Aluminum Non ReflectORIZED Traffic Sign.....	433.27	48.58
10 14 53 11-0164 EA 60" x 72" Aluminum Non ReflectORIZED Traffic Sign.....	373.37	46.63
10 14 53 11-0165 EA 72" x 144" Aluminum Non ReflectORIZED Traffic Sign.....	796.61	62.17
10 14 53 11-0166 EA 78" x 96" Aluminum Non ReflectORIZED Traffic Sign.....	582.66	48.58
10 14 53 11-0167 Aluminum Street Signs (10 14 53 11-0001)		
Note: Excludes posts.		
10 14 53 11-0168 Aluminum Engineer Grade Street Signs (10 14 53 11-0167)		
10 14 53 11-0169 EA 6" High, Aluminum Engineer Grade Street Sign.....	58.45	7.77
For Hi-Intensity Grade, Add	12.87	
10 14 53 11-0170 EA 8" High, Aluminum Engineer Grade Street Sign.....	66.03	7.77
For Hi-Intensity Grade, Add	15.15	
10 14 53 11-0171 EA 9" High, Aluminum Engineer Grade Street Sign.....	71.66	7.77
For Hi-Intensity Grade, Add	16.84	
10 14 53 11-0172 Street Sign Accessories (10 14 53 11-0167)		
10 14 53 11-0173 EA Single Bracket And Post Cap For Street Sign.....	18.09	3.88
10 14 53 11-0174 EA Double Bracket And Post Cap For Street Sign.....	18.09	3.88
10 14 53 11-0175 Sign Posts (10 14 53 11-0001)		
Note: Excludes sign. See CSI section 32 31 13 13-0001 for auguring of holes and backfill.		
10 14 53 11-0176 U-Channel Sign Posts (10 14 53 11-0175)		
Note: Excludes digging and concrete.		
10 14 53 11-0177 Baked Enamel U-Channel Sign Posts (10 14 53 11-0176)		
10 14 53 11-0178 EA 3' To 4' Baked Enamel U-Channel Sign Post Base.....	49.55	15.82
10 14 53 11-0179 EA 6' Baked Enamel U-Channel Sign Post.....	64.73	19.77
10 14 53 11-0180 EA 7' Baked Enamel U-Channel Sign Post.....	77.33	23.73
10 14 53 11-0181 EA 8' Baked Enamel U-Channel Sign Post.....	90.51	27.68
10 14 53 11-0182 EA 10' Baked Enamel U-Channel Sign Post.....	109.28	33.62
10 14 53 11-0183 EA 12' Baked Enamel U-Channel Sign Post.....	112.15	33.62
10 14 53 11-0184 Galvanized Steel U-Channel Sign Posts (10 14 53 11-0176)		
10 14 53 11-0185 EA 3' To 4' Galvanized Steel U-Channel Sign Post Base.....	53.24	15.82
10 14 53 11-0186 EA 6' Galvanized Steel U-Channel Sign Post.....	70.59	19.77
10 14 53 11-0187 EA 7' Galvanized Steel U-Channel Sign Post.....	90.58	23.73
10 14 53 11-0188 EA 8' Galvanized Steel U-Channel Sign Post.....	105.16	27.68
10 14 53 11-0189 EA 10' Galvanized Steel U-Channel Sign Post.....	119.94	33.62
10 14 53 11-0190 EA 12' Galvanized Steel U-Channel Sign Post.....	121.43	33.62
10 14 53 11-0191 Fiberglass Or Composite Plastic U-Channel Sign Posts (10 14 53 11-0176)		
10 14 53 11-0192 EA 3' To 4' Fiberglass Or Composite Plastic U-Channel Sign Post Base.....	48.68	15.82
10 14 53 11-0193 EA 6' Fiberglass Or Composite Plastic U-Channel Sign Post.....	62.84	19.77
10 14 53 11-0194 EA 7' Fiberglass Or Composite Plastic U-Channel Sign Post.....	75.05	23.73
10 14 53 11-0195 EA 8' Fiberglass Or Composite Plastic U-Channel Sign Post.....	87.79	27.68
10 14 53 11-0196 EA 10' Fiberglass Or Composite Plastic U-Channel Sign Post.....	104.34	33.62
10 14 53 11-0197 EA 12' Fiberglass Or Composite Plastic U-Channel Sign Post.....	109.22	33.62

10	10	Specialties
	10 10	Information Specialties
	10 14	Signage



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 14 53 11-0198	Tubular Sign Posts <small>(10 14 53 11-0175)</small> Note: Excludes digging and concrete.		
10 14 53 11-0199	2-3/8" Diameter, Galvanized Steel Tubular Sign Post <small>(10 14 53 11-0198)</small>		
10 14 53 11-0200	EA 6', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	71.20	19.77
10 14 53 11-0201	EA 7', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	84.57	23.73
10 14 53 11-0202	EA 8', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	99.79	27.68
10 14 53 11-0203	EA 10', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	127.96	33.62
10 14 53 11-0204	EA 12', 2-3/8" Diameter, Galvanized Steel Tubular Sign Post.....	138.02	33.62
10 14 53 11-0205	Square Sign Posts <small>(10 14 53 11-0175)</small> Note: Excludes digging and concrete.		
10 14 53 11-0206	Galvanized Steel Square Sign Posts <small>(10 14 53 11-0205)</small>		
10 14 53 11-0207	EA 3' To 4' Galvanized Steel Square Sign Post Base.....	54.06	15.82
10 14 53 11-0208	EA 6' Galvanized Steel Square Sign Post.....	84.47	19.77
10 14 53 11-0209	EA 7' Galvanized Steel Square Sign Post.....	99.21	23.73
10 14 53 11-0210	EA 8' Galvanized Steel Square Sign Post.....	115.73	27.68
10 14 53 11-0211	EA 10' Galvanized Steel Square Sign Post.....	141.26	33.62
10 14 53 11-0212	EA 12' Galvanized Steel Square Sign Post.....	148.28	33.62
10 14 53 11-0213	Sign Post Accessories <small>(10 14 53 11-0001)</small>		
10 14 53 11-0214	Sign Post Brackets <small>(10 14 53 11-0213)</small>		
10 14 53 11-0215	EA 2-3/8" Outside Diameter, Single Sign Bracket Set.....	24.04	5.83
10 14 53 11-0216	EA 2-3/8" Outside Diameter, Double Sign Bracket Set.....	43.14	9.72
10 14 53 11-0217	EA 10 cm - 37 cm Diameter, Buckle Bracket Set.....	37.01	7.77
10 14 53 11-0218	Sign Post Caps <small>(10 14 53 11-0213)</small>		
10 14 53 11-0219	EA Traffic Sign Post Cap.....	13.52	3.88
10 14 53 11-0220	Sign Post Replacement Bolts <small>(10 14 53 11-0213)</small>		
10 14 53 11-0221	EA Signage Fasteners Replacement.....	9.71	
	Note: Includes two 5/16" x 2" long bolts, two 5/16" nuts And four 5/16" washers		
10 14 53 11-0222	Removal Of Signs <small>(10 14 53 11)</small> Note: Includes structural supports.		
10 14 53 11-0223	EA >4 To 10 SF Sign Area, Sign Removal.....	155.43	
10 14 53 11-0224	EA >10 To 20 SF Sign Area, Sign Removal.....	373.04	
10 14 53 11-0225	EA >20 To 40 SF Sign Area, Sign Removal.....	559.55	
10 14 53 11-0226	EA >40 To 100 SF Sign Area, Sign Removal.....	868.97	
10 14 53 11-0227	Remove And Reinstall Signs <small>(10 14 53 11)</small> Note: Includes structural supports.		
10 14 53 11-0228	EA >4 To 10 SF Sign Area, Removal And Reinstallation Of Sign.....	236.36	
10 14 53 11-0229	EA >10 To 20 SF Sign Area, Removal And Reinstallation Of Sign.....	561.84	
10 14 53 11-0230	EA >20 SF To 40 SF Sign Area, Removal And Reinstallation Of Sign.....	841.27	
10 14 53 11-0231	EA >40 SF To 100 SF Sign Area, Removal And Reinstallation Of Sign.....	1,305.27	
10 14 53 11-0232	EA Removal And Reinstallation Of Street Sign On Post.....	89.37	
10 14 53 11-0233	EA Removal And Relocation Of Traffic Light.....	312.92	
	Note: Excludes electrical hookup.		

10 20 Interior Specialties (10)

10 21 Compartments And Cubicles (10 20)

10 21 13 Toilet Compartments (10 21)

10 21 13 13 Metal Toilet Compartments (10 21 13)

10 21 13 13-0001 **Enamel Coated Steel Toilet Partitions And Urinal Screens** (10 21 13 13)
 Note: Complete toilet partitions for corner installations. Includes 1" door, 1-1/4" pilaster, 1" separator panel, trim shoes, and standard stainless steel hardware as required. For alcove, recessed or configurations other than corner installations use either: (1) the appropriate corner unit and add individual components or (2) individual components. Individual components include trim shoes and standard stainless steel hardware as required. Constructed of galvanized sheet metal, cleaned, primed and finished with oven baked enamel or epoxy coating.

10 21 13 13-0002 **Enamel Coated Steel Toilet Partitions** (10 21 13 13-0001)
 Note: All colors.

10 21 13 13-0003 **Floor Anchored, Enamel Coated Steel, Complete Toilet Partitions** (10 21 13 13-0002)

10 21 13 13-0004	EA 36" x 60", Floor Anchored, Enamel Coated Steel, One Compartment Corner Unit, Complete Toilet Partition.....	802.11	99.73
	For >10, Deduct	-60.27	
	For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21	13	13-0005	EA 60" x 60", Floor Anchored, Enamel Coated Steel, One Compartment Corner Unit, Complete Americans With Disabilities Act Compliant Toilet Partition.....	970.15	108.59
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0006	EA 60" x 78", Floor Anchored, Enamel Coated Steel, One Compartment Corner Unit, Complete Americans With Disabilities Act Compliant Toilet Partition.....	1,036.15	113.02
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0007	Overhead Braced, Enamel Coated Steel, Complete Toilet Partitions (10 21 13 13-0002) Note: Includes headrail.		
10 21	13	13-0008	EA 36" x 60", Overhead Braced, Enamel Coated Steel, One Compartment Corner Unit, Complete Toilet Partition.....	834.98	121.88
			<i>For >10, Deduct</i>	-59.12	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0009	EA 60" x 60", Overhead Braced, Enamel Coated Steel, One Compartment Corner Unit, Complete Americans With Disabilities Act Compliant Toilet Partition.....	970.09	130.76
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0010	EA 60" x 78", Overhead Braced, Enamel Coated Steel, One Compartment Corner Unit, Complete Americans With Disabilities Act Compliant Toilet Partition.....	1,025.49	135.18
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0011	Floor And Ceiling Anchored, Enamel Coated Steel, Complete Toilet Partitions (10 21 13 13-0002) Note: Excludes above ceiling steel.		
10 21	13	13-0012	EA 36" x 60", Floor And Ceiling Anchored, Enamel Coated Steel, One Compartment Corner Unit, Complete Toilet Partition.....	985.51	144.04
			<i>For >10, Deduct</i>	-69.74	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0013	EA 60" x 60", Floor And Ceiling Anchored, Enamel Coated Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,149.10	152.91
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0014	EA 60" x 78", Floor And Ceiling Anchored, Enamel Coated Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,206.96	157.34
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0015	Ceiling Hung, Enamel Coated Steel, Complete Toilet Partitions (10 21 13 13-0002) Note: Excludes above ceiling steel.		
10 21	13	13-0016	EA 36" x 60", Ceiling Hung, Enamel Coated Steel, One Compartment Corner Unit, Complete Toilet Partition.....	952.26	166.21
			<i>For >10, Deduct</i>	-61.98	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0017	EA 60" x 60", Ceiling Hung, Enamel Coated Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,143.19	175.07
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0018	EA 60" x 78", Ceiling Hung, Enamel Coated Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,207.56	179.51
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21	13	13-0019	Enamel Coated Steel Urinal Screens (10 21 13 13-0001) Note: All colors.		
10 21	13	13-0020	Floor Anchored, Enamel Coated Steel, Urinal Screens (10 21 13 13-0019)		
10 21	13	13-0021	EA 24" x 58" x 1", Floor Anchored, Enamel Coated Steel, Urinal Screen.....	424.67	62.03
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21	13	13-0022	EA 36" x 58" x 1", Floor Anchored, Enamel Coated Steel, Urinal Screen.....	470.75	66.46
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21	13	13-0023	EA 48" x 58" x 1", Floor Anchored, Enamel Coated Steel, Urinal Screen.....	518.25	70.89
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21	13	13-0024	Wall Hung, Enamel Coated Steel, Urinal Screens (10 21 13 13-0019)		
10 21	13	13-0025	EA 18" x 42" x 1", Wall Hung, Enamel Coated Steel, Urinal Screen.....	240.89	53.17
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21	13	13-0026	EA 24" x 42" x 1", Wall Hung, Enamel Coated Steel, Urinal Screen.....	259.78	57.60
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21	13	13-0027	EA 30" x 42" x 1", Wall Hung, Enamel Coated Steel, Urinal Screen.....	274.36	62.03
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21	13	13-0028	Wall Hung, Wedge Shaped, Enamel Coated Steel, Urinal Screens (10 21 13 13-0019)		
10 21	13	13-0029	EA 18" x 30" x 1", Wall Hung, Wedge Shaped, Enamel Coated Steel, Urinal Screen.....	311.26	57.60
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21	13	13-0030	Wall Hung And Post Supported, Enamel Coated Steel, Urinal Screens (10 21 13 13-0019)		
10 21	13	13-0031	EA 18" x 58" x 1", Wall Hung And Post Supported, Enamel Coated Steel, Urinal Screen.....	348.53	57.60
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21	13	13-0032	EA 24" x 58" x 1", Wall Hung And Post Supported, Enamel Coated Steel, Urinal Screen.....	371.71	62.03
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21	13	13-0033	EA 30" x 58" x 1", Wall Hung And Post Supported, Enamel Coated Steel, Urinal Screen.....	394.88	66.46
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 21 13 13-0034	Wall Hung And Overhead Braced, Enamel Coated Steel, Urinal Screens <small>(10 21 13 13-0019)</small>		
10 21 13 13-0035	EA 22" x 58" x 1", Wall Hung And Overhead Braced, Enamel Coated Steel, Urinal Screen.....	393.17	62.03
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0036	EA 34" x 58" x 1", Wall Hung And Overhead Braced, Enamel Coated Steel, Urinal Screen.....	422.08	66.46
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0037	EA 46" x 58" x 1", Wall Hung And Overhead Braced, Enamel Coated Steel, Urinal Screen.....	466.73	70.89
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	

10 21 13 13-0038	Enamel Coated Steel Toilet Partition Doors, Panels And Pilasters <small>(10 21 13 13-0001)</small>		
	Note: All colors.		

10 21 13 13-0039	Enamel Coated Steel, Toilet Partition Doors <small>(10 21 13 13-0038)</small>		
10 21 13 13-0040	EA 24" x 58" x 1", Enamel Coated Steel, Toilet Partition Door	253.04	17.73
	<i>For Heavy Gauge Full-Height SS Hinge, Add</i>	74.33	
10 21 13 13-0041	EA 26" x 58" x 1", Enamel Coated Steel, Toilet Partition Door	258.76	17.73
	<i>For Heavy Gauge Full-Height SS Hinge, Add</i>	74.33	
10 21 13 13-0042	EA 30" x 58" x 1", Enamel Coated Steel, Toilet Partition Door	274.32	19.05
	<i>For Heavy Gauge Full-Height SS Hinge, Add</i>	74.33	
10 21 13 13-0043	EA 34" x 58" x 1", Enamel Coated Steel, ADA Compliant Toilet Partition Door	300.08	19.05
	<i>For Heavy Gauge Full-Height SS Hinge, Add</i>	74.33	
10 21 13 13-0044	EA 36" x 58" x 1", Enamel Coated Steel, ADA Compliant Toilet Partition Door	305.81	19.05
	<i>For Heavy Gauge Full-Height SS Hinge, Add</i>	74.33	

10 21 13 13-0045	Enamel Coated Steel, Toilet Partition Panels <small>(10 21 13 13-0038)</small>		
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10 21 13 13-0046	EA 6" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	182.03	26.59
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0047	EA 12" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	200.77	28.81
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0048	EA 18" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	219.51	31.03
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0049	EA 24" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	238.26	33.24
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0050	EA 30" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	257.02	35.45
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0051	EA 36" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	275.76	37.68
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0052	EA 42" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	293.07	39.89
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0053	EA 48" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	311.83	42.10
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0054	EA 55" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	324.84	44.33
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0055	EA 58" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	332.33	45.21
	<i>For Panel Reinforced At ADA Grab Bar, Add</i>	42.00	
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0056	EA 60" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	342.16	46.54
	<i>For Panel Reinforced At ADA Grab Bar, Add</i>	42.00	
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0057	EA 70" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	373.79	48.75
	<i>For Panel Reinforced At ADA Grab Bar, Add</i>	42.00	
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0058	EA 78" x 58" x 1", Enamel Coated Steel, Toilet Partition Panel	401.12	50.97
	<i>For Panel Reinforced At ADA Grab Bar, Add</i>	42.00	
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	

10 21 13 13-0059	70" Long, Enamel Coated Steel, Toilet Partition Pilasters <small>(10 21 13 13-0038)</small>		
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10 21 13 13-0060	EA Up To 4" x 70" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster	138.25	13.30
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0061	EA 5" x 70" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster	152.71	15.51
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0062	EA 6" x 70" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster	168.58	17.73
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0063	EA 8" x 70" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster	195.92	19.95
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0064	EA 10" x 70" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster	221.84	22.16
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0065	EA 12" x 70" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster	247.73	24.38
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0066	EA 18" x 70" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster	319.45	26.59
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0067	EA 22" x 70" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster	366.82	28.81
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 13-0068	EA 24" x 70" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster	394.16	31.03
	<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	

10 21 13 13-0069	82" Long, Enamel Coated Steel, Toilet Partition Pilasters <small>(10 21 13 13-0038)</small>		
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Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 13-0070	EA		Up To 4" x 82" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	111.05 46.19	13.30
10 21 13 13-0071	EA		5" x 82" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	121.21 46.19	15.51
10 21 13 13-0072	EA		6" x 82" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	132.79 46.19	17.73
10 21 13 13-0073	EA		8" x 82" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	150.12 46.19	19.95
10 21 13 13-0074	EA		10" x 82" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	166.01 46.19	22.16
10 21 13 13-0075	EA		12" x 82" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	183.31 46.19	24.38
10 21 13 13-0076	EA		18" x 82" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	226.40 46.19	26.59
10 21 13 13-0077	EA		22" x 82" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	255.17 46.19	28.81
10 21 13 13-0078	EA		24" x 82" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	272.48 46.19	31.03
10 21 13 13-0079			96" To 120" Long, Enamel Coated Steel, Partition Pilasters (10 21 13 13-0038)		
10 21 13 13-0080	EA		Up To 4" x 96" To 120" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	154.26 46.19	17.73
10 21 13 13-0081	EA		5" x 96" To 120" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	168.73 46.19	19.95
10 21 13 13-0082	EA		6" x 96" To 120" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	184.62 46.19	22.16
10 21 13 13-0083	EA		8" x 96" To 120" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	211.94 46.19	24.38
10 21 13 13-0084	EA		10" x 96" To 120" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	237.85 46.19	26.59
10 21 13 13-0085	EA		12" x 96" To 120" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	263.76 46.19	28.81
10 21 13 13-0086	EA		18" x 96" To 120" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	335.47 46.19	31.03
10 21 13 13-0087	EA		22" x 96" To 120" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	382.84 46.19	33.24
10 21 13 13-0088	EA		24" x 96" To 120" x 1-1/4", Enamel Coated Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	410.19 46.19	35.45
10 21 13 14			Stainless-Steel Toilet Compartments (10 21 13)		
10 21 13 14-0001			Stainless Steel Toilet Partitions And Urinal Screens (10 21 13 14) Note: Complete toilet partitions for corner installations. Includes 1" door, 1-1/4" pilaster, 1" separator panel, trim shoes, and standard stainless steel hardware as required. For alcove, recessed or configurations other than corner installations use either: (1) the appropriate corner unit and add individual components or (2) individual components. Individual components include trim shoes and standard stainless steel hardware as required. Constructed of type 304 stainless steel. Includes satin finish.		
10 21 13 14-0002			Stainless Steel Toilet Partitions (10 21 13 14-0001)		
10 21 13 14-0003			Floor Anchored, Stainless Steel, Complete Toilet Partitions (10 21 13 14-0002)		
10 21 13 14-0004	EA		36" x 60", Floor Anchored, Stainless Steel, One Compartment Corner Unit, Complete Toilet Partition <i>For >10, Deduct</i> <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	1,627.39 -142.79 166.70 499.78	99.73
10 21 13 14-0005	EA		60" x 60", Floor Anchored, Stainless Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	1,961.81 166.70 610.62	108.59
10 21 13 14-0006	EA		60" x 78", Floor Anchored, Stainless Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	2,054.60 166.70 640.00	113.02
10 21 13 14-0007			Overhead Braced, Stainless Steel, Complete Toilet Partitions (10 21 13 14-0002) Note: Includes headrail.		
10 21 13 14-0008	EA		36" x 60", Overhead Braced, Stainless Steel, One Compartment Corner Unit, Complete Toilet Partition <i>For >10, Deduct</i> <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	1,387.99 -114.42 166.70 400.48	121.88
10 21 13 14-0009	EA		60" x 60", Overhead Braced, Stainless Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	1,684.76 166.70 498.14	130.76
10 21 13 14-0010	EA		60" x 78", Overhead Braced, Stainless Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	1,833.91 166.70 547.24	135.18

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 14-0011			Floor And Ceiling Anchored, Stainless Steel, Complete Toilet Partitions (10 21 13 14-0002) Note: Excludes above ceiling steel.		
10 21 13 14-0012	EA		36" x 60", Floor And Ceiling Anchored, Stainless Steel, One Compartment Corner Unit, Complete Toilet Partition.....	1,915.88	144.04
			For >10, Deduct	-162.78	
			For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
			For Diamond Pattern Finish, Add	569.72	
10 21 13 14-0013	EA		60" x 60", Floor And Ceiling Anchored, Stainless Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,054.42	152.91
			For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
			For Diamond Pattern Finish, Add	612.01	
10 21 13 14-0014	EA		60" x 78", Floor And Ceiling Anchored, Stainless Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,149.89	157.34
			For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
			For Diamond Pattern Finish, Add	642.32	
10 21 13 14-0015			Ceiling Hung, Stainless Steel, Complete Toilet Partitions (10 21 13 14-0002) Note: Excludes above ceiling steel.		
10 21 13 14-0016	EA		36" x 60", Ceiling Hung, Stainless Steel, One Compartment Corner Unit, Complete Toilet Partition.....	1,923.82	166.21
			For >10, Deduct	-159.14	
			For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
			For Diamond Pattern Finish, Add	556.99	
10 21 13 14-0017	EA		60" x 60", Ceiling Hung, Stainless Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,334.28	175.07
			For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
			For Diamond Pattern Finish, Add	694.45	
10 21 13 14-0018	EA		60" x 78", Ceiling Hung, Stainless Steel, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,453.33	179.51
			For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
			For Diamond Pattern Finish, Add	733.01	
10 21 13 14-0019			Stainless Steel Urinal Screens (10 21 13 14-0001)		
10 21 13 14-0020			Floor Anchored, Stainless Steel, Urinal Screens (10 21 13 14-0019)		
10 21 13 14-0021	EA		24" x 58" x 1", Floor Anchored, Stainless Steel, Urinal Screen.....	545.02	62.03
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	147.34	
10 21 13 14-0022	EA		36" x 58" x 1", Floor Anchored, Stainless Steel, Urinal Screen.....	615.92	66.46
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	169.05	
10 21 13 14-0023	EA		48" x 58" x 1", Floor Anchored, Stainless Steel, Urinal Screen.....	629.86	70.89
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	170.83	
10 21 13 14-0024			Wall Hung, Stainless Steel, Urinal Screens (10 21 13 14-0019)		
10 21 13 14-0025	EA		18" x 42" x 1", Wall Hung, Stainless Steel, Urinal Screen.....	404.98	53.17
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	104.53	
10 21 13 14-0026	EA		24" x 42" x 1", Wall Hung, Stainless Steel, Urinal Screen.....	438.25	57.60
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	113.07	
10 21 13 14-0027	EA		30" x 42" x 1", Wall Hung, Stainless Steel, Urinal Screen.....	478.20	62.03
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	123.95	
10 21 13 14-0028			Wall Hung And Post Supported, Stainless Steel, Urinal Screens (10 21 13 14-0019)		
10 21 13 14-0029	EA		18" x 58" x 1", Wall Hung And Post Supported, Stainless Steel, Urinal Screen.....	649.68	57.60
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	187.07	
10 21 13 14-0030	EA		24" x 58" x 1", Wall Hung And Post Supported, Stainless Steel, Urinal Screen.....	681.39	62.03
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	195.07	
10 21 13 14-0031	EA		30" x 58" x 1", Wall Hung And Post Supported, Stainless Steel, Urinal Screen.....	712.95	66.46
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	203.01	
10 21 13 14-0032			Wall Hung And Overhead Braced, Stainless Steel, Urinal Screens (10 21 13 14-0019)		
10 21 13 14-0033	EA		22" x 58" x 1", Wall Hung And Overhead Braced, Stainless Steel, Urinal Screen.....	545.02	62.03
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	147.34	
10 21 13 14-0034	EA		34" x 58" x 1", Wall Hung And Overhead Braced, Stainless Steel, Urinal Screen.....	615.92	66.46
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	169.05	
10 21 13 14-0035	EA		46" x 58" x 1", Wall Hung And Overhead Braced, Stainless Steel, Urinal Screen.....	689.73	70.89
			For Heavy Gauge Full-Height SS Brackets, Add	46.19	
			For Diamond Pattern Finish, Add	191.78	
10 21 13 14-0036			Stainless Steel Toilet Partition Doors, Panels And Pilasters (10 21 13 14-0001)		
10 21 13 14-0037			Stainless Steel, Toilet Partition Doors (10 21 13 14-0036)		



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21	13 14-0038	EA	24" x 58" x 1", Stainless Steel, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For Diamond Pattern Finish, Add</i>	353.90 74.33 111.46	17.73
10 21	13 14-0039	EA	26" x 58" x 1", Stainless Steel, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For Diamond Pattern Finish, Add</i>	404.20 74.33 129.06	17.73
10 21	13 14-0040	EA	30" x 58" x 1", Stainless Steel, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For Diamond Pattern Finish, Add</i>	415.60 74.33 131.50	19.95
10 21	13 14-0041	EA	34" x 58" x 1", Stainless Steel, ADA Compliant Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For Diamond Pattern Finish, Add</i>	430.12 74.33 136.58	19.95
10 21	13 14-0042	EA	36" x 58" x 1", Stainless Steel, ADA Compliant Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For Diamond Pattern Finish, Add</i>	434.16 74.33 137.99	19.95
10 21 13 14-0043 Stainless Steel, Toilet Partition Panels (10 21 13 14-0036)					
10 21	13 14-0044	EA	6" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	308.72 46.19 89.44	26.59
10 21	13 14-0045	EA	12" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	342.66 46.19 99.76	28.81
10 21	13 14-0046	EA	18" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	357.30 46.19 103.34	31.03
10 21	13 14-0047	EA	24" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	373.86 46.19 107.58	33.24
10 21	13 14-0048	EA	30" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	401.23 46.19 115.61	35.45
10 21	13 14-0049	EA	36" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	432.95 46.19 125.16	37.68
10 21	13 14-0050	EA	42" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	505.44 46.19 148.98	39.89
10 21	13 14-0051	EA	48" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	553.01 46.19 164.08	42.10
10 21	13 14-0052	EA	55" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	567.65 46.19 167.65	44.33
10 21	13 14-0053	EA	58" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	595.53 46.19 176.79	45.21
10 21	13 14-0054	EA	60" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	632.25 46.19 188.71	46.54
10 21	13 14-0055	EA	70" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	662.46 46.19 197.73	48.75
10 21	13 14-0056	EA	78" x 58" x 1", Stainless Steel, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	726.24 46.19 218.51	50.97
10 21 13 14-0057 70" Long, Stainless Steel, Toilet Partition Pilasters (10 21 13 14-0036)					
10 21	13 14-0058	EA	Up To 4" x 70" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	212.74 46.19 65.15	13.30
10 21	13 14-0059	EA	5" x 70" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	231.94 46.19 70.32	15.51
10 21	13 14-0060	EA	6" x 70" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	252.25 46.19 75.88	17.73
10 21	13 14-0061	EA	8" x 70" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	287.34 46.19 86.61	19.95
10 21	13 14-0062	EA	10" x 70" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	322.43 46.19 97.34	22.16
10 21	13 14-0063	EA	12" x 70" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	357.49 46.19 108.06	24.38
10 21	13 14-0064	EA	18" x 70" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	452.74 46.19 139.84	26.59
10 21	13 14-0065	EA	22" x 70" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	518.47 46.19 161.30	28.81

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21	13 14-0066	EA	24" x 70" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	553.54 46.19 172.02	31.03
10 21	13 14-0067		82" Long, Stainless Steel, Toilet Partition Pilasters <small>(10 21 13 14-0036)</small>		
10 21	13 14-0068	EA	Up To 4" x 82" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	163.41 46.19 47.89	13.30
10 21	13 14-0069	EA	5" x 82" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	177.22 46.19 51.17	15.51
10 21	13 14-0070	EA	6" x 82" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	191.48 46.19 54.61	17.73
10 21	13 14-0071	EA	8" x 82" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	247.85 46.19 72.79	19.95
10 21	13 14-0072	EA	10" x 82" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	279.66 46.19 82.37	22.16
10 21	13 14-0073	EA	12" x 82" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	289.75 46.19 84.35	24.38
10 21	13 14-0074	EA	18" x 82" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	328.07 46.19 96.21	26.59
10 21	13 14-0075	EA	22" x 82" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	369.77 46.19 109.25	28.81
10 21	13 14-0076	EA	24" x 82" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	392.68 46.19 115.72	31.03
10 21	13 14-0077		96" To 120" Long, Stainless Steel, Toilet Partition Pilasters <small>(10 21 13 14-0036)</small>		
10 21	13 14-0078	EA	Up To 4" x 96" To 120" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	234.09 46.19 69.52	17.73
10 21	13 14-0079	EA	5" x 96" To 120" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	256.69 46.19 75.88	19.95
10 21	13 14-0080	EA	6" x 96" To 120" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	278.16 46.19 81.84	22.16
10 21	13 14-0081	EA	8" x 96" To 120" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	318.90 46.19 94.55	24.38
10 21	13 14-0082	EA	10" x 96" To 120" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	358.53 46.19 106.87	26.59
10 21	13 14-0083	EA	12" x 96" To 120" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	398.15 46.19 119.19	28.81
10 21	13 14-0084	EA	18" x 96" To 120" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	510.41 46.19 156.93	31.03
10 21	13 14-0085	EA	22" x 96" To 120" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	585.22 46.19 181.56	33.24
10 21	13 14-0086	EA	24" x 96" To 120" x 1-1/4", Stainless Steel, Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For Diamond Pattern Finish, Add</i>	625.98 46.19 194.27	35.45
10 21	13 16		Plastic-Laminate-Clad Toilet Compartments <small>(10 21 13)</small>		
10 21	13 16-0001		Laminated Plastic Toilet Partitions And Urinal Screens <small>(10 21 13 16)</small> Note: Complete toilet partitions for corner installations. Includes 1" door, 1" pilaster, 1" separator panel, trim shoes, and standard stainless steel hardware as required. For alcove, recessed or configurations other than corner installations use either: (1) the appropriate corner unit and add individual components or (2) individual components. Individual components include trim shoes and standard stainless steel hardware as required. Constructed of a sandwich of high pressure decorative plastic laminate bonded to a solid industrial-grade particle board.		
10 21	13 16-0002		Laminated Plastic Toilet Partitions <small>(10 21 13 16-0001)</small> Note: Includes all standard Bobrick colors.		
10 21	13 16-0003		Floor Anchored, Laminated Plastic, Complete Toilet Partitions <small>(10 21 13 16-0002)</small>		
10 21	13 16-0004	EA	36" x 60", Floor Anchored, Laminated Plastic, One Compartment Corner Unit, Complete Toilet Partition <i>For >10, Deduct</i> <i>For Cast Stainless Steel Hardware, Add</i> <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	1,012.26 -81.28 133.91 166.70	99.73



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 16-0005	EA		60" x 60", Floor Anchored, Laminated Plastic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,238.10	108.59
			<i>For Cast Stainless Steel Hardware, Add</i>	133.92	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 16-0006	EA		60" x 78", Floor Anchored, Laminated Plastic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,332.44	113.02
			<i>For Cast Stainless Steel Hardware, Add</i>	133.93	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 16-0007			Overhead Braced, Laminated Plastic, Complete Toilet Partitions (10 21 13 16-0002)		
			Note: Includes headrail.		
10 21 13 16-0008	EA		36" x 60", Overhead Braced, Laminated Plastic, One Compartment Corner Unit, Complete Toilet Partition.....	1,096.27	121.88
			<i>For >10, Deduct</i>	-85.25	
			<i>For Cast Stainless Steel Hardware, Add</i>	133.94	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 16-0009	EA		60" x 60", Overhead Braced, Laminated Plastic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,332.02	130.76
			<i>For Cast Stainless Steel Hardware, Add</i>	133.95	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 16-0010	EA		60" x 78", Overhead Braced, Laminated Plastic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,433.79	135.18
			<i>For Cast Stainless Steel Hardware, Add</i>	133.95	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 16-0011			Ceiling Hung, Laminated Plastic, Complete Toilet Partitions (10 21 13 16-0002)		
			Note: Excludes above ceiling steel.		
10 21 13 16-0012	EA		36" x 60", Ceiling Hung, Laminated Plastic, One Compartment Corner Unit, Complete Toilet Partition.....	1,465.87	166.21
			<i>For >10, Deduct</i>	-113.35	
			<i>For Cast Stainless Steel Hardware, Add</i>	133.99	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 16-0013	EA		60" x 60", Ceiling Hung, Laminated Plastic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,709.25	175.07
			<i>For Cast Stainless Steel Hardware, Add</i>	134.00	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 16-0014	EA		60" x 78", Ceiling Hung, Laminated Plastic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,803.60	179.51
			<i>For Cast Stainless Steel Hardware, Add</i>	134.01	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 16-0015			Laminated Plastic Urinal Screens (10 21 13 16-0001)		
			Note: Includes all standard Bobrick colors.		
10 21 13 16-0016			Floor Anchored, Laminated Plastic, Urinal Screens (10 21 13 16-0015)		
10 21 13 16-0017	EA		24" x 58" x 1", Floor Anchored, Laminated Plastic, Urinal Screen.....	427.19	62.03
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0018	EA		36" x 58" x 1", Floor Anchored, Laminated Plastic, Urinal Screen.....	465.79	66.46
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0019	EA		48" x 58" x 1", Floor Anchored, Laminated Plastic, Urinal Screen.....	480.48	70.89
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0020			Wall Hung, Laminated Plastic, Urinal Screens (10 21 13 16-0015)		
10 21 13 16-0021	EA		18" x 42" x 1", Wall Hung, Laminated Plastic, Urinal Screen.....	331.96	53.17
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0022	EA		24" x 42" x 1", Wall Hung, Laminated Plastic, Urinal Screen.....	349.33	57.60
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0023	EA		30" x 42" x 1", Wall Hung, Laminated Plastic, Urinal Screen.....	365.91	62.03
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0024			Wall Hung And Post Supported, Laminated Plastic, Urinal Screens (10 21 13 16-0015)		
10 21 13 16-0025	EA		18" x 58" x 1", Wall Hung And Post Supported, Laminated Plastic, Urinal Screen.....	440.22	57.60
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0026	EA		24" x 58" x 1", Wall Hung And Post Supported, Laminated Plastic, Urinal Screen.....	482.98	62.03
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0027	EA		30" x 58" x 1", Wall Hung And Post Supported, Laminated Plastic, Urinal Screen.....	529.31	66.46
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0028			Wall Hung And Overhead Braced, Laminated Plastic, Urinal Screens (10 21 13 16-0015)		
10 21 13 16-0029	EA		24" x 58" x 1", Wall Hung And Overhead Braced, Laminated Plastic, Urinal Screen.....	406.47	57.60
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0030	EA		36" x 58" x 1", Wall Hung And Overhead Braced, Laminated Plastic, Urinal Screen.....	445.91	62.03
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0031	EA		48" x 58" x 1", Wall Hung And Overhead Braced, Laminated Plastic, Urinal Screen.....	460.12	66.46
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0032			Laminated Plastic Toilet Partition Doors, Panels And Pilasters (10 21 13 16-0001)		
			Note: Includes all standard Bobrick colors.		

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 21 13 16-0033			Laminated Plastic, Toilet Partition Doors <small>(10 21 13 16-0032)</small>		
10 21 13 16-0034	EA		24" x 58" x 1", Laminated Plastic, Toilet Partition Door.....	335.94	17.73
			<i>For Heavy Gauge Full-Height SS Hinge, Add</i>	74.33	
10 21 13 16-0035	EA		26" x 58" x 1", Laminated Plastic, Toilet Partition Door.....	365.14	17.73
			<i>For Heavy Gauge Full-Height SS Hinge, Add</i>	74.33	
10 21 13 16-0036	EA		30" x 58" x 1", Laminated Plastic, Toilet Partition Door.....	377.54	19.95
			<i>For Heavy Gauge Full-Height SS Hinge, Add</i>	74.33	
10 21 13 16-0037	EA		34" x 58" x 1", Laminated Plastic, ADA Compliant Toilet Partition Door.....	386.57	19.95
			<i>For Heavy Gauge Full-Height SS Hinge, Add</i>	74.33	
10 21 13 16-0038	EA		36" x 58" x 1", Laminated Plastic, ADA Compliant Toilet Partition Door.....	395.06	19.95
			<i>For Heavy Gauge Full-Height SS Hinge, Add</i>	74.33	

10 21 13 16-0039			Laminated Plastic, Toilet Partition Panels <small>(10 21 13 16-0032)</small>		
10 21 13 16-0040	EA		6" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	171.54	26.59
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0041	EA		12" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	189.73	28.81
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0042	EA		18" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	207.92	31.03
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0043	EA		24" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	226.81	33.24
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0044	EA		30" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	244.31	35.45
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0045	EA		36" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	263.28	37.68
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0046	EA		42" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	269.33	39.89
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0047	EA		48" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	276.41	42.10
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0048	EA		55" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	290.93	44.33
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0049	EA		58" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	303.02	45.21
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0050	EA		60" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	316.59	46.54
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0051	EA		70" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	360.84	48.75
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 16-0052	EA		78" x 58" x 1", Laminated Plastic, Toilet Partition Panel.....	410.92	50.97
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	

10 21 13 16-0053			69" Long, Laminated Plastic, Toilet Partition Pilasters <small>(10 21 13 16-0032)</small>		
10 21 13 16-0054	EA		Up To 4" x 69" x 1", Laminated Plastic, Toilet Partition Pilaster.....	139.67	13.30
			<i>For 1-1/4" Pilaster, Add</i>	9.33	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
			<i>For Steel Core Pilaster, Add</i>	113.08	
10 21 13 16-0055	EA		5" x 69" x 1", Laminated Plastic, Toilet Partition Pilaster.....	161.10	15.51
			<i>For 1-1/4" Pilaster, Add</i>	10.73	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
			<i>For Steel Core Pilaster, Add</i>	130.07	
10 21 13 16-0056	EA		6" x 69" x 1", Laminated Plastic, Toilet Partition Pilaster.....	165.52	17.73
			<i>For 1-1/4" Pilaster, Add</i>	10.73	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
			<i>For Steel Core Pilaster, Add</i>	130.07	
10 21 13 16-0057	EA		8" x 69" x 1", Laminated Plastic, Toilet Partition Pilaster.....	182.70	19.95
			<i>For 1-1/4" Pilaster, Add</i>	11.78	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
			<i>For Steel Core Pilaster, Add</i>	142.81	
10 21 13 16-0058	EA		10" x 69" x 1", Laminated Plastic, Toilet Partition Pilaster.....	190.86	22.16
			<i>For 1-1/4" Pilaster, Add</i>	12.09	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
			<i>For Steel Core Pilaster, Add</i>	146.53	
10 21 13 16-0059	EA		12" x 69" x 1", Laminated Plastic, Toilet Partition Pilaster.....	207.49	24.38
			<i>For 1-1/4" Pilaster, Add</i>	13.10	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
			<i>For Steel Core Pilaster, Add</i>	158.74	
10 21 13 16-0060	EA		18" x 69" x 1", Laminated Plastic, Toilet Partition Pilaster.....	263.96	26.59
			<i>For 1-1/4" Pilaster, Add</i>	17.39	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
			<i>For Steel Core Pilaster, Add</i>	210.77	
10 21 13 16-0061	EA		22" x 69" x 1", Laminated Plastic, Toilet Partition Pilaster.....	319.35	28.81
			<i>For 1-1/4" Pilaster, Add</i>	21.59	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
			<i>For Steel Core Pilaster, Add</i>	261.73	
10 21 13 16-0062	EA		24" x 69" x 1", Laminated Plastic, Toilet Partition Pilaster.....	358.29	31.03
			<i>For 1-1/4" Pilaster, Add</i>	24.44	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
			<i>For Steel Core Pilaster, Add</i>	296.24	

10 21 13 16-0063			83" Long, Laminated Plastic, Toilet Partition Pilasters <small>(10 21 13 16-0032)</small>		
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Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21	13	16-0064	EA Up To 4" x 83" x 1", Laminated Plastic, Toilet Partition Pilaster For 1-1/4" Pilaster, Add For Heavy Gauge Full-Height SS Brackets, Add For Steel Core Pilaster, Add	273.46 20.37 46.19 246.87	13.30
10 21	13	16-0065	EA 5" x 83" x 1", Laminated Plastic, Toilet Partition Pilaster For 1-1/4" Pilaster, Add For Heavy Gauge Full-Height SS Brackets, Add For Steel Core Pilaster, Add	302.32 22.38 46.19 271.29	15.51
10 21	13	16-0066	EA 6" x 83" x 1", Laminated Plastic, Toilet Partition Pilaster For 1-1/4" Pilaster, Add For Heavy Gauge Full-Height SS Brackets, Add For Steel Core Pilaster, Add	306.74 22.38 46.19 271.29	17.73
10 21	13	16-0067	EA 8" x 83" x 1", Laminated Plastic, Toilet Partition Pilaster For 1-1/4" Pilaster, Add For Heavy Gauge Full-Height SS Brackets, Add For Steel Core Pilaster, Add	331.89 24.09 46.19 292.00	19.95
10 21	13	16-0068	EA 10" x 83" x 1", Laminated Plastic, Toilet Partition Pilaster For 1-1/4" Pilaster, Add For Heavy Gauge Full-Height SS Brackets, Add For Steel Core Pilaster, Add	362.34 26.24 46.19 318.01	22.16
10 21	13	16-0069	EA 12" x 83" x 1", Laminated Plastic, Toilet Partition Pilaster For 1-1/4" Pilaster, Add For Heavy Gauge Full-Height SS Brackets, Add For Steel Core Pilaster, Add	386.93 27.90 46.19 338.18	24.38
10 21	13	16-0070	EA 18" x 83" x 1", Laminated Plastic, Toilet Partition Pilaster For 1-1/4" Pilaster, Add For Heavy Gauge Full-Height SS Brackets, Add For Steel Core Pilaster, Add	481.37 35.32 46.19 428.18	26.59
10 21	13	16-0071	EA 22" x 83" x 1", Laminated Plastic, Toilet Partition Pilaster For 1-1/4" Pilaster, Add For Heavy Gauge Full-Height SS Brackets, Add For Steel Core Pilaster, Add	548.17 40.47 46.19 490.55	28.81
10 21	13	16-0072	EA 24" x 83" x 1", Laminated Plastic, Toilet Partition Pilaster For 1-1/4" Pilaster, Add For Heavy Gauge Full-Height SS Brackets, Add For Steel Core Pilaster, Add	562.69 41.30 46.19 500.64	31.03

10 21 13 19 Plastic Toilet Compartments (10 21 13)

10 21	13	19-0001	Recycled Solid Polymer (HDPE) Toilet Partitions And Urinal Screens (10 21 13 19) Note: Complete toilet partitions for corner installations. Includes 1" door, 1" pilaster, 1" separator panel, trim shoes, and standard stainless steel hardware as required. For alcove, recessed or configurations other than corner installations use either: (1) the appropriate corner unit and add individual components or (2) individual components. Individual components include trim shoes and standard stainless steel hardware as required. Constructed of high density polyethylene (HDPE). Includes Class B fire rating.		
10 21	13	19-0002	Recycled Solid Plastic (HDPE) Toilet Partitions (10 21 13 19-0001) Note: Includes all standard Columbia Partitions colors.		
10 21	13	19-0003	Overhead Braced, Recycled Solid Plastic (HDPE), Complete Toilet Partitions (10 21 13 19-0002) Note: Includes headrail.		
10 21	13	19-0004	EA 36" x 60", Overhead Braced, Recycled Solid Plastic (HDPE), One Compartment Corner Unit, Complete Toilet Partition For >10, Deduct For Heavy Gauge Full-Height SS Hinges And Brackets, Add For NFPA Class A, Add	1,271.24 -102.75 166.70 637.03	121.88
10 21	13	19-0005	EA 60" x 60", Overhead Braced, Recycled Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition For Heavy Gauge Full-Height SS Hinges And Brackets, Add For NFPA Class A, Add	1,559.57 166.70 804.80	130.76
10 21	13	19-0006	EA 60" x 78", Overhead Braced, Recycled Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition For Heavy Gauge Full-Height SS Hinges And Brackets, Add For NFPA Class A, Add	1,725.49 166.70 902.18	135.18
10 21	13	19-0007	Floor And Ceiling Anchored, Recycled Solid Plastic (HDPE), Complete Toilet Partitions (10 21 13 19-0002) Note: Excludes above ceiling steel.		
10 21	13	19-0008	EA 36" x 60", Floor And Ceiling Anchored, Recycled Solid Plastic (HDPE), One Compartment Corner Unit, Complete Toilet Partition For >10, Deduct For Heavy Gauge Full-Height SS Hinges And Brackets, Add For NFPA Class A, Add	1,276.64 -98.85 166.70 612.89	144.04
10 21	13	19-0009	EA 60" x 60", Floor And Ceiling Anchored, Recycled Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition For Heavy Gauge Full-Height SS Hinges And Brackets, Add For NFPA Class A, Add	1,590.11 166.70 796.25	152.91
10 21	13	19-0010	EA 60" x 78", Floor And Ceiling Anchored, Recycled Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition For Heavy Gauge Full-Height SS Hinges And Brackets, Add For NFPA Class A, Add	1,756.03 166.70 893.63	157.34

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	
10 21 13 19-0011		Ceiling Hung, Recycled Solid Plastic (HDPE), Complete Toilet Partitions <small>(10 21 13 19-0002)</small> Note: Excludes above ceiling steel.			
10 21 13 19-0012	EA	36" x 60", Ceiling Hung, Recycled Solid Plastic (HDPE), One Compartment Corner Unit, Complete Toilet Partition <i>For >10, Deduct</i> <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	1,343.38 -101.10 166.70 626.80		166.21
10 21 13 19-0013	EA	60" x 60", Ceiling Hung, Recycled Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition..... <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	1,587.66 166.70 767.26		175.07
10 21 13 19-0014	EA	60" x 78", Ceiling Hung, Recycled Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition..... <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	1,753.60 166.70 864.64		179.51
10 21 13 19-0015		Recycled Solid Plastic (HDPE) Urinal Screens <small>(10 21 13 19-0001)</small> Note: Includes all standard Columbia Partitions colors.			
10 21 13 19-0016		Wall Hung, Recycled Solid Plastic (HDPE), Urinal Screens <small>(10 21 13 19-0015)</small>			
10 21 13 19-0017	EA	18" x 42" x 1", Wall Hung, Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	303.16 46.19 122.03		53.17
10 21 13 19-0018	EA	24" x 42" x 1", Wall Hung, Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	319.79 46.19 126.85		57.60
10 21 13 19-0019		Wall Hung And Post Supported, Recycled Solid Plastic (HDPE), Urinal Screens <small>(10 21 13 19-0015)</small>			
10 21 13 19-0020	EA	18" x 42" x 1", Wall Hung And Post Supported, Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	382.75 46.19 165.88		57.60
10 21 13 19-0021	EA	24" x 42" x 1", Wall Hung And Post Supported, Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	480.78 46.19 221.17		62.03
10 21 13 19-0022	EA	30" x 42" x 1", Wall Hung And Post Supported, Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	533.55 46.19 248.39		66.46
10 21 13 19-0023		Wall Hung And Overhead Braced, Recycled Solid Plastic (HDPE), Urinal Screens <small>(10 21 13 19-0015)</small>			
10 21 13 19-0024	EA	24" x 55" x 1", Wall Hung And Overhead Braced, Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	391.61 46.19 165.88		62.03
10 21 13 19-0025	EA	36" x 55" x 1", Wall Hung And Overhead Braced, Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	489.64 46.19 221.17		66.46
10 21 13 19-0026	EA	48" x 55" x 1", Wall Hung And Overhead Braced, Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	578.83 46.19 270.97		70.89
10 21 13 19-0027		Recycled Solid Plastic (HDPE) Toilet Partition Doors, Panels And Pilasters <small>(10 21 13 19-0001)</small> Note: Includes all standard Columbia Partitions colors.			
10 21 13 19-0028		Recycled Solid Plastic (HDPE), Toilet Partition Doors <small>(10 21 13 19-0027)</small>			
10 21 13 19-0029	EA	24" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	299.91 74.33 163.97		17.73
10 21 13 19-0030	EA	26" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	323.98 74.33 178.89		17.73
10 21 13 19-0031	EA	30" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	352.31 74.33 193.70		19.95
10 21 13 19-0032	EA	34" x 55" x 1", Recycled Solid Plastic (HDPE), ADA Compliant Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	401.02 74.33 223.90		19.95
10 21 13 19-0033	EA	36" x 55" x 1", Recycled Solid Plastic (HDPE), ADA Compliant Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	412.54 74.33 231.04		19.95
10 21 13 19-0034		Recycled Solid Plastic (HDPE), Toilet Partition Panels <small>(10 21 13 19-0027)</small>			
10 21 13 19-0035	EA	6" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	111.81 46.19 36.34		26.59
10 21 13 19-0036	EA	12" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	174.86 46.19 72.69		28.81



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0037	EA		18" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	237.89 46.19 109.02	31.03
10 21 13 19-0038	EA		24" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	276.90 46.19 130.46	33.24
10 21 13 19-0039	EA		30" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	333.95 46.19 163.08	35.45
10 21 13 19-0040	EA		36" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	356.78 46.19 174.49	37.68
10 21 13 19-0041	EA		42" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	399.86 46.19 198.45	39.89
10 21 13 19-0042	EA		48" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	450.02 46.19 226.80	42.10
10 21 13 19-0043	EA		55" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	491.05 46.19 249.49	44.33
10 21 13 19-0044	EA		58" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	501.69 46.19 254.99	45.21
10 21 13 19-0045	EA		60" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	518.54 46.19 263.79	46.54
10 21 13 19-0046	EA		70" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	585.03 46.19 302.26	48.75
10 21 13 19-0047	EA		78" x 55" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	630.10 46.19 327.46	50.97
10 21 13 19-0048			82" Long, Recycled Solid Plastic (HDPE), Toilet Partition Pilasters <small>(10 21 13 19-0027)</small>		
10 21 13 19-0049	EA		Up To 4" x 82" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	139.51 46.19 70.01	13.30
10 21 13 19-0050	EA		5" x 82" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	155.27 46.19 77.03	15.51
10 21 13 19-0051	EA		6" x 82" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	169.03 46.19 82.82	17.73
10 21 13 19-0052	EA		8" x 82" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	181.82 46.19 88.00	19.95
10 21 13 19-0053	EA		10" x 82" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	204.08 46.19 99.05	22.16
10 21 13 19-0054	EA		12" x 82" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	226.32 46.19 110.09	24.38
10 21 13 19-0055	EA		18" x 82" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	308.97 46.19 158.58	26.59
10 21 13 19-0056	EA		22" x 82" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	348.97 46.19 180.64	28.81
10 21 13 19-0057	EA		24" x 82" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	379.88 46.19 197.05	31.03
10 21 13 19-0058			96" To 120", Recycled Solid Plastic (HDPE), Toilet Partition Pilasters <small>(10 21 13 19-0027)</small>		
10 21 13 19-0059	EA		Up To 4" x 96" To 120" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	170.69 46.19 83.85	17.73
10 21 13 19-0060	EA		5" x 96" To 120" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	188.01 46.19 91.83	19.95
10 21 13 19-0061	EA		6" x 96" To 120" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	207.13 46.19 100.94	22.16
10 21 13 19-0062	EA		8" x 96" To 120" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	234.50 46.19 115.17	24.38
10 21 13 19-0063	EA		10" x 96" To 120" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	262.15 46.19 129.56	26.59
10 21 13 19-0064	EA		12" x 96" To 120" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	289.53 46.19 143.78	28.81

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0065	EA	18" x 96" To 120" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	369.60 46.19 190.68	31.03
10 21 13 19-0066	EA	22" x 96" To 120" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	413.18 46.19 214.95	33.24
10 21 13 19-0067	EA	24 x 96" To 120" x 1", Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	449.14 46.19 234.50	35.45
10 21 13 19-0068		Antimicrobial Recycled Solid Polymer (HDPE) Toilet Partitions And Urinal Screens <small>(10 21 13 19)</small> Note: Complete toilet partitions for corner installations. Includes 1" door, 1" pilaster, 1" separator panel, trim shoes, and hardware as required. For alcove, recessed or configurations other than corner installations use either: (1) the appropriate corner unit and add individual components or (2) individual components. Individual components include trim shoes and hardware as required. Constructed of high density polyethylene (HDPE). Includes Class B fire rating.		
10 21 13 19-0069		Antimicrobial Recycled Solid Plastic (HDPE) Toilet Partitions <small>(10 21 13 19-0068)</small> Note: Includes all standard Columbia Partitions colors.		
10 21 13 19-0070		Overhead Braced, Antimicrobial Recycled Solid Plastic (HDPE), Complete Toilet Partitions <small>(10 21 13 19-0069)</small> Note: Includes headrail.		
10 21 13 19-0071	EA	36" x 60", Overhead Braced, Antimicrobial Solid Plastic (HDPE), One Compartment Corner Unit, Complete Toilet Partition..... <i>For >10, Deduct</i> <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	1,630.85 -138.71 166.70 859.99	121.88
10 21 13 19-0072	EA	60" x 60", Overhead Braced, Antimicrobial Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition..... <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	2,013.90 166.70 1,086.49	130.76
10 21 13 19-0073	EA	60" x 78", Overhead Braced, Antimicrobial Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition..... <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	2,234.79 166.70 1,217.95	135.18
10 21 13 19-0074		Floor And Ceiling Anchored, Antimicrobial Recycled Solid Plastic (HDPE), Complete Toilet Partitions <small>(10 21 13 19-0069)</small> Note: Excludes above ceiling steel.		
10 21 13 19-0075	EA	36" x 60", Floor And Ceiling Anchored, Antimicrobial Solid Plastic (HDPE), One Compartment Corner Unit, Complete Toilet Partition..... <i>For >10, Deduct</i> <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	1,622.64 -133.45 166.70 827.41	144.04
10 21 13 19-0076	EA	60" x 60", Floor And Ceiling Anchored, Antimicrobial Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition..... <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	2,039.60 166.70 1,074.94	152.91
10 21 13 19-0077	EA	60" x 78", Floor And Ceiling Anchored, Antimicrobial Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition..... <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	2,260.49 166.70 1,206.40	157.34
10 21 13 19-0078		Ceiling Hung, Antimicrobial Recycled Solid Plastic (HDPE), Complete Toilet Partitions <small>(10 21 13 19-0069)</small> Note: Excludes above ceiling steel.		
10 21 13 19-0079	EA	36" x 60", Ceiling Hung, Antimicrobial Solid Plastic (HDPE), One Compartment Corner Unit, Complete Toilet Partition..... <i>For >10, Deduct</i> <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	1,697.22 -136.48 166.70 846.18	166.21
10 21 13 19-0080	EA	60" x 60", Ceiling Hung, Antimicrobial Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition..... <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	2,020.78 166.70 1,035.80	175.07
10 21 13 19-0081	EA	60" x 78", Ceiling Hung, Antimicrobial Solid Plastic (HDPE), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition..... <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i> <i>For NFPA Class A, Add</i>	2,241.69 166.70 1,167.26	179.51
10 21 13 19-0082		Antimicrobial Recycled Solid Plastic (HDPE) Urinal Screens <small>(10 21 13 19-0068)</small> Note: Includes all standard Columbia Partitions colors.		
10 21 13 19-0083		Wall Hung, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screens <small>(10 21 13 19-0082)</small>		
10 21 13 19-0084	EA	18" x 42" x 1", Wall Hung, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screen..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	372.05 46.19 164.75	53.17



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21	13 19-0085	EA	24" x 42" x 1", Wall Hung, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screen..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	388.86 46.19 169.67	57.60
10 21	13 19-0086		Wall Hung And Post Supported, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screens <small>(10 21 13 19-0082)</small>		
10 21	13 19-0087	EA	18" x 42" x 1", Wall Hung And Post Supported, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screen..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	596.76 46.19 298.57	57.60
10 21	13 19-0088	EA	24" x 42" x 1", Wall Hung And Post Supported, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screen..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	678.06 46.19 343.48	62.03
10 21	13 19-0089	EA	30" x 42" x 1", Wall Hung And Post Supported, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screen..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	722.94 46.19 365.81	66.46
10 21	13 19-0090		Wall Hung And Overhead Braced, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screens <small>(10 21 13 19-0082)</small>		
10 21	13 19-0091	EA	24" x 55" x 1", Wall Hung And Overhead Braced, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	485.24 46.19 223.93	62.03
10 21	13 19-0092	EA	36" x 55" x 1", Wall Hung And Overhead Braced, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	614.48 46.19 298.57	66.46
10 21	13 19-0093	EA	48" x 55" x 1", Wall Hung And Overhead Braced, Antimicrobial Recycled Solid Plastic (HDPE), Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	731.80 46.19 365.81	70.89
10 21	13 19-0094		Antimicrobial Recycled Solid Plastic (HDPE) Toilet Partition Doors, Panels And Pilasters <small>(10 21 13 19-0068)</small> Note: Includes all standard Columbia Partitions colors.		
10 21	13 19-0095		Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Doors <small>(10 21 13 19-0094)</small>		
10 21	13 19-0096	EA	24" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	392.47 74.33 221.35	17.73
10 21	13 19-0097	EA	26" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	424.98 74.33 241.51	17.73
10 21	13 19-0098	EA	30" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	461.65 74.33 261.49	19.95
10 21	13 19-0099	EA	34" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), ADA Compliant Toilet Partition Door..... <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	527.41 74.33 302.26	19.95
10 21	13 19-0100	EA	36" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), ADA Compliant Toilet Partition Door..... <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	542.97 74.33 311.91	19.95
10 21	13 19-0101		Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panels <small>(10 21 13 19-0094)</small>		
10 21	13 19-0102	EA	6" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	132.32 46.19 49.06	26.59
10 21	13 19-0103	EA	12" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	215.89 46.19 98.13	28.81
10 21	13 19-0104	EA	18" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	299.45 46.19 147.19	31.03
10 21	13 19-0105	EA	24" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	350.54 46.19 176.12	33.24
10 21	13 19-0106	EA	30" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	426.00 46.19 220.15	35.45
10 21	13 19-0107	EA	36" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	455.27 46.19 235.55	37.68
10 21	13 19-0108	EA	42" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	511.89 46.19 267.91	39.89
10 21	13 19-0109	EA	48" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	578.06 46.19 306.18	42.10
10 21	13 19-0110	EA	55" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	631.90 46.19 336.82	44.33

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0111	EA		58" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	645.64 46.19 344.24	45.21
10 21 13 19-0112	EA		60" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	667.45 46.19 356.11	46.54
10 21 13 19-0113	EA		70" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	755.68 46.19 408.07	48.75
10 21 13 19-0114	EA		78" x 55" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Panel..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	814.95 46.19 442.07	50.97
10 21 13 19-0115			82" Long, Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilasters <small>(10 21 13 19-0094)</small>		
10 21 13 19-0116	EA		Up To 4" x 82" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	179.03 46.19 94.51	13.30
10 21 13 19-0117	EA		5" x 82" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	198.75 46.19 103.99	15.51
10 21 13 19-0118	EA		6" x 82" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	215.78 46.19 111.80	17.73
10 21 13 19-0119	EA		8" x 82" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	248.91 46.19 129.59	19.95
10 21 13 19-0120	EA		10" x 82" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	279.62 46.19 145.88	22.16
10 21 13 19-0121	EA		12" x 82" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	310.26 46.19 162.14	24.38
10 21 13 19-0122	EA		18" x 82" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	398.50 46.19 214.09	26.59
10 21 13 19-0123	EA		22" x 82" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	450.95 46.19 243.86	28.81
10 21 13 19-0124	EA		24" x 82" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	491.12 46.19 266.02	31.03
10 21 13 19-0125			96" To 120", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilasters <small>(10 21 13 19-0094)</small>		
10 21 13 19-0126	EA		Up To 4" x 96" To 120" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	218.03 46.19 113.20	17.73
10 21 13 19-0127	EA		5" x 96" To 120" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	239.85 46.19 123.98	19.95
10 21 13 19-0128	EA		6" x 96" To 120" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	264.13 46.19 136.28	22.16
10 21 13 19-0129	EA		8" x 96" To 120" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	299.53 46.19 155.48	24.38
10 21 13 19-0130	EA		10" x 96" To 120" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	335.29 46.19 174.90	26.59
10 21 13 19-0131	EA		12" x 96" To 120" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	370.69 46.19 194.10	28.81
10 21 13 19-0132	EA		18" x 96" To 120" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	477.26 46.19 257.43	31.03
10 21 13 19-0133	EA		22" x 96" To 120" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster..... <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	534.52 46.19 290.18	33.24
10 21 13 19-0134	EA		24" x 96" To 120" x 1", Antimicrobial Recycled Solid Plastic (HDPE), Toilet Partition Pilaster <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	581.51 46.19 316.57	35.45
10 21 13 19-0135			Solid Phenolic Toilet Partitions And Urinal Screens <small>(10 21 13 19)</small>		
<p>Note: Complete toilet partitions for corner installations. Includes 3/4" door, 3/4" pilaster, 1/2" separator panel, trim shoes, and standard stainless steel hardware as required. For alcove, recessed or configurations other than corner installations use either: (1) the appropriate corner unit and add individual components or (2) individual components. Individual components include trim shoes and standard stainless steel hardware as required. Constructed of solid phenolic (resin impregnated kraft paper) core with a high pressure decorative matte surface finish as an integral part of the core material. Includes Class B fire rating.</p>					



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0136 Solid Phenolic Toilet Partitions <small>(10 21 13 19-0135)</small> Note: Includes all standard Bobrick colors.		
10 21 13 19-0137 Floor Anchored, Solid Phenolic, Complete Toilet Partitions <small>(10 21 13 19-0136)</small>		
10 21 13 19-0138 EA 36" x 60", Floor Anchored, Solid Phenolic, One Compartment Corner Unit, Complete Toilet Partition.....	1,536.79	99.73
For >10, Deduct	-133.73	
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	290.81	
10 21 13 19-0139 EA 60" x 60", Floor Anchored, Solid Phenolic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	1,887.92	108.59
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	361.71	
10 21 13 19-0140 EA 60" x 78", Floor Anchored, Solid Phenolic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,108.09	113.02
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	406.53	
10 21 13 19-0141 Overhead Braced, Solid Phenolic, Complete Toilet Partitions <small>(10 21 13 19-0136)</small> Note: Includes headrail.		
10 21 13 19-0142 EA 36" x 60", Overhead Braced, Solid Phenolic, One Compartment Corner Unit, Complete Toilet Partition.....	1,706.12	121.88
For >10, Deduct	-146.24	
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	319.28	
10 21 13 19-0143 EA 60" x 60", Overhead Braced, Solid Phenolic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,071.21	130.76
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	393.11	
10 21 13 19-0144 EA 60" x 78", Overhead Braced, Solid Phenolic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,302.01	135.18
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	440.16	
10 21 13 19-0145 Floor And Ceiling Anchored, Solid Phenolic, Complete Toilet Partitions <small>(10 21 13 19-0136)</small> Note: Excludes above ceiling steel.		
10 21 13 19-0146 EA 36" x 60", Floor And Ceiling Anchored, Solid Phenolic, One Compartment Corner Unit, Complete Toilet Partition.....	1,761.88	144.04
For >10, Deduct	-147.38	
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	323.90	
10 21 13 19-0147 EA 60" x 60", Floor And Ceiling Anchored, Solid Phenolic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,124.37	152.91
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	397.18	
10 21 13 19-0148 EA 60" x 78", Floor And Ceiling Anchored, Solid Phenolic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,344.53	157.34
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	442.00	
10 21 13 19-0149 Ceiling Hung, Solid Phenolic, Complete Toilet Partitions <small>(10 21 13 19-0136)</small> Note: Excludes above ceiling steel.		
10 21 13 19-0150 EA 36" x 60", Ceiling Hung, Solid Phenolic, One Compartment Corner Unit, Complete Toilet Partition.....	1,737.99	166.21
For >10, Deduct	-140.56	
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	311.79	
10 21 13 19-0151 EA 60" x 60", Ceiling Hung, Solid Phenolic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,088.86	175.07
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	382.64	
10 21 13 19-0152 EA 60" x 78", Ceiling Hung, Solid Phenolic, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,309.04	179.51
For Heavy Gauge Full-Height SS Hinges And Brackets, Add	166.70	
For NFPA Class A, Add	427.46	
10 21 13 19-0153 Solid Phenolic Urinal Screens <small>(10 21 13 19-0135)</small> Note: Includes all standard Bobrick colors.		
10 21 13 19-0154 Floor Anchored, Solid Phenolic, Urinal Screens <small>(10 21 13 19-0153)</small>		
10 21 13 19-0155 EA 24" x 58" x 1/2", Floor Anchored, Solid Phenolic, Urinal Screen.....	559.93	62.03
For Heavy Gauge Full-Height SS Brackets, Add	46.19	
For NFPA Class A, Add	97.74	
10 21 13 19-0156 EA 36" x 58" x 1/2", Floor Anchored, Solid Phenolic, Urinal Screen.....	633.03	66.46
For Heavy Gauge Full-Height SS Brackets, Add	46.19	
For NFPA Class A, Add	111.67	
10 21 13 19-0157 EA 48" x 58" x 1/2", Floor Anchored, Solid Phenolic, Urinal Screen.....	759.22	70.89
For Heavy Gauge Full-Height SS Brackets, Add	46.19	
For NFPA Class A, Add	136.75	
10 21 13 19-0158 Wall Hung, Solid Phenolic, Urinal Screens <small>(10 21 13 19-0153)</small>		
10 21 13 19-0159 EA 18" x 42" x 1/2", Wall Hung, Solid Phenolic, Urinal Screen.....	357.98	53.17
For Heavy Gauge Full-Height SS Brackets, Add	46.19	
For NFPA Class A, Add	58.16	

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0160	EA		24" x 42" x 1/2", Wall Hung, Solid Phenolic, Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	414.63 46.19 68.64	57.60
10 21 13 19-0161	EA		30" x 42" x 1/2", Wall Hung, Solid Phenolic, Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	498.41 46.19 84.82	62.03
10 21 13 19-0162			Wall Hung And Post Supported, Solid Phenolic, Urinal Screens (10 21 13 19-0153)		
10 21 13 19-0163	EA		18" x 58" x 1/2", Wall Hung And Post Supported, Solid Phenolic, Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	363.58 46.19 57.92	57.60
10 21 13 19-0164	EA		24" x 58" x 1/2", Wall Hung And Post Supported, Solid Phenolic, Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	455.21 46.19 75.74	62.03
10 21 13 19-0165	EA		30" x 58" x 1/2", Wall Hung And Post Supported, Solid Phenolic, Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	532.16 46.19 90.49	66.46
10 21 13 19-0166			Wall Hung And Overhead Braced, Solid Phenolic, Urinal Screens (10 21 13 19-0153)		
10 21 13 19-0167	EA		22" x 58" x 1/2", Wall Hung And Overhead Braced, Solid Phenolic, Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	576.19 46.19 102.57	57.60
10 21 13 19-0168	EA		36" x 58" x 1/2", Wall Hung And Overhead Braced, Solid Phenolic, Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	649.74 46.19 116.60	62.03
10 21 13 19-0169	EA		48" x 58" x 1/2", Wall Hung And Overhead Braced, Solid Phenolic, Urinal Screen <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	778.32 46.19 142.18	66.46
10 21 13 19-0170			Solid Phenolic Toilet Partition Doors, Panels And Pilasters (10 21 13 19-0135) Note: Includes all standard Bobrick colors.		
10 21 13 19-0171			Solid Phenolic, Toilet Partition Doors (10 21 13 19-0170)		
10 21 13 19-0172	EA		24" x 58" x 3/4", Solid Phenolic, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	416.64 74.33 81.82	17.73
10 21 13 19-0173	EA		26" x 58" x 3/4", Solid Phenolic, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	430.97 74.33 84.83	17.73
10 21 13 19-0174	EA		30" x 58" x 3/4", Solid Phenolic, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	472.19 74.33 92.78	19.95
10 21 13 19-0175	EA		34" x 58" x 3/4", Solid Phenolic, ADA Compliant Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	509.57 74.33 100.63	19.95
10 21 13 19-0176	EA		36" x 58" x 3/4", Solid Phenolic, ADA Compliant Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i> <i>For NFPA Class A, Add</i>	547.96 74.33 108.69	19.95
10 21 13 19-0177			Solid Phenolic, Toilet Partition Panels (10 21 13 19-0170)		
10 21 13 19-0178	EA		6" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	132.63 46.19 19.34	26.59
10 21 13 19-0179	EA		12" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	176.75 46.19 27.90	28.81
10 21 13 19-0180	EA		18" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	240.73 46.19 40.63	31.03
10 21 13 19-0181	EA		24" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	305.38 46.19 53.49	33.24
10 21 13 19-0182	EA		30" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	340.53 46.19 60.16	35.45
10 21 13 19-0183	EA		36" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	377.43 46.19 67.20	37.68
10 21 13 19-0184	EA		42" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	440.39 46.19 79.72	39.89
10 21 13 19-0185	EA		48" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	505.22 46.19 92.62	42.10
10 21 13 19-0186	EA		55" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	538.84 46.19 98.97	44.33
10 21 13 19-0187	EA		58" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	553.89 46.19 101.85	45.21



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13	19-0188	EA	60" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	564.52 46.19 103.66	46.54
10 21 13	19-0189	EA	70" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	649.65 46.19 120.82	48.75
10 21 13	19-0190	EA	78" x 58" x 1/2", Solid Phenolic, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	784.68 46.19 148.47	50.97
10 21 13	19-0191		69" Long, Solid Phenolic, Toilet Partition Pilasters <small>(10 21 13 19-0170)</small>		
10 21 13	19-0192	EA	Up To 4" x 69" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	198.07 21.44 46.19 37.34	13.30
10 21 13	19-0193	EA	5" x 69" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	227.99 24.62 46.19 42.91	15.51
10 21 13	19-0194	EA	6" x 69" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	232.41 24.62 46.19 43.13	17.73
10 21 13	19-0195	EA	8" x 69" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	269.24 28.67 46.19 50.16	19.95
10 21 13	19-0196	EA	10" x 69" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	302.88 32.32 46.19 56.51	22.16
10 21 13	19-0197	EA	12" x 69" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	336.50 35.97 46.19 62.87	24.38
10 21 13	19-0198	EA	16" x 69" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	430.66 47.18 46.19 81.93	26.59
10 21 13	19-0199	EA	20" x 69" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	529.06 58.93 46.19 101.88	28.81
10 21 13	19-0200	EA	24" x 69" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	555.79 61.72 46.19 106.79	31.03
10 21 13	19-0201		83" Long, Solid Phenolic, Toilet Partition Pilasters <small>(10 21 13 19-0170)</small>		
10 21 13	19-0202	EA	Up To 4" x 83" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	217.18 23.82 46.19 41.35	13.30
10 21 13	19-0203	EA	5" x 83" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	254.54 27.94 46.19 48.49	15.51
10 21 13	19-0204	EA	6" x 83" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	258.96 27.94 46.19 48.71	17.73
10 21 13	19-0205	EA	8" x 83" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	300.03 32.52 46.19 56.62	19.95
10 21 13	19-0206	EA	10" x 83" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	338.98 36.83 46.19 64.09	22.16
10 21 13	19-0207	EA	12" x 83" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	378.18 41.18 46.19 71.62	24.38
10 21 13	19-0208	EA	16" x 83" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	492.78 54.95 46.19 94.97	26.59
10 21 13	19-0209	EA	20" x 83" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	587.20 66.20 46.19 114.09	28.81

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0210	EA		24" x 83" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	617.65 69.45 46.19 119.78	31.03
10 21 13 19-0211			96" To 120" Long, Solid Phenolic, Toilet Partition Pilasters (10 21 13 19-0170)		
10 21 13 19-0212	EA		Up To 4" x 96" To 120" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	245.16 26.21 46.19 45.81	17.73
10 21 13 19-0213	EA		5" x 96" To 120" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	289.94 31.26 46.19 54.51	19.95
10 21 13 19-0214	EA		6" x 96" To 120" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	294.38 31.26 46.19 54.73	22.16
10 21 13 19-0215	EA		8" x 96" To 120" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	339.68 36.37 46.19 63.53	24.38
10 21 13 19-0216	EA		10" x 96" To 120" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	383.94 41.34 46.19 72.12	26.59
10 21 13 19-0217	EA		12" x 96" To 120" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	428.72 46.39 46.19 80.81	28.81
10 21 13 19-0218	EA		16" x 96" To 120" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	563.75 62.71 46.19 108.46	31.03
10 21 13 19-0219	EA		20" x 96" To 120" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	654.19 73.46 46.19 126.74	33.24
10 21 13 19-0220	EA		24" x 96" To 120" x 3/4", Solid Phenolic, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i> <i>For NFPA Class A, Add</i>	688.36 77.18 46.19 133.21	35.45
10 21 13 19-0221			Solid Color Reinforced Composite Toilet Partitions And Urinal Screens (10 21 13 19-0221) <i>Note: Complete toilet partitions for corner installations. Includes 3/4" door, 3/4" pilaster, 1/2" separator panel, trim shoes, and standard stainless steel hardware as required. For alcove, recessed or configurations other than corner installations use either: (1) the appropriate corner unit and add individual components or (2) individual components. Individual components include trim shoes and standard stainless steel hardware as required. Constructed of solid color reinforced composite core with a high pressure decorative matte surface finish as an integral part of the core material.</i>		
10 21 13 19-0222			Solid Color Reinforced Composite Toilet Partitions (10 21 13 19-0221) <i>Note: Includes all standard Bobrick colors.</i>		
10 21 13 19-0223			Floor Anchored, Solid Color Reinforced Composite, Complete Toilet Partitions (10 21 13 19-0222)		
10 21 13 19-0224	EA		36" x 60", Floor Anchored, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete Toilet Partition <i>For >10, Deduct</i> <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	1,697.27 -149.78 166.70	99.73
10 21 13 19-0225	EA		60" x 60", Floor Anchored, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	2,088.41 166.70	108.59
10 21 13 19-0226	EA		60" x 78", Floor Anchored, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	2,333.94 166.70	113.02
10 21 13 19-0227			Overhead Braced, Solid Color Reinforced Composite, Complete Toilet Partitions (10 21 13 19-0222) <i>Note: Includes headrail.</i>		
10 21 13 19-0228	EA		36" x 60", Overhead Braced, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete Toilet Partition <i>For >10, Deduct</i> <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	1,881.61 -163.78 166.70	121.88
10 21 13 19-0229	EA		60" x 60", Overhead Braced, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	2,288.38 166.70	130.76
10 21 13 19-0230	EA		60" x 78", Overhead Braced, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition <i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	2,545.81 166.70	135.18



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0231 Floor And Ceiling Anchored, Solid Color Reinforced Composite, Complete Toilet Partitions <small>(10 21 13 19-0222)</small> Note: Excludes above ceiling steel.		
10 21 13 19-0232 EA 36" x 60", Floor And Ceiling Anchored, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete Toilet Partition.....	1,938.73	144.04
<i>For >10, Deduct</i>	-165.06	
<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0233 EA 60" x 60", Floor And Ceiling Anchored, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition	2,342.60	152.91
<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0234 EA 60" x 78", Floor And Ceiling Anchored, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition	2,588.11	157.34
<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0235 Ceiling Hung, Solid Color Reinforced Composite, Complete Toilet Partitions <small>(10 21 13 19-0222)</small> Note: Excludes above ceiling steel.		
10 21 13 19-0236 EA 36" x 60", Ceiling Hung, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete Toilet Partition.....	1,906.66	166.21
<i>For >10, Deduct</i>	-157.42	
<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0237 EA 60" x 60", Ceiling Hung, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,297.50	175.07
<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0238 EA 60" x 78", Ceiling Hung, Solid Color Reinforced Composite, One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	2,543.04	179.51
<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0239 Solid Color Reinforced Composite Urinal Screens <small>(10 21 13 19-0221)</small> Note: Includes all standard Bobrick colors.		
10 21 13 19-0240 Floor Anchored, Solid Color Reinforced Composite, Toilet Partition Urinal Screens <small>(10 21 13 19-0239)</small>		
10 21 13 19-0241 EA 24" x 58" x 1/2", Floor Anchored, Solid Color Reinforced Composite, Toilet Partition Urinal Screen.....	612.23	62.03
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0242 EA 36" x 58" x 1/2", Floor Anchored, Solid Color Reinforced Composite, Toilet Partition Urinal Screen.....	693.04	66.46
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0243 EA 48" x 58" x 1/2", Floor Anchored, Solid Color Reinforced Composite, Toilet Partition Urinal Screen.....	833.31	70.89
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0244 Wall Hung, Solid Color Reinforced Composite, Toilet Partition Urinal Screens <small>(10 21 13 19-0239)</small>		
10 21 13 19-0245 EA 18" x 42" x 1/2", Wall Hung, Solid Color Reinforced Composite, Toilet Partition Urinal Screen.....	388.17	53.17
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0246 EA 24" x 42" x 1/2", Wall Hung, Solid Color Reinforced Composite, Toilet Partition Urinal Screen.....	450.56	57.60
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0247 EA 30" x 42" x 1/2", Wall Hung, Solid Color Reinforced Composite, Toilet Partition Urinal Screen.....	543.33	62.03
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0248 Wall Hung And Post Supported, Solid Color Reinforced Composite, Toilet Partition Urinal Screens <small>(10 21 13 19-0239)</small>		
10 21 13 19-0249 EA 18" x 58" x 1/2", Wall Hung And Post Supported, Solid Color Reinforced Composite, Toilet Partition Urinal Screen.....	393.38	57.60
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0250 EA 24" x 58" x 1/2", Wall Hung And Post Supported, Solid Color Reinforced Composite, Toilet Partition Urinal Screen.....	494.95	62.03
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0251 EA 30" x 58" x 1/2", Wall Hung And Post Supported, Solid Color Reinforced Composite, Toilet Partition Urinal Screen.....	580.07	66.46
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0252 Wall Hung And Overhead Braced, Solid Color Reinforced Composite, Toilet Partition Urinal Screens <small>(10 21 13 19-0239)</small>		
10 21 13 19-0253 EA 22" x 58" x 1/2", Wall Hung And Overhead Braced, Solid Color Reinforced Composite, Toilet Partition Urinal Screen	631.51	57.60
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0254 EA 36" x 58" x 1/2", Wall Hung And Overhead Braced, Solid Color Reinforced Composite, Toilet Partition Urinal Screen	712.82	62.03
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0255 EA 48" x 58" x 1/2", Wall Hung And Overhead Braced, Solid Color Reinforced Composite, Toilet Partition Urinal Screen	855.77	66.46
<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0256 Solid Color Reinforced Composite Toilet Partition Doors, Panels And Pilasters <small>(10 21 13 19-0221)</small> Note: Includes all standard Bobrick colors. See CSI section 10 21 13 43-0001 for other accessories.		
10 21 13 19-0257 Solid Color Reinforced Composite, Toilet Partition Doors <small>(10 21 13 19-0256)</small>		

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0258	EA		24" x 58" x 3/4", Solid Color Reinforced Composite, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i>	462.38 74.33	17.73
10 21 13 19-0259	EA		26" x 58" x 3/4", Solid Color Reinforced Composite, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i>	478.43 74.33	17.73
10 21 13 19-0260	EA		30" x 58" x 3/4", Solid Color Reinforced Composite, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i>	524.07 74.33	19.95
10 21 13 19-0261	EA		34" x 58" x 3/4", Solid Color Reinforced Composite, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i>	565.93 74.33	19.95
10 21 13 19-0262	EA		36" x 58" x 3/4", Solid Color Reinforced Composite, Toilet Partition Door <i>For Heavy Gauge Full-Height SS Hinge, Add</i>	608.93 74.33	19.95
10 21 13 19-0263			Solid Color Reinforced Composite, Toilet Partition Panels <small>(10 21 13 19-0266)</small>		
10 21 13 19-0264	EA		6" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	142.17 46.19	26.59
10 21 13 19-0265	EA		12" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	191.05 46.19	28.81
10 21 13 19-0266	EA		18" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	262.17 46.19	31.03
10 21 13 19-0267	EA		24" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	334.05 46.19	33.24
10 21 13 19-0268	EA		30" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	372.89 46.19	35.45
10 21 13 19-0269	EA		36" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	413.68 46.19	37.68
10 21 13 19-0270	EA		42" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	483.66 46.19	39.89
10 21 13 19-0271	EA		48" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	555.74 46.19	42.10
10 21 13 19-0272	EA		55" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	592.87 46.19	44.33
10 21 13 19-0273	EA		58" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	609.50 46.19	45.21
10 21 13 19-0274	EA		60" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	621.09 46.19	46.54
10 21 13 19-0275	EA		70" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	715.90 46.19	48.75
10 21 13 19-0276	EA		78" x 58" x 1/2", Solid Color Reinforced Composite, Toilet Partition Panel <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	866.61 46.19	50.97
10 21 13 19-0277			69" Long, Solid Color Reinforced Composite, Toilet Partition Pilasters <small>(10 21 13 19-0256)</small>		
10 21 13 19-0278	EA		Up To 4" x 69" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	218.65 24.01 46.19	13.30
10 21 13 19-0279	EA		5" x 69" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	251.63 27.58 46.19	15.51
10 21 13 19-0280	EA		6" x 69" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	256.05 27.58 46.19	17.73
10 21 13 19-0281	EA		8" x 69" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	296.76 32.11 46.19	19.95
10 21 13 19-0282	EA		10" x 69" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	333.90 36.20 46.19	22.16
10 21 13 19-0283	EA		12" x 69" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	371.03 40.29 46.19	24.38
10 21 13 19-0284	EA		16" x 69" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	475.96 52.85 46.19	26.59
10 21 13 19-0285	EA		20" x 69" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	585.63 66.00 46.19	28.81
10 21 13 19-0286	EA		24" x 69" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	615.04 69.12 46.19	31.03
10 21 13 19-0287			83" Long, Solid Color Reinforced Composite, Toilet Partition Pilasters <small>(10 21 13 19-0256)</small>		
10 21 13 19-0288	EA		Up To 4" x 83" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	240.05 26.68 46.19	13.30
10 21 13 19-0289	EA		5" x 83" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	281.36 31.29 46.19	15.51
10 21 13 19-0290	EA		6" x 83" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	285.78 31.29 46.19	17.73



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0291	EA		8" x 83" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	331.25 36.42 46.19	19.95
10 21 13 19-0292	EA		10" x 83" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	374.34 41.25 46.19	22.16
10 21 13 19-0293	EA		12" x 83" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	417.72 46.12 46.19	24.38
10 21 13 19-0294	EA		16" x 83" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	545.53 61.54 46.19	26.59
10 21 13 19-0295	EA		20" x 83" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	650.75 74.14 46.19	28.81
10 21 13 19-0296	EA		24" x 83" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	684.32 77.78 46.19	31.03
10 21 13 19-0297			96" To 120" Long, Solid Color Reinforced Composite, Toilet Partition Pilasters <small>(10 21 13 19-0296)</small>		
10 21 13 19-0298	EA		Up To 4" x 96" To 120" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	270.32 29.36 46.19	17.73
10 21 13 19-0299	EA		5" x 96" To 120" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	319.95 35.01 46.19	19.95
10 21 13 19-0300	EA		6" x 96" To 120" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	324.39 35.01 46.19	22.16
10 21 13 19-0301	EA		8" x 96" To 120" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	374.60 40.73 46.19	24.38
10 21 13 19-0302	EA		10" x 96" To 120" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	423.63 46.31 46.19	26.59
10 21 13 19-0303	EA		12" x 96" To 120" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	473.25 51.95 46.19	28.81
10 21 13 19-0304	EA		16" x 96" To 120" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	623.95 70.24 46.19	31.03
10 21 13 19-0305	EA		20" x 96" To 120" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	724.71 82.28 46.19	33.24
10 21 13 19-0306	EA		24" x 96" To 120" x 3/4", Solid Color Reinforced Composite, Toilet Partition Pilaster <i>For 1" Pilaster, Add</i>	762.45 86.44 46.19	35.45
10 21 13 19-0307			Solid Polyester (Corian) Toilet Partitions And Urinal Screens <small>(10 21 13 19)</small> Note: Complete toilet partitions for corner installations. Includes 1/2" door (1" at edge), 1" pilaster, 1/2" separator panel, trim shoes, and standard stainless steel hardware as required. For alcove, recessed or configurations other than corner installations use either: (1) the appropriate corner unit and add individual components or (2) individual components. Individual components include trim shoes and standard stainless steel hardware as required. Produced or cast by combining unsaturated polyester resin with a combination of fillers, pigments and catalysts.		
10 21 13 19-0308			Solid Polyester (Corian) Toilet Partitions <small>(10 21 13 19-0307)</small> Note: Small particulate finish.		
10 21 13 19-0309			Floor Anchored, Solid Polyester (Corian), Complete Toilet Partitions <small>(10 21 13 19-0308)</small>		
10 21 13 19-0310	EA		36" x 60", Floor Anchored, Solid Polyester (Corian), One Compartment Corner Unit, Complete Toilet Partition <i>For >10, Deduct</i>	2,908.81 -270.94 -623.15 166.70	99.73
10 21 13 19-0311	EA		60" x 60", Floor Anchored, Solid Polyester (Corian), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition <i>For Solid Color Material (No Particulate), Deduct</i>	3,509.15 -757.15 166.70	108.59
10 21 13 19-0312	EA		60" x 78", Floor Anchored, Solid Polyester (Corian), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition <i>For Solid Color Material (No Particulate), Deduct</i>	3,889.23 -842.53 166.70	113.02
10 21 13 19-0313			Overhead Braced, Solid Polyester (Corian), Complete Toilet Partitions <small>(10 21 13 19-0308)</small>		
10 21 13 19-0314	EA		36" x 60", Overhead Braced, Solid Polyester (Corian), One Compartment Corner Unit, Complete Toilet Partition <i>For >10, Deduct</i>	3,026.93 -278.32 -640.13 166.70	121.88

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0315	EA		60" x 60", Overhead Braced, Solid Polyester (Corian), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	3,967.62	130.76
			<i>For Solid Color Material (No Particulate), Deduct</i>	-852.41	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0316	EA		60" x 78", Overhead Braced, Solid Polyester (Corian), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	4,389.26	135.18
			<i>For Solid Color Material (No Particulate), Deduct</i>	-947.35	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0317			Floor And Ceiling Anchored, Solid Polyester (Corian), Complete Toilet Partitions <small>(10 21 13 19-0308)</small>		
			Note: Excludes above ceiling steel.		
10 21 13 19-0318	EA		36" x 60", Floor And Ceiling Anchored, Solid Polyester (Corian), One Compartment Corner Unit, Complete Toilet Partition.....	3,393.17	144.04
			<i>For >10, Deduct</i>	-310.51	
			<i>For Solid Color Material (No Particulate), Deduct</i>	-714.17	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0319	EA		60" x 60", Floor And Ceiling Anchored, Solid Polyester (Corian), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	4,544.58	152.91
			<i>For Solid Color Material (No Particulate), Deduct</i>	-974.91	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0320	EA		60" x 78", Floor And Ceiling Anchored, Solid Polyester (Corian), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	4,965.89	157.34
			<i>For Solid Color Material (No Particulate), Deduct</i>	-1,069.78	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0321			Ceiling Hung, Solid Polyester (Corian), Complete Toilet Partitions <small>(10 21 13 19-0308)</small>		
			Note: Excludes above ceiling steel.		
10 21 13 19-0322	EA		36" x 60", Ceiling Hung, Solid Polyester (Corian), One Compartment Corner Unit, Complete Toilet Partition.....	3,433.49	166.21
			<i>For >10, Deduct</i>	-310.11	
			<i>For Solid Color Material (No Particulate), Deduct</i>	-713.25	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0323	EA		60" x 60", Ceiling Hung, Solid Polyester (Corian), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	4,374.53	175.07
			<i>For Solid Color Material (No Particulate), Deduct</i>	-925.61	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0324	EA		60" x 78", Ceiling Hung, Solid Polyester (Corian), One Compartment Corner Unit, Complete ADA Compliant Toilet Partition.....	4,795.85	179.51
			<i>For Solid Color Material (No Particulate), Deduct</i>	-1,020.47	
			<i>For Heavy Gauge Full-Height SS Hinges And Brackets, Add</i>	166.70	
10 21 13 19-0325			Solid Polyester (Corian) Urinal Screens <small>(10 21 13 19-0307)</small>		
10 21 13 19-0326			Floor Anchored, Solid Polyester (Corian), Urinal Screens <small>(10 21 13 19-0325)</small>		
10 21 13 19-0327	EA		24" x 58" x 1/2", Floor Anchored, Solid Polyester (Corian), Urinal Screen.....	813.22	62.03
			<i>For Solid Color Material (No Particulate), Deduct</i>	-158.51	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0328	EA		36" x 58" x 1/2", Floor Anchored, Solid Polyester (Corian), Urinal Screen.....	1,069.56	66.46
			<i>For Solid Color Material (No Particulate), Deduct</i>	-215.43	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0329	EA		48" x 58" x 1/2", Floor Anchored, Solid Polyester (Corian), Urinal Screen.....	1,325.90	70.89
			<i>For Solid Color Material (No Particulate), Deduct</i>	-272.35	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0330			Wall Hung, Solid Polyester (Corian), Urinal Screens <small>(10 21 13 19-0325)</small>		
10 21 13 19-0331	EA		18" x 42" x 1/2", Wall Hung, Solid Polyester (Corian), Urinal Screen.....	422.86	53.17
			<i>For Solid Color Material (No Particulate), Deduct</i>	-72.80	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0332	EA		24" x 42" x 1/2", Wall Hung, Solid Polyester (Corian), Urinal Screen.....	537.23	57.60
			<i>For Solid Color Material (No Particulate), Deduct</i>	-97.07	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0333	EA		30" x 42" x 1/2", Wall Hung, Solid Polyester (Corian), Urinal Screen.....	651.61	62.03
			<i>For Solid Color Material (No Particulate), Deduct</i>	-121.34	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0334			Wall Hung And Post Supported, Solid Polyester (Corian), Urinal Screens <small>(10 21 13 19-0325)</small>		
10 21 13 19-0335	EA		18" x 58" x 1/2", Wall Hung And Post Supported, Solid Polyester (Corian), Urinal Screen.....	549.38	57.60
			<i>For Solid Color Material (No Particulate), Deduct</i>	-99.86	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0336	EA		24" x 58" x 1/2", Wall Hung And Post Supported, Solid Polyester (Corian), Urinal Screen.....	681.99	62.03
			<i>For Solid Color Material (No Particulate), Deduct</i>	-128.32	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0337	EA		30" x 58" x 1/2", Wall Hung And Post Supported, Solid Polyester (Corian), Urinal Screen.....	814.58	66.46
			<i>For Solid Color Material (No Particulate), Deduct</i>	-156.78	
			<i>For Heavy Gauge Full-Height SS Brackets, Add</i>	46.19	
10 21 13 19-0338			Wall Hung And Overhead Braced, Solid Polyester (Corian), Urinal Screens <small>(10 21 13 19-0325)</small>		



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0339	EA		22" x 58" x 1/2", Wall Hung And Overhead Braced, Solid Polyester (Corian), Urinal Screen <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	831.33 -164.71 46.19	57.60
10 21 13 19-0340	EA		34" x 58" x 1/2", Wall Hung And Overhead Braced, Solid Polyester (Corian), Urinal Screen <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,087.67 -221.63 46.19	62.03
10 21 13 19-0341	EA		46" x 58" x 1/2", Wall Hung And Overhead Braced, Solid Polyester (Corian), Urinal Screen <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,344.01 -278.55 46.19	66.46
10 21 13 19-0342			Solid Polyester (Corian) Toilet Partition Doors, Panels And Pilasters (10 21 13 19-0307)		
10 21 13 19-0343			Solid Polyester (Corian), Toilet Partition Doors (10 21 13 19-0342)		
10 21 13 19-0344	EA		24" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Door <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Hinge, Add</i>	633.51 -137.55 74.33	17.73
10 21 13 19-0345	EA		26" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Door <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Hinge, Add</i>	676.26 -147.39 74.33	17.73
10 21 13 19-0346	EA		30" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Door <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Hinge, Add</i>	771.10 -168.18 74.33	19.95
10 21 13 19-0347	EA		34" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Door <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Hinge, Add</i>	859.31 -188.47 74.33	19.95
10 21 13 19-0348	EA		36" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Door <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Hinge, Add</i>	897.69 -197.29 74.33	19.95
10 21 13 19-0349			Solid Polyester (Corian), Toilet Partition Panels (10 21 13 19-0342)		
10 21 13 19-0350	EA		6" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	176.92 -28.46 46.19	26.59
10 21 13 19-0351	EA		12" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	305.10 -56.92 46.19	28.81
10 21 13 19-0352	EA		18" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	433.26 -85.38 46.19	31.03
10 21 13 19-0353	EA		24" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	561.44 -113.84 46.19	33.24
10 21 13 19-0354	EA		30" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	689.61 -142.30 46.19	35.45
10 21 13 19-0355	EA		36" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	817.77 -170.76 46.19	37.68
10 21 13 19-0356	EA		42" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	945.95 -199.22 46.19	39.89
10 21 13 19-0357	EA		48" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,074.12 -227.68 46.19	42.10
10 21 13 19-0358	EA		55" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,222.90 -260.88 46.19	44.33
10 21 13 19-0359	EA		58" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,286.55 -275.11 46.19	45.21
10 21 13 19-0360	EA		60" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,330.46 -284.60 46.19	46.54
10 21 13 19-0361	EA		70" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,541.12 -332.03 46.19	48.75
10 21 13 19-0362	EA		78" x 58" x 1/2", Solid Polyester (Corian), Toilet Partition Panel <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,710.53 -369.98 46.19	50.97
10 21 13 19-0363			72" Long, Solid Polyester (Corian), Toilet Partition Pilasters (10 21 13 19-0342)		
10 21 13 19-0364	EA		Up To 4" x 72" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	220.79 -44.67 46.19	13.30
10 21 13 19-0365	EA		5" x 72" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	273.78 -55.83 46.19	15.51
10 21 13 19-0366	EA		6" x 72" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	326.75 -67.00 46.19	17.73

10	10	Specialties
	10 20	Interior Specialties
	10 21	Compartments And Cubicles



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21 13 19-0367	EA		8" x 72" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	428.30 -89.33 46.19	19.95
10 21 13 19-0368	EA		10" x 72" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	529.84 -111.67 46.19	22.16
10 21 13 19-0369	EA		12" x 72" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	631.36 -134.00 46.19	24.38
10 21 13 19-0370	EA		18" x 72" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	927.10 -201.00 46.19	26.59
10 21 13 19-0371	EA		22" x 72" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,125.75 -245.67 46.19	28.81
10 21 13 19-0372	EA		24" x 72" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,227.28 -268.00 46.19	31.03
10 21 13 19-0373			82" Long, Solid Polyester (Corian), Toilet Partition Pilasters <small>(10 21 13 19-0342)</small>		
10 21 13 19-0374	EA		Up To 4" x 82" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	247.76 -50.87 46.19	13.30
10 21 13 19-0375	EA		5" x 82" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	307.51 -63.59 46.19	15.51
10 21 13 19-0376	EA		6" x 82" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	360.89 -74.85 46.19	17.73
10 21 13 19-0377	EA		8" x 82" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	490.68 -103.68 46.19	19.95
10 21 13 19-0378	EA		10" x 82" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	597.27 -127.18 46.19	22.16
10 21 13 19-0379	EA		12" x 82" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	712.27 -152.61 46.19	24.38
10 21 13 19-0380	EA		18" x 82" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,048.48 -228.92 46.19	26.59
10 21 13 19-0381	EA		22" x 82" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,274.10 -279.79 46.19	28.81
10 21 13 19-0382	EA		24" x 82" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,389.11 -305.22 46.19	31.03
10 21 13 19-0383			96" To 120" Long, Solid Polyester (Corian), Toilet Partition Pilasters <small>(10 21 13 19-0342)</small>		
10 21 13 19-0384	EA		Up To 4" x 96" To 120" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	326.75 -67.00 46.19	17.73
10 21 13 19-0385	EA		5" x 96" To 120" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	404.02 -83.75 46.19	19.95
10 21 13 19-0386	EA		6" x 96" To 120" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	481.29 -100.50 46.19	22.16
10 21 13 19-0387	EA		8" x 96" To 120" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	631.36 -134.00 46.19	24.38
10 21 13 19-0388	EA		10" x 96" To 120" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	781.45 -167.50 46.19	26.59
10 21 13 19-0389	EA		12" x 96" To 120" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	931.53 -201.00 46.19	28.81
10 21 13 19-0390	EA		18" x 96" To 120" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,372.93 -301.50 46.19	31.03
10 21 13 19-0391	EA		22" x 96" To 120" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,668.67 -368.50 46.19	33.24
10 21 13 19-0392	EA		24" x 96" To 120" x 1", Solid Polyester (Corian), Toilet Partition Pilaster <i>For Solid Color Material (No Particulate), Deduct</i> <i>For Heavy Gauge Full-Height SS Brackets, Add</i>	1,818.76 -402.00 46.19	35.45
10 21 13 43			Compartments and Cubicles Common Accessories <small>(10 21 13)</small>		
10 21 13 43-0001			Accessories <small>(10 21 13 43)</small>		
10 21 13 43-0002	LF		Extruded Aluminum Headrails For Toilet Partitions And Urinal Screens	10.70	1.77



Specialties	10
Interior Specialties	10 20
Compartments And Cubicles	10 21

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 21	13 43-0003	LF	Stainless Steel Headrails For Toilet Partitions And Urinal Screens	14.93	1.77
10 21	13 43-0004	EA	Replacement Of 1-1/2" x 58" Stainless Steel Wall Posts	79.47	
10 21	13 43-0005	EA	Replacement Of 58" Aluminum Wall U Bracket	56.08	
10 21	13 43-0006	EA	Replacement Of 58" Aluminum Wall Two Ear Bracket	93.40	
10 21	13 43-0007	EA	Replacement Of 54" Stainless Steel Wall U Bracket.....	61.34	
10 21	13 43-0008	EA	Replacement Of 54" Stainless Steel Wall Two Ear Bracket.....	146.16	
10 21	13 43-0009	EA	Replacement Of 54" Plastic Wall Two Ear Bracket, All Colors.....	117.14	
10 21	13 43-0010	EA	Replacement Of 57-1/2" Stainless Steel Hinge.....	102.10	

10 21 16 Shower And Dressing Compartments (10 21)

10 21 16 17 Phenolic-Core Shower and Dressing Compartments (10 21 16)

10 21 16 17-0001 Shower Dividers (10 21 16 17)

10 21 16 17-0002 Solid Phenolic Core Laminated Plastic, Shower Dividers (10 21 16 17-0001)

Note: Cut to height in field. panels 58" high. Posts 1-1/4" square, 304 stainless steel satin finish. 1/2" thick panels.

10 21 16 17-0003	EA	18" Wide, Solid Phenolic Core Laminated Plastic, Shower Divider.....	686.82	110.81
		For 66" High Panels, Add	69.78	
10 21 16 17-0004	EA	24" Wide, Solid Phenolic Core Laminated Plastic, Shower Divider.....	859.63	119.67
		For 66" High Panels, Add	93.04	
10 21 16 17-0005	EA	36" Wide, Solid Phenolic Core Laminated Plastic, Shower Divider.....	1,107.76	132.97
		For 66" High Panels, Add	126.27	
10 21 16 17-0006	EA	48" Wide, Solid Phenolic Core Laminated Plastic, Shower Divider.....	1,307.13	155.13
		For 66" High Panels, Add	149.53	
10 21 16 17-0007	EA	57" Wide, Solid Phenolic Core Laminated Plastic, Shower Divider.....	1,506.53	177.28
		For 66" High Panels, Add	172.79	

10 21 16 17-0008 Solid Phenolic Core Laminated Plastic, Shower Dividers With Headrail And Curtain Track (10 21 16 17-0001)

Note: Cut to height in field. Panels 58" high. Posts 1-1/4" square, 304 stainless steel satin finish. 1/2" thick panels. Includes 3/4" stiles, 85" from floor to top of headrail. Headrail 4" wide. All stainless steel shoes and stainless steel fittings. Leveling devices are chromate treated double zinc plated steel. Overhead braced designed with concealed curtain tracks and hooks in headrail.

10 21 16 17-0009	EA	18" Wide, Solid Phenolic Core Laminated Plastic, Shower Divider With Headrail And Curtain Track.....	1,644.80	194.75
		For 66" High Panels, Add	227.25	
		For 6" Wide Head Rail, Add	41.55	
		For 8" Wide Head Rail, Add	58.00	
		For 10" Wide Head Rail, Add	70.56	
		For 12" Wide Head Rail, Add	85.06	
		For 18" Wide, 1/2" Thick Bench, Add	123.95	
		For 24" Wide, 1/2" Thick Bench, Add	163.95	
10 21 16 17-0010	EA	24" Wide, Solid Phenolic Core Laminated Plastic, Shower Divider With Headrail And Curtain Track.....	2,025.27	212.66
		For 66" High Panels, Add	282.52	
		For 6" Wide Head Rail, Add	52.25	
		For 8" Wide Head Rail, Add	72.50	
		For 10" Wide Head Rail, Add	88.50	
		For 12" Wide Head Rail, Add	106.63	
		For 18" Wide, 1/2" Thick Bench, Add	127.54	
		For 24" Wide, 1/2" Thick Bench, Add	167.54	
10 21 16 17-0011	EA	36" Wide, Solid Phenolic Core Laminated Plastic, Shower Divider With Headrail And Curtain Track.....	2,544.47	226.13
		For 66" High Panels, Add	359.06	
		For 6" Wide Head Rail, Add	67.29	
		For 8" Wide Head Rail, Add	92.73	
		For 10" Wide Head Rail, Add	113.66	
		For 12" Wide Head Rail, Add	136.84	
		For 18" Wide, 1/2" Thick Bench, Add	130.23	
		For 24" Wide, 1/2" Thick Bench, Add	170.23	
10 21 16 17-0012	EA	48" Wide, Solid Phenolic Core Laminated Plastic, Shower Divider With Headrail And Curtain Track.....	2,721.25	252.99
		For 66" High Panels, Add	382.89	
		For 6" Wide Head Rail, Add	71.52	
		For 8" Wide Head Rail, Add	98.73	
		For 10" Wide Head Rail, Add	120.88	
		For 12" Wide Head Rail, Add	145.57	
		For 18" Wide, 1/2" Thick Bench, Add	135.60	
		For 24" Wide, 1/2" Thick Bench, Add	175.60	
10 21 16 17-0013	EA	57" Wide, Solid Phenolic Core Laminated Plastic, Shower Divider With Headrail And Curtain Track.....	3,109.77	274.97
		For 66" High Panels, Add	438.97	
		For 6" Wide Head Rail, Add	82.30	
		For 8" Wide Head Rail, Add	113.39	
		For 10" Wide Head Rail, Add	138.99	
		For 12" Wide Head Rail, Add	167.34	
		For 18" Wide, 1/2" Thick Bench, Add	139.99	
		For 24" Wide, 1/2" Thick Bench, Add	179.99	

10 22 Partitions (10 20)

10 22 13 Wire Mesh Partitions (10 22)

10 22 13 00-0001 Wall Panels (10 22 13)

Note: Includes steel frame and posts. Posts bolted to floor.

10	10	Specialties
	10 20	Interior Specialties
	10 22	Partitions



MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
10 22 13 00-0002	SF	Wire Mesh Wall Panel, 10 Gauge, Diamond Pattern With Vertical And Horizontal Frames And Posts.....	11.83	1.11
		<i>For 5' Wide Panels, Add</i>	0.48	
10 22 13 00-0003	SF	Wire Mesh Wall Panel, 8 Gauge, Diamond Pattern With Vertical And Horizontal Frames And Posts.....	13.10	1.33
		<i>For 5' Wide Panels, Add</i>	0.52	
10 22 13 00-0004	SF	Wire Mesh Wall Panel, 6 Gauge, Diamond Pattern With Vertical And Horizontal Frames And Posts.....	14.72	1.55
		<i>For 5' Wide Panels, Add</i>	0.58	
10 22 13 00-0005		Ceiling Panels <small>(10 22 13)</small>		
		Note: Includes steel frame.		
10 22 13 00-0006	SF	Wire Mesh Ceiling Panel, 10 Gauge, Diamond Pattern With Vertical And Horizontal Frames And Posts.....	12.24	1.33
10 22 13 00-0007	SF	Wire Mesh Ceiling Panel, 8 Gauge, Diamond Pattern With Vertical And Horizontal Frames And Posts.....	13.50	1.55
10 22 13 00-0008	SF	Wire Mesh Ceiling Panel, 6 Gauge, Diamond Pattern With Vertical And Horizontal Frames And Posts.....	14.94	1.77
10 22 13 00-0009		Sliding Doors <small>(10 22 13)</small>		
		Note: Includes padlocks lugs and/or provisions for cylinder lock.		
10 22 13 00-0010	EA	4' x 8' Sliding Door, 10 Gauge With Cylinder Lock.....	1,097.49	232.70
		<i>For 8 Gauge, Add</i>	118.09	
		<i>For 6 Gauge, Add</i>	236.17	
10 22 13 00-0011	EA	4' x 10' Sliding Door, 10 Gauge With Cylinder Lock.....	1,154.83	257.07
		<i>For 8 Gauge, Add</i>	121.81	
		<i>For 6 Gauge, Add</i>	243.62	
10 22 13 00-0012	EA	5' x 8' Sliding Door, 10 Gauge With Cylinder Lock.....	1,264.68	265.94
		<i>For 8 Gauge, Add</i>	136.52	
		<i>For 6 Gauge, Add</i>	273.03	
10 22 13 00-0013	EA	5' x 10' Sliding Door, 10 Gauge With Cylinder Lock.....	1,379.73	288.10
		<i>For 8 Gauge, Add</i>	149.34	
		<i>For 6 Gauge, Add</i>	298.68	
10 22 13 00-0014	EA	6' x 8' Sliding Door, 10 Gauge With Cylinder Lock.....	1,425.90	305.83
		<i>For 8 Gauge, Add</i>	152.72	
		<i>For 6 Gauge, Add</i>	305.44	
10 22 13 00-0015	EA	6' x 10' Sliding Door, 10 Gauge With Cylinder Lock.....	1,570.64	323.55
		<i>For 8 Gauge, Add</i>	170.89	
		<i>For 6 Gauge, Add</i>	341.77	
10 22 13 00-0016	EA	8' x 8' Sliding Door, 10 Gauge With Cylinder Lock.....	1,687.96	347.93
		<i>For 8 Gauge, Add</i>	183.61	
		<i>For 6 Gauge, Add</i>	367.22	
10 22 13 00-0017	EA	8' x 10' Sliding Door, 10 Gauge With Cylinder Lock.....	1,838.97	363.44
		<i>For 8 Gauge, Add</i>	203.16	
		<i>For 6 Gauge, Add</i>	406.32	
10 22 13 00-0018	EA	10' x 8' Sliding Door, 10 Gauge With Cylinder Lock.....	1,854.56	372.31
		<i>For 8 Gauge, Add</i>	203.72	
		<i>For 6 Gauge, Add</i>	407.45	
10 22 13 00-0019	EA	10' x 10' Sliding Door, 10 Gauge With Cylinder Lock.....	2,048.88	394.47
		<i>For 8 Gauge, Add</i>	228.44	
		<i>For 6 Gauge, Add</i>	456.88	
10 22 13 00-0020		Swing Doors <small>(10 22 13)</small>		
10 22 13 00-0021		Single Swing Door <small>(10 22 13 00-0020)</small>		
10 22 13 00-0022	EA	3' x 7' Swing Door, 10 Gauge With Cylinder Lock.....	751.89	137.40
		<i>For 8 Gauge, Add</i>	83.24	
		<i>For 6 Gauge, Add</i>	166.47	
10 22 13 00-0023	EA	3' x 8' Swing Door, 10 Gauge With Cylinder Lock.....	809.51	155.13
		<i>For 8 Gauge, Add</i>	90.40	
		<i>For 6 Gauge, Add</i>	180.80	
10 22 13 00-0024	EA	3' x 9' Swing Door, 10 Gauge With Cylinder Lock.....	867.97	163.99
		<i>For 8 Gauge, Add</i>	97.40	
		<i>For 6 Gauge, Add</i>	194.79	
10 22 13 00-0025	EA	4' x 7' Swing Door, 10 Gauge With Cylinder Lock.....	853.84	177.28
		<i>For 8 Gauge, Add</i>	92.62	
		<i>For 6 Gauge, Add</i>	185.24	
10 22 13 00-0026	EA	4' x 8' Swing Door, 10 Gauge With Cylinder Lock.....	914.43	186.16
		<i>For 8 Gauge, Add</i>	99.93	
		<i>For 6 Gauge, Add</i>	199.87	
10 22 13 00-0027	EA	4' x 9' Swing Door, 10 Gauge With Cylinder Lock.....	955.39	195.02
		<i>For 8 Gauge, Add</i>	104.31	
		<i>For 6 Gauge, Add</i>	208.61	
10 22 13 00-0028	EA	4' x 7' Dutch Door, 10 Gauge With Cylinder Lock.....	1,132.53	177.28
		<i>For 8 Gauge, Add</i>	134.42	
		<i>For 6 Gauge, Add</i>	268.84	
10 22 13 00-0029	EA	4' x 8' Dutch Door, 10 Gauge With Cylinder Lock.....	1,201.85	186.16
		<i>For 8 Gauge, Add</i>	143.05	
		<i>For 6 Gauge, Add</i>	286.09	
10 22 13 00-0030		Double Swing Doors <small>(10 22 13 00-0020)</small>		
10 22 13 00-0031	EA	6' x 7' Double Swing Door, 10 Gauge With Cylinder Lock.....	1,191.04	221.61
		<i>For 8 Gauge, Add</i>	134.33	
		<i>For 6 Gauge, Add</i>	268.67	



Specialties	10
Interior Specialties	10 20
Partitions	10 22

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 22 13 00-0032 EA 6' x 8' Double Swing Door, 10 Gauge With Cylinder Lock..... <i>For 8 Gauge, Add</i> <i>For 6 Gauge, Add</i>	1,217.64 135.66 271.33	234.91
10 22 13 00-0033 EA 6' x 9' Double Swing Door, 10 Gauge With Cylinder Lock..... <i>For 8 Gauge, Add</i> <i>For 6 Gauge, Add</i>	1,685.64 203.21 406.41	248.20
10 22 13 00-0034 EA 8 x 7' Double Swing Door, 10 Gauge With Cylinder Lock <i>For 8 Gauge, Add</i> <i>For 6 Gauge, Add</i>	1,279.68 138.77 277.53	265.94
10 22 13 00-0035 EA 8 x 8' Double Swing Door, 10 Gauge With Cylinder Lock <i>For 8 Gauge, Add</i> <i>For 6 Gauge, Add</i>	1,306.28 140.10 280.19	279.23
10 22 13 00-0036 EA 8 x 9' Double Swing Door, 10 Gauge With Cylinder Lock <i>For 8 Gauge, Add</i> <i>For 6 Gauge, Add</i>	1,774.28 207.64 415.27	292.53
10 22 19 Demountable Partitions (10 22)		
10 22 19 13 Demountable Metal Partitions (10 22 19)		
10 22 19 13-0001 LF 9' High Demountable Partition, 1.75 System, Aluminum Framed, Vinyl Clad Hardboard, Paper Honeycomb Core, 1.75"/2.5" Thick..... <i>For >9, Add 16.27</i>	130.14	14.10
10 22 19 13-0002 LF 7' High Demountable Partition, 1.75 System, Aluminum Framed, Vinyl Clad Hardboard, Paper Honeycomb Core, 1.75"/2.5" Thick..... <i>For >9, Add 14.29</i>	114.32	11.23
10 22 19 13-0003 LF 5' High Demountable Partition, 1.75 System, Aluminum Framed, Vinyl Clad Hardboard, Paper Honeycomb Core, 1.75"/2.5" Thick..... <i>For >9, Add 12.31</i>	98.49	8.45
10 22 19 13-0004 LF 9' High Demountable Partition, Moveable Steel Wall, Mod System, Unitized Panel, 48" Wide, Backed Enamel..... <i>For >9, Add 16.66</i>	133.27	11.23
10 22 19 13-0005 LF 9' High Demountable Partition, Moveable Steel Wall, Mod System, Unitized Panels, 48" Wide, Fabric <i>For >9, Add 24.23</i>	193.82	12.07
10 22 19 43 Demountable Composite Partitions (10 22 19)		
10 22 19 43-0001 LF Demountable Partition, Mineral Fiber System, Unitized Panel, 9' High, 2-1/4" Thick, Aluminum Frame, Vinyl Clad..... <i>For >9, Add 25.18</i>	201.46	14.10
10 22 19 43-0002 LF Demountable Partition, Mineral Fiber System, Unitized Panel, 9' High, 2-1/4" Thick, Aluminum Frame, Fabric Clad <i>For >9, Add 31.56</i>	252.48	15.36
10 22 19 43-0003 SF Partition, Trackless Wall, Cork Finish, Semi-Acoustic, 1-5/8" Thick..... <i>For Acoustical Partitions, Add</i>	42.38 3.82	2.11
10 22 19 43-0004 SF Partition, Trackless Wall, Cork Finish, Semi-Acoustic, 1-5/8" Thick..... <i>For Acoustical Partitions, Add</i>	52.96 4.59	3.54
10 22 19 43-0005 SF Partition, Trackless Wall, Cork Finish, Acoustic, 2" Thick <i>For Acoustical Partitions, Add</i>	45.20 4.08	2.19
10 22 19 43-0006 SF Partition, Trackless Wall, Cork Finish, Acoustic, 2" Thick <i>For Acoustical Partitions, Add</i>	64.65 5.87	3.04
10 22 19 53 Demountable Gypsum Partitions (10 22 19)		
10 22 19 53-0001 Demountable Gypsum Partitions (10 22 19 53)		
10 22 19 53-0002 LF 9' High Demountable Partition Gypsum System, 2" To 2.5" Steel Standard, 3" To 3-3/4" Thick, Vinyl Clad..... <i>For >9, Add 9.91</i>	79.29	14.10
10 22 19 53-0003 LF 9' High Demountable Partition Gypsum System, 2" To 2.5" Steel Standard, 3" To 3-3/4" Thick, Fabric Clad <i>For >9, Add 16.79</i>	134.33	15.36
10 22 19 53-0004 LF 9' High Demountable Partition Gypsum System, 2" To 2.5", Steel Standard, 3" To 3-3/4" Thick, Steel Clad <i>For >9, Add 18.07</i>	144.56	16.88
10 22 19 53-0005 LF 9' High Demountable Partition Gypsum System, Unitized Panel, 2" To 2-1/2" Thick, Vinyl Clad..... <i>For >9, Add 20.40</i>	163.22	14.10
10 22 19 53-0006 LF 9' High Demountable Partition Gypsum System, Unitized Panel, 2" To 2-1/2" Thick, Fabric Clad..... <i>For >9, Add 34.11</i>	272.86	15.36
10 22 23 Portable Partitions, Screens, And Panels (10 22)		
Note: Cubicle prices include standard units, standard height glass and glazing. For 25 percent and 50 percent glass 1/4" plate glass is used. For 100 percent glass 1/4" tempered plate is used.		
10 22 23 23 Movable Panel Systems (10 22 23)		
10 22 23 23-0001 Portable Partitions (10 22 23 23)		
10 22 23 23-0002 LF Partition, Portable, Divided Panel, Freestanding, Fiber Core, Fabric Face Straight, 3'-0" Long, 4' High.....	255.70	6.76
10 22 23 23-0003 LF Partition, Portable, Divided Panel, Freestanding, Fiber Core, Fabric Face Straight, 3'-0" Long, 5' High.....	272.49	7.51
10 22 23 23-0004 LF Partition, Portable, Divided Panel, Freestanding, Fiber Core, Fabric Face Straight, 3'-0" Long, 6' High.....	323.93	9.03
10 22 23 23-0005 LF Partition, Portable, Divided Panel, Freestanding, Fiber Core, Fabric Face Straight, 5'-0" Long, 4' High.....	188.72	3.89
10 22 23 23-0006 LF Partition, Portable, Divided Panel, Freestanding, Fiber Core, Fabric Face Straight, 5'-0" Long, 5' High.....	200.20	4.47
10 22 23 23-0007 LF Partition, Portable, Divided Panel, Freestanding, Fiber Core, Fabric Face Straight, 5'-0" Long, 6' High.....	224.94	5.41
10 22 23 23-0008 LF Partition, Portable, Divided Panel, Freestanding, Fiber Core, Fabric Face Straight, 6'-0" Long, 5' High.....	191.89	4.14
10 22 23 23-0009 LF Partition, Portable, Divided Panel, Freestanding, Fiber Core, Fabric Face Curved, 3'-0" Long, 5' High.....	341.32	7.51
10 22 23 23-0010 LF Partition, Portable, Divided Panel, Freestanding, Fiber Core, Fabric Face Curved, 3'-0" Long, 6' High.....	374.92	9.03
10 22 23 23-0011 LF Partitions, Portable, Economical Panels, Fabric Face, 4'-0" Long, 5' High.....	198.88	5.16
10 22 23 23-0012 LF Partitions, Portable, Economical Panels, Fabric Face, 4'-0" Long, 6' High.....	226.20	5.99
10 22 23 23-0013 LF Partitions, Portable, Economical Panels, Fabric Face, 5'-0" Long, 5' High.....	182.35	4.47

10	10	Specialties
	10 20	Interior Specialties
	10 22	Partitions



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 22 23 23-0014	LF		Partitions, Portable, Economical Panels, Fabric Face, 5'-0" Long, 6' High.....	204.55	5.41
10 22 23 23-0015	LF		Partitions, Portable, Economical Panels, Fabric Face, 3'-0" Curved, 5' High.....	303.08	7.51
10 22 23 23-0016	LF		Partitions, Portable, Economical Panels, Fabric Face, 3'-0" Curved, 6' High.....	341.78	9.03
10 22 23 23-0017	LF		Partitions, Portable, Acoustic Panels, 60 To 90 NRC, 3'-0" Long, 5' High.....	308.18	7.51
10 22 23 23-0018	LF		Partitions, Portable, Acoustic Panels, 60 To 90 NRC, 3'-0" Long, 6' High.....	374.92	9.03
10 22 23 23-0019	LF		Partitions, Portable, Acoustic Panels, 60 To 90 NRC, 5'-0" Long, 5' High.....	238.44	4.47
10 22 23 23-0020	LF		Partitions, Portable, Acoustic Panels, 60 To 90 NRC, 5'-0" Long, 6' High.....	268.28	5.41
10 22 23 23-0021	LF		Partitions, Portable, Acoustic Panels, 60 To 90 NRC, 6'-0" Long, 5' High.....	251.80	4.14
10 22 23 23-0022	LF		Partitions, Portable, Acoustic Panels, 60 To 90 NRC, 6'-0" Long, 6' High.....	300.41	4.89
10 22 23 23-0023	LF		Partitions, Portable, Economical Acoustic Panels, 40 NRC, 4'-0" Long, 5' High.....	145.34	5.16
10 22 23 23-0024	LF		Partitions, Portable, Economical Acoustic Panels, 40 NRC, 4'-0" Long, 6' High.....	171.39	5.99
10 22 23 23-0025	LF		Partitions, Portable, Economical Acoustic Panels, 40 NRC, 5'-0" Long, 6' High.....	154.84	5.41
10 22 23 23-0026	LF		Partitions, Portable, Economical Acoustic Panels, 40 NRC, 6'-0" Long, 5' High.....	112.86	4.14
10 22 23 23-0027	LF		Partitions, Portable, Metal Chalkboard, 6'-6" High, 1 Side.....	184.15	5.41
10 22 23 23-0028	LF		Partitions, Portable, Metal Chalkboard, 2 Sides.....	210.11	5.66
10 22 23 23-0029	LF		Partitions, Portable, Tackboard, Both Sides.....	169.04	5.49

10 22 23 23-0030 Adjustable Barrier Panel System (10 22 23 23)

Note: Panels include self leveling floor channel, 1/4" foam gasket to conform to ceiling, edge gaskets, grid clips, and cam locks.

10 22 23 23-0031	EA		4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4000).....	636.99	
10 22 23 23-0032	EA		3' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4001).....	600.65	
10 22 23 23-0033	EA		2' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4002).....	468.00	
10 22 23 23-0034	EA		4' Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly With 44" Door (Edge Guard 4003).....	1,058.32	
10 22 23 23-0035	EA		7'-8" To 10' High, Hinged Corner Assembly (Edge Guard 4004).....	201.88	
10 22 23 23-0036	EA		6" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4005).....	290.33	
10 22 23 23-0037	EA		12" Wide x 7'-8" To 10' High, Fire Rated Containment Panel Assembly (Edge Guard 4006).....	314.55	
10 22 23 23-0038	EA		7'-8" To 10' High, Outside Corner Post (Edge Guard 4007).....	166.88	
10 22 23 23-0039	EA		7'-8" To 10' High, "T" Post Corner Assembly (Edge Guard 4009).....	166.88	

10 22 33 Accordion Folding Partitions (10 22)

10 22 33 00-0001 Accordion Doors/Partitions (10 22 33)

Note: Includes top support track and assembled panels.

10 22 33 00-0002	SF		15 STC, Accordion Door/Partition With Standard Vinyl Finish (Hufcor® 1500).....	47.03	4.18
			<i>For <135, Add</i>	9.41	
10 22 33 00-0003	SF		20 STC, Accordion Door/Partition With Standard Vinyl Finish (Hufcor® 2000).....	47.84	4.32
			<i>For <135, Add</i>	9.57	
10 22 33 00-0004	SF		31 STC Rating, Accordion Door/Partition With Standard Vinyl Finish (Hufcor® 3100).....	50.03	4.46
			<i>For <135, Add</i>	10.01	
10 22 33 00-0005	SF		35 STC Rating, Accordion Door/Partition With Standard Vinyl Finish (Hufcor® 3500).....	52.92	4.60
			<i>For <135, Add</i>	10.58	
10 22 33 00-0006	SF		39 STC Rating, Accordion Door/Partition With Standard Vinyl Finish (Hufcor® 3900).....	53.92	4.73
			<i>For <135, Add</i>	10.78	
10 22 33 00-0007	SF		40 STC Rating, Accordion Door/Partition With Standard Vinyl Finish (Hufcor® 4000).....	54.66	4.88
			<i>For <135, Add</i>	10.93	
10 22 33 00-0008	SF		41 STC Rating, Accordion Door/Partition With Standard Vinyl Finish (Hufcor® 4100).....	55.39	5.01
			<i>For <135, Add</i>	11.08	
10 22 33 00-0009	SF		45 STC Rating, Accordion Door/Partition With Standard Vinyl Finish (Hufcor® 4500).....	56.43	5.30
			<i>For <135, Add</i>	11.29	

10 22 43 Sliding Partitions (10 22)

10 22 43 00-0001 Operable Wall (10 22 43)

Note: Includes top support track, assembled panel and frames.

10 22 43 00-0002	SF		Up To 720 SF, 12' Height Continuously Hinged Electric Operable Wall, Vinyl Finish, Top And Bottom Sweep Seals, 47 STC Rating.....	79.48	7.27
			Note: Includes type 3 pocket door, two ADA pass doors, track and hardware. Hufcor 633E.		
			<i>For 51 STC, Add</i>	6.34	
10 22 43 00-0003	SF		>720 To 1,200 SF, 12 High Continuously Hinged Electric Operable Wall, Vinyl Finish, Top And Bottom Sweep Seals, 47 STC Rating.....	73.89	5.81
			Note: Includes type 3 pocket door, two ADA pass doors, track and hardware. Hufcor 633E.		
			<i>For 51 STC, Add</i>	6.21	
10 22 43 00-0004	SF		>1,200 SF, 12' High Continuously Hinged Electric Operable Wall, Vinyl Finish, Top And Bottom Sweep Seals, 47 STC Rating.....	69.76	4.84
			Note: Includes type 3 pocket door, two ADA pass doors, track and hardware. Hufcor 633E.		
			<i>For 51 STC, Add</i>	6.08	
10 22 43 00-0005	SF		Up To 1,080 SF, 18' High Continuously Hinged Electric Operable Wall, Vinyl Finish, Top And Bottom Sweep Seals, 47 STC Rating.....	67.79	5.08
			Note: Includes type 3 pocket door, two ADA pass doors, track and hardware. Hufcor 633E.		
			<i>For 51 STC, Add</i>	5.78	
10 22 43 00-0006	SF		>1,080 To 1,800 SF, 18' High Continuously Hinged Electric Operable Wall, Vinyl Finish, Top And Bottom Sweep Seals, 47 STC Rating.....	63.47	4.14
			Note: Includes type 3 pocket door, two ADA pass doors, track and hardware. Hufcor 633E.		
			<i>For 51 STC, Add</i>	5.61	
10 22 43 00-0007	SF		>1,800 SF, 18' High Continuously Hinged Electric Operable Wall, Vinyl Finish, Top And Bottom Sweep Seals, 47 STC Rating.....	60.93	3.70
			Note: Includes type 3 pocket door, two ADA pass doors, track and hardware. Hufcor 633E.		
			<i>For 51 STC, Add</i>	5.48	



Specialties	10	10
Interior Specialties	10 20	
Partitions	10 22	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 22 43 00-0008	SF		Up To 1,440 SF, 24' High Continuously Hinged Electric Operable Wall, Vinyl Finish, Top And Bottom Sweep Seals, 47 STC Rating Note: Includes type 3 pocket door, two ADA pass doors, track and hardware. Hufcor 633E.	60.22	3.99
			<i>For 51 STC, Add</i>	5.31	
10 22 43 00-0009	SF		>1,440 To 2,400 SF, 24' High Continuously Hinged Electric Operable Wall, Vinyl Finish, Top And Bottom Sweep Seals, 47 STC Rating Note: Includes type 3 pocket door, two ADA pass doors, track and hardware. Hufcor 633E.	56.97	3.41
			<i>For 51 STC, Add</i>	5.14	
10 22 43 00-0010	SF		>2,400 SF, 24' High Continuously Hinged Electric Operable Wall, Vinyl Finish, Top And Bottom Sweep Seals, 47 STC Rating Note: Includes type 3 pocket door, two ADA pass doors, track and hardware. Hufcor 633E.	54.67	3.05
			<i>For 51 STC, Add</i>	5.01	
10 22 43 00-0011	SF		Up To 160 SF, 10' Height Paired Panel Manual Operable Wall, Vinyl Finish, Top Sweep Seals And Mechanical Bottom Seals, 47 STC Rating Note: Includes type 3 pocket door, track and hardware. Hufcor 632.	84.20	6.46
			<i>For 51 STC, Add</i>	7.13	
10 22 43 00-0012	SF		>160 To 240 SF, 10' Height Paired Panel Manual Operable Wall, Vinyl Finish, Top Sweep Seals And Mechanical Bottom Seals, 47 STC Rating Note: Includes type 3 pocket door, track and hardware. Hufcor 632.	77.82	4.91
			<i>For 51 STC, Add</i>	6.94	
10 22 43 00-0013	SF		>240 SF, 10' Height Paired Panel Manual Operable Wall, Vinyl Finish, Top Sweep Seals And Mechanical Bottom Seals, 47 STC Rating Note: Includes type 3 pocket door, track and hardware. Hufcor 632.	74.04	4.14
			<i>For 51 STC, Add</i>	6.78	
10 26 Wall And Door Protection (10 20)					
10 26 13 Corner Guards (10 26)					
10 26 13 00-0001			Vinyl Corner Guards (10 26 13)		
10 26 13 00-0002			Rigid Vinyl Corner Guards (10 26 13 00-0001)		
10 26 13 00-0003			Surface Mounted, Rigid Vinyl Corner Guards (10 26 13 00-0002)		
10 26 13 00-0004			90 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guards (10 26 13 00-0003)		
10 26 13 00-0005	LF		3/4" Wing, 90 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guard (Pawling CG-34) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	6.50 -1.11 -1.55 -2.10	2.66
10 26 13 00-0006	LF		1-1/2" Wing, 90 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guard (Pawling CG-12) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	7.01 -1.11 -1.55 -2.12	2.66
10 26 13 00-0007	LF		3" Wing, 90 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guard (Pawling CG-13) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	9.81 -1.11 -1.55 -2.26	2.66
10 26 13 00-0008	LF		4" Wing, 90 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guard (Pawling CG-14) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	13.31 -1.11 -1.55 -2.44	2.66
10 26 13 00-0009			135 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guards (10 26 13 00-0003)		
10 26 13 00-0010	LF		1-1/2" Wing, 135 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guard (Pawling CG-1245) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	12.68 -1.11 -1.55 -2.41	2.66
10 26 13 00-0011			Rigid Vinyl Corner Guards With Aluminum Retainers (10 26 13 00-0001) Note: Includes closure caps.		
10 26 13 00-0012			Surface Mounted, Rigid Vinyl Corner Guards With Aluminum Retainers (10 26 13 00-0011)		
10 26 13 00-0013			90 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guards With Aluminum Retainers (10 26 13 00-0012)		
10 26 13 00-0014	LF		2" Wing, 90 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guard With Aluminum Retainer (Pawling CG-20) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Recycled Vinyl Retainer, Deduct</i>	12.35 -1.66 -2.33 -3.28 -1.14	3.99
10 26 13 00-0015	LF		3" Wing, 90 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guard With Aluminum Retainer (Pawling CG-10) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Recycled Vinyl Retainer, Deduct</i>	13.91 -1.66 -2.33 -3.36 -1.45	3.99
10 26 13 00-0016	LF		Bullnose 3" Wing, 90 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guard With Aluminum Retainer (Pawling CG-30) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Recycled Vinyl Retainer, Deduct</i>	15.46 -1.66 -2.33 -3.43 -1.76	3.99

10	10	Specialties
	10 20	Interior Specialties
	10 26	Wall And Door Protection



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 26	13 00-0017		135 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guards With Aluminum Retainers <small>(10 26 13 00-0012)</small>		
	10 26 13 00-0018	LF	3" Wing, 135 Degree Angle, Surface Mounted, Rigid Vinyl Corner Guard With Aluminum Retainer (Pawling CG-135).....	18.37	3.99
			<i>For >50 To 100, Deduct</i>	-1.66	
			<i>For >100 To 200, Deduct</i>	-2.33	
			<i>For >200, Deduct</i>	-3.58	
			<i>For Recycled Vinyl Retainer, Deduct</i>	-2.34	
10 26	13 00-0019		End Wall Protector, Surface Mounted, Rigid Vinyl Corner Guards With Aluminum Retainers <small>(10 26 13 00-0012)</small>		
	10 26 13 00-0020	LF	2" Wing, End Wall Protector, Surface Mounted, Rigid Vinyl Corner Guard With Aluminum Retainer (Pawling CG-11).....	26.17	5.32
			<i>For >50 To 100, Deduct</i>	-2.22	
			<i>For >100 To 200, Deduct</i>	-3.10	
			<i>For >200, Deduct</i>	-4.85	
			<i>For Recycled Vinyl Retainer, Deduct</i>	-3.46	
10 26	13 00-0021		Flush Mounted, Rigid Vinyl Corner Guards With Aluminum Retainers <small>(10 26 13 00-0011)</small>		
10 26	13 00-0022		90 Degree Angle, Flush Mounted, Rigid Vinyl Corner Guards With Aluminum Retainers <small>(10 26 13 00-0021)</small>		
	10 26 13 00-0023	LF	2" Wing, 90 Degree Angle, Flush Mounted, Rigid Vinyl Corner Guard With Aluminum Retainer (Pawling CG-72).....	16.83	3.99
			<i>For >50 To 100, Deduct</i>	-1.66	
			<i>For >100 To 200, Deduct</i>	-2.33	
			<i>For >200, Deduct</i>	-3.50	
			<i>For Up To 2 HR Fire Rated, Add</i>	7.13	
	10 26 13 00-0024	LF	3" Wing, 90 Degree Angle, Flush Mounted, Rigid Vinyl Corner Guard With Aluminum Retainer (Pawling CG-7).....	20.52	3.99
			<i>For >50 To 100, Deduct</i>	-1.66	
			<i>For >100 To 200, Deduct</i>	-2.33	
			<i>For >200, Deduct</i>	-3.69	
			<i>For Up To 2 HR Fire Rated, Add</i>	9.71	
	10 26 13 00-0025	LF	Bullnose 3" Wing, 90 Degree Angle, Flush Mounted, Rigid Vinyl Corner Guard With Aluminum Retainer (Pawling CG-32).....	18.93	3.99
			<i>For >50 To 100, Deduct</i>	-1.66	
			<i>For >100 To 200, Deduct</i>	-2.33	
			<i>For >200, Deduct</i>	-3.61	
			<i>For Up To 2 HR Fire Rated, Add</i>	8.60	
10 26	13 00-0026		135 Degree Angle, Flush Mounted, Rigid Vinyl Corner Guards With Aluminum Retainers <small>(10 26 13 00-0021)</small>		
	10 26 13 00-0027	LF	3" Wing, 135 Degree Angle, Flush Mounted, Rigid Vinyl Corner Guard With Aluminum Retainer (Pawling CG-75).....	22.09	3.99
			<i>For >50 To 100, Deduct</i>	-1.66	
			<i>For >100 To 200, Deduct</i>	-2.33	
			<i>For >200, Deduct</i>	-3.76	
			<i>For Up To 2 HR Fire Rated, Add</i>	10.81	
10 26	13 00-0028		End Wall Protector, Flush Mounted, Rigid Vinyl Corner Guards With Aluminum Retainers <small>(10 26 13 00-0021)</small>		
	10 26 13 00-0029	LF	2" Wing, End Wall Protector, Flush Mounted, Rigid Vinyl Corner Guard With Aluminum Retainer (Pawling CG-888).....	47.14	5.32
			<i>For >50 To 100, Deduct</i>	-2.22	
			<i>For >100 To 200, Deduct</i>	-3.10	
			<i>For >200, Deduct</i>	-5.90	
			<i>For Up To 2 HR Fire Rated, Add</i>	26.80	
10 26	13 00-0030		Flexible Vinyl Corner Guards <small>(10 26 13 00-0001)</small>		
	10 26 13 00-0031		Surface Mounted, Flexible Vinyl Corner Guards <small>(10 26 13 00-0030)</small>		
	10 26 13 00-0032		90 Degree Angle, Surface Mounted, Flexible Vinyl Corner Guards <small>(10 26 13 00-0031)</small>		
	10 26 13 00-0033	LF	1-3/4" Wing, 90 Degree Angle, Surface Mounted, Flexible Vinyl Corner Guard (Pawling CG-9).....	9.23	2.66
			<i>For >50 To 100, Deduct</i>	-1.11	
			<i>For >100 To 200, Deduct</i>	-1.55	
			<i>For >200, Deduct</i>	-2.23	
			<i>For Bolting To Concrete Or Masonry, Add</i>	2.05	
	10 26 13 00-0034	LF	2-1/2" Wing, 90 Degree Angle, Surface Mounted, Flexible Vinyl Corner Guard (Pawling CG-3).....	12.01	2.66
			<i>For >50 To 100, Deduct</i>	-1.11	
			<i>For >100 To 200, Deduct</i>	-1.55	
			<i>For >200, Deduct</i>	-2.37	
			<i>For Bolting To Concrete Or Masonry, Add</i>	2.47	



Specialties	10
Interior Specialties	10 20
Wall And Door Protection	10 26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 26 13 00-0035 LF 4" Wing, 90 Degree Angle, Surface Mounted, Flexible Vinyl Corner Guard (Pawling CG-15) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i> <i>For Bolting To Concrete Or Masonry, Add</i>	14.26 -1.11 -1.55 -2.49 2.80	2.66
10 26 13 00-0036 Polycarbonate Corner Guards (10 26 13)		
10 26 13 00-0037 Surface Mounted, Polycarbonate Corner Guards (10 26 13 00-0036)		
10 26 13 00-0038 90 Degree Angle, Surface Mounted, Polycarbonate Corner Guards (10 26 13 00-0037)		
10 26 13 00-0039 LF 3/4" Wing, 90 Degree Angle, Surface Mounted, Polycarbonate Corner Guard (Pawling CG-16) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	5.88 -1.11 -1.55 -2.07	2.66
10 26 13 00-0040 LF 1-1/8" Wing, 90 Degree Angle, Surface Mounted, Polycarbonate Corner Guard (Pawling CG-17) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	7.24 -1.11 -1.55 -2.13	2.66
10 26 13 00-0041 LF 2" Wing, 90 Degree Angle, Surface Mounted, Polycarbonate Corner Guard (Pawling CG-24)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	8.82 -1.11 -1.55 -2.21	2.66
10 26 13 00-0042 LF 2-1/2" Wing, 90 Degree Angle, Surface Mounted, Polycarbonate Corner Guard (Pawling CG-18) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	9.78 -1.11 -1.55 -2.26	2.66
10 26 13 00-0043 LF Bullnose 2-1/2" Wing, 90 Degree Angle, Surface Mounted, Polycarbonate Corner Guard (Pawling CG-23)..... <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	9.43 -1.11 -1.55 -2.24	2.66
10 26 13 00-0044 135 Degree Angle, Surface Mounted, Polycarbonate Corner Guards (10 26 13 00-0037)		
10 26 13 00-0045 LF 2-1/2" Wing, 135 Degree Angle, Surface Mounted, Polycarbonate Corner Guard (Pawling CG-19) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	9.78 -1.11 -1.55 -2.26	2.66
10 26 13 00-0046 Aluminum Corner Guards (10 26 13)		
10 26 13 00-0047 Surface Mounted, Aluminum Corner Guards (10 26 13 00-0046)		
10 26 13 00-0048 90 Degree Angle, Surface Mounted, Aluminum Corner Guards (10 26 13 00-0047)		
10 26 13 00-0049 LF 1" Wing, 90 Degree Angle, Surface Mounted, Aluminum Corner Guard (Pawling CG-400) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	8.64 -1.11 -1.55 -2.20	2.66
10 26 13 00-0050 LF 2" Wing, 90 Degree Angle, Surface Mounted, Aluminum Corner Guard (Pawling CG-401) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	10.47 -1.11 -1.55 -2.30	2.66
10 26 13 00-0051 LF 3" Wing, 90 Degree Angle, Surface Mounted, Aluminum Corner Guard (Pawling CG-402) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	11.61 -1.11 -1.55 -2.35	2.66
10 26 13 00-0052 135 Degree Angle, Surface Mounted, Aluminum Corner Guards (10 26 13 00-0047)		
10 26 13 00-0053 LF 1" Wing, 135 Degree Angle, Surface Mounted, Aluminum Corner Guard (Pawling CG-403) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	8.64 -1.11 -1.55 -2.20	2.66
10 26 13 00-0054 LF 2" Wing, 135 Degree Angle, Surface Mounted, Aluminum Corner Guard (Pawling CG-404) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	10.47 -1.11 -1.55 -2.30	2.66
10 26 13 00-0055 LF 3" Wing, 135 Degree Angle, Surface Mounted, Aluminum Corner Guard (Pawling CG-405) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	11.61 -1.11 -1.55 -2.35	2.66
10 26 13 00-0056 Steel Corner Guards (10 26 13)		
10 26 13 00-0057 Steel Angle Iron, Corner Guards (10 26 13 00-0056)		
10 26 13 00-0058 Surface Mounted, Steel Angle Iron, Corner Guards (10 26 13 00-0057)		
10 26 13 00-0059 90 Degree Angle, Surface Mounted, Steel Angle Iron, Corner Guards (10 26 13 00-0058)		

10	10	Specialties
	10 20	Interior Specialties
	10 26	Wall And Door Protection



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 26 13 00-0060 LF 1" x 1" x 1/4", 90 Degree Angle, Surface Mounted, Steel Angle Iron, Corner Guard.....	11.27	3.19
For Galvanizing, Add	2.08	
For >50 To 100, Deduct	-1.33	
For >100 To 200, Deduct	-1.86	
For >200, Deduct	-2.69	
10 26 13 00-0061 LF 2" x 2" x 1/4", 90 Degree Angle, Surface Mounted, Steel Angle Iron, Corner Guard.....	14.44	3.46
For Galvanizing, Add	3.04	
For >50 To 100, Deduct	-1.44	
For >100 To 200, Deduct	-2.02	
For >200, Deduct	-3.03	
10 26 13 00-0062 LF 2" x 3" x 1/4", 90 Degree Angle, Surface Mounted, Steel Angle Iron, Corner Guard.....	15.37	3.59
For Galvanizing, Add	3.29	
For >50 To 100, Deduct	-1.50	
For >100 To 200, Deduct	-2.09	
For >200, Deduct	-3.16	
10 26 13 00-0063 LF 3" x 3" x 1/4", 90 Degree Angle, Surface Mounted, Steel Angle Iron, Corner Guard.....	15.72	3.72
For Galvanizing, Add	3.33	
For >50 To 100, Deduct	-1.55	
For >100 To 200, Deduct	-2.17	
For >200, Deduct	-3.27	
10 26 13 00-0064 LF 3" x 4" x 1/4", 90 Degree Angle, Surface Mounted, Steel Angle Iron, Corner Guard.....	19.72	3.85
For Galvanizing, Add	4.65	
For >50 To 100, Deduct	-1.61	
For >100 To 200, Deduct	-2.25	
For >200, Deduct	-3.56	
10 26 13 00-0065 LF 4" x 4" x 1/4", 90 Degree Angle, Surface Mounted, Steel Angle Iron, Corner Guard.....	23.75	3.99
For Galvanizing, Add	5.99	
For >50 To 100, Deduct	-1.66	
For >100 To 200, Deduct	-2.33	
For >200, Deduct	-3.85	
10 26 13 00-0066 LF 6" x 6" x 1/4", 90 Degree Angle, Surface Mounted, Steel Angle Iron, Corner Guard.....	40.76	5.32
For Galvanizing, Add	11.17	
For >50 To 100, Deduct	-2.22	
For >100 To 200, Deduct	-3.10	
For >200, Deduct	-5.58	
10 26 13 00-0067 Stainless Steel Corner Guards (10 26 13)		
10 26 13 00-0068 Stainless Steel Corner Guards (10 26 13 00-0067)		
Note: Includes 16 gauge, type 304 stainless steel corner guards with #4 satin finish.		
10 26 13 00-0069 Surface Mounted, Stainless Steel Corner Guards (10 26 13 00-0068)		
10 26 13 00-0070 90 Degree Angle, Surface Mounted, Stainless Steel Corner Guards (10 26 13 00-0069)		
10 26 13 00-0071 LF 1" Wing, 90 Degree Angle, Surface Mounted, Stainless Steel Corner Guard (Pawling CG-520).....	9.68	2.66
For >50 To 100, Deduct	-1.11	
For >100 To 200, Deduct	-1.55	
For >200, Deduct	-2.26	
10 26 13 00-0072 LF 2" Wing, 90 Degree Angle, Surface Mounted, Stainless Steel Corner Guard (Pawling CG-510).....	11.30	2.66
For >50 To 100, Deduct	-1.11	
For >100 To 200, Deduct	-1.55	
For >200, Deduct	-2.34	
10 26 13 00-0073 LF 3-1/2" Wing, 90 Degree Angle, Surface Mounted, Stainless Steel Corner Guard (Pawling CG-500).....	15.50	2.66
For >50 To 100, Deduct	-1.11	
For >100 To 200, Deduct	-1.55	
For >200, Deduct	-2.55	
10 26 13 00-0074 LF Bullnose 3-1/2" Wing, 90 Degree Angle, Surface Mounted, Stainless Steel Corner Guard (Pawling CG-550).....	15.50	2.66
For >50 To 100, Deduct	-1.11	
For >100 To 200, Deduct	-1.55	
For >200, Deduct	-2.55	
10 26 13 00-0075 135 Degree Angle, Surface Mounted, Stainless Steel Corner Guards (10 26 13 00-0069)		
10 26 13 00-0076 LF 3-1/2" Wing, 135 Degree Angle, Surface Mounted, Stainless Steel Corner Guard (Pawling CG-600).....	15.50	2.66
For >50 To 100, Deduct	-1.11	
For >100 To 200, Deduct	-1.55	
For >200, Deduct	-2.55	
10 26 13 00-0077 LF Bullnose 3-1/2" Wing, 135 Degree Angle, Surface Mounted, Stainless Steel Corner Guard (Pawling CG-650).....	15.50	2.66
For >50 To 100, Deduct	-1.11	
For >100 To 200, Deduct	-1.55	
For >200, Deduct	-2.55	
10 26 13 00-0078 Stainless Steel Angle Iron, Corner Guards (10 26 13 00-0067)		
10 26 13 00-0079 Surface Mounted, Stainless Steel Angle Iron, Corner Guards (10 26 13 00-0078)		
10 26 13 00-0080 90 Degree Angle, Surface Mounted, Stainless Steel Angle Iron, Corner Guards (10 26 13 00-0079)		
10 26 13 00-0081 LF 1" x 1" x 1/4", 90 Degree Angle, Surface Mounted, Stainless Steel Angle Iron, Corner Guard.....	19.06	3.19
For >50 To 100, Deduct	-1.33	
For >100 To 200, Deduct	-1.86	
For >200, Deduct	-3.08	



Specialties	10
Interior Specialties	10 20
Wall And Door Protection	10 26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 26 13 00-0082 LF 2" x 2" x 1/4", 90 Degree Angle, Surface Mounted, Stainless Steel Angle Iron, Corner Guard.....	31.80	3.46
For >50 To 100, Deduct	-1.44	
For >100 To 200, Deduct	-2.02	
For >200, Deduct	-3.89	
10 26 13 00-0083 LF 2" x 3" x 1/4", 90 Degree Angle, Surface Mounted, Stainless Steel Angle Iron, Corner Guard.....	44.54	3.59
For >50 To 100, Deduct	-1.50	
For >100 To 200, Deduct	-2.09	
For >200, Deduct	-4.62	
10 26 13 00-0084 LF 3" x 3" x 1/4", 90 Degree Angle, Surface Mounted, Stainless Steel Angle Iron, Corner Guard.....	41.57	3.72
For >50 To 100, Deduct	-1.55	
For >100 To 200, Deduct	-2.17	
For >200, Deduct	-4.56	
10 26 13 00-0085 LF 3" x 4" x 1/4", 90 Degree Angle, Surface Mounted, Stainless Steel Angle Iron, Corner Guard.....	59.51	3.85
For >50 To 100, Deduct	-1.61	
For >100 To 200, Deduct	-2.25	
For >200, Deduct	-5.55	
10 26 13 00-0086 LF 4" x 4" x 1/4", 90 Degree Angle, Surface Mounted, Stainless Steel Angle Iron, Corner Guard.....	54.94	3.99
For >50 To 100, Deduct	-1.66	
For >100 To 200, Deduct	-2.33	
For >200, Deduct	-5.41	
10 26 13 00-0087 Rubber Corner Guards (10 26 13)		
Note: Includes adhesive for installation.		
10 26 13 00-0088 Natural Rubber Corner Guards (10 26 13 00-0087)		
10 26 13 00-0089 Surface Mounted, Natural Rubber Corner Guards (10 26 13 00-0088)		
10 26 13 00-0090 90 Degree Angle, Surface Mounted, Natural Rubber Corner Guards (10 26 13 00-0089)		
10 26 13 00-0091 LF 4-3/4" Wing, 90 Degree Angle, Surface Mounted, Natural Rubber Corner Guard (Pawling CG-5).....	46.01	2.66
For >50 To 100, Deduct	-1.11	
For >100 To 200, Deduct	-1.55	
For >200, Deduct	-4.07	
For Bolting To Concrete Or Masonry, Add	7.57	
10 26 13 00-0092 Styrene-Butadiene Rubber (SBR) Corner Guards (10 26 13 00-0087)		
10 26 13 00-0093 Surface Mounted, Styrene-Butadiene Rubber (SBR) Corner Guards (10 26 13 00-0092)		
10 26 13 00-0094 90 Degree Angle, Surface Mounted, Styrene-Butadiene Rubber (SBR) Corner Guards (10 26 13 00-0093)		
10 26 13 00-0095 LF 4-5/8" Wing, 90 Degree Angle, Surface Mounted, Styrene-Butadiene Rubber (SBR) Corner Guard (Pawling CG-2).....	20.41	2.66
For >50 To 100, Deduct	-1.11	
For >100 To 200, Deduct	-1.55	
For >200, Deduct	-2.79	
For Bolting To Concrete Or Masonry, Add	3.73	
10 26 13 00-0096 Ethylene Propylene Diene Monomer (EPDM) Rubber Corner Guards (10 26 13 00-0087)		
10 26 13 00-0097 Surface Mounted, Ethylene Propylene Diene Monomer (EPDM) Rubber Corner Guards (10 26 13 00-0096)		
10 26 13 00-0098 90 Degree Angle, Surface Mounted, Ethylene Propylene Diene Monomer (EPDM) Rubber Corner Guards (10 26 13 00-0097)		
10 26 13 00-0099 LF 4-5/8" Wing, 90 Degree Angle, Surface Mounted, Ethylene Propylene Diene Monomer (EPDM) Rubber Corner Guard (Pawling CG-2E).....	17.84	2.66
For >50 To 100, Deduct	-1.11	
For >100 To 200, Deduct	-1.55	
For >200, Deduct	-2.66	
For Bolting To Concrete Or Masonry, Add	3.34	
10 26 16 Bumper Guards (10 26)		
10 26 16 13 Bumper Rails (10 26 16)		
10 26 16 13-0001 Crash Rails (10 26 16 13)		
Note: Includes end caps.		
10 26 16 13-0002 Polycarbonate Crash Rails (10 26 16 13-0001)		
10 26 16 13-0003 LF 3" High, 5/16" Deep, Polycarbonate Crash Rail (Pawling CR-3).....	10.48	3.54
For >50 To 100, Deduct	-1.77	
For >100 To 200, Deduct	-2.48	
For >200, Deduct	-3.36	
10 26 16 13-0004 LF 4" High, 5/16" Deep, Polycarbonate Crash Rail (Pawling CR-4).....	11.68	3.54
For >50 To 100, Deduct	-1.77	
For >100 To 200, Deduct	-2.48	
For >200, Deduct	-3.42	
10 26 16 13-0005 Aluminum Crash Rails (10 26 16 13-0001)		

10	10	Specialties
	10 20	Interior Specialties
	10 26	Wall And Door Protection



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 26 16	13-0006	LF	4" High, 3-1/4" Deep, Aluminum Crash Rail (Pawling CRA-100) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	32.61 -1.77 -2.48 -4.47	3.54
10 26 16	13-0007		Stainless Steel Crash Rails (10 26 16 13-0001)		
10 26 16	13-0008	LF	4" High, 3-1/4" Deep, Stainless Steel Crash Rail (Pawling CRS-100) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	58.13 -1.77 -2.48 -5.74	3.54
10 26 16	13-0009	LF	5-1/2" High, 1-1/2" Deep, Stainless Steel Crash Rail (Pawling CRS-200) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	45.37 -1.77 -2.48 -5.10	3.54
10 26 16	13-0010		Wall Guards (10 26 16 13)		
10 26 16	13-0011		Rigid Vinyl Wall Guards With Aluminum Retainers (10 26 16 13-0010) Note: Includes end caps.		
10 26 16	13-0012	LF	1-1/2" High, 1-1/2" Deep, Flat, Rigid Vinyl Wall Guard With Aluminum Retainer (Pawling WG-1) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	11.00 -1.55 -2.17 -3.03	3.10
10 26 16	13-0013	LF	3" High, 1" Deep, Flat, Rigid Vinyl Wall Guard With Aluminum Retainer (Pawling WG-3) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	13.45 -1.77 -2.48 -3.51	3.54
10 26 16	13-0014	LF	4" High, 3/4" Deep, Flat, Rigid Vinyl Wall Guard With Aluminum Retainer (Pawling WG-4) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	14.64 -1.77 -2.48 -3.57	3.54
10 26 16	13-0015	LF	5" High, 1-1/16" Deep, Curved, Rigid Vinyl Wall Guard With Aluminum Retainer (Pawling WG-5) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	15.28 -1.77 -2.48 -3.60	3.54
10 26 16	13-0016	LF	6" High, 1" Deep, Flat, Rigid Vinyl Wall Guard With Aluminum Retainer (Pawling WG-6) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	18.38 -1.88 -2.64 -3.93	3.76
10 26 16	13-0017	LF	8" High, 1-1/16" Deep, Curved, Rigid Vinyl Wall Guard With Aluminum Retainer (Pawling WG-7) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	18.48 -1.88 -2.64 -3.94	3.76
10 26 16	13-0018	LF	7-3/4" High, 1" Deep, Flat, Rigid Vinyl Wall Guard With Aluminum Retainer (Pawling WG-8) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	19.06 -1.88 -2.64 -3.97	3.76
10 26 16	13-0019	LF	12" High, 2" Deep, Flat, Rigid Vinyl Wall Guard With Aluminum Retainer (Pawling WG-12) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	23.08 -1.99 -2.79 -4.34	3.99
10 26 16	13-0020		Rubber Wall Guards (10 26 16 13-0010)		
10 26 16	13-0021		D-Shaped, Rubber Wall Guards (10 26 16 13-0020)		
10 26 16	13-0022	LF	2" High, 1-3/4" Deep, D-Shaped, Rubber Wall Guard (Pawling D-2) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	15.08 -1.55 -2.17 -3.24	3.10
10 26 16	13-0023	LF	3" High, 3" Deep, D-Shaped, Rubber Wall Guard (Pawling D-3) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	22.40 -1.77 -2.48 -3.96	3.54
10 26 16	13-0024	LF	4" High, 4-1/4" Deep, D-Shaped, Rubber Wall Guard (Pawling D-4) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	33.44 -1.77 -2.48 -4.51	3.54
10 26 16	13-0025	LF	6" High, 6" Deep, D-Shaped, Rubber Wall Guard (Pawling D-6) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	47.35 -1.77 -2.48 -5.20	3.54
10 26 16	13-0026		Rectangular, Rubber Wall Guards (10 26 16 13-0020)		
10 26 16	13-0027	LF	8" High, 1-1/2" Deep, Rectangular, Rubber Wall Guard (Pawling E-1) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	35.79 -1.88 -2.64 -4.80	3.76
10 26 16	13-0028	LF	9" High, 2" Deep, Rectangular, Rubber Wall Guard (Pawling M-2) <i>For >50 To 100, Deduct</i> <i>For >100 To 200, Deduct</i> <i>For >200, Deduct</i>	45.36 -1.99 -2.79 -5.46	3.99



Specialties	10
Interior Specialties	10 20
Wall And Door Protection	10 26

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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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<p>10 26 16 13-0029 Wing Type, Rubber Wall Guards <small>(10 26 16 13-0020)</small></p> <p>10 26 16 13-0030 LF 6" High, 2" Deep, Wing Type, Rubber Wall Guard (Pawling WT-20)59.41 3.54 <i>For >50 To 100, Deduct -1.77</i> <i>For >100 To 200, Deduct -2.48</i> <i>For >200, Deduct -5.81</i></p> <p>10 26 16 13-0031 LF 6" High, 3" Deep, Wing Type, Rubber Wall Guard (Pawling WT-30)63.23 3.54 <i>For >50 To 100, Deduct -1.77</i> <i>For >100 To 200, Deduct -2.48</i> <i>For >200, Deduct -6.00</i></p> <p>10 26 16 13-0032 LF 3-7/8" High, 2-1/2" Deep, Wing Type, Rubber Wall Guard (Pawling WT-25)28.51 3.10 <i>For >50 To 100, Deduct -1.55</i> <i>For >100 To 200, Deduct -2.17</i> <i>For >200, Deduct -3.91</i></p> <p>10 26 16 13-0033 U-Shaped, Rubber Wall Guards <small>(10 26 16 13-0020)</small></p> <p>10 26 16 13-0034 LF 3-1/8" High, 3-7/8" Deep, U-Shaped, Rubber Wall Guard (Pawling U-4)49.96 3.76 <i>For >50 To 100, Deduct -1.88</i> <i>For >100 To 200, Deduct -2.64</i> <i>For >200, Deduct -5.51</i></p> <p>10 26 16 13-0035 LF 4-1/2" High, 3-1/2" Deep, U-Shaped, Rubber Wall Guard (Pawling U-3)56.02 3.76 <i>For >50 To 100, Deduct -1.88</i> <i>For >100 To 200, Deduct -2.64</i> <i>For >200, Deduct -5.81</i></p> <p>10 26 16 13-0036 Accent Rails <small>(10 26 16 13)</small> Note: Includes end caps.</p> <p>10 26 16 13-0037 Oval, Rigid Vinyl Accent Rails With Aluminum Retainers <small>(10 26 16 13-0036)</small></p> <p>10 26 16 13-0038 LF 1-1/8" High, 1-1/16" Deep, Oval, Rigid Vinyl Accent Rail With Aluminum Retainer (Pawling EB-25)13.08 3.10 <i>For >50 To 100, Deduct -1.55</i> <i>For >100 To 200, Deduct -2.17</i> <i>For >200, Deduct -3.14</i></p> <p>10 26 16 13-0039 LF 2" High, 1-1/8" Deep, Oval, Rigid Vinyl Accent Rail With Aluminum Retainer (Pawling EBR-30)13.11 3.10 <i>For >50 To 100, Deduct -1.55</i> <i>For >100 To 200, Deduct -2.17</i> <i>For >200, Deduct -3.14</i></p> <p>10 26 16 13-0040 LF 2" High, 1-3/4" Deep, Oval, Rigid Vinyl Accent Rail With Aluminum Retainer (Pawling WG-22)18.99 3.10 <i>For >50 To 100, Deduct -1.55</i> <i>For >100 To 200, Deduct -2.17</i> <i>For >200, Deduct -3.43</i></p> <p>10 26 16 16 Protective Corridor Handrails <small>(10 26 16)</small></p> <p>10 26 16 16-0001 Protective Corridor Handrails <small>(10 26 16 16)</small></p> <p>10 26 16 16-0002 Vinyl/Acrylic Protective Corridor Handrails With Aluminum Retainers <small>(10 26 16 16-0001)</small></p> <p>10 26 16 16-0003 LF 1-1/2" Diameter, Vinyl/Acrylic Protective Corridor Handrail With Aluminum Retainer (Acrovyn HR-6CN)25.44 6.65 <i>For >50 To 100, Deduct -3.33</i> <i>For >100 To 200, Deduct -4.66</i> <i>For >200, Deduct -6.59</i></p> <p>10 26 16 16-0004 EA End Cap For 1-1/2" Diameter, Vinyl/Acrylic Protective Corridor Handrail With Aluminum Retainer (Acrovyn)21.97 6.65 <i>For >25 To 50, Deduct -3.33</i> <i>For >50 To 100, Deduct -4.66</i> <i>For >100, Deduct -6.42</i></p> <p>10 26 16 16-0005 LF 5-1/2" High, Vinyl/Acrylic Protective Corridor Handrail With Aluminum Retainer (Acrovyn HRB-4C)35.85 6.65 <i>For >50 To 100, Deduct -3.33</i> <i>For >100 To 200, Deduct -4.66</i> <i>For >200, Deduct -7.11</i></p> <p>10 26 16 16-0006 EA End Cap For 5-1/2" High, Vinyl/Acrylic Protective Corridor Handrail With Aluminum Retainer (Acrovyn)28.91 6.65 <i>For >25 To 50, Deduct -3.33</i> <i>For >50 To 100, Deduct -4.66</i> <i>For >100, Deduct -6.77</i></p> <p>10 26 16 16-0007 LF 6-1/4" High, Vinyl/Acrylic Crash And Handrail With Aluminum Retainer (Acrovyn HRB-10CN)37.58 6.65 <i>For >50 To 100, Deduct -3.33</i> <i>For >100 To 200, Deduct -4.66</i> <i>For >200, Deduct -7.20</i></p> <p>10 26 16 16-0008 EA End Cap For 6-1/4" High, Vinyl/Acrylic Crash And Handrail With Aluminum Retainer (Acrovyn)41.05 6.65 <i>For >25 To 50, Deduct -3.33</i> <i>For >50 To 100, Deduct -4.66</i> <i>For >100, Deduct -7.37</i></p> <p>10 26 16 16-0009 LF 6" High, Vinyl/Acrylic Protective Corridor Handrail With Aluminum Retainer (Acrovyn HR-8CN)49.72 6.65 <i>For >50 To 100, Deduct -3.33</i> <i>For >100 To 200, Deduct -4.66</i> <i>For >200, Deduct -7.81</i></p> <p>10 26 16 16-0010 EA End Cap For 6" High, Vinyl/Acrylic Protective Corridor Handrail With Aluminum Retainer (Acrovyn)54.93 6.65 <i>For >25 To 50, Deduct -3.33</i> <i>For >50 To 100, Deduct -4.66</i> <i>For >100, Deduct -8.07</i></p>
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10	10	Specialties
	10 20	Interior Specialties
	10 26	Wall And Door Protection



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 26 16	16-0011		Stainless Steel Protective Corridor Handrails <small>(10 26 16 16-0001)</small>		
10 26 16	16-0012	LF	5-7/8" High, Stainless Steel Protective Corridor Handrail (Acrovyn P-RS).....	67.07	6.65
			<i>For >50 To 100, Deduct</i>	-3.33	
			<i>For >100 To 200, Deduct</i>	-4.66	
			<i>For >200, Deduct</i>	-8.67	
10 26 16	16-0013	EA	End Cap For 5-7/8" High, Stainless Steel Protective Corridor Handrail (Acrovyn).....	68.80	6.65
			<i>For >25 To 50, Deduct</i>	-3.33	
			<i>For >50 To 100, Deduct</i>	-4.66	
			<i>For >100, Deduct</i>	-8.76	
10 26 16	16-0014		Hardwood Protective Corridor Handrails <small>(10 26 16 16-0001)</small>		
			Note: Includes end caps.		
10 26 16	16-0015	LF	4" High, Vinyl Protective Corridor Handrail With 1-1/2" Diameter Wood (Pawling BR-400C).....	26.39	4.84
			<i>For >50 To 100, Deduct</i>	-2.42	
			<i>For >100 To 200, Deduct</i>	-3.39	
			<i>For >200, Deduct</i>	-5.20	
			<i>For Maple, Add</i>	0.50	
10 26 16	16-0016	LF	5-1/2" Diameter, Hardwood Protective Corridor Handrail With Vinyl Inserts (Pawling BR-5500).....	31.80	5.17
			<i>For >50 To 100, Deduct</i>	-2.59	
			<i>For >100 To 200, Deduct</i>	-3.62	
			<i>For >200, Deduct</i>	-5.73	
10 26 16	16-0017	LF	1-1/2" Diameter, Hardwood Protective Corridor Handrail (Pawling BR-1500).....	22.82	4.84
			<i>For >50 To 100, Deduct</i>	-2.42	
			<i>For >100 To 200, Deduct</i>	-3.39	
			<i>For >200, Deduct</i>	-5.02	
			<i>For Maple, Add</i>	5.65	
			<i>For Oak, Add</i>	6.30	
10 26 23			Protective Wall Covering <small>(10 26)</small>		
10 26 23 13			Impact Resistant Wall Protection <small>(10 26 23)</small>		
10 26 23 13-0001			Impact Resistant Wall Protection <small>(10 26 23 13)</small>		
			Note: Includes standard trim.		
10 26 23 13-0002	SF		0.030" Rigid Vinyl, Impact Resistant Wall Covering (Pawling WC-30).....	6.97	2.21
10 26 23 13-0003	SF		0.040" Rigid Vinyl, Impact Resistant Wall Covering (Pawling WC-40).....	7.28	2.21
10 26 23 13-0004	SF		0.060" Rigid Vinyl, Impact Resistant Wall Covering (Pawling WC-60).....	9.07	2.21
10 26 23 13-0005			Interior Polyvinyl Chloride (PVC) Soffit System <small>(10 26 23 13)</small>		
			Note: DecoShield Systems, Inc. Concealment system for fire sprinkler piping, plumbing lines, HVAC, cable and conduit.		
10 26 23 13-0006			"L" Design <small>(10 26 23 13-0005)</small>		
10 26 23 13-0007			L-Shield <small>(10 26 23 13-0006)</small>		
10 26 23 13-0008	LF		2.38" Depth L-Shield Cover, Duplex Polyvinyl Chloride (PVC), 1" Shield Size For 3/4" And 1" Pipe.....	10.74	2.21
10 26 23 13-0009	LF		3" Depth L-Shield Cover, Duplex Polyvinyl Chloride (PVC), 1-1/4" Shield Size For 1-1/4" And 1-1/2" Pipe.....	12.66	3.10
10 26 23 13-0010	LF		3.75" Depth L-Shield Cover, Duplex Polyvinyl Chloride (PVC), 2" Shield Size For 2" Pipe.....	16.58	3.99
10 26 23 13-0011	LF		5.75" Depth L-Shield Cover, Duplex Polyvinyl Chloride (PVC), 2-1/2" Shield Size For 2-1/2" Pipe.....	22.50	4.88
10 26 23 13-0012			"Combo" Hanger <small>(10 26 23 13-0006)</small>		
10 26 23 13-0013	EA		Combination "Combo" Hanger, L-Support, For 3/4" Pipe.....	12.70	4.44
10 26 23 13-0014	EA		Combination "Combo" Hanger, L-Support, For 1" Pipe.....	14.78	5.32
10 26 23 13-0015	EA		Combination "Combo" Hanger, L-Support, For 1-1/4" Pipe.....	17.09	6.21
10 26 23 13-0016	EA		Combination "Combo" Hanger, L-Support, For 1-1/2" Pipe.....	19.10	7.09
10 26 23 13-0017	EA		Combination "Combo" Hanger, L-Support, For 2" Pipe.....	21.41	7.98
10 26 23 13-0018			Snap-2 Pipe Hanger <small>(10 26 23 13-0006)</small>		
10 26 23 13-0019	EA		Snap-2 Pipe Hanger, L-Support, For 3/4" Pipe.....	10.86	4.44
10 26 23 13-0020	EA		Snap-2 Pipe Hanger, L-Support, For 1" Pipe.....	13.16	5.32
10 26 23 13-0021	EA		Snap-2 Pipe Hanger, L-Support, For 1-1/4" Pipe.....	15.33	6.21
10 26 23 13-0022	EA		Snap-2 Pipe Hanger, L-Support, For 1-1/2" Pipe.....	17.80	7.09
10 26 23 13-0023	EA		Snap-2 Pipe Hanger, L-Support, For 2" Pipe.....	20.34	7.98
10 26 23 13-0024			Coupling <small>(10 26 23 13-0006)</small>		
10 26 23 13-0025	EA		Coupling, L-Shield, 1" Shield Size.....	6.82	2.21
10 26 23 13-0026	EA		Coupling, L-Shield, 1-1/4" Shield Size.....	9.82	3.10
10 26 23 13-0027	EA		Coupling, L-Shield, 2" Shield Size.....	13.89	3.99
10 26 23 13-0028	EA		Coupling, L-Shield, 2-1/2" Shield Size.....	17.35	4.88
10 26 23 13-0029			Coupling, Reducer <small>(10 26 23 13-0006)</small>		
10 26 23 13-0030	EA		Coupling, Reducing, L-Shield, 1-1/4" x 1" Shield Size.....	17.61	2.66
10 26 23 13-0031	EA		Coupling, Reducing, L-Shield, 2" x 1" Shield Size.....	21.57	3.10
10 26 23 13-0032	EA		Coupling, Reducing, L-Shield, 2" x 1-1/4" Shield Size.....	25.52	3.54
10 26 23 13-0033	EA		Coupling, Reducing, L-Shield, 2-1/2" x 2" Shield Size.....	95.48	4.44



Specialties	10
Interior Specialties	10 20
Wall And Door Protection	10 26

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 26 23 13-0034 Shield Clips <small>(10 26 23 13-0006)</small>		
10 26 23 13-0035 EA Shield Clips, L-Support, 1" Shield Size	4.12	1.33
10 26 23 13-0036 EA Shield Clips, L-Support, 1-1/4" Shield Size	6.28	2.21
10 26 23 13-0037 EA Shield Clips, L-Support, 2" Shield Size	8.36	3.10
10 26 23 13-0038 EA Shield Clips, L-Support, 2-1/2" Shield Size	9.67	3.99
10 26 23 13-0039 Wall Flange <small>(10 26 23 13-0006)</small>		
10 26 23 13-0040 EA Wall Flange, L-Shield, 1" Shield Size	6.67	2.21
10 26 23 13-0041 EA Wall Flange, L-Shield, 1-1/4" Shield Size	9.51	3.10
10 26 23 13-0042 EA Wall Flange, L-Shield, 2" Shield Size	13.59	3.99
10 26 23 13-0043 EA Wall Flange, L-Shield, 2-1/2" Shield Size	50.96	4.88
10 26 23 13-0044 End Cap <small>(10 26 23 13-0006)</small>		
10 26 23 13-0045 EA End Cap, L-Shield, 1" Shield Size	6.42	1.33
10 26 23 13-0046 EA End Cap, L-Shield, 1-1/4" Shield Size	8.74	2.21
10 26 23 13-0047 EA End Cap, L-Shield, 2" Shield Size	12.12	3.10
10 26 23 13-0048 EA End Cap, L-Shield, 2-1/2" Shield Size	51.45	3.99
10 26 23 13-0049 Inside/Outside Corner <small>(10 26 23 13-0006)</small>		
10 26 23 13-0050 EA Inside/Outside Corner, L-Shield, 1" Shield Size	38.27	4.44
10 26 23 13-0051 EA Inside/Outside Corner, L-Shield, 1-1/4" Shield Size	41.50	5.32
10 26 23 13-0052 EA Inside/Outside Corner, L-Shield, 2" Shield Size	50.24	6.65
10 26 23 13-0053 EA Inside/Outside Corner, L-Shield, 2-1/2" Shield Size	86.23	7.98
10 26 23 13-0054 Joiner <small>(10 26 23 13-0006)</small>		
10 26 23 13-0055 LF Joiner, L-Shield	8.11	1.33
10 26 23 13-0056 "U" Design <small>(10 26 23 13-0005)</small>		
10 26 23 13-0057 U-Shield <small>(10 26 23 13-0056)</small>		
10 26 23 13-0058 LF 2.25" Depth U-Shield Cover, Duplex Polyvinyl Chloride (PVC), 1" Shield Size For 3/4" And 1" Pipe	12.73	2.21
10 26 23 13-0059 LF 2.875" Depth U-Shield Cover, Duplex Polyvinyl Chloride (PVC), 1-1/4" Shield Size For 1-1/4" Pipe	16.04	3.10
10 26 23 13-0060 LF 3.68" Depth U-Shield Cover, Duplex Polyvinyl Chloride (PVC), 2" Shield Size For 1-1/2" And 2" Pipe	20.50	3.10
10 26 23 13-0061 "Combo" Hanger <small>(10 26 23 13-0056)</small>		
10 26 23 13-0062 EA Combination "Combo" Hanger, U-Support For 3/4" Pipe	11.24	4.44
10 26 23 13-0063 EA Combination "Combo" Hanger, U-Support For 1" Pipe	13.39	5.32
10 26 23 13-0064 EA Combination "Combo" Hanger, U-Support For 1-1/4" Pipe	15.48	6.21
10 26 23 13-0065 EA Combination "Combo" Hanger, U-Support For 1-1/2" Pipe	18.87	7.09
10 26 23 13-0066 EA Combination "Combo" Hanger, U-Support For 2" Pipe	21.34	7.98
10 26 23 13-0067 Snap-2 Pipe Hanger <small>(10 26 23 13-0056)</small>		
10 26 23 13-0068 EA Snap-2 Pipe Hanger, U-Support, For 3/4" Pipe	10.70	4.44
10 26 23 13-0069 EA Snap-2 Pipe Hanger, U-Support, For 1" Pipe	13.01	5.32
10 26 23 13-0070 EA Snap-2 Pipe Hanger, U-Support, For 1-1/4" Pipe	15.71	6.21
10 26 23 13-0071 EA Snap-2 Pipe Hanger, U-Support, For 1-1/2" Pipe	17.65	7.09
10 26 23 13-0072 EA Snap-2 Pipe Hanger, U-Support, For 2" Pipe	20.26	7.98
10 26 23 13-0073 Coupling <small>(10 26 23 13-0056)</small>		
10 26 23 13-0074 EA Coupling, U-Shield, 1" Shield Size	7.90	2.21
10 26 23 13-0075 EA Coupling, U-Shield, 1-1/4" Shield Size	10.05	3.10
10 26 23 13-0076 EA Coupling, U-Shield, 2" Shield Size	12.36	3.99
10 26 23 13-0077 Coupling, Reducer <small>(10 26 23 13-0056)</small>		
10 26 23 13-0078 EA Reducing Coupling, U-Shield, 1-1/4" x 1" Shield Size	20.68	2.66
10 26 23 13-0079 EA Reducing Coupling, U-Shield, 2" x 1" Shield Size	24.64	3.10
10 26 23 13-0080 EA Reducing Coupling, U-Shield, 2" x 1-1/4" Shield Size	26.29	3.54
10 26 23 13-0081 Shield Clips <small>(10 26 23 13-0056)</small>		
10 26 23 13-0082 EA Shield Clips, U-Support, 1" Shield Size	3.81	1.33
10 26 23 13-0083 EA Shield Clips, U-Support, 1-1/4" Shield Size	5.75	2.21
10 26 23 13-0084 EA Shield Clips, U-Support, 2" Shield Size	7.67	3.10
10 26 23 13-0085 Wall Flange <small>(10 26 23 13-0056)</small>		
10 26 23 13-0086 EA Wall Flange, U-Shield, 1" Shield Size	7.67	2.21
10 26 23 13-0087 EA Wall Flange, U-Shield, 1-1/4" Shield Size	9.97	3.10

10 Specialties**10 20 Interior Specialties****10 26 Wall And Door Protection**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 26 23 13-0088 EA Wall Flange, U-Shield, 2" Shield Size	12.28	3.99
10 26 23 13-0089 End Cap <small>(10 26 23 13-0056)</small>		
10 26 23 13-0090 EA End Cap, U-Shield, 1" Shield Size	6.81	1.33
10 26 23 13-0091 EA End Cap, U-Shield, 1-1/4" Shield Size	9.35	2.21
10 26 23 13-0092 EA End Cap, U-Shield, 2" Shield Size	11.82	3.10
10 26 23 13-0093 Inside/Outside Corner <small>(10 26 23 13-0056)</small>		
10 26 23 13-0094 EA Inside/Outside Corner, U-Shield, 1" Shield Size	47.56	4.44
10 26 23 13-0095 EA Inside/Outside Corner, U-Shield, 1-1/4" Shield Size	53.10	5.32
10 26 23 13-0096 EA Inside/Outside Corner, U-Shield, 2" Shield Size	62.99	6.65
10 26 23 13-0097 Elbow <small>(10 26 23 13-0056)</small>		
10 26 23 13-0098 EA Elbow, U-Shield, 1" Shield Size	46.72	4.44
10 26 23 13-0099 EA Elbow, U-Shield, 1-1/4" Shield Size	51.56	5.32
10 26 23 13-0100 EA Elbow, U-Shield, 2" Shield Size	61.53	6.65
10 26 23 13-0101 Tee <small>(10 26 23 13-0056)</small>		
10 26 23 13-0102 EA Tee, U-Shield, 1" x 1" x 1" Shield Size	59.61	6.65
10 26 23 13-0103 EA Tee, U-Shield, 1-1/4" x 1-1/4" x 1-1/4" Shield Size	66.57	7.98
10 26 23 13-0104 EA Tee, U-Shield, 2" x 2" x 2" Shield Size	77.94	9.75
10 26 23 13-0105 EA Tee, U-Shield, 1-1/4" x 1-1/4" x 1" Shield Size	78.04	7.54
10 26 23 13-0106 EA Tee, U-Shield, 2" x 2" x 1-1/4" Shield Size	84.73	9.31
10 26 23 13-0107 Cross <small>(10 26 23 13-0056)</small>		
10 26 23 13-0108 EA Cross, U-Shield, 1" Shield Size	106.43	8.86
10 26 23 13-0109 EA Cross, U-Shield, 1-1/4" Shield Size	119.58	10.63
10 26 23 13-0110 EA Cross, U-Shield, 2" Shield Size	145.47	13.30
10 26 23 13-0111 EA Cross, U-Shield, 1-1/4" x 1" Shield Size	144.83	9.75
10 26 23 13-0112 EA Cross, U-Shield, 2" x 1-1/4" Shield Size	159.86	11.97
10 26 23 13-0113 Transition Fittings (L to U Or U to L) <small>(10 26 23 13-0005)</small>		
10 26 23 13-0114 Coupling Transition <small>(10 26 23 13-0113)</small>		
10 26 23 13-0115 EA Transition Coupling, 1" x 1", LxU or UxL	18.42	2.21
10 26 23 13-0116 EA Transition Coupling, 1-1/4" x 1-1/4", LxU or UxL	21.11	3.10
10 26 23 13-0117 EA Transition Coupling, 2" x 2", LxU or UxL	26.33	3.99
10 26 23 13-0118 EA Transition Coupling, 1" x 1-1/4", LxU or UxL	20.91	2.66
10 26 23 13-0119 EA Transition Coupling, 1-1/4" x 2", LxU or UxL	26.14	3.54
10 26 23 13-0120 EA Transition Coupling, 2" x 2-1/2", LxU or UxL	99.86	4.44
10 26 23 13-0121 Elbow Transition <small>(10 26 23 13-0113)</small>		
10 26 23 13-0122 EA Transition Elbow, 1" x 1" (UxL)	62.16	4.44
10 26 23 13-0123 EA Transition Elbow, 1-1/4" x 1-1/4" (UxL)	67.61	5.32
10 26 23 13-0124 EA Transition Elbow, 2" x 2" (UxL)	79.50	6.65
10 26 23 13-0125 EA Transition Elbow, 1" x 1-1/4" (UxL)	95.76	4.88
10 26 23 13-0126 EA Transition Elbow, 1-1/4" x 1" (UxL)	68.42	4.88
10 26 23 13-0127 EA Transition Elbow, 1-1/4" x 2" (UxL)	101.65	6.21
10 26 23 13-0128 EA Transition Elbow, 2" x 1-1/4" (UxL)	79.45	6.21
10 26 23 13-0129 EA Transition Elbow, 2" x 2-1/2" (UxL)	122.01	7.09
10 26 23 13-0130 Tee Transition <small>(10 26 23 13-0113)</small>		
10 26 23 13-0131 EA Transition Tee, 1" x 1" x 1" (LxLxU)	71.97	6.65
10 26 23 13-0132 EA Transition Tee, 1-1/4" x 1-1/4" x 1-1/4" (LxLxU)	83.39	7.98
10 26 23 13-0133 EA Transition Tee, 2" x 2" x 2" (LxLxU)	97.22	9.75
10 26 23 13-0134 EA Transition Tee, 1-1/4" x 1-1/4" x 1" (LxLxU)	76.28	7.54
10 26 23 13-0135 EA Transition Tee, 1-1/4" x 1-1/4" x 2" (LxLxU)	118.21	8.42
10 26 23 13-0136 EA Transition Tee, 2" x 2" x 1-1/4" (LxLxU)	85.42	9.31
10 26 23 13-0137 EA Transition Tee, 2-1/2" x 2-1/2" x 2" (LxLxU)	115.85	11.08
10 26 23 13-0138 Fittings (L Or U) <small>(10 26 23 13-0005)</small>		
10 26 23 13-0139 Hugger Hangers For Steel Pipe <small>(10 26 23 13-0136)</small>		
10 26 23 13-0140 EA Hugger Hanger, For 1/2" Steel Pipe	8.70	3.54
10 26 23 13-0141 EA Hugger Hanger, For 3/4" Steel Pipe	10.86	4.44
10 26 23 13-0142 EA Hugger Hanger, For 1" Steel Pipe	12.78	5.32
10 26 23 13-0143 EA Hugger Hanger, For 1-1/4" Steel Pipe	14.79	6.21
10 26 23 13-0144 EA Hugger Hanger, For 1-1/2" Steel Pipe	16.72	7.09
10 26 23 13-0145 EA Hugger Hanger, For 2" Steel Pipe	18.80	7.98
10 26 23 13-0146 EA Hugger Hanger, For 2-1/2" Steel Pipe	20.73	8.86
10 26 23 13-0147 EA Hugger Hanger, For 3" Steel Pipe	25.34	9.75



Specialties	10
Interior Specialties	10 20
Wall And Door Protection	10 26

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 26 23	13-0148		Hugger Hangers For Copper Pipe <small>(10 26 23 13-0138)</small>		
10 26 23	13-0149	EA	1/2" Copper Pipe, Hugger Hanger	8.78	3.54
10 26 23	13-0150	EA	3/4" Copper Pipe, Hugger Hanger	10.93	4.44
10 26 23	13-0151	EA	1" Copper Pipe, Hugger Hanger	12.86	5.32
10 26 23	13-0152	EA	1-1/4" Copper Pipe, Hugger Hanger	14.87	6.21
10 26 23	13-0153	EA	1-1/2" Copper Pipe, Hugger Hanger	16.80	7.09
10 26 23	13-0154	EA	2" Copper Pipe, Hugger Hanger	18.96	7.98
10 26 23	13-0155	EA	2-1/2" Copper Pipe, Hugger Hanger	20.88	8.86
10 26 23	13-0156	EA	3" Copper Pipe, Hugger Hanger	25.57	9.75
10 26 23	13-0157		Shield Extension (L Or U) <small>(10 26 23 13-0138)</small>		
10 26 23	13-0158	LF	Shield Extension	9.73	1.33
10 26 23	13-0159		Interior Steel Soffit System <small>(10 26 23 13)</small>		
Note: Concealment system for fire sprinkler piping, plumbing lines, HVAC, cable and conduit. Includes factory painted finish and field touch-up.					
10 26 23	13-0160	SF	24 Gauge Steel, U-Shield (JG Innovations Soffi-Steel).....	19.14	3.99
			<i>For 22 Gauge Steel, Add</i>	1.12	
			<i>For 20 Gauge Steel, Add</i>	2.39	
			<i>For 18 Gauge Steel, Add</i>	4.69	
			<i>For 16 Gauge Steel, Add</i>	7.20	
			<i>For Stainless Steel, Add</i>	2.79	
10 26 23	13-0161	EA	U-Shield Wall Flange (JG Innovations Soffi-Steel).....	32.33	11.08
			<i>For Stainless Steel, Add</i>	2.54	
10 26 23	13-0162	EA	U-Shield Corner (JG Innovations Soffi-Steel).....	74.92	13.30
			<i>For Stainless Steel, Add</i>	11.86	
10 26 23	13-0163	EA	U-Shield End Cap (JG Innovations Soffi-Steel).....	24.15	6.65
			<i>For Stainless Steel, Add</i>	2.71	
10 26 23	13-0164	EA	U-Shield Clip (JG Innovations Soffi-Steel)	5.75	2.66
			<i>For Stainless Steel, Add</i>	0.11	
10 26 23	13-0165	SF	24 Gauge Steel, L-Shield (JG Innovations Soffi-Steel)	21.51	3.99
			<i>For 22 Gauge Steel, Add</i>	1.01	
			<i>For 20 Gauge Steel, Add</i>	2.16	
			<i>For 18 Gauge Steel, Add</i>	4.19	
			<i>For 16 Gauge Steel, Add</i>	7.04	
			<i>For Stainless Steel, Add</i>	3.38	
10 26 23	13-0166	EA	L-Shield Wall Flange (JG Innovations Soffi-Steel)	32.33	11.08
			<i>For Stainless Steel, Add</i>	2.54	
10 26 23	13-0167	EA	L-Shield Corner (JG Innovations Soffi-Steel)	74.92	13.30
			<i>For Stainless Steel, Add</i>	11.86	
10 26 23	13-0168	EA	L-Shield End Cap (JG Innovations Soffi-Steel)	20.60	4.88
			<i>For Stainless Steel, Add</i>	2.71	
10 26 23	13-0169	EA	L-Shield Clip (JG Innovations Soffi-Steel)	5.75	2.66
			<i>For Stainless Steel, Add</i>	0.11	
10 26 41			Bullet Resistant Panels <small>(10 26)</small>		
10 26 41	00-0001		Laminated Bullet Resistant Fiberglass Panel <small>(10 26 41)</small>		
Note: Material consisting of multiple layers of woven roving ballistic grade fiberglass cloth impregnated with a thermoset polyester resin and compressed into rigid flat sheets.					
10 26 41	00-0002	SF	1/8" Thick Ballistic Resistant Fiberglass Panel, 1.2 LB/SF.....	13.84	1.25
10 26 41	00-0003	SF	3/16" Thick Ballistic Resistant Fiberglass Panel, 2 LB/SF.....	18.59	1.34
10 26 41	00-0004	SF	1/4" Thick Ballistic Resistant Fiberglass Panel, 2.4 To 2.6 LB/SF.....	20.95	1.43
10 26 41	00-0005	SF	5/16" Thick Ballistic Resistant Fiberglass Panel, 3 To 3.6 LB/SF.....	22.31	1.51
10 26 41	00-0006	SF	3/8" Thick Ballistic Resistant Fiberglass Panel, 3.6 To 3.9 LB/SF.....	24.13	1.60
10 26 41	00-0007	SF	7/16" Thick Ballistic Resistant Fiberglass Panel, 4 To 4.9 LB/SF.....	25.94	1.69
10 26 41	00-0008	SF	9/16" Thick Ballistic Resistant Fiberglass Panel, 5.5 To 6.6 LB/SF.....	43.18	2.05
10 26 41	00-0009	SF	1-1/8" Thick Ballistic Resistant Fiberglass Panel, 11 To 11.7 LB/SF	61.92	3.20
10 26 41	00-0010	SF	1-3/16" Thick Ballistic Resistant Fiberglass Panel, 12 To 13.2 LB/SF	73.34	3.83
10 26 41	00-0011	SF	1-5/16" Thick Ballistic Resistant Fiberglass Panel, 13.4 To 14 LB/SF	88.90	4.19
10 26 41	00-0012	SF	1-7/16" Thick Ballistic Resistant Fiberglass Panel, 15.2 To 16 LB/SF	100.85	4.45
10 28			Toilet, Bath, And Laundry Accessories <small>(10 20)</small>		
10 28 13			Toilet Accessories <small>(10 28)</small>		
10 28 13 13			Commercial Toilet Accessories <small>(10 28 13)</small>		
10 28 13 13-0001			Toilet Accessories <small>(10 28 13 13)</small>		
10 28 13 13-0002			Dispensers <small>(10 28 13 13-0001)</small>		
10 28 13 13-0003			Paper Towel Dispensers <small>(10 28 13 13-0002)</small>		
10 28 13 13-0004			Stainless Steel Paper Towel Dispensers <small>(10 28 13 13-0003)</small>		
10 28 13 13-0005	EA		Surface Mounted, Stainless Steel Folded Paper Towel Dispenser (Bobrick Classic B-262).....	84.71	19.94
10 28 13 13-0006	EA		Surface Mounted, Stainless Steel Folded Paper Towel Dispenser (Bobrick B-2620)	90.36	19.94
10 28 13 13-0007	EA		Surface Mounted, Stainless Steel Folded Paper Towel Dispenser (Bobrick B-2621)	91.20	19.94

10 Specialties**10 20 Interior Specialties****10 28 Toilet, Bath, And Laundry Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 28 13 13-0008 EA Surface Mounted, Stainless Steel Folded Paper Towel Dispenser (Bobrick Classic B-26212).....	92.83	19.94
10 28 13 13-0009 EA Surface Mounted, Stainless Steel Folded Paper Towel Dispenser (Bobrick B-263)	137.51	19.94
10 28 13 13-0010 EA Recessed Mounted, Stainless Steel Folded Paper Towel Dispenser (Bobrick Classic B-359)	148.68	19.94
10 28 13 13-0011 EA Surface Mounted, Stainless Steel Folded Paper Towel Dispenser (Bobrick Contura B-4262).....	161.90	19.94
10 28 13 13-0012 EA Countertop Recessed Mounted, Stainless Steel Folded Paper Towel Dispenser (Bobrick TrimLine B-526).....	166.17	8.86
10 28 13 13-0013 EA Concealed Cabinet, Recessed Mounted, Stainless Steel Folded Paper Towel Dispenser (Bobrick B-318)	279.63	19.94
10 28 13 13-0014 EA Touch Free, Surface Mounted, Stainless Steel Roll Paper Towel Dispenser (Bobrick B-2860).....	329.22	19.94
10 28 13 13-0015 EA Recessed Mounted, Stainless Steel Folded Paper Towel Dispenser (Bobrick B-4369).....	354.85	19.94
10 28 13 13-0016 EA Recessed Automated Touchless Towel Dispenser, Stainless (Georgia-Pacific enMotion® 59466)	203.88	19.94
10 28 13 13-0017 EA Stainless Steel Mounting Bracket For Wall Mounting enMotion Recessed Automated Touchless Towel Dispenser (Georgia-Pacific enMotion® 59476).....	94.49	11.07
10 28 13 13-0018 Plastic Paper Towel Dispensers (10 28 13 13-0003)		
10 28 13 13-0019 EA Surface Mounted, Acrylonitrile Butadiene Styrene (ABS) Plastic Folded Paper Towel Dispenser (Bobrick Matrix B- 5262).....	65.43	19.94
10 28 13 13-0020 EA Surface Mounted, Acrylonitrile Butadiene Styrene (ABS) Plastic Roll Paper Towel Dispenser (Bobrick Matrix B- 52860).....	130.38	19.94
10 28 13 13-0021 EA Surface Mounted, Translucent Cover, Acrylonitrile Butadiene Styrene (ABS) Plastic Roll Paper Towel Dispenser (Bobrick B-72860).....	129.51	19.94
10 28 13 13-0022 EA Surface Mounted, Automated Touchless Towel Dispenser, Translucent Plastic (Georgia-Pacific enMotion® 59462).....	110.83	19.94
10 28 13 13-0023 Aluminum Paper Towel Dispensers (10 28 13 13-0003)		
10 28 13 13-0024 EA Surface Mounted, Heavy-Duty Aluminum Casting Roll Paper Towel Dispenser (Bobrick B-253).....	71.09	19.94
10 28 13 13-0025 Toilet Tissue Dispensers (10 28 13 13-0002)		
10 28 13 13-0026 Plastic Toilet Tissue Dispensers (10 28 13 13-0025)		
10 28 13 13-0027 EA Two Roll, Surface Mounted, Acrylonitrile Butadiene Styrene (ABS) Plastic Toilet Tissue Dispenser (Bobrick B- 5288).....	65.22	19.94
10 28 13 13-0028 EA Two Jumbo Roll, Surface Mounted, Acrylonitrile Butadiene Styrene (ABS) Plastic Toilet Tissue Dispenser (Georgia Pacific 58250)	181.03	19.94
10 28 13 13-0029 EA Vertical Double Roll, Surface Mounted, Translucent Plastic Steel Coreless Toilet Tissue Dispenser (Georgia- Pacific Compact® 56760).....	57.01	19.94
10 28 13 13-0030 EA Side By Side Double Roll, Surface Mounted, Translucent Plastic Toilet Tissue Dispenser (Georgia-Pacific Compact® 56784).....	66.66	19.94
10 28 13 13-0031 Cast Aluminum Toilet Tissue Dispensers (10 28 13 13-0025)		
10 28 13 13-0032 EA Single Roll Without Controlled Delivery, Surface Mounted, Cast Aluminum Toilet Tissue Dispenser (Bobrick B- 2730).....	59.36	19.94
10 28 13 13-0033 EA Single Roll With Controlled Delivery, Surface Mounted, Cast Aluminum Toilet Tissue Dispenser (Bobrick B-273)	59.77	19.94
10 28 13 13-0034 EA Two Roll Without Controlled Delivery, Surface Mounted, Cast Aluminum Toilet Tissue Dispenser (Bobrick B-2740)	62.71	19.94
10 28 13 13-0035 EA Two Roll With Controlled Delivery, Surface Mounted, Cast Aluminum Toilet Tissue Dispenser (Bobrick B-274)	68.16	19.94
10 28 13 13-0036 EA Two Roll Without Controlled Delivery, Surface Mounted, Cast Aluminum Toilet Tissue Dispenser (Bobrick B- 27460).....	88.27	19.94
10 28 13 13-0037 Stainless Steel Toilet Tissue Dispensers (10 28 13 13-0025)		
10 28 13 13-0038 EA Single Roll, Surface Mounted, Stainless Steel Toilet Tissue Dispenser (Bobrick Classic B-264)	51.19	19.94
10 28 13 13-0039 EA Single Roll, Recessed Mounted, Stainless Steel Toilet Tissue Dispenser (Bobrick B-663)	78.42	19.94
10 28 13 13-0040 EA Single Jumbo Roll, Surface Mounted, Stainless Steel Toilet Tissue Dispenser (Bobrick B-2890)	78.56	19.94
10 28 13 13-0041 EA Single Fold/Double Fold, Surface Mounted, Stainless Steel Toilet Tissue Cabinet (Bobrick B-272).....	91.41	19.94
10 28 13 13-0042 EA Two Roll, Surface Mounted, Stainless Steel Toilet Tissue Dispenser (Bobrick Classic B-265).....	58.93	19.94
10 28 13 13-0043 EA Two Roll, Surface Mounted, Stainless Steel Toilet Tissue Dispenser (Bobrick Classic B-2888).....	97.90	19.94
10 28 13 13-0044 EA Two Roll, Recessed Mounted, Stainless Steel Toilet Tissue Dispenser (Bobrick Classic B-3888)	137.16	19.94
10 28 13 13-0045 EA Two Roll, Surface Mounted, Stainless Steel Toilet Tissue Dispenser (Bobrick Contura B-4288).....	142.54	19.94
10 28 13 13-0046 EA Two Roll, Recessed Mounted, Stainless Steel Toilet Tissue Dispenser (Bobrick Contura B-4388).....	180.32	19.94
10 28 13 13-0047 EA Two Jumbo Roll, Surface Mounted, Stainless Steel Toilet Tissue Dispenser (Bobrick B-2892)	206.86	19.94
10 28 13 13-0048 EA Four Roll, Partition Mounted, Stainless Steel Toilet Tissue Dispenser (Bobrick B-386).....	256.74	19.94
Note: Mounts centered through toilet partitions.		
10 28 13 13-0049 EA Stainless Steel Shelf And Double Roll Toilet Tissue Dispenser (Bobrick B-2840)	112.16	19.94
10 28 13 13-0050 EA Vertical Double Roll, Surface Mounted, Stainless Steel Coreless Toilet Tissue Dispenser (Georgia-Pacific Compact® 56782).....	103.96	19.94
10 28 13 13-0051 EA Side By Side Double Roll, Surface Mounted, Stainless Steel Toilet Tissue Dispenser (Georgia-Pacific Compact® 56796).....	84.53	19.94
10 28 13 13-0052 Soap Dispensers (10 28 13 13-0002)		
10 28 13 13-0053 EA 20 Fluid Ounce, 4" Spout, Top-Filling Lavatory Mounted, Chrome Plated Soap Dispenser (Bobrick B-8221).....	77.38	19.94
For 34 Fluid Ounce (B-822), Add	4.24	
10 28 13 13-0054 EA 20 Fluid Ounce, 6" Spout, Top-Filling Lavatory Mounted, Chrome Plated Soap Dispenser (Bobrick B-82216).....	83.66	19.94
For 34 Fluid Ounce (B-822), Add	4.24	
10 28 13 13-0055 EA 24 Fluid Ounce, Surface Mounted, Translucent Polyethylene Soap Dispenser (Bobrick B-156)	53.49	19.94
10 28 13 13-0056 EA 24 Fluid Ounce, Surface Mounted, Chrome-Plated, Translucent Polyethylene Soap Dispenser (Bobrick B-155)	57.89	19.94
10 28 13 13-0057 EA 40 Fluid Ounce, Concealed Surface Mounted, Translucent Soap Dispenser (Bobrick B-40).....	69.98	19.94
10 28 13 13-0058 EA 40 Fluid Ounce, Surface Mounted, Translucent Plastic Soap Dispenser (Bobrick Classic B-42).....	71.79	19.94
10 28 13 13-0059 EA 40 Fluid Ounce, Surface Mounted, Stainless Steel Soap Dispenser (Bobrick Classic B-2111/2112)	78.63	19.94



Specialties	10
Interior Specialties	10 20
Toilet, Bath, And Laundry Accessories	10 28

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 28 13 13-0060 EA 40 Fluid Ounce, Surface Mounted, Stainless Steel Soap Dispenser (Bobrick Contura B-4112).....	98.54	19.94
10 28 13 13-0061 EA 45 Fluid Ounce, Recessed Mounted, Stainless Steel Soap Dispenser (Bobrick B-306).....	166.28	19.94
10 28 13 13-0062 EA 50 Fluid Ounce, Recessed Mounted, Stainless Steel Soap Dispenser (Bobrick Contura B-4063).....	262.87	19.94
10 28 13 13-0063 EA 800 ml, Lavatory Mounted, Chrome Plated Automatic Soap Dispenser (Bobrick B-826.18).....	164.46	19.94
Note: Includes start-up kit.		
10 28 13 13-0064 Facial Tissue Dispensers (10 28 13 13-0002)		
10 28 13 13-0065 EA Surface Mounted, Stainless Steel Facial Tissue Dispenser (Bobrick B-8397).....	88.69	19.94
10 28 13 13-0066 EA Recessed Mounted, Stainless Steel Facial Tissue Dispenser (Gamco 355).....	64.19	19.94
10 28 13 13-0067 Sanitary Toilet Seat Cover Dispensers (10 28 13 13-0002)		
10 28 13 13-0068 EA Surface Mounted, Acrylonitrile Butadiene Styrene (ABS) Plastic Sanitary Seat-Cover Dispenser (Bobrick Matrix B-5221).....	52.65	19.94
10 28 13 13-0069 EA Surface Mounted, Stainless Steel Sanitary Seat-Cover Dispenser (Bobrick Classic B-221).....	69.20	19.94
10 28 13 13-0070 EA Surface Mounted, Stainless Steel Sanitary Seat-Cover Dispenser (Bobrick Contura B-4221).....	121.38	19.94
10 28 13 13-0071 EA Recessed Mounted, Stainless Steel Sanitary Seat-Cover Dispenser (Bobrick Classic B-301).....	127.94	19.94
10 28 13 13-0072 EA Recessed Mounted, Stainless Steel Sanitary Seat-Cover Dispenser (Bobrick TrimLine B-3013).....	249.25	19.94
10 28 13 13-0073 Sanitary Toilet Seat Cover/Toilet Tissue Dispensers (10 28 13 13-0002)		
10 28 13 13-0074 EA Surface Mounted, Stainless Steel Seat Cover And Toilet Tissue Dispenser (Bobrick Classic B-3479).....	395.11	19.94
10 28 13 13-0075 EA Recessed Mounted, Stainless Steel Seat Cover And Toilet Tissue Dispenser (Bobrick B-34745).....	242.07	19.94
10 28 13 13-0076 Sanitary Napkin/Tampon Dispensers (10 28 13 13-0002)		
10 28 13 13-0077 EA Surface Mounted, Stainless Steel Sanitary Napkin/Tampon Vendor (Bobrick B-370639C).....	487.20	19.94
10 28 13 13-0078 EA Surface Mounted, Stainless Steel Sanitary Napkin/Tampon Vendor (Gamco B-282 25).....	371.12	19.94
10 28 13 13-0079 EA Surface Mounted, Stainless Steel Sanitary Napkin/Tampon Vending (Bobrick B-2706).....	493.59	19.94
10 28 13 13-0080 EA Recessed Mounted, Stainless Steel Sanitary Napkin/Tampon Vendor (Bobrick Classic B-352 25).....	374.76	19.94
10 28 13 13-0081 EA Recessed Mounted, Single Coin Operation, Stainless Steel, Sanitary Napkin/Tampon Vendor (Gamco NV-2-4).....	329.86	19.94
10 28 13 13-0082 Toilet Compartment Combination Dispenser/Disposals (10 28 13 13-0002)		
10 28 13 13-0083 EA Side Wall Recessed Mounted, Stainless Steel Toilet Tissue Dispenser With Sanitary Napkin Disposal (Bobrick B-3094).....	347.66	44.31
10 28 13 13-0084 EA Side Wall Recessed Mounted, Stainless Steel Seat Cover And Toilet Tissue Dispenser (Bobrick B-3474).....	387.60	44.31
10 28 13 13-0085 EA Side Wall Recessed Mounted, Stainless Steel Seat Cover And Toilet Tissue Dispenser With Sanitary Napkin Disposal (Bobrick B-35745).....	322.27	44.31
10 28 13 13-0086 EA Side Wall Recessed Mounted, Stainless Steel Seat Cover And Toilet Tissue Dispenser With Sanitary Napkin Disposal (Bobrick B-3574).....	451.72	44.31
10 28 13 13-0087 EA Partition Mounted, Stainless Steel Seat Cover And Toilet Tissue Dispenser (Bobrick B-347).....	464.07	44.31
10 28 13 13-0088 EA Partition Mounted, Stainless Steel Seat Cover And Toilet Tissue Dispenser With Sanitary Napkin Disposal (Bobrick B-357).....	533.01	44.31
10 28 13 13-0089 EA Surface Mounted, Stainless Steel Seat Cover And Toilet Tissue Dispenser With Sanitary Napkin Disposal (Bobrick B-3579).....	500.04	44.31
10 28 13 13-0090 Receptacles (10 28 13 13-0001)		
10 28 13 13-0091 Wall Mounted Waste Receptacles (10 28 13 13-0090)		
10 28 13 13-0092 EA 1-1/2 Gallon, Surface Mounted, Stainless Steel Facial Tissue Waste Receptacle (Gamco WR-3).....	78.60	19.94
10 28 13 13-0093 EA 6.4 Gallon, Surface Mounted, Stainless Steel Waste Receptacle (Bobrick B-279).....	128.92	19.94
10 28 13 13-0094 EA 12 Gallon, 4" Wall Recess, Stainless Steel Waste Receptacle (Bobrick Classic B-3644).....	297.72	44.31
10 28 13 13-0095 EA 12 Gallon, 4" Wall Recess, Stainless Steel Waste Receptacle (Bobrick Contura B-43644).....	439.35	44.31
10 28 13 13-0096 EA 20 Gallon, Surface Mounted, Stainless Steel Waste Receptacle (Bobrick B-275).....	349.05	44.31
10 28 13 13-0097 Floor-Standing/Counter Waste Receptacles (10 28 13 13-0090)		
10 28 13 13-0098 EA 5-7/8" Inside Diameter, 3-7/8" Deep, Countertop-Mounted, Stainless Steel Waste Chute (Bobrick B-532).....	92.35	19.94
10 28 13 13-0099 EA 5-7/16" Inside Diameter, 5" Deep, Countertop-Mounted, Stainless Steel Waste Chute (Bobrick B-529).....	131.22	19.94
10 28 13 13-0100 EA 13 Gallon, Open Top, Stainless Steel Floor Standing Waste Receptacle (Bobrick B-2260).....	246.64	8.86
10 28 13 13-0101 EA 13 Gallon, Swing-Top, Stainless Steel Floor-Standing Waste Receptacle (Bobrick B-2250).....	372.78	8.86
10 28 13 13-0102 EA 18 Gallon, Open Top, Stainless Steel Floor-Standing Waste Receptacle (Bobrick B-2300).....	349.27	8.86
10 28 13 13-0103 EA 21 Gallon, Open Top, Stainless Steel Floor Standing Waste Receptacle (Bobrick B-2280).....	335.91	8.86
10 28 13 13-0104 Combination Paper Towel Dispenser/ Waste Receptacle (10 28 13 13-0090)		
10 28 13 13-0105 EA 2 Gallon, Recessed Mounted, Stainless Steel Combination Folded Paper Towel Dispenser/Waste Receptacle (Bobrick Classic B-369).....	247.43	44.31
10 28 13 13-0106 EA 2.6 Gallon, Recessed Mounted, Stainless Steel Combination Folded Paper Towel Dispenser/Waste Receptacle (Bobrick Contura B-4369).....	394.72	44.31
10 28 13 13-0107 EA 2 Gallon, Recess Mounted, Stainless Steel Combination Folded Paper Towel Dispenser/Waste Receptacle (Bobrick Classic B-3944).....	388.86	44.31
10 28 13 13-0108 EA 12 Gallon, Recessed Mounted, Stainless Steel Combination Folded Paper Towel Dispenser/Waste Receptacle (Bobrick Classic B-3900).....	562.87	44.31
10 28 13 13-0109 EA 12 Gallon, Semi-Recess Mounted, Stainless Steel Combination Folded Paper Towel Dispenser/Waste Receptacle (Bobrick Classic B-3909).....	772.96	44.31
10 28 13 13-0110 EA 12 Gallon, Recessed Mounted, Stainless Steel Combination Roll Towel Dispenser/Waste Receptacle (Bobrick Classic B-3961).....	654.12	44.31

10 Specialties**10 20 Interior Specialties**

10 28 Toilet, Bath, And Laundry Accessories



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 28 13 13-0111	EA	12 Gallon, Surface Mounted, Stainless Steel Combination Folded Paper Towel Dispenser/Waste Receptacle (Bobrick Classic B-3949)	505.37	44.31
10 28 13 13-0112	EA	12 Gallon, Surface Mounted, Stainless Steel Combination Roll Towel Dispenser/Waste Receptacle (Bobrick Classic B-39619)	815.45	44.31
10 28 13 13-0113	EA	16 Gallon, Semi-Recessed Mounted, Stainless Steel Combination Folded Paper Towel Dispenser/Waste Receptacle (Bobrick Contura B-43944)	754.96	48.74
10 28 13 13-0114	EA	18 Gallon, Recessed Mounted, Stainless Steel Combination Folded Paper Towel Dispenser/Waste Receptacle (Bobrick Classic B-3947)	509.39	48.74
10 28 13 13-0115		Sanitary Napkin/Tampon Receptacles <small>(10 28 13 13-0090)</small>		
10 28 13 13-0116	EA	Surface Mounted, Stainless Steel Sanitary Napkin/Tampon Disposal (Bobrick Contura B-270)	73.01	22.15
10 28 13 13-0117	EA	Surface Mounted, Stainless Steel Sanitary Napkin/Tampon Disposal (Bobrick Classic B-254)	142.13	22.15
10 28 13 13-0118	EA	Recessed Mounted, Stainless Steel Sanitary Napkin/Tampon Disposal (Bobrick Classic B-353)	154.31	22.15
10 28 13 13-0119	EA	Recessed Mounted, Stainless Steel Sanitary Napkin/Tampon Disposal (Bobrick Classic B-35303)	355.87	22.15
10 28 13 13-0120	EA	Partition Mounted, Stainless Steel Sanitary Napkin/Tampon Disposal (Bobrick Classic B-354)	190.34	22.15
10 28 13 13-0121	EA	Partition Mounted, Stainless Steel Sanitary Napkin Disposal (Bobrick Contura B-4354)	330.94	22.15
10 28 13 13-0122		Grab Bars <small>(10 28 13 13-0001)</small>		
10 28 13 13-0123		1-1/4" Diameter, Stainless Steel Grab Bars <small>(10 28 13 13-0122)</small>		
		Note: Includes satin finish and concealed mounting with snap flange.		
10 28 13 13-0124	EA	12" Length, 1-1/4" Diameter, Stainless Steel Grab Bar (Gamco 125sx12)	71.74	17.72
		For Peened Grip, Add	3.66	
10 28 13 13-0125	EA	18" Length, 1-1/4" Diameter, Stainless Steel Grab Bar (Bobrick B-5806x18)	82.16	17.72
		For Peened Grip, Add	4.60	
10 28 13 13-0126	EA	24" Length, 1-1/4" Diameter, Stainless Steel Grab Bar (Bobrick B-5806x24)	83.20	17.72
		For Peened Grip, Add	4.70	
10 28 13 13-0127	EA	30" Length, 1-1/4" Diameter, Stainless Steel Grab Bar (Bobrick B-5806x30)	83.69	17.72
		For Peened Grip, Add	4.74	
10 28 13 13-0128	EA	36" Length, 1-1/4" Diameter, Stainless Steel Grab Bar (Bobrick B-5806x36)	83.83	17.72
		For Peened Grip, Add	4.75	
10 28 13 13-0129	EA	42" Length, 1-1/4" Diameter, Stainless Steel Grab Bar (Bobrick B-5806x42)	86.35	17.72
		For Peened Grip, Add	4.98	
10 28 13 13-0130	EA	48" Length, 1-1/4" Diameter, Stainless Steel Grab Bar (Bobrick B-5806x48)	90.32	17.72
		For Peened Grip, Add	5.34	
10 28 13 13-0131		1-1/4" Diameter, Two Wall, Stainless Steel Grab Bars <small>(10 28 13 13-0122)</small>		
		Note: Includes satin finish and concealed mounting with snap flange.		
10 28 13 13-0132	EA	24" x 36", Two Wall, 1-1/4" Diameter, Stainless Steel Grab Bar (Bobrick B-58616)	136.65	17.72
		For Peened Grip, Add	9.11	
10 28 13 13-0133	EA	36" x 54", Two Wall, 1-1/4" Diameter, Stainless Steel Grab Bar (Bobrick B-5837)	139.37	17.72
		For Peened Grip, Add	9.35	
10 28 13 13-0134		1-1/2" Diameter, Stainless Steel Grab Bars <small>(10 28 13 13-0122)</small>		
		Note: Includes satin finish and concealed mounting with snap flange.		
10 28 13 13-0135	EA	12" Length, 1-1/2" Diameter, Stainless Steel Grab Bar (Bobrick B-6806x12)	81.29	17.72
		For Peened Grip, Add	4.52	
10 28 13 13-0136	EA	18" Length, 1-1/2" Diameter, Stainless Steel Grab Bar (Bobrick B-6806x18)	82.16	17.72
		For Peened Grip, Add	4.60	
10 28 13 13-0137	EA	24" Length, 1-1/2" Diameter, Stainless Steel Grab Bar (Bobrick B-6806x24)	83.83	17.72
		For Peened Grip, Add	4.75	
10 28 13 13-0138	EA	30" Length, 1-1/2" Diameter, Stainless Steel Grab Bar (Bobrick B-6806x30)	85.51	17.72
		For Peened Grip, Add	4.90	
10 28 13 13-0139	EA	36" Length, 1-1/2" Diameter, Stainless Steel Grab Bar (Bobrick B-6806x36)	87.60	17.72
		For Peened Grip, Add	5.09	
10 28 13 13-0140	EA	42" Length, 1-1/2" Diameter, Stainless Steel Grab Bar (Bobrick B-6806x42)	89.49	17.72
		For Peened Grip, Add	5.26	
10 28 13 13-0141	EA	48" Length, 1-1/2" Diameter, Stainless Steel Grab Bar (Bobrick B-6806x48)	94.09	17.72
		For Peened Grip, Add	5.68	
10 28 13 13-0142		1-1/2" Diameter, Two Wall, Stainless Steel Grab Bars <small>(10 28 13 13-0122)</small>		
		Note: Includes satin finish and concealed mounting with snap flange.		
10 28 13 13-0143	EA	16" x 31", Two Wall, 1-1/2" Diameter, Stainless Steel Grab Bar (Bobrick B-6861)	125.33	17.72
		For Peened Grip, Add	8.09	
10 28 13 13-0144	EA	24" x 36", Two Wall, 1-1/2" Diameter, Stainless Steel Grab Bar (Bobrick B-68616)	134.35	17.72
		For Peened Grip, Add	8.90	
10 28 13 13-0145	EA	36" x 54", Two Wall, 1-1/2" Diameter, Stainless Steel Grab Bar (Bobrick B-68137)	117.37	17.72
		For Peened Grip, Add	7.37	
10 28 13 13-0146		1-1/4" Diameter, Stainless Steel Swing Up Grab Bars <small>(10 28 13 13-0122)</small>		
		Note: Includes satin finish.		
10 28 13 13-0147	EA	29" Length, 1-1/4" Diameter, Stainless Steel Swing Up Grab Bar (Bobrick B-4998)	358.73	17.72
		For Peened Grip, Add	29.49	
10 28 13 13-0148		Shelves <small>(10 28 13 13-0001)</small>		
10 28 13 13-0149	EA	5" Width x 16" Length, Stainless Steel Shelf (Bobrick B-295)	93.71	19.94



Specialties	10
Interior Specialties	10 20
Toilet, Bath, And Laundry Accessories	10 28

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 28 13 13-0150 EA 5" Width x 18" Length, Stainless Steel Shelf (Bobrick B-295).....	96.23	19.94
10 28 13 13-0151 EA 5" Width x 24" Length, Stainless Steel Shelf (Bobrick B-295).....	107.76	19.94
10 28 13 13-0152 EA 5" Width x 36" Length, Stainless Steel Shelf (Gamco S-5x36).....	110.65	19.94
10 28 13 13-0153 EA 6" Width x 18" Length, Stainless Steel Shelf (Bobrick B-296).....	106.09	19.94
10 28 13 13-0154 EA 6" Width x 24" Length, Stainless Steel Shelf (Gamco S-6x24).....	107.46	19.94
10 28 13 13-0155 EA 8" Width x 18" Length, Stainless Steel Shelf (Bobrick B-298).....	114.25	19.94
10 28 13 13-0156 EA 8" Width x 24" Length, Stainless Steel Shelf (Bobrick B-298).....	124.09	19.94
10 28 13 13-0157 EA 8" Width x 36" Length, Stainless Steel Shelf (Gamco S-8x36).....	144.91	19.94
10 28 13 13-0158 EA 5-3/4" Width x 14-1/2" Length, Folding Stainless Steel Utility Shelf (Bobrick B-287).....	114.46	19.94
10 28 13 13-0159 EA 4-3/4" Width x 24" Length, Stainless Steel Toiletary Shelf (Bobrick B-683).....	116.55	19.94
10 28 13 13-0160 EA 12" Width x 24" Length, Stainless Steel Shelf (Bradley 7512-24).....	392.10	19.94
10 28 13 13-0161 EA 12" Width x 30" Length, Stainless Steel Shelf (Bradley 7512-30).....	422.87	19.94
10 28 13 13-0162 EA 12" Width x 36" Length, Stainless Steel Shelf (Bradley 7512-36).....	470.37	19.94
10 28 13 13-0163 EA 12" Width x 48" Length, Stainless Steel Shelf (Bradley 7512-48).....	599.60	19.94
10 28 13 13-0164 EA 12" Width x 60" Length, Stainless Steel Shelf (Bradley 7512-60).....	835.03	19.94
10 28 13 13-0165 EA 4-1/4" Width x 16-1/2" Length x 6-1/2" Height, Recessed Stainless Steel Shelf (American Specialties 0412).....	303.21	19.94
10 28 13 13-0166 Changing Stations (10 28 13 13-0001)		
10 28 13 13-0166 EA Horizontal, Wall-Mounted, Polyethylene Baby Changing Station (Gamco BCS-1).....	344.03	26.58
10 28 13 13-0168 EA Vertical, Wall-Mounted, Polyethylene Baby Changing Station (Bobrick Koala Care KB101-00).....	364.27	26.58
10 28 13 13-0169 EA Horizontal, Wall-Mounted, Polypropylene Baby Changing Station (Bobrick Koala Care KB200-00).....	301.62	26.58
10 28 13 13-0170 EA Horizontal, Recessed Mounted, Stainless Steel Baby Changing Station (Bobrick Koala Care KB110-SSRE).....	1,444.35	26.58
10 28 13 13-0171 EA Horizontal, Wall-Mounted, Stainless Steel Baby Changing Station (Bobrick Koala Care KB110-SSWM).....	1,683.98	26.58
10 28 13 13-0172 EA Vertical, Recessed Mounted, Stainless Steel Baby Changing Station (Bobrick Koala Care KB111-SSRE).....	1,444.35	26.58
10 28 13 13-0173 EA Vertical, Wall-Mounted, Stainless Steel Baby Changing Station (Bobrick Koala Care KB111-SSWM).....	1,683.98	26.58
10 28 13 13-0174 Folding Shower Seats (10 28 13 13-0001)		
10 28 13 13-0175 EA 33" Width, Wall-Mounted, Reversible, Folding, Stainless Steel Hardware, Solid Phenolic Shower Seat (Bobrick B-5181).....	433.17	35.44
10 28 13 13-0176 EA 33" Width, Wall-Mounted, Foam Padded, Naugahyde® Folding Shower Seat (Bobrick B-517/518).....	565.17	35.44
10 28 13 13-0177 EA 30" Width, Wall-Mounted, Teakwood Folding Shower Seat.....	1,399.25	35.44
10 28 13 13-0178 EA 33-1/2" Width, Wall-Mounted, Stainless Steel, Americans With Disabilities Act Compliant Folding Shower Seat, (Acorn Shower-Ware 1103-31/1103-32).....	2,185.37	
10 28 13 13-0179 Soap/Dish Holders (10 28 13 13-0001)		
10 28 13 13-0180 EA Surface Mounted, Stainless Steel Toothbrush and Tumbler Holder (Gamco 7679).....	48.94	19.94
10 28 13 13-0181 EA Surface Mounted, Stainless Steel Soap Dish (Gamco 7680).....	50.40	19.94
10 28 13 13-0182 EA Recessed Mounted, Stainless Steel Soap Dish (Bobrick B-4380).....	87.50	19.94
10 28 13 13-0183 EA Recessed Mounted, Stainless Steel Soap Dish And Bar (Bobrick B-4390).....	94.84	19.94
10 28 13 13-0184 Shower Curtains/Curtain Rods (10 28 13 13-0001)		
10 28 13 13-0185 EA Stainless Steel Shower Curtain Hook (Bobrick B-204-1).....	2.42	0.88
10 28 13 13-0186 EA 42" Width x 72" Height, Vinyl Shower Curtain (Bobrick B-204-2).....	38.89	8.86
Note: Requires 7 curtain hooks.		
10 28 13 13-0187 EA 70" Width x 72" Height, Vinyl Shower Curtain (Bobrick B-204-3).....	40.67	8.86
Note: Requires 12 curtain hooks.		
10 28 13 13-0188 EA 36" Length, 20 Gauge, 1" Diameter, Stainless Steel Shower Rod With Concealed Mounting (Bobrick B-207).....	69.41	19.94
10 28 13 13-0189 EA 48" Length, 20-Gauge, 1" Diameter, Stainless Steel Shower Rod With Concealed Mounting (Bobrick B-207).....	74.03	19.94
10 28 13 13-0190 EA 60" Length, 20-Gauge, 1" Diameter, Stainless Steel Shower Rod With Concealed Mounting (Bobrick B-207).....	79.68	19.94
10 28 13 13-0191 EA 72" Length, 20-Gauge, 1" Diameter, Stainless Steel Shower Rod With Concealed Mounting (Bobrick B-207).....	86.60	19.94
10 28 13 13-0192 EA 36" Length, 20-Gauge, 1" Diameter, Stainless Steel Shower Rod (Bobrick B-6107x36).....	61.45	19.94
10 28 13 13-0193 EA 48" Length, 20-Gauge, 1" Diameter, Stainless Steel Shower Rod (Bobrick B-6107x48).....	66.90	19.94
10 28 13 13-0194 EA 60" Length, 20-Gauge, 1" Diameter, Stainless Steel Shower Rod (Bobrick B-6107x60).....	70.04	19.94
10 28 13 13-0195 EA 72" Length, 20-Gauge, 1" Diameter, Stainless Steel Shower Rod (Bobrick B-6107x72).....	74.03	19.94
10 28 13 13-0196 EA 36" Length, 18-Gauge, 1-1/4" Diameter, Stainless Steel Shower Rod (Bobrick B-6047).....	63.76	19.94
10 28 13 13-0197 EA 48" Length, 18-Gauge, 1-1/4" Diameter, Stainless Steel Shower Rod (Bobrick B-6047).....	68.36	19.94
10 28 13 13-0198 EA 60" Length, 18-Gauge, 1-1/4" Diameter, Stainless Steel Shower Rod (Bobrick B-6047).....	73.81	19.94
10 28 13 13-0199 EA 72" Length, 18-Gauge, 1-1/4" Diameter, Stainless Steel Shower Rod (Bobrick B-6047).....	77.58	19.94
10 28 13 13-0200 Hand Dryers (10 28 13 13-0001)		
10 28 13 13-0201 EA Surface Mounted, Automatic Sensor, One Piece Plastic Cover Hand Dryer (Bobrick CompacDryer B-710).....	383.32	19.80
10 28 13 13-0202 EA Surface Mounted, Automatic Sensor, Cast Aluminum Cover Hand Dryer (Bobrick B-7120-115V).....	414.11	19.80
10 28 13 13-0203 EA Surface Mounted, Automatic Sensor, Cast-Iron Cover Hand Dryer (Bobrick B-7128 230V).....	460.63	19.80
10 28 13 13-0204 EA Recessed Mounted, Automatic Sensor, Cast-Iron Cover Hand Dryer (Bobrick B-750-115/230).....	659.21	19.80
10 28 13 13-0205 EA Surface Mounted, Touch-Button, Cast-Iron Cover Hand Dryer (World Dryer A).....	1,209.90	19.80
10 28 13 13-0206 EA Surface Mounted, Automatic Sensor, Cast-Iron Cover Hand Dryer (World Dryer A).....	1,369.57	19.80
10 28 13 13-0207 EA Surface Mounted, Touch-Button, Cast-Iron Cover Hand/Hair Dryer (American Dryer A60).....	1,534.74	19.80
10 28 13 13-0208 EA Surface Mounted, Automatic Sensor, Cast-Iron Cover Hand/Hair Dryer (American Dryer A60T).....	1,598.27	19.80
10 28 13 13-0209 EA Recessed Mounted, Automatic Sensor, Cast-Iron Cover Hand/Hair Dryer (American Dryer A60TR).....	1,666.03	19.80
10 28 13 13-0210 EA Surface Mounted, Automatic Sensor, Cast-Iron Cover Hand Dryer (Excel Xlerator XL-GR).....	1,581.43	19.80
10 28 13 13-0211 EA Surface Mounted, Automatic Sensor, Acrylonitrile Butadiene Styrene (ABS) Polycarbonate Cover Hand Dryer (Dyson Airblade AB12).....	1,016.00	19.80
10 28 13 13-0212 EA Surface Mounted, Automatic Sensor, Acrylonitrile Butadiene Styrene (ABS) Polycarbonate Cover Hand Dryer (Dyson Airblade AB14).....	1,702.42	19.80

10 Specialties

10 20 Interior Specialties

10 28 Toilet, Bath, And Laundry Accessories



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 28 13 13-0213	EA	Surface Mounted, Automatic Sensor, White ABS Cover, CPC Technology, Dries Hands In 10 To 12 Seconds, Hand Dryer (American Dryer CPC9).....	752.73	19.80
		Note: CPC technology kills germs naturally with no chemicals. Electronically adjustable sound and speed.		
10 28 13 13-0214	EA	Surface Mounted, Automatic Sensor, White Epoxy Finish Steel Cover, CPC Technology, Dries Hands In 10 To 12 Seconds, Hand Dryer (American Dryer CPC9-M).....	794.33	19.80
		Note: CPC technology kills germs naturally with no chemicals. Electronically adjustable sound and speed.		
10 28 13 13-0215	EA	Surface Mounted, Automatic Sensor, Black Graphite Steel Cover, CPC Technology, Dries Hands In 10 To 12 Seconds, Hand Dryer (American Dryer CPC9-BG).....	818.10	19.80
		Note: CPC technology kills germs naturally with no chemicals. Electronically adjustable sound and speed.		
10 28 13 13-0216	EA	Surface Mounted, Automatic Sensor, Satin Chrome Finish Steel Cover, CPC Technology, Dries Hands In 10 To 12 Seconds, Hand Dryer (American Dryer CPC9-C).....	841.88	19.80
		Note: CPC technology kills germs naturally with no chemicals. Electronically adjustable sound and speed.		
10 28 13 13-0217	EA	Surface Mounted, Automatic Sensor, Stainless Steel Cover, CPC Technology, Dries Hands In 10 To 12 Seconds, Hand Dryer (American Dryer CPC9-SS).....	889.42	19.80
		Note: CPC technology kills germs naturally with no chemicals. Electronically adjustable sound and speed.		
10 28 13 13-0218	EA	Surface Mounted, Automatic Sensor, White ABS Cover, Dries Hands In 10 To 12 Seconds, Hand Dryer (American Dryer GXT9).....	610.10	19.80
		Note: Electronically adjustable sound and speed.		
10 28 13 13-0219	EA	Surface Mounted, Automatic Sensor, White Epoxy Finish Steel Cover, Dries Hands In 10 To 12 Seconds, Hand Dryer (American Dryer GXT9-M).....	651.70	19.80
		Note: Electronically adjustable sound and speed.		
10 28 13 13-0220	EA	Surface Mounted, Automatic Sensor, Black Graphite Steel Cover, Dries Hands In 10 To 12 Seconds, Hand Dryer (American Dryer GXT9-BG).....	675.47	19.80
		Note: Electronically adjustable sound and speed.		
10 28 13 13-0221	EA	Surface Mounted, Automatic Sensor, Satin Chrome Finish Steel Cover, Dries Hands In 10 To 12 Seconds, Hand Dryer (American Dryer GXT9-C).....	699.24	19.80
		Note: Electronically adjustable sound and speed.		
10 28 13 13-0222	EA	Surface Mounted, Automatic Sensor, Stainless Steel Cover, Dries Hands In 10 To 12 Seconds, Hand Dryer (American Dryer GXT9-SS).....	746.79	19.80
		Note: Electronically adjustable sound and speed.		
10 28 13 13-0223	EA	Surface Mounted, Automatic Sensor, White ABS Cover, Dries Hands In 12 To 15 Seconds, Hand Dryer (American Dryer EXT7).....	610.10	19.80
		Note: Electronically adjustable sound and speed.		
10 28 13 13-0224	EA	Surface Mounted, Automatic Sensor, White Epoxy Finish Steel Cover, Dries Hands In 12 To 15 Seconds, Hand Dryer (American Dryer EXT7-M).....	651.70	19.80
		Note: Electronically adjustable sound and speed.		
10 28 13 13-0225	EA	Surface Mounted, Automatic Sensor, Black Graphite Finish Steel Cover, Dries Hands In 12 To 15 Seconds, Hand Dryer (American Dryer EXT7-BG).....	675.47	19.80
		Note: Electronically adjustable sound and speed.		
10 28 13 13-0226	EA	Surface Mounted, Automatic Sensor, Satin Chrome Finish Steel Cover, Dries Hands In 12 To 15 Seconds, Hand Dryer (American Dryer EXT7-C).....	699.24	19.80
		Note: Electronically adjustable sound and speed.		
10 28 13 13-0227	EA	Surface Mounted, Stainless Steel Cover, Dries Hands In 12 To 15 Seconds, Hand Dryer (American Dryer EXT7-SS).....	746.79	19.80
		Note: Electronically adjustable sound and speed.		
10 28 13 13-0228	EA	Surface Mounted, Automatic Sensor, White ABS Cover, Dries Hands In 25 Seconds, Hand Dryer (American Dryer AD90).....	443.69	19.80
10 28 13 13-0229	EA	Surface Mounted, Automatic Sensor, White Epoxy Finish Steel Cover, Dries Hands In 25 Seconds, Hand Dryer (American Dryer AD90-M).....	485.30	19.80
10 28 13 13-0230	EA	Surface Mounted, Automatic Sensor, Black Graphite Finish Steel Cover, Dries Hands In 25 Seconds, Hand Dryer (American Dryer AD90-BG).....	509.07	19.80
10 28 13 13-0231	EA	Surface Mounted, Automatic Sensor, Satin Chrome Finish Steel Cover, Dries Hands In 25 Seconds, Hand Dryer (American Dryer AD90-C).....	532.84	19.80
10 28 13 13-0232	EA	Surface Mounted, Stainless Steel Cover, Dries Hands In 25 Seconds, Hand Dryer (American Dryer AD90-SS).....	580.38	19.80
10 28 13 13-0233	EA	Surface Mounted, Automatic Sensor, White ABS Cover, Stays On For 80 Seconds, Hair Dryer (American Dryer AD90H).....	443.69	19.80
10 28 13 13-0234	EA	Surface Mounted, Automatic Sensor, White Epoxy Finish Steel Cover, Stays On For 80 Seconds, Hair Dryer (American Dryer AD90-MH).....	485.30	19.80
10 28 13 13-0235	EA	Surface Mounted, Automatic Sensor, Black Graphite Finish Steel Cover, Stays On For 80 Seconds, Hair Dryer (American Dryer AD90-BGH).....	509.07	19.80
10 28 13 13-0236	EA	Surface Mounted, Automatic Sensor, Satin Chrome Finish Steel Cover, Stays On For 80 Seconds, Hair Dryer (American Dryer AD90-CH).....	532.84	19.80
10 28 13 13-0237	EA	Surface Mounted, Automatic Sensor, Stainless Steel Cover, Stays On For 80 Seconds, Hair Dryer (American Dryer AD90-SSH).....	580.38	19.80
10 28 13 13-0238	EA	Surface Mounted, Automatic Sensor, ABS Cover, Hand Dryer (American Dryer GX1).....	324.83	19.80
10 28 13 13-0239	EA	Surface Mounted, Automatic Sensor, White Epoxy Finish Steel Cover, Hand Dryer (American Dryer GX1-M).....	366.44	19.80
10 28 13 13-0240	EA	Surface Mounted, Automatic Sensor, Satin Chrome Finish Steel Cover, Hand Dryer (American Dryer GX1-C).....	413.98	19.80
10 28 13 13-0241		Hand Dryers (Excel XLERATOR®) (10 28 13 13-0001)		
		Note: With or without noise reduction nozzle options.		
10 28 13 13-0242	EA	Surface Mounted, Automatic Sensor, White Epoxy Painted Finish, Zinc-Die Cast Cover, Hand Dryer (Excel XLERATOR® XL-W).....	626.37	19.80
		For ADA-Compliant Recess Kit, Add	155.70	
10 28 13 13-0243	EA	Surface Mounted, Automatic Sensor, White Epoxy Painted Finish, Zinc-Die Cast Cover, Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATOR® XL-WH).....	878.38	19.80
		For ADA-Compliant Recess Kit, Add	155.70	
10 28 13 13-0244	EA	Surface Mounted, Automatic Sensor, Graphite Textured Painted Finish, Zinc-Die Cast Cover, Hand Dryer (Excel XLERATOR® XL-GR).....	733.38	19.80
		For ADA-Compliant Recess Kit, Add	155.70	
10 28 13 13-0245	EA	Surface Mounted, Automatic Sensor, Graphite Textured Painted Finish, Zinc-Die Cast Cover Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel Xlerator XL-GRH).....	914.63	19.80
		For ADA-Compliant Recess Kit, Add	155.70	



Specialties	10
Interior Specialties	10 20
Toilet, Bath, And Laundry Accessories	10 28

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 28 13 13-0246 EA Surface Mounted, Automatic Sensor, Chrome Plated Finish, Zinc-Die Cast Cover, Hand Dryer (Excel XLERATOR® XL-C) <i>For ADA-Compliant Recess Kit, Add</i>	787.75 155.70	19.80
10 28 13 13-0247 EA Surface Mounted, Automatic Sensor, Chrome Plated Finish, Zinc-Die Cast Cover, Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATOR® XL-CH)..... <i>For ADA-Compliant Recess Kit, Add</i>	969.00 155.70	19.80
10 28 13 13-0248 EA Surface Mounted, Automatic Sensor, Brushed Finish, Stainless Steel Cover, Hand Dryer (Excel XLERATOR® XL-SB) <i>For ADA-Compliant Recess Kit, Add</i>	787.75 155.70	19.80
10 28 13 13-0249 EA Surface Mounted, Automatic Sensor, Brushed Finish, Stainless Steel Cover, Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATOR® XL-SBH)..... <i>For ADA-Compliant Recess Kit, Add</i>	969.00 155.70	19.80
10 28 13 13-0250 EA Surface Mounted, Automatic Sensor, Custom Color Painted Finish, Zinc-Die Cast Cover, Hand Dryer (Excel XLERATOR® XL-SP)..... <i>For ADA-Compliant Recess Kit, Add</i>	733.38 155.70	19.80
10 28 13 13-0251 EA Surface Mounted, Automatic Sensor, Custom Color Painted Finish, Zinc-Die Cast Cover, Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATOR® XL-SPH)..... <i>For ADA-Compliant Recess Kit, Add</i>	914.63 155.70	19.80
10 28 13 13-0252 EA Surface Mounted, Automatic Sensor, White Finish, Polymer Cover (BMC), Hand Dryer (Excel XLERATOR® XL-BW)..... <i>For ADA-Compliant Recess Kit, Add</i>	660.88 155.70	19.80
10 28 13 13-0253 EA Surface Mounted, Automatic Sensor, White Finish, Polymer Cover (BMC), Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATOR® XL-BWH)..... <i>For ADA-Compliant Recess Kit, Add</i>	842.13 155.70	19.80
10 28 13 13-0254 EA Surface Mounted, Automatic Sensor, White Epoxy Painted Finish, Zinc-Die Cast Cover, No Heat Hand Dryer (Excel XLERATORReco® XL-W-ECO) <i>For ADA-Compliant Recess Kit, Add</i>	626.37 155.70	19.80
10 28 13 13-0255 EA Surface Mounted, Automatic Sensor, White Epoxy Painted Finish, Zinc-Die Cast Cover, No Heat Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATORReco® XL-WH-ECO)..... <i>For ADA-Compliant Recess Kit, Add</i>	878.38 155.70	19.80
10 28 13 13-0256 EA Surface Mounted, Automatic Sensor, Graphite Textured Painted Finish, Zinc-Die Cast Cover, No Heat Hand Dryer (Excel XLERATORReco® XL-GR-ECO) <i>For ADA-Compliant Recess Kit, Add</i>	733.38 155.70	19.80
10 28 13 13-0257 EA Surface Mounted, Automatic Sensor, Graphite Textured Painted Finish, Zinc-Die Cast Cover, No Heat Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATORReco® XL-GRH-ECO)..... <i>For ADA-Compliant Recess Kit, Add</i>	914.63 155.70	19.80
10 28 13 13-0258 EA Surface Mounted, Automatic Sensor, Chrome Plated Finish, Zinc-Die Cast Cover, No Heat Hand Dryer (Excel XLERATORReco® XL-C-ECO)..... <i>For ADA-Compliant Recess Kit, Add</i>	787.75 155.70	19.80
10 28 13 13-0259 EA Surface Mounted, Automatic Sensor, Chrome Plated Finish, Zinc-Die Cast Cover, No Heat Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATORReco® XL-CH-ECO) <i>For ADA-Compliant Recess Kit, Add</i>	969.00 155.70	19.80
10 28 13 13-0260 EA Surface Mounted, Automatic Sensor, Brushed Finish, Stainless Steel Cover, No Heat Hand Dryer (Excel XLERATORReco® XL-SB-ECO) <i>For ADA-Compliant Recess Kit, Add</i>	787.75 155.70	19.80
10 28 13 13-0261 EA Surface Mounted, Automatic Sensor, Brushed Finish, Stainless Steel Cover, No Heat Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATORReco® XL-SBH-ECO)..... <i>For ADA-Compliant Recess Kit, Add</i>	969.00 155.70	19.80
10 28 13 13-0262 EA Surface Mounted, Automatic Sensor, Custom Color Painted Finish, Zinc-Die Cast Cover, No Heat Hand Dryer (Excel XLERATORReco® XL-SP-ECO)..... <i>For ADA-Compliant Recess Kit, Add</i>	733.38 155.70	19.80
10 28 13 13-0263 EA Surface Mounted, Automatic Sensor, Custom Color Painted Finish, Zinc-Die Cast Cover, No Heat Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATORReco® XL-SPH-ECO) <i>For ADA-Compliant Recess Kit, Add</i>	914.63 155.70	19.80
10 28 13 13-0264 EA Surface Mounted, Automatic Sensor, White Finish, Polymer Cover (BMC), No Heat Hand Dryer (Excel XLERATORReco® XL-BW-ECO)..... <i>For ADA-Compliant Recess Kit, Add</i>	660.88 155.70	19.80
10 28 13 13-0265 EA Surface Mounted, Automatic Sensor, White Finish, Polymer Cover (BMC), No Heat Hand Dryer With High Efficiency Particulate Air (HEPA) Filtration System (Excel XLERATORReco® XL-BWH-ECO)..... <i>For ADA-Compliant Recess Kit, Add</i>	842.13 155.70	19.80
10 28 13 13-0266 Additional Accessories <small>(10 28 13 13-0001)</small>		
10 28 13 13-0267 Hooks <small>(10 28 13 13-0266)</small>		
10 28 13 13-0268 EA Stainless Steel Clothes Hook And Bumper (Bobrick B-212)	24.64	8.86
10 28 13 13-0269 EA Single Stainless Steel Robe Hook (Bobrick B-233).....	29.24	8.86
10 28 13 13-0270 EA Single Stainless Steel Robe Hook (Bobrick B-7671).....	25.05	8.86
10 28 13 13-0271 EA Double Stainless Steel Robe Hook (Bobrick B-7672).....	27.11	8.86
10 28 13 13-0272 EA Double Stainless Steel Robe Hook (Bobrick B-672 or B-6727).....	44.33	8.86
10 28 13 13-0273 EA Single Stainless Steel Robe Hook (Bobrick B-6717).....	40.14	8.86
10 28 13 13-0274 Clotheslines <small>(10 28 13 13-0266)</small>		
10 28 13 13-0275 EA Surface Mounted, Stainless Steel Retractable Clothesline (Gamco 7636)	43.07	17.72
10 28 13 13-0276 Towel Bars <small>(10 28 13 13-0266)</small>		
10 28 13 13-0277 EA 18" Length, 3/4" Square, Stainless Steel Towel Bar (Gamco 7673x18).....	53.17	19.94
10 28 13 13-0278 EA 24" Length, 3/4" Square, Stainless Steel Towel Bar (Gamco 7673x24).....	53.33	19.94
10 28 13 13-0279 EA 18" Length, 3/4" Diameter, Stainless Steel Towel Bar (Gamco 7674x18).....	59.47	19.94
10 28 13 13-0280 EA 24" Length, 3/4" Diameter, Stainless Steel Towel Bar (Gamco 7674x24).....	60.06	19.94
10 28 13 13-0281 EA 18" Length, 3/4" Square, Stainless Steel Towel Bar (Bobrick B-673)	87.01	19.94
10 28 13 13-0282 EA 24" Length, 3/4" Square, Stainless Steel Towel Bar (Bobrick B-673)	90.57	19.94

10 Specialties**10 20 Interior Specialties**

10 28 Toilet, Bath, And Laundry Accessories


**SAN BERNARDINO
COUNTY**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 28 13 13-0283 EA 18" Length, 3/4" Diameter, Stainless Steel Towel Bar (Bobrick B-674).....	89.74	19.94
10 28 13 13-0284 EA 24" Length, 3/4" Diameter, Stainless Steel Towel Bar (Bobrick B-674).....	92.67	19.94
10 28 13 13-0285 EA 18" Length, 1" Diameter, Heavy-Duty, Stainless Steel Towel Bar (Bobrick B-205).....	97.91	19.94
10 28 13 13-0286 EA 24" Length, 1" Diameter, Heavy-Duty, Stainless Steel Towel Bar (Bobrick B-205).....	101.03	19.94
10 28 13 13-0287 EA 18" Length, 1" Diameter, Extra-Heavy-Duty, Stainless Steel Towel Bar/Grab Bar (Bobrick B-530).....	75.07	19.94
10 28 13 13-0288 EA 24" Length, 1" Diameter, Extra-Heavy-Duty, Stainless Steel Towel Bar/Grab Bar (Bobrick B-530).....	77.79	19.94
10 28 13 13-0289 Towel Bar With Shelf (10 28 13 13-0266)		
10 28 13 13-0290 EA 24" Length, Stainless Steel Towel Shelf With Towel Bar (Bobrick B-676).....	166.63	19.94
10 28 13 13-0291 Towel Pins (10 28 13 13-0266)		
10 28 13 13-0292 EA Stainless Steel Towel Pin (Bobrick B-677).....	42.86	8.86
10 28 13 13-0293 Mirrors (10 28 13 13)		
10 28 13 13-0294 Stainless Steel Channel Frame Glass Mirrors (10 28 13 13-0293)		
10 28 13 13-0295 EA 16" x 24", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Gamco C-16x24).....	91.17	22.15
10 28 13 13-0296 EA 18" x 24", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Bobrick B-165 1824).....	103.12	22.15
10 28 13 13-0297 EA 18" x 30", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Bobrick B-165 1830).....	107.26	22.15
For Tempered Glass (B-1658), Add	34.76	
10 28 13 13-0298 EA 18" x 36", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Bobrick B-165 1836).....	115.75	22.15
For Tempered Glass (B-1658), Add	40.71	
10 28 13 13-0299 EA 24" x 30", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Bobrick B-165 2430).....	126.64	22.15
10 28 13 13-0300 EA 24" x 36", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Bobrick B-165 2436).....	131.22	22.15
For Tempered Glass (B-1658), Add	51.53	
10 28 13 13-0301 EA 24" x 48", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Bobrick B-165 2448).....	161.27	22.15
10 28 13 13-0302 EA 24" x 60", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Bobrick B-165 2460).....	185.89	22.15
10 28 13 13-0303 EA 36" x 36", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Gamco C-36x36).....	223.50	22.15
10 28 13 13-0304 EA 48" x 36", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Bobrick B-165 4836).....	280.63	22.15
10 28 13 13-0305 EA 60" x 36", Surface Mounted, Stainless Steel Channel Frame Glass Mirror (Gamco C-60x36).....	315.34	22.15
10 28 13 13-0306 Stainless Steel Channel Frame Glass Mirror/Shelf Combination (10 28 13 13-0293)		
10 28 13 13-0307 EA 18" x 24", Surface Mounted, Stainless Steel Channel Frame Glass Mirror/Shelf Combination (Bobrick B-166 1824).....	166.93	22.15
10 28 13 13-0308 EA 18" x 30", Surface Mounted, Stainless Steel Channel Frame Glass Mirror/Shelf Combination (Bobrick B-166 1830).....	179.78	22.15
10 28 13 13-0309 EA 18" x 36", Surface Mounted, Stainless Steel Channel Frame Glass Mirror/Shelf Combination (Bobrick B-166 1836).....	188.28	22.15
10 28 13 13-0310 EA 24" x 36", Surface Mounted, Stainless Steel Channel Frame Glass Mirror/Shelf Combination (Bobrick B-166 2436).....	212.24	22.15
10 28 13 13-0311 Stainless Steel Angle Frame Glass Mirrors (10 28 13 13-0293)		
10 28 13 13-0312 EA 18" x 24", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Bobrick B-290 1824).....	148.83	22.15
10 28 13 13-0313 EA 18" x 30", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Bobrick B-290 1830).....	163.02	22.15
For Tempered Glass (B-2908), Add	69.58	
10 28 13 13-0314 EA 18" x 36", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Bobrick B-290 1836).....	167.81	22.15
For Tempered Glass (B-2908), Add	72.74	
10 28 13 13-0315 EA 24" x 30", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Bobrick B-290 2430).....	196.12	22.15
10 28 13 13-0316 EA 24" x 36", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Bobrick B-290 2436).....	197.21	22.15
For Tempered Glass (B-2908), Add	92.14	
10 28 13 13-0317 EA 24" x 48", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Bobrick B-290 2448).....	262.77	22.15
10 28 13 13-0318 EA 24" x 60", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Bobrick B-290 2460).....	308.50	22.15
10 28 13 13-0319 EA 24" x 72", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Bobrick B-290 2472).....	351.20	22.15
10 28 13 13-0320 EA 36" x 36", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Gamco A-36x36).....	234.93	22.15
10 28 13 13-0321 EA 48" x 36", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Gamco A-48x36).....	285.83	22.15
10 28 13 13-0322 EA 72" x 36", Surface Mounted, Stainless Steel Angle Frame Glass Mirror (Gamco A-72x36).....	436.38	22.15
10 28 13 13-0323 Stainless Steel Angle Frame Glass Mirror/Shelf Combination (10 28 13 13-0293)		
10 28 13 13-0324 EA 18" x 24", Surface Mounted, Stainless Steel Angle Frame Glass Mirror/Shelf Combination (Gamco AS-18x24).....	153.80	22.15
10 28 13 13-0325 EA 18" x 30", Surface Mounted, Stainless Steel Angle Frame Glass Mirror/Shelf Combination (Bobrick B-292-1830).....	300.88	22.15
10 28 13 13-0326 EA 18" x 36", Surface Mounted, Stainless Steel Angle Frame Glass Mirror/Shelf Combination (Bobrick B-292-1836).....	315.26	22.15
10 28 13 13-0327 EA 24" x 36", Surface Mounted, Stainless Steel Angle Frame Glass Mirror/Shelf Combination (Bobrick B-292-2436).....	351.20	22.15
10 28 13 13-0328 Frameless Stainless Steel Mirrors (10 28 13 13-0293)		
10 28 13 13-0329 EA 17-1/2" x 29-1/2", Frameless Stainless Steel Mirror (Bobrick B-1556 1830).....	166.50	22.15
10 28 13 13-0330 EA 23-1/2" x 35-1/2", Frameless Stainless Steel Mirror (Bobrick B-1556 2436).....	214.62	22.15
10 28 13 13-0331 Fixed-Position Tilt, Stainless Steel Frame Glass Mirrors (10 28 13 13-0293)		
10 28 13 13-0332 EA 16" x 30", Surface Mounted, Fixed-Position Tilt, Stainless Steel Frame Glass Mirror (Bobrick B-293 1630).....	225.52	22.15
10 28 13 13-0333 EA 18" x 30", Surface Mounted, Fixed-Position Tilt, Stainless Steel Frame Glass Mirror (Bobrick B-293 1830).....	234.89	22.15
10 28 13 13-0334 EA 18" x 36", Surface Mounted, Fixed-Position Tilt, Stainless Steel Frame Glass Mirror (Bobrick B-293 1836).....	283.90	22.15
10 28 13 13-0335 EA 24" x 36", Surface Mounted, Fixed-Position Tilt, Stainless Steel Frame Glass Mirror (Bobrick B-293 2436).....	348.58	22.15



Specialties	10
Interior Specialties	10 20
Toilet, Bath, And Laundry Accessories	10 28

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 28 13 13-0336 Medicine Cabinets <small>(10 28 13 13)</small>		
10 28 13 13-0337 Metal Medicine Cabinets <small>(10 28 13 13-0336)</small>		
10 28 13 13-0338 EA 20" x 26", Surface Mounted, Aluminum Medicine Cabinet (Kohler K-CB).....	559.03	44.31
10 28 13 13-0339 EA 15-1/2" x 25-7/8", Recessed Mounted, All-Steel Medicine Cabinet (Bobrick B-397).....	194.53	44.31
Note: Includes three adjustable plastic shelves.		
10 28 13 13-0340 EA 14-1/8" x 20-1/4", Surface Mounted, All-Steel Medicine Cabinet (Bobrick B-297).....	200.50	44.31
Note: Includes two fixed shelves with baked white enamel finish.		
10 28 13 13-0341 EA 15-1/4" x 25-1/2", Recessed Mounted, Stainless Steel Medicine Cabinet (Bobrick B-398).....	427.83	44.31
Note: Includes four adjustable stainless steel shelves.		
10 28 13 13-0342 EA 17" x 26-7/8", Surface Mounted, Stainless Steel Medicine Cabinet (Bobrick B-299).....	583.93	44.31
Note: Includes four adjustable shelves.		
10 28 13 13-0343 Janitorial Material <small>(10 28 13 13)</small>		
10 28 13 13-0344 EA Stainless Steel Pail And Ladder Utility Hook (Bobrick B-670).....	40.14	8.86
10 28 13 13-0345 EA 24" Length, Stainless Steel Utility Hook Strip (Bobrick B-232x24).....	103.98	19.94
10 28 13 13-0346 EA 24" Length, 3 Handle Capacity, Stainless Steel Mop And Broom Holder (Bobrick B-223x24).....	100.22	19.94
10 28 13 13-0347 EA 30" Length, 3 Handle Capacity, Stainless Steel Mop And Broom Holder (Gamco MS-1).....	113.49	19.94
10 28 13 13-0348 EA 36" Length, 3 Handle Capacity, Stainless Steel Mop And Broom Holder (Bobrick B-223x36).....	126.61	19.94
10 28 13 13-0349 EA 36" Length, Utility Hook Strip (Gamco HCS-2).....	85.48	19.94
10 28 13 13-0350 EA 36" Length, Stainless Steel Custodian Utility Shelf With Mop And Broom Holders And Rag Hooks (Bobrick B-224x36).....	232.63	19.94
10 28 13 13-0351 EA 34" Length, 3 Handle Capacity, Stainless Steel Mop And Broom Holder With Shelf And Rag Hooks (Bobrick B-239x34).....	333.84	19.94
10 28 13 13-0352 Remove And Reinstall Bathroom Accessories <small>(10 28 13 13)</small>		
10 28 13 13-0353 EA Removal And Reinstallation Of Bathroom Accessory.....	27.70	
10 28 13 63 Detention Toilet Accessories <small>(10 28 13)</small>		
10 28 13 63-0001 1-1/2" Diameter, 18 Gauge, Stainless Steel Suicide Resistant Security Grab Bar <small>(10 28 13 63)</small>		
10 28 13 63-0002 EA 18" Length, 1-1/2" Diameter, 18 Gauge, Stainless Steel Suicide Resistant Security Grab Bar (Bradley SA70-001180).....	124.05	17.72
10 28 13 63-0003 EA 24" Length, 1-1/2" Diameter, 18 Gauge, Stainless Steel Suicide Resistant Security Grab Bar (Bradley SA70-001240).....	129.24	17.72
10 28 13 63-0004 EA 36" Length, 1-1/2" Diameter, 18 Gauge, Stainless Steel Suicide Resistant Security Grab Bar (Bradley SA70-001360).....	132.70	17.72
10 28 13 63-0005 EA 42" Length, 1-1/2" Diameter, 18 Gauge, Stainless Steel Suicide Resistant Security Grab Bar (Bradley SA70-001420).....	145.94	17.72
10 28 13 63-0006 EA 60" Length, 1-1/2" Diameter, 18 Gauge, Stainless Steel Suicide Resistant Security Grab Bar (Bradley SA70-002600).....	287.08	17.72
10 28 16 Bath Accessories <small>(10 28)</small>		
10 28 16 13 Residential Bath Accessories <small>(10 28 16)</small>		
10 28 16 13-0001 Residential Toilet Accessories <small>(10 28 16 13)</small>		
10 28 16 13-0002 Residential Shower Curtain Rod <small>(10 28 16 13-0001)</small>		
Note: Includes end brackets. See CSI section 10 28 13 13-0184 for shower curtain rods.		
10 28 16 13-0003 Residential, Recessed, Chrome Plated Toilet Accessories <small>(10 28 16 13-0001)</small>		
10 28 16 13-0004 EA Single Roll, Recessed Mounted, Chrome Plated Toilet Paper Holder.....	91.74	19.94
10 28 16 13-0005 EA Recessed Mounted, Chrome Plated Soap Dish.....	133.40	19.94
10 28 16 13-0006 EA Recessed Mounted, Chrome Plated Soap Dish And Bar.....	141.87	19.94
10 28 16 13-0007 EA Recessed Mounted, Chrome Plated Tumbler Holder.....	95.33	19.94
10 28 16 13-0008 Residential, Surface Mounted, Chrome Plated Toilet Accessories <small>(10 28 16 13-0001)</small>		
10 28 16 13-0009 EA Surface Mounted, Chrome Plated Soap Dish.....	60.42	13.30
10 28 16 13-0010 EA Surface Mounted, Chrome Plated Single Clothes Hook.....	69.86	13.30
10 28 16 13-0011 EA Surface Mounted, Chrome Plated Double Clothes Hook.....	69.86	13.30
10 28 16 13-0012 LF 6" Deep, Surface Mounted, Glass Shelf With Chrome Plated Supports.....	143.49	13.30
10 28 16 13-0013 LF 6" Deep, Surface Mounted, Stainless Steel Shelf.....	119.73	13.30
10 28 16 13-0014 EA 18" Length, Surface Mounted, Chrome Plated Towel Bar.....	77.75	17.72
10 28 16 13-0015 EA 24" Length, Surface Mounted, Chrome Plated Towel Bar.....	78.81	17.72
10 28 16 13-0016 EA Surface Mounted, Chrome Plated Towel Ring.....	58.09	13.30
10 28 16 13-0017 EA Surface Mounted, Chrome Plated Tumbler And Toothbrush Holder.....	47.14	19.94
10 28 16 13-0018 EA Single Roll, Surface Mounted, Chrome Plated Toilet Paper Holder.....	60.42	13.30
10 28 16 13-0019 EA Two Roll, Surface Mounted, Chrome Plated Toilet Paper Holder.....	123.74	13.30
10 28 16 13-0020 EA Surface Mounted, Chrome Plated Globe Soap Dispenser.....	73.13	13.30
10 28 16 13-0021 EA Surface Mounted, Chrome Plated Towel Pin.....	77.40	13.30
10 28 16 13-0022 EA Surface Mounted, Chrome Plated Towel Ladder And Shelf.....	221.36	13.30
10 28 16 13-0023 EA Surface Mounted, Retractable Chrome Plated Bath/Shower Clothesline.....	115.10	13.30
10 28 16 13-0024 EA 24" Length, Cut To Size Towel Bar, Surface Mounted, Ceramic Base Towel Bar.....	65.05	13.30

10	10	Specialties
	10 20	Interior Specialties
	10 28	Toilet, Bath, And Laundry Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 28 16 13-0025	Residential Medicine Cabinets, Solid Oak <small>(10 28 16 13-0001)</small>		
Note: Surface or recessed mounted, premium quality.			
10 28 16 13-0026	EA 24" x 30", Unlighted, Solid Oak Medicine Cabinet With Mirror	669.61	44.31
10 28 16 13-0027	EA 24" x 35", Lighted, Solid Oak Medicine Cabinet With Mirror	804.52	44.31
10 28 16 13-0028	EA 30" x 30" Unlighted, Solid Oak Medicine Cabinet With Mirror	714.96	44.31
10 28 16 13-0029	EA 30" x 35", Lighted, Solid Oak Medicine Cabinet With Mirror	866.38	44.31
10 28 16 13-0030	EA 36" x 30", Unlighted, Solid Oak Medicine Cabinet With Mirror	743.56	44.31
10 28 16 13-0031	EA 36" x 35", Lighted, Solid Oak Medicine Cabinet With Mirror	920.74	44.31
10 28 16 13-0032	EA 48" x 30", Unlighted, Solid Oak Medicine Cabinet With Mirror	782.84	44.31
10 28 16 13-0033	EA 48" x 35", Lighted, Solid Oak Medicine Cabinet With Mirror	987.16	44.31

10 28 16 13-0034	Residential Toilet Accessories <small>(10 28 16 13-0001)</small>		
10 28 16 13-0035	EA Surface Mounted Plastic Paper Towel Dispenser	63.60	19.94
10 28 16 13-0036	EA Surface Mounted Plastic Napkin Disposal	58.36	19.94
10 28 16 13-0037	EA 50 Fluid Ounce, Plastic Soap Dispenser For Soaps And Detergent	60.21	
10 28 16 13-0038	EA 50 Fluid Ounce, Plastic Soap Dispenser For Antibacterial Soaps	65.76	19.94
10 28 16 13-0039	EA Multi Roll (2) Plastic Toilet Tissue Dispenser	63.61	19.94
10 28 16 13-0040	EA Single Jumbo Roll Plastic Toilet Tissue Dispenser	77.89	24.37
10 28 16 13-0041	EA Surface Mounted Plastic Toilet Seat Cover Dispenser	47.17	17.72
10 28 16 13-0042	EA 13 Gallon Plastic Waste Door For Countertops	137.34	33.23

10 28 19 Tub and Shower Enclosures (10 28)

10 28 19 16 Shower Doors (10 28 19)

10 28 19 16-0001	Swinging Shower Doors <small>(10 28 19 16)</small>		
10 28 19 16-0002	Framed, Swinging Shower Doors <small>(10 28 19 16-0001)</small>		
10 28 19 16-0003	EA 24-1/4" To 26" Opening, Silver Finish Frame, Tempered Safety Glass, Swinging Shower Door (American Standard AM00801)	383.07	48.19
10 28 19 16-0004	EA 27-1/4" To 29" Opening, Silver Finish Frame, Tempered Safety Glass, Swinging Shower Door (American Standard AM00802)	401.85	24.10
10 28 19 16-0005	EA 29-5/8" To 31-3/8" Opening, Silver Finish Frame, Tempered Safety Glass, Swinging Shower Door (American Standard AM00803)	479.76	24.10
10 28 19 16-0006	EA 33-1/8" To 34-7/8" Opening, Silver Finish Frame, Tempered Safety Glass, Swinging Shower Door (American Standard AM00804)	399.86	24.10
10 28 19 16-0007	EA 35-1/8" To 36-7/8" Opening, Silver Finish Frame, Tempered Safety Glass, Swinging Shower Door (American Standard AM00805)	426.46	24.10

10 28 19 16-0008	Frameless, Swinging Shower Doors <small>(10 28 19 16-0001)</small>		
10 28 19 16-0009	EA 24-9/16" To 25-7/16" Opening, Frameless, Tempered Safety Glass, Swinging Shower Door (American Standard AM0301D)	583.46	24.10
10 28 19 16-0010	EA 31-1/16" To 31-15/16" Opening, Frameless, Tempered Safety Glass, Swinging Shower Door (American Standard AM0302D)	609.50	24.10
10 28 19 16-0011	EA 32-11/16" To 33-9/16" Opening, Frameless, Tempered Safety Glass, Swinging Shower Door (American Standard AM0303D)	634.01	24.10
10 28 19 16-0012	EA 34-3/16" To 35-1/16" Opening, Frameless, Tempered Safety Glass, Swinging Shower Door (American Standard AM0304D)	660.05	24.10
10 28 19 16-0013	EA 35-3/16" To 36-1/16" Opening, Frameless, Tempered Safety Glass, Swinging Shower Door (American Standard AM0305D)	685.32	24.10

10 28 19 16-0014	Sliding Shower Doors <small>(10 28 19 16)</small>		
10 28 19 16-0015	Framed, Sliding Shower Doors <small>(10 28 19 16-0014)</small>		
10 28 19 16-0016	EA 40" To 42" Opening, Silver Finish Frame, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00735)	638.63	24.10
10 28 19 16-0017	EA 44" To 46" Opening, Silver Finish Frame, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00745)	585.93	24.10
10 28 19 16-0018	EA 46" To 48" Opening, Silver Finish Frame, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00775)	600.13	24.10
10 28 19 16-0019	EA 52" To 54" Opening, Silver Finish Frame, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00729)	615.22	24.10
10 28 19 16-0020	EA 54" To 56" Opening, Silver Finish Frame, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00794)	623.64	24.10
10 28 19 16-0021	EA 56" To 60" Opening, Silver Finish Frame, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00795)	636.11	24.10

10 28 19 16-0022	Frameless, Sliding Shower Doors <small>(10 28 19 16-0014)</small>		
10 28 19 16-0023	EA 40" To 44" Opening, 65-1/2" Height, Frameless, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00335)	661.70	24.10
10 28 19 16-0024	EA 44" To 48" Opening, 65-1/2" Height, Frameless, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00345)	805.05	24.10
10 28 19 16-0025	EA 56" To 60" Opening, 65-1/2" Height, Frameless, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00394)	853.30	24.10
10 28 19 16-0026	EA 40" To 44" Opening, 70" Height, Frameless, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00330)	771.45	24.10



Specialties	10
Interior Specialties	10 20
Toilet, Bath, And Laundry Accessories	10 28

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 28 19 16-0027	EA	44" To 48" Opening, 70" Height, Frameless, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00370).....	782.02	24.10
10 28 19 16-0028	EA	56" To 60" Opening, 70" Height, Frameless, Tempered Safety Glass, By-Pass Sliding Shower Door (American Standard AM00390).....	880.20	24.10

10 28 19 19 Tub Doors (10 28 19)

10 28 19 19-0001 Sliding Bathtub Doors (10 28 19 19)

10 28 19 19-0002 Framed, Sliding Bathtub Doors (10 28 19 19-0001)

10 28 19 19-0003	EA	52" To 54" Opening, Silver Finish Frame, Tempered Safety Glass, By-Pass Sliding Bathtub Door (American Standard AM00725).....	570.09	24.10
10 28 19 19-0004	EA	54" To 56" Opening, Silver Finish Frame, Tempered Safety Glass, By-Pass Sliding Bathtub Door (American Standard AM00749).....	576.16	24.10
10 28 19 19-0005	EA	56" To 60" Opening, Silver Finish Frame, Tempered Safety Glass, By-Pass Sliding Bathtub Door (American Standard AM00750).....	589.89	24.10

10 40 Safety Specialties (10)

10 41 Emergency Access And Information Cabinets (10 40)

10 41 13 Fire Department Plan Cabinets (10 41)

10 41 13 00-0001 Fire Department Plan Cabinets (Knox) (10 41 13)

10 41 13 00-0002	EA	18" High x 14-1/2" Wide x 5" Deep, Light Gray Finish, Surface Mount, Fire Department Emergency Storage Cabinet (Knox 1300).....	994.59	28.80
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Dual Locks, Add	60.00	
		For Back Key Hook Panel, Add	58.30	
		For Swing Key Hook Panel, Add	157.30	
		For Non-Locking Weather Housing, Add	394.91	
10 41 13 00-0003	EA	18" High x 14-1/2" Wide x 7" Deep, Light Gray Finish, Surface Mount, Fire Department Emergency Storage Cabinet (Knox 1300).....	1,053.80	28.80
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Dual Locks, Add	60.00	
		For Back Key Hook Panel, Add	58.30	
		For Swing Key Hook Panel, Add	157.30	
		For Second Swing Key Hook Panel, Add	124.30	
		For Non-Locking Weather Housing, Add	394.91	

10 41 16 Emergency Key Cabinets (10 41)

10 41 16 00-0001 Emergency Key Cabinets (Knox) (10 41 16)

10 41 16 00-0002	EA	Elevator/Lobby, Deep Red Finish, Surface Mount, Fire Department Emergency Key Storage Box (Knox 1403).....	503.14	28.80
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
10 41 16 00-0003	EA	5" High x 4" Wide x 3-3/4" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Box 3200).....	443.93	28.80
		For Lift-Off Door, Deduct	-40.00	
		For Aluminum Or Dark Bronze Finish, Add	10.00	
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Recess Mount, Add	56.52	
		For Cast-In-Place Concrete Recess Mounting, Add	119.00	
10 41 16 00-0004	EA	6" High x 6" Wide x 4-1/2" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Vault 4100).....	589.00	28.80
		For Aluminum Or Dark Bronze Finish, Add	10.00	
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Recess Mount, Add	56.52	
		For Dual Locks, Add	60.00	
		For Cast-In-Place Concrete Recess Mounting, Add	130.00	
10 41 16 00-0005	EA	7" High x 7" Wide x 5" Deep, Black Finish, Surface Mount, Fire Department Emergency Storage Box (Knox-Vault 4400).....	626.00	28.80
		For Aluminum Or Dark Bronze Finish, Add	10.00	
		For Tamper Switch Connected To Existing Alarm System, Add	40.00	
		For Recess Mount, Add	56.52	
		For Dual Locks, Add	60.00	
		For Cast-In-Place Concrete Recess Mounting, Add	135.00	

10 44 Fire Protection Specialties (10 40)

10 44 13 Fire Protection Cabinets (10 44)

10 44 13 00-0001 Fire Extinguisher Cabinets (10 44 13)

10 44 13 00-0002 Recessed Fire Extinguisher Cabinets (10 44 13 00-0001)

10 44 13 00-0003 Steel Door And Trim, Recessed Fire Extinguisher Cabinets (10 44 13 00-0002)

		Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0004	EA	9" x 18" x 5-1/2" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	308.65	36.33
10 44 13 00-0005	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	314.58	36.33
10 44 13 00-0006	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	315.77	36.33
10 44 13 00-0007	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet.....	352.58	36.33

10	10	Specialties
	10 40	Safety Specialties
	10 44	Fire Protection Specialties



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 13 00-0008	EA	16" x 32" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet	448.75	36.33
10 44 13 00-0009	EA	20" x 27" x 7-3/4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet	461.81	36.33
10 44 13 00-0010		Aluminum Door And Trim, Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0002)</small> Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0011	EA	9" x 18" x 5-1/2" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	312.70	36.33
10 44 13 00-0012	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet	318.20	36.33
10 44 13 00-0013	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	327.36	36.33
10 44 13 00-0014	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	342.94	36.33
10 44 13 00-0015	EA	16" x 32" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	391.17	36.33
10 44 13 00-0016	EA	20" x 27" x 7-3/4" Inside Dimensions, Recessed Aluminum Fire Extinguisher Cabinet.....	405.83	36.33
10 44 13 00-0017		Stainless Steel Door And Trim, Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0002)</small> Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0018	EA	9" x 18" x 5-1/2" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	413.97	36.33
10 44 13 00-0019	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	424.51	36.33
10 44 13 00-0020	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	429.78	36.33
10 44 13 00-0021	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	465.79	36.33
10 44 13 00-0022	EA	16" x 32" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	538.34	36.33
10 44 13 00-0023	EA	20" x 27" x 7-3/4" Inside Dimensions, Recessed Stainless Steel Fire Extinguisher Cabinet.....	560.30	36.33
10 44 13 00-0024		Bronze Door And Trim, Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0002)</small> Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0025	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....	845.60	36.33
10 44 13 00-0026	EA	10-1/2" x 24" x 6" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....	851.41	36.33
10 44 13 00-0027	EA	12" x 27" x 7-3/4" Inside Dimensions, Recessed Bronze Fire Extinguisher Cabinet.....	969.86	36.33
10 44 13 00-0028		Acrylic Bubble Door And Steel Trim, Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0002)</small> Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.		
10 44 13 00-0029	EA	10-1/2" x 24" x 4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	385.82	36.33
10 44 13 00-0030	EA	14" x 30" x 4" Inside Dimensions, Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	430.94	36.33
10 44 13 00-0031		Semi Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0001)</small>		
10 44 13 00-0032		Steel Door And Trim, Semi Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0031)</small> Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0033	EA	9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	340.71	36.33
10 44 13 00-0034	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	352.58	36.33
10 44 13 00-0035	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	353.77	36.33
10 44 13 00-0036	EA	12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	394.14	36.33
10 44 13 00-0037	EA	16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	474.87	36.33
10 44 13 00-0038	EA	20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet.....	487.93	36.33
10 44 13 00-0039		Aluminum Door And Trim, Semi Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0031)</small> Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0040	EA	9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet	353.59	36.33
10 44 13 00-0041	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet.....	367.34	36.33
10 44 13 00-0042	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet	375.59	36.33
10 44 13 00-0043	EA	12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet	391.17	36.33
10 44 13 00-0044	EA	16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet	445.24	36.33
10 44 13 00-0045	EA	20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Aluminum Fire Extinguisher Cabinet	458.07	36.33
10 44 13 00-0046		Stainless Steel Door And Trim, Semi Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0031)</small> Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0047	EA	9" x 18" x 5-1/2" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....	460.17	36.33
10 44 13 00-0048	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....	472.47	36.33
10 44 13 00-0049	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....	477.74	36.33
10 44 13 00-0050	EA	12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....	504.97	36.33
10 44 13 00-0051	EA	16" x 32" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....	572.60	36.33
10 44 13 00-0052	EA	20" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Stainless Steel Fire Extinguisher Cabinet.....	587.53	36.33
10 44 13 00-0053		Bronze Door And Trim, Semi Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0031)</small> Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0054	EA	10-1/2" x 24" x 5-1/2" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet.....	1,052.35	36.33
10 44 13 00-0055	EA	10-1/2" x 24" x 6" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet.....	1,057.22	36.33
10 44 13 00-0056	EA	12" x 27" x 7-3/4" Inside Dimensions, Semi Recessed Bronze Fire Extinguisher Cabinet.....	1,204.35	36.33
10 44 13 00-0057		Acrylic Bubble Door And Steel Trim, Semi Recessed Fire Extinguisher Cabinets <small>(10 44 13 00-0031)</small> Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.		



Specialties	10
Safety Specialties	10 40
Fire Protection Specialties	10 44

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 13 00-0058 EA 10-1/2" x 24" x 4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	428.57	36.33
10 44 13 00-0059 EA 14" x 30" x 4" Inside Dimensions, Semi Recessed Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	471.31	36.33
10 44 13 00-0060 Surface Mounted Fire Extinguisher Cabinets (10 44 13 00-0001)		
10 44 13 00-0061 Steel Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)		
Note: Includes powder-coat finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0062 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet.....	331.21	36.33
10 44 13 00-0063 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet.....	338.33	36.33
10 44 13 00-0064 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet.....	395.32	36.33
10 44 13 00-0065 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet.....	465.38	36.33
10 44 13 00-0066 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet.....	484.37	36.33
10 44 13 00-0067 Aluminum Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)		
Note: Includes clear anodized finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0068 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	440.66	36.33
10 44 13 00-0069 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	452.57	36.33
10 44 13 00-0070 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	479.15	36.33
10 44 13 00-0071 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	531.39	36.33
10 44 13 00-0072 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Aluminum Fire Extinguisher Cabinet.....	553.39	36.33
10 44 13 00-0073 Stainless Steel Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)		
Note: Includes stainless steel finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0074 EA 12-3/16" x 21-3/16" x 6" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	536.59	36.33
10 44 13 00-0075 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	553.27	36.33
10 44 13 00-0076 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	594.55	36.33
10 44 13 00-0077 EA 19-3/16" x 35-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	674.48	36.33
10 44 13 00-0078 EA 23-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Stainless Steel Fire Extinguisher Cabinet.....	699.07	36.33
10 44 13 00-0079 Bronze Door And Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)		
Note: Includes satin bronze finish, full view glass or solid metal door, zinc plated handle and steel tub.		
10 44 13 00-0080 EA 13-11/16" x 27-3/16" x 6-1/2" Inside Dimensions, Surface Mount Bronze Fire Extinguisher Cabinet.....	1,199.76	36.33
10 44 13 00-0081 EA 15-3/16" x 30-3/16" x 8-1/4" Inside Dimensions, Surface Mount Bronze Fire Extinguisher Cabinet.....	1,345.75	36.33
10 44 13 00-0082 Acrylic Bubble Door And Steel Trim, Surface Mount Fire Extinguisher Cabinets (10 44 13 00-0060)		
Note: Includes 180 degree visibility acrylic bubble door, zinc plated handle and steel tub.		
10 44 13 00-0083 EA 13-11/16" x 27-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	402.45	36.33
10 44 13 00-0084 EA 17-3/16" x 33-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	454.69	36.33
10 44 13 00-0085 EA 31-3/16" x 33-3/16" x 4-5/8" Inside Dimensions, Surface Mount Steel Fire Extinguisher Cabinet With Acrylic Bubble Door.....	637.54	36.33
10 44 13 00-0086 Fire Extinguisher Cabinet Accessories (10 44 13 00-0001)		
10 44 13 00-0087 EA Standard Break Glass Cylinder Lock Mechanism.....	31.27	11.07
10 44 13 00-0088 EA Breaker Bar And Chain For Break Glass Cabinets.....	28.08	11.07
10 44 13 00-0089 EA Replacement Of Standard Pull Handle.....	26.14	
10 44 13 00-0090 EA Fire Extinguisher Cabinet Battery Operated Alarm.....	85.33	22.15
10 44 13 00-0091 EA Fire Rated Option For 10-1/2" x 24" x 5-1/2" Or 6" Cabinets.....	132.49	
10 44 13 00-0092 EA Fire Rated Option For 12" x 27" x 7-3/4" Cabinets.....	145.74	
10 44 13 00-0093 EA Fire Rated Option For 16" x 32" x 7-3/4" Cabinets.....	198.74	
10 44 13 00-0094 EA Fire Rated Option For 20" x 27" x 7-3/4" Cabinets.....	271.60	
10 44 13 00-0095 EA Fire Rated Option For 9" x 18" x 5-1/2" Cabinets.....	317.98	
10 44 13 00-0096 EA Standard Glass With Wire Glass For 9" x 18" x 5-1/2" Cabinets.....	76.84	
10 44 13 00-0097 EA Standard Glass With Wire Glass For 10-1/2" x 24" x 5-1/2" Or 6" Cabinets.....	79.49	
10 44 13 00-0098 EA Standard Glass With Wire Glass For 12" x 27" x 7-3/4" Cabinets.....	105.99	
10 44 13 00-0099 EA Standard Glass With Wire Glass For 16" x 32" x 7-3/4" Cabinets.....	192.11	
10 44 13 00-0100 EA Standard Glass With Wire Glass For 20" x 27" x 7-3/4" Cabinets.....	194.76	
10 44 13 00-0101 EA Standard Glass With Wire Glass For 12-3/16" x 21-3/16" x 6" Cabinets.....	99.64	
10 44 13 00-0102 EA Standard Glass With Wire Glass For 13-11/16" x 27-3/16" x 6-1/2" Cabinets.....	104.62	
10 44 13 00-0103 EA Standard Glass With Wire Glass For 15-3/16" x 30-3/16" x 8-1/4" Cabinets.....	141.15	
10 44 13 00-0104 EA Standard Glass With Wire Glass For 19-3/16" x 35-3/16" x 8-1/4" Cabinets.....	249.09	
10 44 13 00-0105 EA Standard Glass With Wire Glass For 23-3/16" x 30-3/16" x 8-1/4" Cabinets.....	252.41	
10 44 13 00-0106 Fire Hose Cabinets (10 44 13)		
Note: Excludes hoses, hose rack units, fire extinguishers and valves. See CSI section 21 12 13 00-0001 for fire hoses and nozzles, 21 12 13 00-0015 for fire hose rack units, 21 12 23 00-0014 for fire hose angle valves.		
10 44 13 00-0107 Recessed Fire Hose Cabinets (10 44 13 00-0106)		
10 44 13 00-0108 Steel Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107)		
Note: Includes baked enamel finish, steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		

10	10	Specialties
	10 40	Safety Specialties
	10 44	Fire Protection Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44	13 00-0109	EA	34" x 24" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	582.42 -8.60	131.01
10 44	13 00-0110	EA	34" x 26" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	593.22 -8.60	131.01
10 44	13 00-0111	EA	38" x 24" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	602.23 -8.60	131.01
10 44	13 00-0112	EA	38" x 26" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	611.24 -8.60	131.01
10 44	13 00-0113	EA	30" x 30" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	622.04 -8.60	131.01
10 44	13 00-0114	EA	38" x 32" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	650.83 -8.60	131.01
10 44	13 00-0115	EA	23" x 18" x 8" Inside Dimensions, Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	659.84 -8.60	131.01
10 44	13 00-0116		Aluminum Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107) Note: Includes clear satin anodized finish, aluminum door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0117	EA	34" x 24" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	638.42 6.50	131.01
10 44	13 00-0118	EA	30" x 30" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	656.11 6.50	131.01
10 44	13 00-0119	EA	34" x 26" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	658.41 6.50	131.01
10 44	13 00-0120	EA	38" x 24" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	665.77 6.50	131.01
10 44	13 00-0121	EA	38" x 26" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	675.42 6.50	131.01
10 44	13 00-0122	EA	38" x 32" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	702.76 6.50	131.01
10 44	13 00-0123	EA	23" x 18" x 8" Inside Dimensions, Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	730.11 6.50	131.01
10 44	13 00-0124		Stainless Steel Door And Trim, Recessed Fire Hose Cabinets (10 44 13 00-0107) Note: Includes #4 finish, stainless steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0125	EA	23" x 18" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	797.67 -7.70	131.01
10 44	13 00-0126	EA	34" x 24" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	881.31 -7.70	131.01
10 44	13 00-0127	EA	34" x 26" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	889.35 -7.70	131.01
10 44	13 00-0128	EA	38" x 24" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	915.09 -7.70	131.01
10 44	13 00-0129	EA	38" x 26" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	923.13 -7.70	131.01
10 44	13 00-0130	EA	30" x 30" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	964.96 -7.70	131.01
10 44	13 00-0131	EA	38" x 32" x 8" Inside Dimensions, Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	1,006.78 -7.70	131.01
10 44	13 00-0132		Semi Recessed Fire Hose Cabinets (10 44 13 00-0106)		
10 44	13 00-0133		Steel Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132) Note: Includes baked enamel finish, steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0134	EA	34" x 24" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	611.24 -8.60	131.01
10 44	13 00-0135	EA	34" x 26" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	622.04 -8.60	131.01
10 44	13 00-0136	EA	38" x 24" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	631.02 -8.60	131.01
10 44	13 00-0137	EA	38" x 26" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	641.82 -8.60	131.01
10 44	13 00-0138	EA	30" x 30" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	650.83 -8.60	131.01
10 44	13 00-0139	EA	38" x 32" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	679.62 -8.60	131.01
10 44	13 00-0140	EA	23" x 18" x 8" Inside Dimensions, Semi Recessed Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	690.42 -8.60	131.01
10 44	13 00-0141		Aluminum Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132) Note: Includes clear satin anodized finish, aluminum door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0142	EA	34" x 24" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	656.11 6.50	131.01
10 44	13 00-0143	EA	34" x 26" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	675.42 6.50	131.01
10 44	13 00-0144	EA	30" x 30" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	678.17 6.50	131.01



Specialties	10
Safety Specialties	10 40
Fire Protection Specialties	10 44

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44	13 00-0145	EA	38" x 24" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	683.46 6.50	131.01
10 44	13 00-0146	EA	38" x 26" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	693.11 6.50	131.01
10 44	13 00-0147	EA	38" x 32" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	720.46 6.50	131.01
10 44	13 00-0148	EA	23" x 18" x 8" Inside Dimensions, Semi Recessed Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	747.80 6.50	131.01
10 44	13 00-0149		Stainless Steel Door And Trim, Semi Recessed Fire Hose Cabinets (10 44 13 00-0132) Note: Includes #4 finish, 304 stainless steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0150	EA	23" x 18" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	847.53 -7.70	131.01
10 44	13 00-0151	EA	34" x 24" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	939.22 -7.70	131.01
10 44	13 00-0152	EA	34" x 26" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	947.26 -7.70	131.01
10 44	13 00-0153	EA	38" x 24" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	973.00 -7.70	131.01
10 44	13 00-0154	EA	38" x 26" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	981.04 -7.70	131.01
10 44	13 00-0155	EA	30" x 30" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	1,022.86 -7.70	131.01
10 44	13 00-0156	EA	38" x 32" x 8" Inside Dimensions, Semi Recessed Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	1,064.69 -7.70	131.01
10 44	13 00-0157		Surface Mount Fire Hose Cabinets (10 44 13 00-0106)		
10 44	13 00-0158		Steel Door And Trim, Surface Mount Fire Hose Cabinets (10 44 13 00-0157) Note: Includes baked enamel finish, steel door and trim, baked enamel steel box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0159	EA	37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	622.04 -8.60	131.01
10 44	13 00-0160	EA	37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	631.02 -8.60	131.01
10 44	13 00-0161	EA	41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	641.82 -8.60	131.01
10 44	13 00-0162	EA	41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	650.83 -8.60	131.01
10 44	13 00-0163	EA	33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	659.84 -8.60	131.01
10 44	13 00-0164	EA	41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	690.42 -8.60	131.01
10 44	13 00-0165	EA	26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Steel Fire Hose Cabinet..... <i>For Solid Steel Door, Deduct</i>	699.43 -8.60	131.01
10 44	13 00-0166		Aluminum Door And Trim, Surface Mount Fire Hose Cabinets (10 44 13 00-0157) Note: Includes clear satin anodized finish, aluminum door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0167	EA	37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	702.76 6.50	131.01
10 44	13 00-0168	EA	33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	720.46 6.50	131.01
10 44	13 00-0169	EA	37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	725.05 6.50	131.01
10 44	13 00-0170	EA	41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	730.11 6.50	131.01
10 44	13 00-0171	EA	41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	738.15 6.50	131.01
10 44	13 00-0172	EA	41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	767.10 6.50	131.01
10 44	13 00-0173	EA	26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Aluminum Fire Hose Cabinet..... <i>For Solid Aluminum Door, Add</i>	784.80 6.50	131.01
10 44	13 00-0174		Stainless Steel Door And Trim, Surface Mount Fire Hose Cabinets (10 44 13 00-0157) Note: Includes #4 finish, 304 stainless steel door, trim and box, full view acrylic door lite, satin finish turn handle, continuous matching hinge and self-adjusting roller catch.		
10 44	13 00-0175	EA	26-1/2" x 21-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	915.09 -7.70	131.01
10 44	13 00-0176	EA	37-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	1,182.11 -7.70	131.01
10 44	13 00-0177	EA	41-1/2" x 27-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	1,249.67 -7.70	131.01
10 44	13 00-0178	EA	37-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	1,265.75 -7.70	131.01
10 44	13 00-0179	EA	41-1/2" x 29-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	1,281.84 -7.70	131.01
10 44	13 00-0180	EA	33-1/2" x 33-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet..... <i>For Solid Stainless Steel Door, Deduct</i>	1,349.40 -7.70	131.01

10	10	Specialties
	10 40	Safety Specialties
	10 44	Fire Protection Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44	13 00-0181	EA	41-1/2" x 35-1/2" x 8-1/2" Inside Dimensions, Surface Mount Stainless Steel Fire Hose Cabinet <i>For Solid Stainless Steel Door, Deduct</i>	1,433.04 -7.70	131.01
10 44 16 Fire Extinguishers (10 44)					
10 44 16 13 Portable Fire Extinguishers (10 44 16)					
Note: Includes filling, certification, bracket, hardware and mounting on wall.					
10 44 16 13-0001 Carbon Dioxide Type, Class BC Portable Fire Extinguisher (10 44 16 13)					
10 44 16	13-0002	EA	2.5 LB Carbon Dioxide, Type BC Portable Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	202.17 -7.16 -14.31 -29.54	11.51
10 44 16	13-0003	EA	5 LB Carbon Dioxide, Type BC Portable Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	304.65 -11.82 -23.65 -34.08	13.30
10 44 16	13-0004	EA	10 LB Carbon Dioxide, Type BC Portable Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	396.30 -15.38 -30.77 -44.31	16.84
10 44 16	13-0005	EA	15 LB Carbon Dioxide, Type BC Portable Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	487.09 -18.82 -37.63 -55.39	21.27
10 44 16	13-0006	EA	20 LB Carbon Dioxide, Type BC Portable Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	541.81 -21.55 -43.10 -55.39	21.27
10 44 16	13-0007	EA	50 LB Carbon Dioxide, Type BC Wheeled Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i>	1,854.10 -83.84 -167.69	33.67
10 44 16	13-0008	EA	100 LB Carbon Dioxide, Type BC Wheeled Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i>	3,620.64 -172.17 -344.34	33.67
10 44 16 13-0009 Dry Chemical Type, Class ABC Portable Fire Extinguisher (10 44 16 13)					
10 44 16	13-0010	EA	2.6 LB Dry Chemical, Type ABC Portable Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	112.79 -2.69 -5.37 -29.54	11.51
10 44 16	13-0011	EA	5 LB Dry Chemical, Type ABC Portable Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	145.54 -3.87 -7.74 -34.08	13.30
10 44 16	13-0012	EA	10 LB Dry Chemical, Type ABC Portable Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	209.90 -6.06 -12.13 -44.31	16.84
10 44 16	13-0013	EA	20 LB Dry Chemical, Type ABC Portable Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	301.65 -9.54 -19.09 -55.39	21.27
10 44 16	13-0014	EA	50 LB Dry Chemical, Type ABC Wheeled Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i>	2,181.07 -100.19 -200.39	33.67
10 44 16	13-0015	EA	125 LB Dry Chemical, Type ABC Wheeled Fire Extinguisher <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i>	3,321.47 -157.21 -314.43	33.67
10 44 16 13-0016 Other Portable Fire Extinguishers (10 44 16 13)					
10 44 16	13-0017	EA	2.5 Gallon Water, Stored Pressure Portable Fire Extinguisher Note: Stainless steel. <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	226.87 -7.94 -15.87 -34.08	13.30
10 44 16	13-0018	EA	1.6 Gallon Wet Chemical, Class K Portable Fire Extinguisher Note: Stainless steel. <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	339.83 -11.45 -22.91 -55.39	21.27
10 44 16	13-0019	EA	2.5 Gallon Wet Chemical, Class K Portable Fire Extinguisher Note: Stainless steel. <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i> <i>For Placement In Cabinet, Deduct</i>	357.43 -12.33 -24.67 -55.39	21.27
10 44 16	13-0020	EA	30 LB Dry Powder, Class D Portable Fire Extinguisher Note: Yellow steel. <i>For >5 To 10, Deduct</i> <i>For >10, Deduct</i>	537.15 -21.32 -42.64	21.27



Specialties	10	10
Safety Specialties	10 40	
Fire Protection Specialties	10 44	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 44 16 13-0021 Fire Extinguisher Backboards (10 44 16 13)		
10 44 16 13-0022 Fire Extinguisher Backboards (10 44 16 13-0021) Note: Mounted to any wall. Includes anchors.		
10 44 16 13-0023 EA Red Painted 1/2" x 12" x 40" Beveled Edge Plywood Fire Extinguisher Backboard	92.07	15.15
10 44 16 13-0024 EA Relocate Fire Extinguisher Wood Backboard, Any Size..... Note: Includes storage and cleaning.	133.71	
10 44 16 13-0025 Inspections And Testing (10 44 16 13)		
10 44 16 13-0026 EA On Site Fire Extinguisher Annual Inspection (Tag)	11.11	
10 44 16 13-0027 EA On Site Fire Extinguisher Hydrotest.....	16.34	
10 44 19 Fire Blankets (10 44)		
10 44 19 00-0001 EA Vertical Roller Type Fire Blanket Cabinet (JL Industries 1FB)..... Note: Includes a 62" x 84", 3-1/2 pound, processed wool fire blanket.	406.01	36.33
10 44 19 00-0002 EA Drop Type Fire Blanket Cabinet (JL Industries 2FB)..... Note: Includes a 62" x 84", 3-1/2 pound, processed wool fire blanket.	293.21	36.33
10 50 Storage Specialties (10)		
10 51 Lockers (10 50)		
10 51 13 Metal Lockers (10 51)		
10 51 13 00-0001 Institutional And Corridor Lockers (10 51 13) Note: Price per frame. Includes baked enamel 24 gauge solid body components and 6" legs. Excludes slope top, base fillers, and locks.		
10 51 13 00-0002 Single Tier Institutional Or Corridor Locker (10 51 13 00-0001) Note: Includes one hat shelf, three single hooks and one double hook.		
10 51 13 00-0003 EA 12" x 12" x 60" Single Tier Institutional Or Corridor Locker	216.71	27.47
For >25 To 50, Deduct	-8.09	
For >50 To 100, Deduct	-17.00	
For >100, Deduct	-25.91	
For 14 Gauge Doors, Add	12.94	
10 51 13 00-0004 EA 12" x 15" x 60" Single Tier Institutional Or Corridor Locker	225.28	27.47
For >25 To 50, Deduct	-8.52	
For >50 To 100, Deduct	-17.86	
For >100, Deduct	-27.20	
For 14 Gauge Doors, Add	13.63	
10 51 13 00-0005 EA 12" x 18" x 60" Single Tier Institutional Or Corridor Locker	237.00	27.47
For >25 To 50, Deduct	-9.10	
For >50 To 100, Deduct	-19.03	
For >100, Deduct	-28.96	
For 14 Gauge Doors, Add	14.56	
10 51 13 00-0006 EA 12" x 12" x 72" Single Tier Institutional Or Corridor Locker	236.27	28.36
For >25 To 50, Deduct	-8.98	
For >50 To 100, Deduct	-18.81	
For >100, Deduct	-28.64	
For 14 Gauge Doors, Add	14.36	
10 51 13 00-0007 EA 12" x 15" x 72" Single Tier Institutional Or Corridor Locker	243.37	28.36
For >25 To 50, Deduct	-9.33	
For >50 To 100, Deduct	-19.52	
For >100, Deduct	-29.70	
For 14 Gauge Doors, Add	14.93	
10 51 13 00-0008 EA 12" x 18" x 72" Single Tier Institutional Or Corridor Locker	250.30	28.36
For >25 To 50, Deduct	-9.68	
For >50 To 100, Deduct	-20.21	
For >100, Deduct	-30.74	
For 14 Gauge Doors, Add	15.49	
10 51 13 00-0009 EA 15" x 15" x 72" Single Tier Institutional Or Corridor Locker	262.26	28.36
For >25 To 50, Deduct	-10.28	
For >50 To 100, Deduct	-21.41	
For >100, Deduct	-32.53	
For 14 Gauge Doors, Add	16.44	
10 51 13 00-0010 EA 15" x 18" x 72" Single Tier Institutional Or Corridor Locker	274.10	28.36
For >25 To 50, Deduct	-10.87	
For >50 To 100, Deduct	-22.59	
For >100, Deduct	-34.31	
For 14 Gauge Doors, Add	17.39	
10 51 13 00-0011 EA 18" x 18" x 72" Single Tier Institutional Or Corridor Locker	286.63	28.36
For >25 To 50, Deduct	-11.50	
For >50 To 100, Deduct	-23.84	
For >100, Deduct	-36.19	
For 14 Gauge Doors, Add	18.39	
10 51 13 00-0012 EA 18" x 21" x 72" Single Tier Institutional Or Corridor Locker	298.21	28.36
For >25 To 50, Deduct	-12.08	
For >50 To 100, Deduct	-25.00	
For >100, Deduct	-37.93	
For 14 Gauge Doors, Add	19.32	

10	10 Specialties
	10 50 Storage Specialties
	10 51 Lockers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 13 00-0013 EA 24" x 24" x 72" Single Tier Institutional Or Corridor Locker	403.97	28.36
For >25 To 50, Deduct	-17.36	
For >50 To 100, Deduct	-35.58	
For >100, Deduct	-53.79	
For 14 Gauge Doors, Add	27.78	
10 51 13 00-0014 Two Tier Institutional Or Corridor Locker <small>(10 51 13 00-0001)</small>		
Note: Includes three single hooks and one double hook per tier.		
10 51 13 00-0015 EA 12" x 12" x 60" Two Tier Institutional Or Corridor Locker	256.27	28.36
For >25 To 50, Deduct	-9.98	
For >50 To 100, Deduct	-20.81	
For >100, Deduct	-31.64	
For 14 Gauge Doors, Add	21.95	
10 51 13 00-0016 EA 12" x 15" x 60" Two Tier Institutional Or Corridor Locker	261.67	28.36
For >25 To 50, Deduct	-10.25	
For >50 To 100, Deduct	-21.35	
For >100, Deduct	-32.45	
For 14 Gauge Doors, Add	22.55	
10 51 13 00-0017 EA 12" x 18" x 60" Two Tier Institutional Or Corridor Locker	267.12	28.36
For >25 To 50, Deduct	-10.52	
For >50 To 100, Deduct	-21.89	
For >100, Deduct	-33.26	
For 14 Gauge Doors, Add	23.15	
10 51 13 00-0018 EA 12" x 12" x 72" Two Tier Institutional Or Corridor Locker	267.97	29.24
For >25 To 50, Deduct	-10.47	
For >50 To 100, Deduct	-21.83	
For >100, Deduct	-33.18	
For 14 Gauge Doors, Add	23.04	
10 51 13 00-0019 EA 12" x 15" x 72" Two Tier Institutional Or Corridor Locker	279.77	29.24
For >25 To 50, Deduct	-11.06	
For >50 To 100, Deduct	-23.01	
For >100, Deduct	-34.95	
For 14 Gauge Doors, Add	24.34	
10 51 13 00-0020 EA 12" x 18" x 72" Two Tier Institutional Or Corridor Locker	286.90	29.24
For >25 To 50, Deduct	-11.42	
For >50 To 100, Deduct	-23.72	
For >100, Deduct	-36.02	
For 14 Gauge Doors, Add	25.13	
10 51 13 00-0021 EA 15" x 15" x 72" Two Tier Institutional Or Corridor Locker	297.11	29.24
For >25 To 50, Deduct	-11.93	
For >50 To 100, Deduct	-24.74	
For >100, Deduct	-37.55	
For 14 Gauge Doors, Add	26.25	
10 51 13 00-0022 EA 15" x 18" x 72" Two Tier Institutional Or Corridor Locker	307.37	29.24
For >25 To 50, Deduct	-12.44	
For >50 To 100, Deduct	-25.77	
For >100, Deduct	-39.09	
For 14 Gauge Doors, Add	27.38	
10 51 13 00-0023 EA 18" x 18" x 72" Two Tier Institutional Or Corridor Locker	353.79	29.24
For >25 To 50, Deduct	-14.77	
For >50 To 100, Deduct	-30.41	
For >100, Deduct	-46.05	
For 14 Gauge Doors, Add	32.48	
10 51 13 00-0024 EA 18" x 21" x 72" Two Tier Institutional Or Corridor Locker	362.22	29.24
For >25 To 50, Deduct	-15.19	
For >50 To 100, Deduct	-31.25	
For >100, Deduct	-47.31	
For 14 Gauge Doors, Add	33.41	
10 51 13 00-0025 Three Tier Institutional Or Corridor Locker <small>(10 51 13 00-0001)</small>		
Note: Includes one double hook per tier.		
10 51 13 00-0026 EA 12" x 12" x 72" Three Tier Institutional Or Corridor Locker	301.08	30.13
For >25 To 50, Deduct	-12.04	
For >50 To 100, Deduct	-24.99	
For >100, Deduct	-37.93	
For 14 Gauge Doors, Add	36.12	
10 51 13 00-0027 EA 12" x 15" x 72" Three Tier Institutional Or Corridor Locker	306.62	30.13
For >25 To 50, Deduct	-12.32	
For >50 To 100, Deduct	-25.54	
For >100, Deduct	-38.76	
For 14 Gauge Doors, Add	36.95	
10 51 13 00-0028 EA 12" x 18" x 72" Three Tier Institutional Or Corridor Locker	326.33	30.13
For >25 To 50, Deduct	-13.30	
For >50 To 100, Deduct	-27.51	
For >100, Deduct	-41.72	
For 14 Gauge Doors, Add	39.91	
10 51 13 00-0029 EA 15" x 15" x 72" Three Tier Institutional Or Corridor Locker	345.20	30.13
For >25 To 50, Deduct	-14.25	
For >50 To 100, Deduct	-29.40	
For >100, Deduct	-44.55	
For 14 Gauge Doors, Add	42.74	



Specialties	10
Storage Specialties	10 50
Lockers	10 51

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 13 00-0030	EA		15" x 18" x 72" Three Tier Institutional Or Corridor Locker..... <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For 14 Gauge Doors, Add</i>	360.23 -15.00 -30.90 -46.80 45.00	30.13
10 51 13 00-0031			Four Tier Institutional Or Corridor Locker (10 51 13 00-0001)		
10 51 13 00-0032	EA		12" x 12" x 72" Four Tier Institutional Or Corridor Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	295.44 -11.67 -24.27 -36.87	31.02
10 51 13 00-0033	EA		12" x 15" x 72" Four Tier Institutional Or Corridor Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	305.11 -12.15 -25.24 -38.32	31.02
10 51 13 00-0034	EA		12" x 18" x 72" Four Tier Institutional Or Corridor Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	320.68 -12.93 -26.80 -40.66	31.02
10 51 13 00-0035	EA		15" x 15" x 72" Four Tier Institutional Or Corridor Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	333.14 -13.56 -28.04 -42.53	31.02
10 51 13 00-0036	EA		15" x 18" x 72" Four Tier Institutional Or Corridor Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	351.07 -14.45 -29.83 -45.22	31.02
10 51 13 00-0037			Six Tier Institutional Or Corridor Locker (10 51 13 00-0001)		
10 51 13 00-0038	EA		12" x 12" x 72" Six Tier Institutional Or Corridor Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	321.55 -12.89 -26.73 -40.58	31.90
10 51 13 00-0039	EA		12" x 15" x 72" Six Tier Institutional Or Corridor Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	329.01 -13.26 -27.48 -41.70	31.90
10 51 13 00-0040	EA		12" x 18" x 72" Six Tier Institutional Or Corridor Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	343.10 -13.97 -28.89 -43.81	31.90
10 51 13 00-0041			Locker And Coat Rack Combination (10 51 13 00-0001)		
10 51 13 00-0042	EA		45" x 18" x 12", 4 Person Wall Mount Locker And Coat Rack Combination.....	597.23	21.27
10 51 13 00-0043	EA		72" x 18" x 78", 16 Person Locker And Coat Rack Combination.....	954.31	44.31
10 51 13 00-0044			Athletic Lockers (10 51 13) Note: Price per frame. Includes baked enamel paint, diamond perforated doors and sides, 16 gauge solid top, bottom, and shelves and 6" legs. Excludes slope top, base fillers, and locks.		
10 51 13 00-0045			Single Tier Athletic Locker (10 51 13 00-0044) Note: Includes one hat shelf, three single hooks and one double hook.		
10 51 13 00-0046	EA		12" x 15" x 60" Single Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	325.93 -13.46 -27.77 -42.08	28.36
10 51 13 00-0047	EA		12" x 18" x 60" Single Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	337.30 -14.03 -28.91 -43.79	28.36
10 51 13 00-0048	EA		15" x 15" x 60" Single Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	344.61 -14.40 -29.64 -44.89	28.36
10 51 13 00-0049	EA		15" x 18" x 60" Single Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	356.74 -15.00 -30.85 -46.71	28.36
10 51 13 00-0050	EA		18" x 18" x 60" Single Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	409.10 -17.62 -36.09 -54.56	28.36
10 51 13 00-0051	EA		18" x 21" x 60" Single Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	450.73 -19.70 -40.25 -60.80	28.36
10 51 13 00-0052	EA		18" x 24" x 60" Single Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	479.21 -21.13 -43.10 -65.08	28.36

10	10	Specialties
	10 50	Storage Specialties
	10 51	Lockers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51	13 00-0053	EA	12" x 15" x 72" Single Tier Athletic Locker	338.55	28.36
			<i>For >25 To 50, Deduct</i>	-14.09	
			<i>For >50 To 100, Deduct</i>	-29.03	
			<i>For >100, Deduct</i>	-43.98	
10 51	13 00-0054	EA	12" x 18" x 72" Single Tier Athletic Locker	359.03	28.36
			<i>For >25 To 50, Deduct</i>	-15.12	
			<i>For >50 To 100, Deduct</i>	-31.08	
			<i>For >100, Deduct</i>	-47.05	
10 51	13 00-0055	EA	15" x 15" x 72" Single Tier Athletic Locker	366.23	28.36
			<i>For >25 To 50, Deduct</i>	-15.48	
			<i>For >50 To 100, Deduct</i>	-31.80	
			<i>For >100, Deduct</i>	-48.13	
10 51	13 00-0056	EA	15" x 18" x 72" Single Tier Athletic Locker	379.37	28.36
			<i>For >25 To 50, Deduct</i>	-16.13	
			<i>For >50 To 100, Deduct</i>	-33.12	
			<i>For >100, Deduct</i>	-50.10	
10 51	13 00-0057	EA	18" x 18" x 72" Single Tier Athletic Locker	411.79	28.36
			<i>For >25 To 50, Deduct</i>	-17.75	
			<i>For >50 To 100, Deduct</i>	-36.36	
			<i>For >100, Deduct</i>	-54.96	
10 51	13 00-0058	EA	18" x 21" x 72" Single Tier Athletic Locker	445.76	28.36
			<i>For >25 To 50, Deduct</i>	-19.45	
			<i>For >50 To 100, Deduct</i>	-39.76	
			<i>For >100, Deduct</i>	-60.06	
10 51	13 00-0059		Two Tier Athletic Locker <small>(10 51 13 00-0044)</small>		
			Note: Includes three single hooks and one double hook per tier.		
10 51	13 00-0060	EA	12" x 12" x 60" Two Tier Athletic Locker	365.68	29.24
			<i>For >25 To 50, Deduct</i>	-15.36	
			<i>For >50 To 100, Deduct</i>	-31.60	
			<i>For >100, Deduct</i>	-47.83	
10 51	13 00-0061	EA	12" x 15" x 60" Two Tier Athletic Locker	377.78	29.24
			<i>For >25 To 50, Deduct</i>	-15.96	
			<i>For >50 To 100, Deduct</i>	-32.81	
			<i>For >100, Deduct</i>	-49.65	
10 51	13 00-0062	EA	12" x 18" x 60" Two Tier Athletic Locker	391.40	29.24
			<i>For >25 To 50, Deduct</i>	-16.65	
			<i>For >50 To 100, Deduct</i>	-34.17	
			<i>For >100, Deduct</i>	-51.69	
10 51	13 00-0063	EA	15" x 15" x 60" Two Tier Athletic Locker	392.73	29.24
			<i>For >25 To 50, Deduct</i>	-16.71	
			<i>For >50 To 100, Deduct</i>	-34.30	
			<i>For >100, Deduct</i>	-51.89	
10 51	13 00-0064	EA	15" x 18" x 60" Two Tier Athletic Locker	395.56	29.24
			<i>For >25 To 50, Deduct</i>	-16.85	
			<i>For >50 To 100, Deduct</i>	-34.58	
			<i>For >100, Deduct</i>	-52.32	
10 51	13 00-0065	EA	18" x 18" x 60" Two Tier Athletic Locker	419.50	29.24
			<i>For >25 To 50, Deduct</i>	-18.05	
			<i>For >50 To 100, Deduct</i>	-36.98	
			<i>For >100, Deduct</i>	-55.91	
10 51	13 00-0066	EA	18" x 21" x 60" Two Tier Athletic Locker	437.03	29.24
			<i>For >25 To 50, Deduct</i>	-18.93	
			<i>For >50 To 100, Deduct</i>	-38.73	
			<i>For >100, Deduct</i>	-58.54	
10 51	13 00-0067	EA	18" x 24" x 60" Two Tier Athletic Locker	515.33	29.24
			<i>For >25 To 50, Deduct</i>	-22.84	
			<i>For >50 To 100, Deduct</i>	-46.56	
			<i>For >100, Deduct</i>	-70.28	
10 51	13 00-0068	EA	12" x 12" x 72" Two Tier Athletic Locker	378.78	29.24
			<i>For >25 To 50, Deduct</i>	-16.01	
			<i>For >50 To 100, Deduct</i>	-32.91	
			<i>For >100, Deduct</i>	-49.80	
10 51	13 00-0069	EA	12" x 15" x 72" Two Tier Athletic Locker	391.17	29.24
			<i>For >25 To 50, Deduct</i>	-16.63	
			<i>For >50 To 100, Deduct</i>	-34.15	
			<i>For >100, Deduct</i>	-51.66	
10 51	13 00-0070	EA	12" x 18" x 72" Two Tier Athletic Locker	408.07	29.24
			<i>For >25 To 50, Deduct</i>	-17.48	
			<i>For >50 To 100, Deduct</i>	-35.84	
			<i>For >100, Deduct</i>	-54.19	
10 51	13 00-0071	EA	15" x 15" x 72" Two Tier Athletic Locker	410.63	29.24
			<i>For >25 To 50, Deduct</i>	-17.61	
			<i>For >50 To 100, Deduct</i>	-36.09	
			<i>For >100, Deduct</i>	-54.58	
10 51	13 00-0072	EA	15" x 18" x 72" Two Tier Athletic Locker	424.52	29.24
			<i>For >25 To 50, Deduct</i>	-18.30	
			<i>For >50 To 100, Deduct</i>	-37.48	
			<i>For >100, Deduct</i>	-56.66	
10 51	13 00-0073	EA	18" x 18" x 72" Two Tier Athletic Locker	441.58	29.24
			<i>For >25 To 50, Deduct</i>	-19.15	
			<i>For >50 To 100, Deduct</i>	-39.19	
			<i>For >100, Deduct</i>	-59.22	



Specialties	10
Storage Specialties	10 50
Lockers	10 51

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51	13 00-0074	EA	18" x 21" x 72" Two Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	479.86 -21.07 -43.01 -64.96	29.24
10 51 13 00-0075 Three Tier Athletic Locker (10 51 13 00-0044)					
Note: Includes one double hook per tier.					
10 51	13 00-0076	EA	12" x 12" x 60" Three Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	396.59 -16.82 -34.54 -52.26	30.13
10 51	13 00-0077	EA	12" x 15" x 60" Three Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	416.21 -17.80 -36.50 -55.20	30.13
10 51	13 00-0078	EA	12" x 18" x 60" Three Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	433.55 -18.66 -38.23 -57.80	30.13
10 51	13 00-0079	EA	15" x 15" x 60" Three Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	445.33 -19.25 -39.41 -59.57	30.13
10 51	13 00-0080	EA	15" x 18" x 60" Three Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	464.94 -20.23 -41.37 -62.51	30.13
10 51	13 00-0081	EA	12" x 12" x 72" Three Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	418.94 -17.93 -36.77 -55.61	30.13
10 51	13 00-0082	EA	12" x 15" x 72" Three Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	436.65 -18.82 -38.54 -58.27	30.13
10 51	13 00-0083	EA	12" x 18" x 72" Three Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	461.09 -20.04 -40.99 -61.93	30.13
10 51	13 00-0084	EA	15" x 15" x 72" Three Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	473.60 -20.67 -42.24 -63.81	30.13
10 51	13 00-0085	EA	15" x 18" x 72" Three Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	492.37 -21.61 -44.11 -66.62	30.13
10 51 13 00-0086 Four Tier Athletic Locker (10 51 13 00-0044)					
10 51	13 00-0087	EA	12" x 12" x 60" Four Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	364.91 -15.14 -31.22 -47.29	31.02
10 51	13 00-0088	EA	12" x 15" x 60" Four Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	388.93 -16.35 -33.62 -50.90	31.02
10 51	13 00-0089	EA	12" x 18" x 60" Four Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	412.95 -17.55 -36.02 -54.50	31.02
10 51	13 00-0090	EA	15" x 15" x 60" Four Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	422.77 -18.04 -37.00 -55.97	31.02
10 51	13 00-0091	EA	15" x 18" x 60" Four Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	462.23 -20.01 -40.95 -61.89	31.02
10 51	13 00-0092	EA	12" x 12" x 72" Four Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	389.35 -16.37 -33.66 -50.96	31.02
10 51	13 00-0093	EA	12" x 15" x 72" Four Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	413.72 -17.58 -36.10 -54.61	31.02
10 51	13 00-0094	EA	12" x 18" x 72" Four Tier Athletic Locker <i>For >25 To 50, Deduct</i> <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	438.08 -18.80 -38.54 -58.27	31.02

10 Specialties**10 50 Storage Specialties****10 51 Lockers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 13 00-0095	EA		15" x 15" x 72" Four Tier Athletic Locker.....	450.56	31.02
			<i>For >25 To 50, Deduct</i>	-19.43	
			<i>For >50 To 100, Deduct</i>	-39.78	
			<i>For >100, Deduct</i>	-60.14	
10 51 13 00-0096	EA		15" x 18" x 72" Four Tier Athletic Locker.....	459.92	31.02
			<i>For >25 To 50, Deduct</i>	-19.89	
			<i>For >50 To 100, Deduct</i>	-40.72	
			<i>For >100, Deduct</i>	-61.54	
10 51 13 00-0097			Six Tier Athletic Locker (10 51 13 00-0044)		
10 51 13 00-0098	EA		12" x 12" x 72" Six Tier Athletic Locker.....	432.10	31.90
			<i>For >25 To 50, Deduct</i>	-18.42	
			<i>For >50 To 100, Deduct</i>	-37.79	
			<i>For >100, Deduct</i>	-57.16	
10 51 13 00-0099	EA		12" x 15" x 72" Six Tier Athletic Locker.....	450.82	31.90
			<i>For >25 To 50, Deduct</i>	-19.35	
			<i>For >50 To 100, Deduct</i>	-39.66	
			<i>For >100, Deduct</i>	-59.97	
10 51 13 00-0100	EA		12" x 18" x 72" Six Tier Athletic Locker.....	469.50	31.90
			<i>For >25 To 50, Deduct</i>	-20.29	
			<i>For >50 To 100, Deduct</i>	-41.53	
			<i>For >100, Deduct</i>	-62.77	
10 51 13 00-0101	EA		12" x 21" x 72" Six Tier Athletic Locker.....	537.70	31.90
			<i>For >25 To 50, Deduct</i>	-23.70	
			<i>For >50 To 100, Deduct</i>	-48.35	
			<i>For >100, Deduct</i>	-73.00	
10 51 13 00-0102			Metal Locker Accessories (10 51 13)		
10 51 13 00-0103			Locker Slope Tops (10 51 13 00-0102)		
10 51 13 00-0104			16 Gauge Continuous Sloping Hood (10 51 13 00-0103)		
10 51 13 00-0105	LF		12" Deep, 16 Gauge Continuous Slope Top.....	27.05	3.54
10 51 13 00-0106	LF		15" Deep, 16 Gauge Continuous Slope Top.....	22.79	3.54
10 51 13 00-0107	LF		18" Deep, 16 Gauge Continuous Slope Top.....	31.41	3.54
10 51 13 00-0108	LF		21" Deep, 16 Gauge Continuous Slope Top.....	34.73	3.54
10 51 13 00-0109	LF		24" Deep, 16 Gauge Continuous Slope Top.....	36.28	3.54
10 51 13 00-0110			16 Gauge Slope Top Corner Fillers (10 51 13 00-0103)		
10 51 13 00-0111	EA		12" Deep, 16 Gauge Slope Top Corner Fillers.....	112.63	3.54
10 51 13 00-0112	EA		15" Deep, 16 Gauge Slope Top Corner Fillers.....	115.05	3.54
10 51 13 00-0113	EA		18" Deep, 16 Gauge Slope Top Corner Fillers.....	117.45	3.54
10 51 13 00-0114	EA		21" Deep, 16 Gauge Slope Top Corner Fillers.....	120.37	3.54
10 51 13 00-0115	EA		24" Deep, 16 Gauge Slope Top Corner Fillers.....	123.26	3.54
10 51 13 00-0116			20 Gauge Individual Slope Top (10 51 13 00-0103)		
10 51 13 00-0117	EA		12" Wide x 12" Deep 20 Gauge Individual Slope Top.....	23.21	3.54
10 51 13 00-0118	EA		12" Wide x 15" Deep 20 Gauge Individual Slope Top.....	23.05	3.54
10 51 13 00-0119	EA		12" Wide x 18" Deep 20 Gauge Individual Slope Top.....	25.67	3.54
10 51 13 00-0120	EA		15" Wide x 15" Deep 20 Gauge Individual Slope Top.....	25.67	3.54
10 51 13 00-0121	EA		15" Wide x 18" Deep 20 Gauge Individual Slope Top.....	26.30	3.54
10 51 13 00-0122	EA		15" Wide x 21" Deep 20 Gauge Individual Slope Top.....	28.78	3.54
10 51 13 00-0123	EA		18" Wide x 18" Deep 20 Gauge Individual Slope Top.....	28.78	3.54
10 51 13 00-0124	EA		18" Wide x 21" Deep 20 Gauge Individual Slope Top.....	32.04	3.54
10 51 13 00-0125	EA		18" Wide x 24" Deep 20 Gauge Individual Slope Top.....	35.93	3.54
10 51 13 00-0126			Continuous Slope Top End Closures (10 51 13 00-0103)		
10 51 13 00-0127	PR		12" Deep, Continuous Slope Top End Closures.....	24.75	3.54
10 51 13 00-0128	PR		15" Deep, Continuous Slope Top End Closures.....	21.01	3.54
10 51 13 00-0129	PR		18" Deep, Continuous Slope Top End Closures.....	27.84	3.54
10 51 13 00-0130	PR		21" Deep, Continuous Slope Top End Closures.....	29.40	3.54
10 51 13 00-0131	PR		24" Deep, Continuous Slope Top End Closures.....	30.46	3.54
10 51 13 00-0132			Individual Slope Top End Closures (10 51 13 00-0103)		
10 51 13 00-0133	EA		12" Deep, Individual Slope Top End Closures.....	15.92	3.54
10 51 13 00-0134	EA		15" Deep, Individual Slope Top End Closures.....	16.41	3.54
10 51 13 00-0135	EA		18" Deep, Individual Slope Top End Closures.....	17.48	3.54
10 51 13 00-0136	EA		21" Deep, Individual Slope Top End Closures.....	18.23	3.54
10 51 13 00-0137	EA		24" Deep, Individual Slope Top End Closures.....	25.88	3.54
10 51 13 00-0138			Locker Base (10 51 13 00-0102)		
10 51 13 00-0139			Closed Front Base (10 51 13 00-0138)		
10 51 13 00-0140	EA		12" Wide, 6" High Closed Front Base.....	16.75	3.54
10 51 13 00-0141	EA		15" Wide, 6" High Closed Front Base.....	17.56	3.54



Specialties	10
Storage Specialties	10 50
Lockers	10 51

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 13 00-0142 EA 18" Wide, 6" High Closed Front Base	19.25	3.54
10 51 13 00-0143 EA 24" Wide, 6" High Closed Front Base	20.06	3.54
10 51 13 00-0144 Closed End Base (10 51 13 00-0138)		
10 51 13 00-0145 EA 12" Deep, 6" High Closed End Base	19.00	3.54
10 51 13 00-0146 EA 15" Deep, 6" High Closed End Base	19.14	3.54
10 51 13 00-0147 EA 18" Deep, 6" High Closed End Base	20.23	3.54
10 51 13 00-0148 EA 21" Deep, 6" High Closed End Base	21.30	3.54
10 51 13 00-0149 EA 24" Deep, 6" High Closed End Base	22.77	3.54
10 51 13 00-0150 Recessed Continuous Front "Z" Base (10 51 13 00-0138)		
10 51 13 00-0151 LF 4" High Recessed Continuous Front "Z" Base	20.02	2.66
10 51 13 00-0152 "Z" Base Ends Or Splice (10 51 13 00-0138)		
10 51 13 00-0153 EA 12" Wide, 4" High Z-Base Ends Or Splice	19.87	3.54
10 51 13 00-0154 EA 15" Wide, 4" High Z-Base Ends Or Splice	23.05	3.54
10 51 13 00-0155 EA 18" Wide, 4" High Z-Base Ends Or Splice	26.30	3.54
10 51 13 00-0156 EA 21" Wide, 4" High Z-Base Ends Or Splice	29.72	3.54
10 51 13 00-0157 EA 24" Wide, 4" High Z-Base Ends Or Splice	33.12	3.54
10 51 13 00-0158 Locker Front Fillers And End Panels (10 51 13 00-0102)		
10 51 13 00-0159 Locker Front Fillers (10 51 13 00-0158)		
10 51 13 00-0160 EA 6" Wide x 48" High, 16 Gauge Front Filler	25.90	4.43
10 51 13 00-0161 EA 12" Wide x 48" High, 16 Gauge Front Filler	42.16	4.43
10 51 13 00-0162 EA 6" Wide x 60" High, 16 Gauge Front Filler	32.58	4.43
10 51 13 00-0163 EA 12" Wide x 60" High, 16 Gauge Front Filler	50.49	4.43
10 51 13 00-0164 EA 6" Wide x 66" High, 16 Gauge Front Filler	35.50	4.43
10 51 13 00-0165 EA 12" Wide x 66" High, 16 Gauge Front Filler	39.93	4.43
10 51 13 00-0166 EA 6" Wide x 72" High, 16 Gauge Front Filler	38.88	4.43
10 51 13 00-0167 EA 12" Wide x 72" High, 16 Gauge Front Filler	55.33	4.43
10 51 13 00-0168 EA 6" Wide x 78" High, 16 Gauge Front Filler	39.82	4.43
10 51 13 00-0169 EA 12" Wide x 78" High, 16 Gauge Front Filler	46.46	4.43
10 51 13 00-0170 Locker End Panels (10 51 13 00-0158)		
10 51 13 00-0171 EA 12" Deep x 48" High, 16 Gauge End Panel	42.95	3.54
10 51 13 00-0172 EA 15" Deep x 48" High, 16 Gauge End Panel	52.51	3.54
10 51 13 00-0173 EA 18" Deep x 48" High, 16 Gauge End Panel	61.72	3.54
10 51 13 00-0174 EA 12" Deep x 60" High, 16 Gauge End Panel	50.78	3.54
10 51 13 00-0175 EA 15" Deep x 60" High, 16 Gauge End Panel	57.65	3.54
10 51 13 00-0176 EA 18" Deep x 60" High, 16 Gauge End Panel	68.44	3.54
10 51 13 00-0177 EA 12" Deep x 72" High, 16 Gauge End Panel	59.91	3.54
10 51 13 00-0178 EA 15" Deep x 72" High, 16 Gauge End Panel	68.26	3.54
10 51 13 00-0179 EA 18" Deep x 72" High, 16 Gauge End Panel	79.37	3.54
10 51 13 00-0180 EA 21" Deep x 72" High, 16 Gauge End Panel	91.43	3.54
10 51 13 00-0181 Locker Recessed Trim (10 51 13 00-0102)		
10 51 13 00-0182 LF 3" Height, Top Trim For Recessed Lockers	8.73	1.77
10 51 13 00-0183 EA 3" Height, Inside And Outside Top Corner Trim For Recessed Lockers	24.25	3.54
10 51 13 00-0184 EA 60" Height, 3" Wide Side Trim For Recessed Lockers	37.13	3.54
10 51 13 00-0185 EA 66" Height, 3" Wide Side Trim For Recessed Lockers	38.48	3.54
10 51 13 00-0186 EA 72" Height, 3" Wide Side Trim For Recessed Lockers	39.84	3.54
10 51 13 00-0187 EA 78" Height, 3" Wide Side Trim For Recessed Lockers	41.03	3.54
10 51 13 00-0188 Locker Interior Accessories (10 51 13 00-0102)		
10 51 13 00-0189 Locker Coat Rods (10 51 13 00-0188)		
10 51 13 00-0190 EA 12" Wide Coat Rod	12.93	3.54
10 51 13 00-0191 EA 15" Wide Coat Rod	14.20	3.54
10 51 13 00-0192 EA 18" Wide Coat Rod	15.32	3.54
10 51 13 00-0193 EA 24" Wide Coat Rod	16.31	3.54
10 51 13 00-0194 Locker Hat Shelf (10 51 13 00-0188)		
10 51 13 00-0195 EA 12" Wide Hat Shelf	15.59	3.54
10 51 13 00-0196 EA 15" Wide Hat Shelf	18.32	3.54
10 51 13 00-0197 EA 18" Wide Hat Shelf	19.48	3.54
10 51 13 00-0198 EA 24" Wide Hat Shelf	24.04	3.54
10 51 13 00-0199 Locker ADA Compliant Shelf (10 51 13 00-0188)		
10 51 13 00-0200 EA ADA Compliant Shelf For Single Tier Lockers	30.99	4.43

10	10	Specialties
	10 50	Storage Specialties
	10 51	Lockers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 13 00-0201			Other Interior Locker Accessories <small>(10 51 13 00-0188)</small>		
10 51 13 00-0202	EA		3" x 10" Bent Plate Shoe Rack.....	41.13	3.54
10 51 13 00-0203	EA		8" x 10" Mirror	32.62	3.54
10 51 13 00-0204	EA		Additional Hook.....	9.22	3.54
10 51 13 00-0205			Locker Locks <small>(10 51 13 00-0102)</small>		
10 51 13 00-0206	EA		Built In Combination Lock	35.80	3.54
10 51 13 00-0207			Steel Basket Racks Mounted On Concrete Base <small>(10 51 13)</small>		
			Note: Includes electroplated baskets with 3/4" x 1" wire mesh sides and bottom with perforated sheet steel front and backs.		
10 51 13 00-0208	EA		9" x 13" x 8" Baskets, 28 Wire Mesh Baskets And Rack	1,682.04	66.46
10 51 13 00-0209	EA		12" x 13" x 8" Baskets, 21 Wire Mesh Baskets And Rack.....	1,437.29	66.46
10 51 13 00-0210			All-Welded Steel Lockers <small>(10 51 13)</small>		
10 51 13 00-0211			All-Welded Steel Lockers <small>(10 51 13 00-0210)</small>		
			Note: Price per frame. Includes diamond perforated, standard louvered or solid doors and sides. Includes all-welded construction with 16 gauge solid top, bottom, and shelves, 14 gauge doors and 4" legs. Includes electrostatically applied enamel powder coat paint finish. Excludes slope top, base fillers, and locks.		
10 51 13 00-0212			Single Tier, All-Welded Steel Lockers <small>(10 51 13 00-0211)</small>		
			Note: Includes one hat shelf, two single hooks and one double hook.		
10 51 13 00-0213	EA		12" x 12" x 48" Single Tier, All-Welded Steel Locker.....	136.52	15.51
			For >25 To 50, Deduct	-5.72	
			For >50 To 100, Deduct	-11.77	
			For >100, Deduct	-17.82	
10 51 13 00-0214	EA		12" x 15" x 48" Single Tier, All-Welded Steel Locker.....	143.28	15.51
			For >25 To 50, Deduct	-6.06	
			For >50 To 100, Deduct	-12.45	
			For >100, Deduct	-18.83	
10 51 13 00-0215	EA		12" x 18" x 48" Single Tier, All-Welded Steel Locker.....	149.78	15.51
			For >25 To 50, Deduct	-6.38	
			For >50 To 100, Deduct	-13.10	
			For >100, Deduct	-19.81	
10 51 13 00-0216	EA		12" x 12" x 60" Single Tier, All-Welded Steel Locker.....	142.10	15.51
			For >25 To 50, Deduct	-6.00	
			For >50 To 100, Deduct	-12.33	
			For >100, Deduct	-18.66	
10 51 13 00-0217	EA		12" x 15" x 60" Single Tier, All-Welded Steel Locker.....	148.60	15.51
			For >25 To 50, Deduct	-6.32	
			For >50 To 100, Deduct	-12.98	
			For >100, Deduct	-19.63	
10 51 13 00-0218	EA		12" x 18" x 60" Single Tier, All-Welded Steel Locker.....	155.10	15.51
			For >25 To 50, Deduct	-6.65	
			For >50 To 100, Deduct	-13.63	
			For >100, Deduct	-20.61	
10 51 13 00-0219	EA		12" x 12" x 72" Single Tier, All-Welded Steel Locker.....	150.33	17.06
			For >25 To 50, Deduct	-6.30	
			For >50 To 100, Deduct	-12.96	
			For >100, Deduct	-19.63	
10 51 13 00-0220	EA		12" x 15" x 72" Single Tier, All-Welded Steel Locker.....	156.34	17.06
			For >25 To 50, Deduct	-6.60	
			For >50 To 100, Deduct	-13.56	
			For >100, Deduct	-20.53	
10 51 13 00-0221	EA		12" x 18" x 72" Single Tier, All-Welded Steel Locker.....	162.84	17.06
			For >25 To 50, Deduct	-6.92	
			For >50 To 100, Deduct	-14.21	
			For >100, Deduct	-21.50	
10 51 13 00-0222	EA		15" x 15" x 72" Single Tier, All-Welded Steel Locker.....	168.92	17.06
			For >25 To 50, Deduct	-7.23	
			For >50 To 100, Deduct	-14.82	
			For >100, Deduct	-22.41	
10 51 13 00-0223	EA		15" x 18" x 72" Single Tier, All-Welded Steel Locker.....	173.93	17.06
			For >25 To 50, Deduct	-7.48	
			For >50 To 100, Deduct	-15.32	
			For >100, Deduct	-23.17	
10 51 13 00-0224	EA		18" x 18" x 72" Single Tier, All-Welded Steel Locker.....	180.84	17.06
			For >25 To 50, Deduct	-7.82	
			For >50 To 100, Deduct	-16.01	
			For >100, Deduct	-24.20	
10 51 13 00-0225	EA		18" x 21" x 72" Single Tier, All-Welded Steel Locker.....	188.61	17.06
			For >25 To 50, Deduct	-8.21	
			For >50 To 100, Deduct	-16.79	
			For >100, Deduct	-25.37	
10 51 13 00-0226	EA		24" x 24" x 72" Single Tier, All-Welded Steel Locker.....	305.66	17.06
			For >25 To 50, Deduct	-14.06	
			For >50 To 100, Deduct	-28.49	
			For >100, Deduct	-42.92	



Specialties	10
Storage Specialties	10 50
Lockers	10 51

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 13 00-0227 Two Tier, All-Welded Steel Lockers <small>(10 51 13 00-0211)</small>		
Note: Includes two single hooks and one double hook per tier.		
10 51 13 00-0228 EA 12" x 12" x 60" Two Tier, All-Welded Steel Locker.....	163.17	15.51
For >25 To 50, Deduct	-7.05	
For >50 To 100, Deduct	-14.43	
For >100, Deduct	-21.82	
10 51 13 00-0229 EA 12" x 15" x 60" Two Tier, All-Welded Steel Locker.....	166.15	15.51
For >25 To 50, Deduct	-7.20	
For >50 To 100, Deduct	-14.73	
For >100, Deduct	-22.26	
10 51 13 00-0230 EA 12" x 18" x 60" Two Tier, All-Welded Steel Locker.....	174.16	15.51
For >25 To 50, Deduct	-7.60	
For >50 To 100, Deduct	-15.53	
For >100, Deduct	-23.47	
10 51 13 00-0231 EA 12" x 12" x 72" Two Tier, All-Welded Steel Locker.....	170.36	17.06
For >25 To 50, Deduct	-7.30	
For >50 To 100, Deduct	-14.96	
For >100, Deduct	-22.63	
10 51 13 00-0232 EA 12" x 15" x 72" Two Tier, All-Welded Steel Locker.....	181.40	17.06
For >25 To 50, Deduct	-7.85	
For >50 To 100, Deduct	-16.07	
For >100, Deduct	-24.29	
10 51 13 00-0233 EA 12" x 18" x 72" Two Tier, All-Welded Steel Locker.....	187.42	17.06
For >25 To 50, Deduct	-8.15	
For >50 To 100, Deduct	-16.67	
For >100, Deduct	-25.19	
10 51 13 00-0234 EA 15" x 15" x 72" Two Tier, All-Welded Steel Locker.....	195.99	17.06
For >25 To 50, Deduct	-8.58	
For >50 To 100, Deduct	-17.53	
For >100, Deduct	-26.47	
10 51 13 00-0235 EA 15" x 18" x 72" Two Tier, All-Welded Steel Locker.....	200.03	17.06
For >25 To 50, Deduct	-8.78	
For >50 To 100, Deduct	-17.93	
For >100, Deduct	-27.08	
10 51 13 00-0236 EA 18" x 18" x 72" Two Tier, All-Welded Steel Locker.....	211.66	17.06
For >25 To 50, Deduct	-9.36	
For >50 To 100, Deduct	-19.09	
For >100, Deduct	-28.82	
10 51 13 00-0237 EA 18" x 21" x 72" Two Tier, All-Welded Steel Locker.....	220.67	17.06
For >25 To 50, Deduct	-9.82	
For >50 To 100, Deduct	-20.00	
For >100, Deduct	-30.18	
10 51 13 00-0238 Three Tier, All-Welded Steel Lockers <small>(10 51 13 00-0211)</small>		
Note: Includes two single hooks and one double hook per tier.		
10 51 13 00-0239 EA 12" x 12" x 72" Three Tier, All-Welded Steel Locker.....	201.45	17.06
For >25 To 50, Deduct	-8.85	
For >50 To 100, Deduct	-18.07	
For >100, Deduct	-27.29	
10 51 13 00-0240 EA 12" x 15" x 72" Three Tier, All-Welded Steel Locker.....	205.97	17.06
For >25 To 50, Deduct	-9.08	
For >50 To 100, Deduct	-18.53	
For >100, Deduct	-27.97	
10 51 13 00-0241 EA 12" x 18" x 72" Three Tier, All-Welded Steel Locker.....	210.46	17.06
For >25 To 50, Deduct	-9.30	
For >50 To 100, Deduct	-18.97	
For >100, Deduct	-28.64	
10 51 13 00-0242 EA 15" x 15" x 72" Three Tier, All-Welded Steel Locker.....	221.10	17.06
For >25 To 50, Deduct	-9.84	
For >50 To 100, Deduct	-20.04	
For >100, Deduct	-30.24	
10 51 13 00-0243 EA 15" x 18" x 72" Three Tier, All-Welded Steel Locker.....	223.06	17.06
For >25 To 50, Deduct	-9.93	
For >50 To 100, Deduct	-20.23	
For >100, Deduct	-30.53	
10 51 13 00-0244 Four Tier, All-Welded Steel Lockers <small>(10 51 13 00-0211)</small>		
10 51 13 00-0245 EA 12" x 12" x 72" Four Tier, All-Welded Steel Locker.....	190.73	17.06
For >25 To 50, Deduct	-8.32	
For >50 To 100, Deduct	-17.00	
For >100, Deduct	-25.69	
10 51 13 00-0246 EA 12" x 15" x 72" Four Tier, All-Welded Steel Locker.....	195.00	17.06
For >25 To 50, Deduct	-8.53	
For >50 To 100, Deduct	-17.43	
For >100, Deduct	-26.33	
10 51 13 00-0247 EA 12" x 18" x 72" Four Tier, All-Welded Steel Locker.....	199.24	17.06
For >25 To 50, Deduct	-8.74	
For >50 To 100, Deduct	-17.85	
For >100, Deduct	-26.96	
10 51 13 00-0248 EA 15" x 15" x 72" Four Tier, All-Welded Steel Locker.....	209.24	17.06
For >25 To 50, Deduct	-9.24	
For >50 To 100, Deduct	-18.85	
For >100, Deduct	-28.46	

10	10	Specialties
	10 50	Storage Specialties
	10 51	Lockers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 13 00-0249	EA		15" x 18" x 72" Four Tier, All-Welded Steel Locker	211.06	17.06
			<i>For >25 To 50, Deduct</i>	-9.33	
			<i>For >50 To 100, Deduct</i>	-19.03	
			<i>For >100, Deduct</i>	-28.73	
10 51 13 00-0250			Six Tier, All-Welded Steel Lockers (10 51 13 00-0211)		
10 51 13 00-0251	EA		12" x 12" x 72" Six Tier, All-Welded Steel Locker	197.37	17.06
			<i>For >25 To 50, Deduct</i>	-8.65	
			<i>For >50 To 100, Deduct</i>	-17.67	
			<i>For >100, Deduct</i>	-26.68	
10 51 13 00-0252	EA		12" x 15" x 72" Six Tier, All-Welded Steel Locker	203.60	17.06
			<i>For >25 To 50, Deduct</i>	-8.96	
			<i>For >50 To 100, Deduct</i>	-18.29	
			<i>For >100, Deduct</i>	-27.62	
10 51 13 00-0253	EA		12" x 18" x 72" Six Tier, All-Welded Steel Locker	208.19	17.06
			<i>For >25 To 50, Deduct</i>	-9.19	
			<i>For >50 To 100, Deduct</i>	-18.75	
			<i>For >100, Deduct</i>	-28.30	
10 51 13 00-0254			All Welded Locker Accessories (10 51 13 00-0210)		
10 51 13 00-0255	EA		ADA Requirements For All Welded Lockers	73.39	
10 51 13 00-0256	EA		Solid Boxed End Panel For 12" Deep All Welded Lockers	120.32	3.54
10 51 13 00-0257	EA		Solid Boxed End Panel For 15" Deep All Welded Lockers	139.19	3.54
10 51 13 00-0258	EA		Recessed Trim For All Welded Lockers	85.37	3.54
10 51 13 00-0259	EA		Built In Combination Lock For All Welded Lockers	35.80	3.54
10 51 13 00-0260	EA		Pad Lock For All Welded Lockers	24.56	3.54
10 51 26			Plastic Lockers (10 51)		
10 51 26 00-0001			Solid Plastic Lockers (10 51 26)		
			Note: Price per frame. High density polyethylene with homogeneous color throughout. Includes 1/2" door, 3/8" sides, tops, bottoms, rears and shelves. Excludes slope top, base, and locks.		
10 51 26 00-0002			Single Tier Solid Plastic Lockers (10 51 26 00-0001)		
			Note: Includes one double hook per tier.		
10 51 26 00-0003	EA		12" x 12" x 36" Single Tier Solid Plastic Locker (Tufftec Lockers®)	423.17	27.47
			<i>For >50 To 100, Deduct</i>	-36.82	
			<i>For >100, Deduct</i>	-56.88	
10 51 26 00-0004	EA		12" x 15" x 36" Single Tier Solid Plastic Locker (Tufftec Lockers®)	430.55	27.47
			<i>For >50 To 100, Deduct</i>	-37.56	
			<i>For >100, Deduct</i>	-57.99	
10 51 26 00-0005	EA		12" x 18" x 36" Single Tier Solid Plastic Locker (Tufftec Lockers®)	437.94	27.47
			<i>For >50 To 100, Deduct</i>	-38.30	
			<i>For >100, Deduct</i>	-59.10	
10 51 26 00-0006	EA		15" x 15" x 36" Single Tier Solid Plastic Locker (Tufftec Lockers®)	449.02	27.47
			<i>For >50 To 100, Deduct</i>	-39.41	
			<i>For >100, Deduct</i>	-60.76	
10 51 26 00-0007	EA		15" x 18" x 36" Single Tier Solid Plastic Locker (Tufftec Lockers®)	437.30	27.47
			<i>For >50 To 100, Deduct</i>	-38.24	
			<i>For >100, Deduct</i>	-59.00	
10 51 26 00-0008	EA		18" x 12" x 36" Single Tier Solid Plastic Locker (Tufftec Lockers®)	440.41	27.47
			<i>For >50 To 100, Deduct</i>	-38.55	
			<i>For >100, Deduct</i>	-59.47	
10 51 26 00-0009	EA		18" x 15" x 36" Single Tier Solid Plastic Locker (Tufftec Lockers®)	434.95	27.47
			<i>For >50 To 100, Deduct</i>	-38.00	
			<i>For >100, Deduct</i>	-58.65	
10 51 26 00-0010	EA		18" x 18" x 36" Single Tier Solid Plastic Locker (Tufftec Lockers®)	465.45	27.47
			<i>For >50 To 100, Deduct</i>	-41.05	
			<i>For >100, Deduct</i>	-63.22	
10 51 26 00-0011	EA		12" x 12" x 48" Single Tier Solid Plastic Locker (Tufftec Lockers®)	458.41	27.47
			<i>For >50 To 100, Deduct</i>	-40.35	
			<i>For >100, Deduct</i>	-62.17	
10 51 26 00-0012	EA		12" x 15" x 48" Single Tier Solid Plastic Locker (Tufftec Lockers®)	466.62	27.47
			<i>For >50 To 100, Deduct</i>	-41.17	
			<i>For >100, Deduct</i>	-63.40	
10 51 26 00-0013	EA		12" x 18" x 48" Single Tier Solid Plastic Locker (Tufftec Lockers®)	474.83	27.47
			<i>For >50 To 100, Deduct</i>	-41.99	
			<i>For >100, Deduct</i>	-64.63	
10 51 26 00-0014	EA		15" x 15" x 48" Single Tier Solid Plastic Locker (Tufftec Lockers®)	493.60	27.47
			<i>For >50 To 100, Deduct</i>	-43.87	
			<i>For >100, Deduct</i>	-67.45	
10 51 26 00-0015	EA		15" x 18" x 48" Single Tier Solid Plastic Locker (Tufftec Lockers®)	519.40	27.47
			<i>For >50 To 100, Deduct</i>	-46.45	
			<i>For >100, Deduct</i>	-71.32	
10 51 26 00-0016	EA		18" x 15" x 48" Single Tier Solid Plastic Locker (Tufftec Lockers®)	495.94	27.47
			<i>For >50 To 100, Deduct</i>	-44.10	
			<i>For >100, Deduct</i>	-67.80	
10 51 26 00-0017	EA		18" x 18" x 48" Single Tier Solid Plastic Locker (Tufftec Lockers®)	538.16	27.47
			<i>For >50 To 100, Deduct</i>	-48.32	
			<i>For >100, Deduct</i>	-74.13	



Specialties	10
Storage Specialties	10 50
Lockers	10 51

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 26 00-0018	EA		12" x 12" x 60" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	461.68	27.47
			<i>For >50 To 100, Deduct</i>	-40.67	
			<i>For >100, Deduct</i>	-62.66	
10 51 26 00-0019	EA		12" x 15" x 60" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	485.74	27.47
			<i>For >50 To 100, Deduct</i>	-43.08	
			<i>For >100, Deduct</i>	-66.27	
10 51 26 00-0020	EA		12" x 18" x 60" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	509.82	27.47
			<i>For >50 To 100, Deduct</i>	-45.49	
			<i>For >100, Deduct</i>	-69.88	
10 51 26 00-0021	EA		15" x 12" x 60" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	492.19	27.47
			<i>For >50 To 100, Deduct</i>	-43.73	
			<i>For >100, Deduct</i>	-67.24	
10 51 26 00-0022	EA		15" x 15" x 60" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	517.69	27.47
			<i>For >50 To 100, Deduct</i>	-46.28	
			<i>For >100, Deduct</i>	-71.06	
10 51 26 00-0023	EA		15" x 18" x 60" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	543.21	27.47
			<i>For >50 To 100, Deduct</i>	-48.83	
			<i>For >100, Deduct</i>	-74.89	
10 51 26 00-0024	EA		18" x 12" x 60" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	522.69	27.47
			<i>For >50 To 100, Deduct</i>	-46.78	
			<i>For >100, Deduct</i>	-71.81	
10 51 26 00-0025	EA		18" x 15" x 60" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	549.65	27.47
			<i>For >50 To 100, Deduct</i>	-49.47	
			<i>For >100, Deduct</i>	-75.85	
10 51 26 00-0026	EA		12" x 12" x 72" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	527.36	28.36
			<i>For >50 To 100, Deduct</i>	-47.07	
			<i>For >100, Deduct</i>	-72.30	
10 51 26 00-0027	EA		12" x 15" x 72" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	554.34	28.36
			<i>For >50 To 100, Deduct</i>	-49.76	
			<i>For >100, Deduct</i>	-76.35	
10 51 26 00-0028	EA		12" x 18" x 72" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	581.28	28.36
			<i>For >50 To 100, Deduct</i>	-52.46	
			<i>For >100, Deduct</i>	-80.39	
10 51 26 00-0029	EA		15" x 12" x 72" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	562.37	28.36
			<i>For >50 To 100, Deduct</i>	-50.57	
			<i>For >100, Deduct</i>	-77.55	
10 51 26 00-0030	EA		15" x 15" x 72" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	590.82	28.36
			<i>For >50 To 100, Deduct</i>	-53.41	
			<i>For >100, Deduct</i>	-81.82	
10 51 26 00-0031	EA		15" x 18" x 72" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	619.24	28.36
			<i>For >50 To 100, Deduct</i>	-56.25	
			<i>For >100, Deduct</i>	-86.08	
10 51 26 00-0032	EA		18" x 12" x 72" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	590.28	28.36
			<i>For >50 To 100, Deduct</i>	-53.36	
			<i>For >100, Deduct</i>	-81.74	
10 51 26 00-0033	EA		18" x 15" x 72" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	627.27	28.36
			<i>For >50 To 100, Deduct</i>	-57.06	
			<i>For >100, Deduct</i>	-87.29	
10 51 26 00-0034	EA		18" x 18" x 72" Single Tier Solid Plastic Locker (Tufftec Lockers®).....	657.15	28.36
			<i>For >50 To 100, Deduct</i>	-60.04	
			<i>For >100, Deduct</i>	-91.77	
10 51 26 00-0035			Double Tier Solid Plastic Lockers (10 51 26 00-0001)		
			Note: Includes one double hook per tier.		
10 51 26 00-0036	EA		12" x 12" x 48" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	474.26	28.36
			<i>For >50 To 100, Deduct</i>	-41.76	
			<i>For >100, Deduct</i>	-64.33	
10 51 26 00-0037	EA		12" x 15" x 48" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	481.29	28.36
			<i>For >50 To 100, Deduct</i>	-42.46	
			<i>For >100, Deduct</i>	-65.39	
10 51 26 00-0038	EA		12" x 18" x 48" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	491.84	28.36
			<i>For >50 To 100, Deduct</i>	-43.51	
			<i>For >100, Deduct</i>	-66.97	
10 51 26 00-0039	EA		15" x 12" x 48" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	488.33	28.36
			<i>For >50 To 100, Deduct</i>	-43.16	
			<i>For >100, Deduct</i>	-66.44	
10 51 26 00-0040	EA		15" x 15" x 48" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	507.10	28.36
			<i>For >50 To 100, Deduct</i>	-45.04	
			<i>For >100, Deduct</i>	-69.26	
10 51 26 00-0041	EA		15" x 18" x 48" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	551.66	28.36
			<i>For >50 To 100, Deduct</i>	-49.50	
			<i>For >100, Deduct</i>	-75.94	
10 51 26 00-0042	EA		18" x 12" x 48" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	493.03	28.36
			<i>For >50 To 100, Deduct</i>	-43.63	
			<i>For >100, Deduct</i>	-67.15	
10 51 26 00-0043	EA		18" x 15" x 48" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	515.73	28.36
			<i>For >50 To 100, Deduct</i>	-45.90	
			<i>For >100, Deduct</i>	-70.55	
10 51 26 00-0044	EA		18" x 18" x 48" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	556.36	28.36
			<i>For >50 To 100, Deduct</i>	-49.97	
			<i>For >100, Deduct</i>	-76.65	
10 51 26 00-0045	EA		12" x 12" x 60" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	490.40	28.36
			<i>For >50 To 100, Deduct</i>	-43.37	
			<i>For >100, Deduct</i>	-66.75	

10	10	Specialties
	10 50	Storage Specialties
	10 51	Lockers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 26 00-0046	EA		12" x 15" x 60" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	527.14	28.36
			<i>For >50 To 100, Deduct</i>	-47.04	
			<i>For >100, Deduct</i>	-72.27	
10 51 26 00-0047	EA		12" x 18" x 60" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	537.64	28.36
			<i>For >50 To 100, Deduct</i>	-48.09	
			<i>For >100, Deduct</i>	-73.84	
10 51 26 00-0048	EA		15" x 12" x 60" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	533.28	28.36
			<i>For >50 To 100, Deduct</i>	-47.66	
			<i>For >100, Deduct</i>	-73.19	
10 51 26 00-0049	EA		15" x 15" x 60" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	557.63	28.36
			<i>For >50 To 100, Deduct</i>	-50.09	
			<i>For >100, Deduct</i>	-76.84	
10 51 26 00-0050	EA		18" x 12" x 60" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	562.39	28.36
			<i>For >50 To 100, Deduct</i>	-50.57	
			<i>For >100, Deduct</i>	-77.55	
10 51 26 00-0051	EA		18" x 15" x 60" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	588.13	28.36
			<i>For >50 To 100, Deduct</i>	-53.14	
			<i>For >100, Deduct</i>	-81.41	
10 51 26 00-0052	EA		18" x 18" x 60" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	613.87	28.36
			<i>For >50 To 100, Deduct</i>	-55.72	
			<i>For >100, Deduct</i>	-85.28	
10 51 26 00-0053	EA		12" x 12" x 72" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	566.93	29.24
			<i>For >50 To 100, Deduct</i>	-50.85	
			<i>For >100, Deduct</i>	-78.02	
10 51 26 00-0054	EA		12" x 15" x 72" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	592.67	29.24
			<i>For >50 To 100, Deduct</i>	-53.42	
			<i>For >100, Deduct</i>	-81.88	
10 51 26 00-0055	EA		12" x 18" x 72" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	606.09	29.24
			<i>For >50 To 100, Deduct</i>	-54.76	
			<i>For >100, Deduct</i>	-83.90	
10 51 26 00-0056	EA		15" x 12" x 72" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	600.35	29.24
			<i>For >50 To 100, Deduct</i>	-54.19	
			<i>For >100, Deduct</i>	-83.03	
10 51 26 00-0057	EA		15" x 15" x 72" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	627.50	29.24
			<i>For >50 To 100, Deduct</i>	-56.90	
			<i>For >100, Deduct</i>	-87.11	
10 51 26 00-0058	EA		15" x 18" x 72" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	654.64	29.24
			<i>For >50 To 100, Deduct</i>	-59.62	
			<i>For >100, Deduct</i>	-91.18	
10 51 26 00-0059	EA		18" x 12" x 72" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	605.21	29.24
			<i>For >50 To 100, Deduct</i>	-54.67	
			<i>For >100, Deduct</i>	-83.76	
10 51 26 00-0060	EA		18" x 15" x 72" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	662.30	29.24
			<i>For >50 To 100, Deduct</i>	-60.38	
			<i>For >100, Deduct</i>	-92.33	
10 51 26 00-0061	EA		18" x 18" x 72" Double Tier Solid Plastic Locker (Tufftec Lockers®).....	690.82	29.24
			<i>For >50 To 100, Deduct</i>	-63.23	
			<i>For >100, Deduct</i>	-96.61	
10 51 26 00-0062			Triple Tier Solid Plastic Lockers (10 51 26 00-0001)		
			Note: Includes one double hook per tier.		
10 51 26 00-0063	EA		12" x 12" x 48" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	467.23	29.24
			<i>For >50 To 100, Deduct</i>	-40.88	
			<i>For >100, Deduct</i>	-63.07	
10 51 26 00-0064	EA		15" x 15" x 48" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	486.54	29.24
			<i>For >50 To 100, Deduct</i>	-42.81	
			<i>For >100, Deduct</i>	-65.96	
10 51 26 00-0065	EA		15" x 18" x 48" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	504.25	29.24
			<i>For >50 To 100, Deduct</i>	-44.58	
			<i>For >100, Deduct</i>	-68.62	
10 51 26 00-0066	EA		12" x 12" x 60" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	507.69	29.24
			<i>For >50 To 100, Deduct</i>	-44.92	
			<i>For >100, Deduct</i>	-69.14	
10 51 26 00-0067	EA		12" x 15" x 60" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	548.96	29.24
			<i>For >50 To 100, Deduct</i>	-49.05	
			<i>For >100, Deduct</i>	-75.33	
10 51 26 00-0068	EA		12" x 18" x 60" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	549.15	29.24
			<i>For >50 To 100, Deduct</i>	-49.07	
			<i>For >100, Deduct</i>	-75.35	
10 51 26 00-0069	EA		15" x 12" x 60" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	571.67	29.24
			<i>For >50 To 100, Deduct</i>	-51.32	
			<i>For >100, Deduct</i>	-78.73	
10 51 26 00-0070	EA		15" x 15" x 60" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	594.29	29.24
			<i>For >50 To 100, Deduct</i>	-53.58	
			<i>For >100, Deduct</i>	-82.13	
10 51 26 00-0071	EA		15" x 18" x 60" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	616.89	29.24
			<i>For >50 To 100, Deduct</i>	-55.84	
			<i>For >100, Deduct</i>	-85.52	
10 51 26 00-0072	EA		18" x 12" x 60" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	598.72	29.24
			<i>For >50 To 100, Deduct</i>	-54.02	
			<i>For >100, Deduct</i>	-82.79	
10 51 26 00-0073	EA		18" x 15" x 60" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	622.62	29.24
			<i>For >50 To 100, Deduct</i>	-56.41	
			<i>For >100, Deduct</i>	-86.38	



Specialties	10
Storage Specialties	10 50
Lockers	10 51

10

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 26 00-0074	EA		18" x 18" x 60" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	646.51	29.24
			<i>For >50 To 100, Deduct</i>	-58.80	
			<i>For >100, Deduct</i>	-89.96	
10 51 26 00-0075	EA		12" x 12" x 72" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	603.06	30.13
			<i>For >50 To 100, Deduct</i>	-54.28	
			<i>For >100, Deduct</i>	-83.23	
10 51 26 00-0076	EA		12" x 15" x 72" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	626.98	30.13
			<i>For >50 To 100, Deduct</i>	-56.67	
			<i>For >100, Deduct</i>	-86.82	
10 51 26 00-0077	EA		12" x 18" x 72" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	643.76	30.13
			<i>For >50 To 100, Deduct</i>	-58.35	
			<i>For >100, Deduct</i>	-89.33	
10 51 26 00-0078	EA		15" x 12" x 72" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	634.09	30.13
			<i>For >50 To 100, Deduct</i>	-57.38	
			<i>For >100, Deduct</i>	-87.88	
10 51 26 00-0079	EA		15" x 15" x 72" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	641.67	30.13
			<i>For >50 To 100, Deduct</i>	-58.14	
			<i>For >100, Deduct</i>	-89.02	
10 51 26 00-0080	EA		15" x 18" x 72" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	668.99	30.13
			<i>For >50 To 100, Deduct</i>	-60.87	
			<i>For >100, Deduct</i>	-93.12	
10 51 26 00-0081	EA		18" x 12" x 72" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	623.24	30.13
			<i>For >50 To 100, Deduct</i>	-56.30	
			<i>For >100, Deduct</i>	-86.25	
10 51 26 00-0082	EA		18" x 15" x 72" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	678.78	30.13
			<i>For >50 To 100, Deduct</i>	-61.85	
			<i>For >100, Deduct</i>	-94.59	
10 51 26 00-0083	EA		18" x 18" x 72" Triple Tier Solid Plastic Locker (Tufftec Lockers®).....	718.10	30.13
			<i>For >50 To 100, Deduct</i>	-65.78	
			<i>For >100, Deduct</i>	-100.48	
10 51 26 00-0084			Four Tier Solid Plastic Lockers <small>(10 51 26 00-0001)</small>		
10 51 26 00-0085	EA		12" x 12" x 60" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	542.31	30.13
			<i>For >50 To 100, Deduct</i>	-48.21	
			<i>For >100, Deduct</i>	-74.12	
10 51 26 00-0086	EA		12" x 15" x 60" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	557.99	30.13
			<i>For >50 To 100, Deduct</i>	-49.77	
			<i>For >100, Deduct</i>	-76.47	
10 51 26 00-0087	EA		12" x 18" x 60" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	586.89	30.13
			<i>For >50 To 100, Deduct</i>	-52.66	
			<i>For >100, Deduct</i>	-80.80	
10 51 26 00-0088	EA		15" x 12" x 60" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	583.36	30.13
			<i>For >50 To 100, Deduct</i>	-52.31	
			<i>For >100, Deduct</i>	-80.27	
10 51 26 00-0089	EA		15" x 15" x 60" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	620.80	30.13
			<i>For >50 To 100, Deduct</i>	-56.05	
			<i>For >100, Deduct</i>	-85.89	
10 51 26 00-0090	EA		15" x 18" x 60" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	632.62	30.13
			<i>For >50 To 100, Deduct</i>	-57.24	
			<i>For >100, Deduct</i>	-87.66	
10 51 26 00-0091	EA		18" x 12" x 60" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	626.75	30.13
			<i>For >50 To 100, Deduct</i>	-56.65	
			<i>For >100, Deduct</i>	-86.78	
10 51 26 00-0092	EA		18" x 15" x 60" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	646.69	30.13
			<i>For >50 To 100, Deduct</i>	-58.64	
			<i>For >100, Deduct</i>	-89.77	
10 51 26 00-0093	EA		18" x 18" x 60" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	704.17	30.13
			<i>For >50 To 100, Deduct</i>	-64.39	
			<i>For >100, Deduct</i>	-98.39	
10 51 26 00-0094	EA		12" x 12" x 72" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	623.78	31.02
			<i>For >50 To 100, Deduct</i>	-56.18	
			<i>For >100, Deduct</i>	-86.12	
10 51 26 00-0095	EA		12" x 15" x 72" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	651.57	31.02
			<i>For >50 To 100, Deduct</i>	-58.95	
			<i>For >100, Deduct</i>	-90.29	
10 51 26 00-0096	EA		12" x 18" x 72" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	655.19	31.02
			<i>For >50 To 100, Deduct</i>	-59.32	
			<i>For >100, Deduct</i>	-90.83	
10 51 26 00-0097	EA		15" x 12" x 72" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	690.22	31.02
			<i>For >50 To 100, Deduct</i>	-62.82	
			<i>For >100, Deduct</i>	-96.09	
10 51 26 00-0098	EA		15" x 15" x 72" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	657.81	31.02
			<i>For >50 To 100, Deduct</i>	-59.58	
			<i>For >100, Deduct</i>	-91.23	
10 51 26 00-0099	EA		15" x 18" x 72" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	687.17	31.02
			<i>For >50 To 100, Deduct</i>	-62.51	
			<i>For >100, Deduct</i>	-95.63	
10 51 26 00-0100	EA		18" x 12" x 72" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	656.69	31.02
			<i>For >50 To 100, Deduct</i>	-59.47	
			<i>For >100, Deduct</i>	-91.06	
10 51 26 00-0101	EA		18" x 15" x 72" Four Tier Solid Plastic Locker (Tufftec Lockers®).....	691.87	31.02
			<i>For >50 To 100, Deduct</i>	-62.98	
			<i>For >100, Deduct</i>	-96.34	

10 Specialties**10 50 Storage Specialties****10 51 Lockers**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 26 00-0102	EA		18" x 18" x 72" Four Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	744.59 -68.26 -104.24	31.02
10 51 26 00-0103 Five Tier Solid Plastic Lockers (10 51 26 00-0001)					
10 51 26 00-0104	EA		12" x 12" x 60" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	589.46 -52.83 -81.08	30.57
10 51 26 00-0105	EA		12" x 15" x 60" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	608.87 -54.77 -83.99	30.57
10 51 26 00-0106	EA		12" x 18" x 60" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	628.28 -56.71 -86.90	30.57
10 51 26 00-0107	EA		15" x 12" x 60" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	615.92 -55.48 -85.05	30.57
10 51 26 00-0108	EA		15" x 15" x 60" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	650.69 -58.95 -90.27	30.57
10 51 26 00-0109	EA		15" x 18" x 60" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	667.52 -60.64 -92.79	30.57
10 51 26 00-0110	EA		18" x 12" x 60" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	661.66 -60.05 -91.91	30.57
10 51 26 00-0111	EA		18" x 15" x 60" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	680.43 -61.93 -94.73	30.57
10 51 26 00-0112	EA		18" x 18" x 60" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	741.42 -68.03 -103.88	30.57
10 51 26 00-0113	EA		12" x 12" x 72" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	642.78 -57.99 -88.87	31.46
10 51 26 00-0114	EA		12" x 15" x 72" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	664.55 -60.16 -92.13	31.46
10 51 26 00-0115	EA		12" x 18" x 72" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	686.30 -62.34 -95.39	31.46
10 51 26 00-0116	EA		15" x 12" x 72" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	678.69 -61.58 -94.25	31.46
10 51 26 00-0117	EA		15" x 15" x 72" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	693.99 -63.11 -96.55	31.46
10 51 26 00-0118	EA		15" x 18" x 72" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	716.92 -65.40 -99.99	31.46
10 51 26 00-0119	EA		18" x 12" x 72" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	699.30 -63.64 -97.34	31.46
10 51 26 00-0120	EA		18" x 15" x 72" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	725.59 -66.27 -101.29	31.46
10 51 26 00-0121	EA		18" x 18" x 72" Five Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	756.09 -69.32 -105.86	31.46
10 51 26 00-0122 Six Tier Solid Plastic Lockers (10 51 26 00-0001)					
10 51 26 00-0123	EA		15" x 12" x 60" Six Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	679.05 -61.70 -94.41	31.02
10 51 26 00-0124	EA		12" x 12" x 72" Six Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	666.63 -60.28 -92.34	31.90
10 51 26 00-0125	EA		12" x 15" x 72" Six Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	688.37 -62.46 -95.60	31.90
10 51 26 00-0126	EA		12" x 18" x 72" Six Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	702.87 -63.91 -97.77	31.90
10 51 26 00-0127	EA		15" x 12" x 72" Six Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	731.85 -66.81 -102.12	31.90
10 51 26 00-0128	EA		15" x 15" x 72" Six Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	740.32 -67.65 -103.39	31.90
10 51 26 00-0129	EA		15" x 18" x 72" Six Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	746.36 -68.26 -104.30	31.90



Specialties	10
Storage Specialties	10 50
Lockers	10 51

10

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 51 26 00-0130 EA 18" x 12" x 72" Six Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	748.76 -68.50 -104.66	31.90
10 51 26 00-0131 EA 18" x 15" x 72" Six Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	775.34 -71.15 -108.65	31.90
10 51 26 00-0132 EA 18" x 18" x 72" Six Tier Solid Plastic Locker (Tufftec Lockers®)..... <i>For >50 To 100, Deduct</i> <i>For >100, Deduct</i>	810.38 -74.66 -113.90	31.90
10 51 26 00-0133 Solid Plastic Locker Accessories (10 51 26 00-0001)		
10 51 26 00-0134 Slope Tops For Solid Plastic Lockers (10 51 26 00-0133) Note: Price per frame.		
10 51 26 00-0135 EA Slope Top For Solid Plastic Lockers (Tufftec Lockers®).....	32.19	
10 51 26 00-0136 Recessed Bases For Solid Plastic Lockers (10 51 26 00-0133) Note: Price per frame.		
10 51 26 00-0137 EA Recessed Base For Solid Plastic Lockers (Tufftec Lockers®).....	35.32	
10 51 26 00-0138 End Panels For Solid Plastic Lockers (10 51 26 00-0133) Note: Price per frame.		
10 51 26 00-0139 EA End Panel For Solid Plastic Lockers (Tufftec Lockers®).....	80.81	
10 51 26 00-0140 Venting Options For Solid Plastic Locker Doors (10 51 26 00-0133) Note: Price per frame.		
10 51 26 00-0141 EA Horizontal Venting Option For Solid Plastic Locker Doors.....	31.37	
10 51 26 00-0142 Filler Panels For Solid Plastic Lockers (10 51 26 00-0133) Note: Full locker height. Width and height cut to size in the field.		
10 51 26 00-0143 EA Up To 6" Width, Filler Panel For Solid Plastic Lockers (Tufftec Lockers®).....	84.89	
10 51 26 00-0144 Locker Accessories For Solid Plastic Lockers (10 51 26 00-0133)		
10 51 26 00-0145 EA Built In Hasp For Solid Plastic Lockers..... Note: For removable padlocks. Excludes padlock.	7.84	
10 51 26 00-0146 EA Built In Combination Lock For Solid Plastic Lockers.....	23.53	
10 51 26 00-0147 EA Built In Key Lock For Solid Plastic Lockers.....	31.37	
10 51 53 Locker Room Benches (10 51)		
10 51 53 00-0001 LF Hardwood Bench With Aluminum Pedestals.....	91.78	4.43
10 51 53 00-0002 LF Hardwood Bench With Painted Steel Pedestals.....	72.99	4.43
10 51 53 00-0003 LF Plastic Laminated Bench With Steel Pedestals.....	112.20	4.43
10 51 53 00-0004 LF Solid Plastic Bench With Steel Pedestals.....	107.16	4.43
10 51 53 00-0005 LF Aluminum Bench With Aluminum Pedestals.....	82.96	4.43
10 55 Postal Specialties (10 50)		
10 55 23 Mail Boxes (10 55)		
10 55 23 23 Residential Mail Boxes (10 55 23)		
10 55 23 23-0001 Residential Mail Boxes (10 55 23 23)		
10 55 23 23-0002 EA 13" x 3-9/16" Satin Aluminum (Aluminum Body) Letter Slot With Interior Plate..... <i>For Stainless Steel Sleeve, Add</i>	76.18 14.14	9.97
10 55 23 23-0003 EA 13" x 3-9/16" Bright Brass (Brass Body) Letter Slot With Interior Plate..... <i>For Stainless Steel Sleeve, Add</i>	98.08 14.14	9.97
10 55 23 23-0004 EA Aluminum Or Galvanized Wall Mounted Mailbox.....	58.30	8.86
10 55 23 23-0005 EA 20" x 8-3/4" x 6-7/8" Galvanized Steel Residential Rural Mailbox With 1-1/2" Post.....	89.48	11.07
10 55 23 26 Commercial Mail Boxes (10 55 23)		
10 55 23 26-0001 Commercial Letter Boxes (10 55 23 26) Note: Includes locks and keys unless provided by the United States Postal Service.		
10 55 23 26-0002 EA 15" Wide x 19" High x 7-1/2" Deep, US Postal Service Approved, Surface Mount, Aluminum Letter Box (Salsbury 2240AU).....	239.82	13.30
10 55 23 26-0003 EA 15" Wide x 19" High x 6-3/4" Deep, Private Use/Access, Recessed Mount, Aluminum Letter Box (Salsbury 2245AP).....	276.38	13.30
10 55 23 26-0004 Commercial Horizontal Mail Boxes (10 55 23 26) Note: Includes locks and keys unless provided by the United States Postal Service.		
10 55 23 26-0005 BOX 5-1/2" Wide x 5-1/2" High x 15-1/2" Deep, Private Use/Access, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box.....	51.91	13.30

10	10	Specialties
	10 50	Storage Specialties
	10 55	Postal Specialties



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 55 23 26-0006	BOX		10-3/4" Wide x 5-1/2" High x 15-1/2" Deep, Private Use/Access, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box.....	108.00	17.72
10 55 23 26-0007	BOX		6-3/8" Wide x 5" High x 17" Deep, US Postal Service Approved, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box.....	65.48	11.07
10 55 23 26-0008	BOX		12-7/8" Wide x 5" High x 17" Deep, US Postal Service Approved, Wall Mount, Aluminum Horizontal Mail Boxes, Per Box.....	102.00	17.72
10 55 23 26-0009			Commercial Cluster Mail Boxes <small>(10 55 23 26)</small> Note: Includes locks and keys unless provided by the United States Postal Service. Includes pedestal. Excludes concrete foundation.		
10 55 23 26-0010	EA		13-15/16 Wide" x 24-1/8" High x 15" Deep, Pedestal Mount, Aluminum (NDCBU) Neighborhood Delivery And Collection Mail Box (National Mailboxes H8MNDTCBU5).....	1,213.82	26.58
10 55 23 26-0011	EA		26-15/16" Wide x 24-1/8" High x 15" Deep, Pedestal Mount, Aluminum (NDCBU) Neighborhood Delivery And Collection Mail Box (National Mailboxes H16MNDTCBU8).....	1,439.90	35.44
10 55 23 26-0012	EA		30-1/2" Wide x 62" High x 17-7/8" Deep, 8 Tenant Doors, 2 Parcel Lockers, Pedestal Mount, Aluminum And Stainless Steel Construction, (CBU) Cluster Mail Box (AF Florence Vital 1570-8).....	1,999.46	35.44
10 55 23 26-0013	EA		30-1/2" Wide x 62" High x 17-7/8" Deep, 12 Tenant Doors, 1 Parcel Locker, Pedestal Mount, Aluminum And Stainless Steel Construction, (CBU) Cluster Mail Box (AF Florence Vital 1570-12).....	2,060.39	35.44
10 55 23 26-0014	EA		30-1/2" Wide x 62" High x 17-7/8" Deep, 16 Tenant Doors, 2 Parcel Lockers, Pedestal Mount, Aluminum And Stainless Steel Construction, (CBU) Cluster Mail Box (AF Florence Vital 1570-16).....	2,151.77	35.44
10 55 23 26-0015			Commercial 4C Mail Boxes <small>(10 55 23 26)</small> Note: Includes locks and keys unless provided by the United States Postal Service.		
10 55 23 26-0016	EA		31-9/16" Wide x 40-3/4" High x 17" Deep, 9 Doors, Recessed Wall Mount, Aluminum 4C Mail Box (AF Florence 4C11S-09).....	1,128.21	35.44
10 55 23 26-0017	EA		31-9/16" Wide x 40-3/4" High x 17" Deep, 15 Doors, 1 Parcel Locker, Recessed Wall Mount, Aluminum 4C Mail Box (AF Florence 4C11D-15).....	1,963.44	35.44
10 55 23 26-0018	EA		31-9/16" Wide x 40-3/4" High x 17" Deep, 19 Doors, Recessed Wall Mount, Aluminum 4C Mail Box (AF Florence 4C11D-19).....	2,036.55	35.44
10 55 26			Parcel Lockers <small>(10 55)</small>		
10 55 26 00-0001			Parcel Lockers <small>(10 55 26)</small>		
10 55 26 00-0002	EA		24" x 14" x 15" Deep, Aluminum Pedestal Mounted Parcel Locker.....	904.72	26.58
10 55 26 00-0003	EA		48" x 16" x 18" Deep, Aluminum Pedestal Mounted Parcel Locker.....	1,077.38	35.44
10 56			Storage Assemblies <small>(10 50)</small>		
10 56 13			Metal Storage Shelving <small>(10 56)</small>		
10 56 13 16			Post-And-Shelf Metal Storage Shelving <small>(10 56 13)</small>		
10 56 13 16-0001			Baked Enamel Steel Shelving <small>(10 56 13 16)</small>		
10 56 13 16-0002			7 Shelf Unit, 72" Or 87" High, Full Unit, Open Type <small>(10 56 13 16-0001)</small>		
10 56 13 16-0003	LF		75" High Baked Enamel Steel Storage Shelving 7 Shelf, Open With 10" Wide Shelf.....	98.68	18.33
			For >75" To 87" High, Add.....	8.25	
10 56 13 16-0004	LF		75" High Baked Enamel Steel Storage Shelving 7 Shelf, Open With 12" Wide Shelf.....	99.41	19.25
			For >75" To 87" High, Add.....	8.22	
10 56 13 16-0005	LF		75" High Baked Enamel Steel Storage Shelving 7 Shelf, Open With 15" Wide Shelf.....	96.75	21.08
			For >75" To 87" High, Add.....	7.81	
10 56 13 16-0006	LF		75" High Baked Enamel Steel Storage Shelving 7 Shelf, Open With 18" Wide Shelf.....	120.79	22.91
			For >75" To 87" High, Add.....	10.10	
10 56 13 16-0007	LF		75" High Baked Enamel Steel Storage Shelving 7 Shelf, Open With 24" Wide Shelf.....	134.84	23.83
			For >75" To 87" High, Add.....	11.36	
10 56 13 16-0008	LF		75" High Baked Enamel Steel Storage Shelving 7 Shelf, Open With 30" Wide Shelf.....	131.11	25.67
			For >75" To 87" High, Add.....	10.86	
10 56 13 16-0009	LF		75" High Baked Enamel Steel Storage Shelving 7 Shelf, Open With 36" Wide Shelf.....	145.04	27.50
			For >75" To 87" High, Add.....	12.12	
10 56 13 16-0010			3 Shelf Unit, 32" High Base Unit Only, Fully Enclosed <small>(10 56 13 16-0001)</small> Note: Adjustable shelves.		
10 56 13 16-0011	LF		32" High Baked Enamel Steel Storage Shelving 3 Shelf, Enclosed With 10" Wide Shelf.....	68.84	9.35
10 56 13 16-0012	LF		32" High Baked Enamel Steel Storage Shelving 3 Shelf, Enclosed With 12" Wide Shelf.....	68.47	9.99
10 56 13 16-0013	LF		32" High Baked Enamel Steel Storage Shelving 3 Shelf, Enclosed With 15" Wide Shelf.....	76.62	10.64
10 56 13 16-0014	LF		32" High Baked Enamel Steel Storage Shelving 3 Shelf, Enclosed With 18" Wide Shelf.....	79.79	11.27
10 56 13 16-0015	LF		32" High Baked Enamel Steel Storage Shelving 3 Shelf, Enclosed With 24" Wide Shelf.....	91.47	12.00
10 56 13 16-0016			4 Shelf Unit, 40" High Unit <small>(10 56 13 16-0001)</small>		
10 56 13 16-0017	LF		40" High Baked Enamel Steel Storage Shelving 4 Shelf, Enclosed With 10" Wide Shelf.....	82.30	18.33
10 56 13 16-0018	LF		40" High Baked Enamel Steel Storage Shelving 4 Shelf, Enclosed With 12" Wide Shelf.....	68.84	19.25
10 56 13 16-0019	LF		40" High Baked Enamel Steel Storage Shelving 4 Shelf, Enclosed With 15" Wide Shelf.....	78.49	21.08
10 56 13 16-0020	LF		40" High Baked Enamel Steel Storage Shelving 4 Shelf, Enclosed With 18" Wide Shelf.....	82.80	22.91
10 56 13 16-0021	LF		40" High Baked Enamel Steel Storage Shelving 4 Shelf, Enclosed With 24" Wide Shelf.....	93.93	23.83



Specialties	10	10
Storage Specialties	10 50	
Storage Assemblies	10 56	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 56 16 Fabricated Wood Storage Shelving (10 56)

10 56 16 00-0001	Shelving (10 56 16)		
10 56 16 00-0002	Built-In Wood Shelving (10 56 16 00-0001) Note: Priced by shelf area. Includes hardware and trim.		
10 56 16 00-0003	SF Built-in Wood Storage Shelving Post And Trimmed Plywood	17.40	2.23
	For Each SF Of Lumber Edge Band, Add	0.69	
	For Each SF Of Prefinished Shelves, Add	2.32	
10 56 16 00-0004	SF Built-in Wood Storage Shelving Post And Solid Clear Pine	18.75	2.68
	For Each SF Of Lumber Edge Band, Add	0.69	
	For Each SF Of Prefinished Shelves, Add	2.32	
10 56 16 00-0005	SF Built-in Wood Storage Shelving Closet Shelf Of Pine With Rod	18.99	4.47
	For Each SF Of Lumber Edge Band, Add	0.69	
	For Each SF Of Prefinished Shelves, Add	2.32	

10 56 16 00-0006 Wood Shelving, White Pine, Clear Grade, Wall Mounted (10 56 16 00-0001)

10 56 16 00-0007	LF 1" x 8" White Pine Clear Grade Wood Shelving	14.41	5.36
10 56 16 00-0008	LF 1" x 10" White Pine Clear Grade Wood Shelving	15.84	5.72
10 56 16 00-0009	LF 1" x 12" White Pine Clear Grade Wood Shelving	17.44	6.16
10 56 16 00-0010	SF Wood Shelving, 2" White Pine Clear Grade	22.78	

10 56 16 00-0011 Plywood Shelf With Edge Band (10 56 16 00-0001)

10 56 16 00-0012	LF 12" Wide, 3/4" Plywood Shelf With Edge Band	17.70	5.36
10 56 16 00-0013	LF 24" Wide, 3/4" Plywood Shelf With Edge Band	27.71	6.70

10 56 16 00-0014 Adjustable Shelf And Rod (10 56 16 00-0001)

10 56 16 00-0015	EA 12" Wide Adjustable Shelf, 3' To 6' Long	158.95	20.10
	Note: Including Rod		
10 56 16 00-0016	EA 12" Wide Adjustable Shelf, 5' To 8' Long	187.27	26.79
	Note: Including Rod		

10 56 16 00-0017 Prefinished Wood Shelves With Brackets And Supports (10 56 16 00-0001)

10 56 16 00-0018	LF Prefinished Wood Shelves, 8" Wide, With Brackets And Supports	15.28	5.36
10 56 16 00-0019	LF Prefinished Wood Shelves, 10" Wide, With Brackets And Supports	16.63	5.72
10 56 16 00-0020	SF Adjustable 3/4" Plastic Laminated Wood Shelves, Recessed Metal Standards	53.42	8.93

10 56 16 00-0021 Wood Shelving, Oak, Clear Grade, Wall Mounted (10 56 16 00-0001)

10 56 16 00-0022	LF Wood Shelving, 1" X 8" Oak Clear Grade	17.32	8.39
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10 56 17 Wall-Mounted Standards and Shelving (10 56)

10 56 17 00-0001 Galvanized Steel, Wall Mounted Solid Shelving (10 56 17)

	Note: Price per shelf. Includes single shelf, standards, brackets and mounting hardware. Excludes blocking.		
10 56 17 00-0002	LF 8" Depth, 18 Gauge Galvanized Steel, Wall Mounted Solid Shelving	55.69	8.86
	For Installation On Concrete Walls, Add	2.77	
	For Installation On Concrete Block Walls, Add	4.04	
10 56 17 00-0003	LF 10" Depth, 18 Gauge Galvanized Steel, Wall Mounted Solid Shelving	57.52	8.86
	For Installation On Concrete Walls, Add	2.77	
	For Installation On Concrete Block Walls, Add	4.04	
10 56 17 00-0004	LF 12" Depth, 18 Gauge Galvanized Steel, Wall Mounted Solid Shelving	61.77	8.86
	For Installation On Concrete Walls, Add	2.77	
	For Installation On Concrete Block Walls, Add	4.04	
10 56 17 00-0005	LF 16" Depth, 18 Gauge Galvanized Steel, Wall Mounted Solid Shelving	67.26	8.86
	For Installation On Concrete Walls, Add	2.77	
	For Installation On Concrete Block Walls, Add	4.04	
10 56 17 00-0006	LF 18" Depth, 18 Gauge Galvanized Steel, Wall Mounted Solid Shelving	68.62	8.86
	For Installation On Concrete Walls, Add	2.77	
	For Installation On Concrete Block Walls, Add	4.04	
10 56 17 00-0007	LF 24" Depth, 18 Gauge Galvanized Steel, Wall Mounted Solid Shelving	80.38	8.86
	For Installation On Concrete Walls, Add	2.77	
	For Installation On Concrete Block Walls, Add	4.04	

10 56 17 00-0008 304 Stainless Steel, Wall Mounted Solid Shelving (10 56 17)

	Note: Price per shelf. Includes single shelf, standards, brackets and mounting hardware. Excludes blocking.		
10 56 17 00-0009	LF 8" Depth, 18 Gauge 304 Stainless Steel, Wall Mounted Solid Shelving	89.03	8.86
	For Installation On Concrete Walls, Add	2.77	
	For Installation On Concrete Block Walls, Add	4.04	
10 56 17 00-0010	LF 10" Depth, 18 Gauge 304 Stainless Steel, Wall Mounted Solid Shelving	97.35	8.86
	For Installation On Concrete Walls, Add	2.77	
	For Installation On Concrete Block Walls, Add	4.04	
10 56 17 00-0011	LF 12" Depth, 18 Gauge 304 Stainless Steel, Wall Mounted Solid Shelving	105.72	8.86
	For Installation On Concrete Walls, Add	2.77	
	For Installation On Concrete Block Walls, Add	4.04	

10	10 Specialties
	10 50 Storage Specialties
	10 56 Storage Assemblies



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 56 17 00-0012 LF 16" Depth, 18 Gauge 304 Stainless Steel, Wall Mounted Solid Shelving .....124.94		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0013 LF 18" Depth, 18 Gauge 304 Stainless Steel, Wall Mounted Solid Shelving .....136.32		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0014 LF 24" Depth, 18 Gauge 304 Stainless Steel, Wall Mounted Solid Shelving .....152.75		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0015 Laminated Particleboard, Wall Mounted Solid Shelving ^(10 56 17)		
Note: Price per shelf. Includes single shelf, standards, brackets and mounting hardware. Excludes blocking.		
10 56 17 00-0016 LF 8" Depth, Laminated Particleboard, Wall Mounted Solid Shelving .....38.37		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0017 LF 10" Depth, Laminated Particleboard, Wall Mounted Solid Shelving .....39.61		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0018 LF 12" Depth, Laminated Particleboard, Wall Mounted Solid Shelving .....41.11		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0019 LF 16" Depth, Laminated Particleboard, Wall Mounted Solid Shelving .....43.29		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0020 LF 18" Depth, Laminated Particleboard, Wall Mounted Solid Shelving .....45.92		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0021 LF 24" Depth, Laminated Particleboard, Wall Mounted Solid Shelving .....53.01		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0022 Chrome Plated Steel, Wall Mounted Wire Shelving ^(10 56 17)		
Note: Price per shelf. Includes single shelf, standards, brackets and mounting hardware. Excludes blocking.		
10 56 17 00-0023 LF 14" Depth, Chrome Plated Steel, Wall Mounted Wire Shelving .....54.52		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0024 LF 18" Depth, Chrome Plated Steel, Wall Mounted Wire Shelving .....60.93		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0025 Stainless Steel, Wall Mounted Wire Shelving ^(10 56 17)		
Note: Price per shelf. Includes single shelf, standards, brackets and mounting hardware. Excludes blocking.		
10 56 17 00-0026 LF 14" Depth, Stainless Steel, Wall Mounted Wire Shelving .....124.16		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0027 LF 18" Depth, Stainless Steel, Wall Mounted Wire Shelving .....129.07		8.86
<i>For Installation On Concrete Walls, Add</i>	2.77	
<i>For Installation On Concrete Block Walls, Add</i>	4.04	
10 56 17 00-0028 Prefinished Hardwood Plywood, Wall Mounted Solid Shelving ^(10 56 17)		
Note: Price per shelf. Includes single shelf, standards, brackets and mounting hardware. Excludes blocking.		
10 56 17 00-0029 LF 8" Depth, Prefinished Hardwood Plywood, Wall Mounted Solid Shelving .....41.50		8.86
<i>For Installation On Concrete Walls, Add</i>	3.74	
<i>For Installation On Concrete Block Walls, Add</i>	5.01	
10 56 17 00-0030 LF 10" Depth, Prefinished Hardwood Plywood, Wall Mounted Solid Shelving .....42.39		8.86
<i>For Installation On Concrete Walls, Add</i>	3.76	
<i>For Installation On Concrete Block Walls, Add</i>	5.03	
10 56 17 00-0031 LF 12" Depth, Prefinished Hardwood Plywood, Wall Mounted Solid Shelving .....42.98		8.86
<i>For Installation On Concrete Walls, Add</i>	3.79	
<i>For Installation On Concrete Block Walls, Add</i>	5.06	
10 56 17 00-0032 LF 16" Depth, Prefinished Hardwood Plywood, Wall Mounted Solid Shelving .....45.05		8.86
<i>For Installation On Concrete Walls, Add</i>	3.83	
<i>For Installation On Concrete Block Walls, Add</i>	5.10	
10 56 17 00-0033 LF 18" Depth, Prefinished Hardwood Plywood, Wall Mounted Solid Shelving .....46.11		8.86
<i>For Installation On Concrete Walls, Add</i>	3.85	
<i>For Installation On Concrete Block Walls, Add</i>	5.12	
10 56 17 00-0034 LF 24" Depth, Prefinished Hardwood Plywood, Wall Mounted Solid Shelving .....49.26		8.86
<i>For Installation On Concrete Walls, Add</i>	3.91	
<i>For Installation On Concrete Block Walls, Add</i>	5.18	
10 56 17 00-0035 Wall Mounted Shelving Accessories ^(10 56 17)		
10 56 17 00-0036 LF Removal And Reinstallation Of Single Shelf Metal Storage Shelving Unit .....30.00		

10 57 Wardrobe And Closet Specialties ^(10 50)

10 57 13 Hat And Coat Racks ^(10 57)

10 57 13 00-0001 Hat And Coat Rack ^(10 57 13)



Specialties	10
Storage Specialties	10 50
Wardrobe And Closet Specialties	10 57

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 57 13 00-0002	Single Tier <small>(10 57 13 00-0001)</small>		
10 57 13 00-0003	LF Single Tier Hat And Coat Rack Baked Enameled Steel.....	46.18	4.43
	<i>For Custom Made Units, Add</i>	20.66	
10 57 13 00-0004	LF Single Tier Hat And Coat Rack Stainless Steel.....	36.90	4.43
	<i>For Custom Made Units, Add</i>	15.09	
10 57 13 00-0005	LF Single Tier Hat And Coat Rack Aluminum.....	90.46	4.43
	<i>For Custom Made Units, Add</i>	47.23	

10 57 13 00-0006	Double Tier <small>(10 57 13 00-0001)</small>		
10 57 13 00-0007	LF Double Tier Hat And Coat Rack Baked Enameled Steel.....	61.53	4.43
	<i>For Custom Made Units, Add</i>	28.21	
10 57 13 00-0008	LF Double Tier Hat And Coat Rack Stainless Steel.....	41.65	4.43
	<i>For Custom Made Units, Add</i>	16.28	
10 57 13 00-0009	LF Double Tier Hat And Coat Rack Aluminum.....	153.13	4.43
	<i>For Custom Made Units, Add</i>	83.17	

10 57 43 Wardrobe Units (10 57)

10 57 43 00-0001	Dormitory Wardrobe Units <small>(10 57 43)</small>		
10 57 43 00-0002	EA 24" x 24" x 68" Hardwood Veneer Dormitory Wardrobe Unit With Door.....	1,301.62	164.11
	<i>For Custom Made Units, Add</i>	666.11	
10 57 43 00-0003	EA 24" x 24" x 68" Plastic Laminate Dormitory Wardrobe Unit With Door.....	1,015.69	164.11
	<i>For Custom Made Units, Add</i>	494.55	

10 70 Exterior Specialties (10)

10 71 Exterior Protection (10 70)

10 71 13 Exterior Sun Control Devices (10 71)

10 71 13 13 Exterior Shutters (10 71 13)

10 71 13 13-0001	Exterior Shutters, High Impact Resistant Plastic, Unfinished <small>(10 71 13 13)</small>		
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10 71 13 13-0002	Louvered Decorative Shutters <small>(10 71 13 13-0001)</small>		
10 71 13 13-0003	PR 15" x 25" Louvered Shutter, High Impact Resistant Plastic.....	80.48	26.74
	<i>For Colored Finish, Add</i>	8.07	
10 71 13 13-0004	PR 15" x 31" Louvered Shutter, High Impact Resistant Plastic.....	87.09	28.08
	<i>For Colored Finish, Add</i>	8.94	
10 71 13 13-0005	PR 15" x 36" Louvered Shutter, High Impact Resistant Plastic.....	93.73	29.41
	<i>For Colored Finish, Add</i>	9.81	
10 71 13 13-0006	PR 15" x 39" Louvered Shutter, High Impact Resistant Plastic.....	99.81	30.75
	<i>For Colored Finish, Add</i>	10.59	
10 71 13 13-0007	PR 15" x 43" Louvered Shutter, High Impact Resistant Plastic.....	106.65	32.09
	<i>For Colored Finish, Add</i>	11.49	
10 71 13 13-0008	PR 15" x 48" Louvered Shutter, High Impact Resistant Plastic.....	113.78	33.43
	<i>For Colored Finish, Add</i>	12.46	
10 71 13 13-0009	PR 15" x 52" Louvered Shutter, High Impact Resistant Plastic.....	118.71	34.76
	<i>For Colored Finish, Add</i>	13.02	
10 71 13 13-0010	PR 15" x 55" Louvered Shutter, High Impact Resistant Plastic.....	124.16	36.10
	<i>For Colored Finish, Add</i>	13.69	
10 71 13 13-0011	PR 15" x 60" Louvered Shutter, High Impact Resistant Plastic.....	131.39	37.43
	<i>For Colored Finish, Add</i>	14.66	
10 71 13 13-0012	PR 15" x 64" Louvered Shutter, High Impact Resistant Plastic.....	140.97	38.77
	<i>For Colored Finish, Add</i>	16.07	
10 71 13 13-0013	PR 15" x 67" Louvered Shutter, High Impact Resistant Plastic.....	145.65	40.11
	<i>For Colored Finish, Add</i>	16.59	
10 71 13 13-0014	PR 15" x 72" Louvered Shutter, High Impact Resistant Plastic.....	157.61	41.45
	<i>For Colored Finish, Add</i>	18.42	
10 71 13 13-0015	PR 15" x 75" Louvered Shutter, High Impact Resistant Plastic.....	162.25	42.79
	<i>For Colored Finish, Add</i>	18.94	
10 71 13 13-0016	PR 15" x 80" Louvered Shutter, High Impact Resistant Plastic.....	170.67	44.13
	<i>For Colored Finish, Add</i>	20.13	

10 71 13 13-0017 Raised Panel Decorative Shutters (10 71 13 13-0001)

10 71 13 13-0018	PR 15" x 35" Raised Panel Shutter, High Impact Resistant Plastic.....	111.78	29.41
	<i>For Colored Finish, Add</i>	13.06	
10 71 13 13-0019	PR 15" x 39" Raised Panel Shutter, High Impact Resistant Plastic.....	119.68	30.75
	<i>For Colored Finish, Add</i>	14.16	
10 71 13 13-0020	PR 15" x 43" Raised Panel Shutter, High Impact Resistant Plastic.....	124.95	32.09
	<i>For Colored Finish, Add</i>	14.79	
10 71 13 13-0021	PR 15" x 47" Raised Panel Shutter, High Impact Resistant Plastic.....	133.07	33.43
	<i>For Colored Finish, Add</i>	15.93	
10 71 13 13-0022	PR 15" x 51" Raised Panel Shutter, High Impact Resistant Plastic.....	140.07	34.76
	<i>For Colored Finish, Add</i>	16.87	
10 71 13 13-0023	PR 15" x 55" Raised Panel Shutter, High Impact Resistant Plastic.....	146.68	36.10
	<i>For Colored Finish, Add</i>	17.74	
10 71 13 13-0024	PR 15" x 59" Raised Panel Shutter, High Impact Resistant Plastic.....	155.57	37.43
	<i>For Colored Finish, Add</i>	19.02	

10	10	Specialties
	10 70	Exterior Specialties
	10 71	Exterior Protection



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 71 13 13-0025	PR	15" x 63" Raised Panel Shutter, High Impact Resistant Plastic..... <i>For Colored Finish, Add</i>	167.22 20.79	38.77
10 71 13 13-0026	PR	15" x 67" Raised Panel Shutter, High Impact Resistant Plastic..... <i>For Colored Finish, Add</i>	175.45 21.95	40.11
10 71 13 13-0027	PR	15" x 71" Raised Panel Shutter, High Impact Resistant Plastic..... <i>For Colored Finish, Add</i>	184.70 23.30	41.45
10 71 13 13-0028	PR	15" x 75" Raised Panel Shutter, High Impact Resistant Plastic..... <i>For Colored Finish, Add</i>	187.93 23.56	42.79
10 71 13 13-0029	PR	15" x 81" Raised Panel Shutter, High Impact Resistant Plastic..... <i>For Colored Finish, Add</i>	194.65 24.45	44.13
10 71 13 13-0030		Exterior Spanish Cedar Shutters <small>(10 71 13 13)</small>		
10 71 13 13-0031		12" Width <small>(10 71 13 13-0030)</small>		
10 71 13 13-0032	PR	12" x 36" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	377.28 150.00	26.74
10 71 13 13-0033	PR	12" x 42" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	407.63 150.00	29.41
10 71 13 13-0034	PR	12" x 48" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	436.21 150.00	30.75
10 71 13 13-0035	PR	12" x 54" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	466.57 150.00	33.43
10 71 13 13-0036	PR	12" x 60" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	495.14 150.00	34.76
10 71 13 13-0037	PR	12" x 66" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	527.74 150.00	37.43
10 71 13 13-0038	PR	12" x 72" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	556.31 150.00	38.77
10 71 13 13-0039	PR	12" x 78" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	584.89 150.00	40.11
10 71 13 13-0040	PR	12" x 84" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	615.25 150.00	42.79
10 71 13 13-0041		14" Width <small>(10 71 13 13-0030)</small>		
10 71 13 13-0042	PR	14" x 36" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	399.61 150.00	26.74
10 71 13 13-0043	PR	14" x 42" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	434.43 150.00	29.41
10 71 13 13-0044	PR	14" x 48" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	467.46 150.00	30.75
10 71 13 13-0045	PR	14" x 54" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	502.29 150.00	33.43
10 71 13 13-0046	PR	14" x 60" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	535.33 150.00	34.76
10 71 13 13-0047	PR	14" x 66" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	570.16 150.00	37.43
10 71 13 13-0048	PR	14" x 72" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	603.20 150.00	38.77
10 71 13 13-0049	PR	14" x 78" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	634.01 150.00	40.11
10 71 13 13-0050	PR	14" x 84" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	668.84 150.00	42.79
10 71 13 13-0051		16" Width <small>(10 71 13 13-0030)</small>		
10 71 13 13-0052	PR	16" x 36" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	424.17 150.00	26.74
10 71 13 13-0053	PR	16" x 42" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	461.22 150.00	29.41
10 71 13 13-0054	PR	16" x 48" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	498.72 150.00	30.75
10 71 13 13-0055	PR	16" x 54" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	535.79 150.00	33.43
10 71 13 13-0056	PR	16" x 60" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	573.29 150.00	34.76
10 71 13 13-0057	PR	16" x 66" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	612.59 150.00	37.43
10 71 13 13-0058	PR	16" x 72" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	647.86 150.00	38.77
10 71 13 13-0059	PR	16" x 78" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	685.36 150.00	40.11
10 71 13 13-0060	PR	16" x 84" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	724.66 150.00	42.79
10 71 13 13-0061		18" Width <small>(10 71 13 13-0030)</small>		
10 71 13 13-0062	PR	18" x 36" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	446.50 150.00	26.74
10 71 13 13-0063	PR	18" x 42" Spanish Cedar Raised Panel Or Louvered Shutter..... <i>For Arched Tops, Add</i>	488.01 150.00	29.41



Specialties	10
Exterior Specialties	10 70
Exterior Protection	10 71

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 71 13 13-0064	PR		18" x 48" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	529.98 150.00	30.75
10 71 13 13-0065	PR		18" x 54" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	571.51 150.00	33.43
10 71 13 13-0066	PR		18" x 60" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	611.25 150.00	34.76
10 71 13 13-0067	PR		18" x 66" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	655.00 150.00	37.43
10 71 13 13-0068	PR		18" x 72" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	694.75 150.00	38.77
10 71 13 13-0069	PR		18" x 78" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	736.72 150.00	40.11
10 71 13 13-0070	PR		18" x 84" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	778.24 150.00	42.79
10 71 13 13-0071			20" Width <small>(10 71 13 13-0030)</small>		
10 71 13 13-0072	PR		20" x 36" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	468.82 150.00	26.74
10 71 13 13-0073	PR		20" x 42" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	514.81 150.00	29.41
10 71 13 13-0074	PR		20" x 48" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	559.01 150.00	30.75
10 71 13 13-0075	PR		20" x 54" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	607.24 150.00	33.43
10 71 13 13-0076	PR		20" x 60" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	651.44 150.00	34.76
10 71 13 13-0077	PR		20" x 66" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	697.43 150.00	37.43
10 71 13 13-0078	PR		20" x 72" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	741.64 150.00	38.77
10 71 13 13-0079	PR		20" x 78" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	785.84 150.00	40.11
10 71 13 13-0080	PR		20" x 84" Spanish Cedar Raised Panel Or Louvered Shutter <i>For Arched Tops, Add</i>	831.83 150.00	42.79
10 71 13 13-0081			Heavy Duty Exterior True Louver Shutters, Western Red Cedar <small>(10 71 13 13)</small>		
10 71 13 13-0082			12" Width <small>(10 71 13 13-0081)</small>		
10 71 13 13-0083	PR		12" x 36-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	242.81 150.00	26.74
10 71 13 13-0084	PR		12" x 39-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	258.36 150.00	28.08
10 71 13 13-0085	PR		12" x 44" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	280.84 150.00	29.41
10 71 13 13-0086	PR		12" x 47" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	296.40 150.00	30.75
10 71 13 13-0087	PR		12" x 51-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	318.88 150.00	32.09
10 71 13 13-0088	PR		12" x 56" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	341.34 150.00	33.43
10 71 13 13-0089	PR		12" x 59" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	356.91 150.00	34.76
10 71 13 13-0090	PR		12" x 63-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	379.37 150.00	36.10
10 71 13 13-0091	PR		12" x 68" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	401.84 150.00	37.43
10 71 13 13-0092	PR		12" x 72-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	424.31 150.00	38.77
10 71 13 13-0093	PR		12" x 75-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	439.87 150.00	40.11
10 71 13 13-0094	PR		12" x 80" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	462.34 150.00	41.45
10 71 13 13-0095	PR		12" x 83" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	477.92 150.00	42.79
10 71 13 13-0096			14" Width <small>(10 71 13 13-0081)</small>		
10 71 13 13-0097	PR		14" x 36-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	270.76 150.00	26.74
10 71 13 13-0098	PR		14" x 39-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	288.62 150.00	28.08
10 71 13 13-0099	PR		14" x 44" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	314.54 150.00	29.41
10 71 13 13-0100	PR		14" x 47" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	332.41 150.00	30.75
10 71 13 13-0101	PR		14" x 51-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	358.32 150.00	32.09
10 71 13 13-0102	PR		14" x 56" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	384.24 150.00	33.43
10 71 13 13-0103	PR		14" x 59" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	402.10 150.00	34.76

10	10	Specialties
	10 70	Exterior Specialties
	10 71	Exterior Protection



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 71 13 13-0104	PR		14" x 63-1/2" Louver Shutter, Heavy Duty Red Cedar	428.01	36.10
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0105	PR		14" x 68" Louver Shutter, Heavy Duty Red Cedar.....	453.93	37.43
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0106	PR		14" x 72-1/2" Louver Shutter, Heavy Duty Red Cedar	479.84	38.77
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0107	PR		14" x 75-1/2" Louver Shutter, Heavy Duty Red Cedar	497.71	40.11
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0108	PR		14" x 80" Louver Shutter, Heavy Duty Red Cedar.....	523.62	41.45
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0109	PR		14" x 83" Louver Shutter, Heavy Duty Red Cedar.....	541.49	42.79
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0110			15" Width <small>(10 71 13 13-0081)</small>		
10 71 13 13-0111	PR		15" x 36-1/2" Louver Shutter, Heavy Duty Red Cedar	284.74	26.74
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0112	PR		15" x 39-1/2" Louver Shutter, Heavy Duty Red Cedar	303.75	28.08
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0113	PR		15" x 44" Louver Shutter, Heavy Duty Red Cedar.....	331.39	29.41
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0114	PR		15" x 47" Louver Shutter, Heavy Duty Red Cedar.....	350.41	30.75
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0115	PR		15" x 51-1/2" Louver Shutter, Heavy Duty Red Cedar	378.04	32.09
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0116	PR		15" x 56" Louver Shutter, Heavy Duty Red Cedar.....	405.69	33.43
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0117	PR		15" x 59" Louver Shutter, Heavy Duty Red Cedar.....	424.70	34.76
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0118	PR		15" x 63-1/2" Louver Shutter, Heavy Duty Red Cedar	452.33	36.10
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0119	PR		15" x 68" Louver Shutter, Heavy Duty Red Cedar.....	479.98	37.43
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0120	PR		15" x 72-1/2" Louver Shutter, Heavy Duty Red Cedar	507.61	38.77
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0121	PR		15" x 75-1/2" Louver Shutter, Heavy Duty Red Cedar	526.63	40.11
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0122	PR		15" x 80" Louver Shutter, Heavy Duty Red Cedar.....	554.26	41.45
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0123	PR		15" x 83" Louver Shutter, Heavy Duty Red Cedar.....	573.28	42.79
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0124			16" Width <small>(10 71 13 13-0081)</small>		
10 71 13 13-0125	PR		16" x 36-1/2" Louver Shutter, Heavy Duty Red Cedar	298.72	26.74
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0126	PR		16" x 39-1/2" Louver Shutter, Heavy Duty Red Cedar	314.09	28.08
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0127	PR		16" x 44" Louver Shutter, Heavy Duty Red Cedar.....	348.25	29.41
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0128	PR		16" x 47" Louver Shutter, Heavy Duty Red Cedar.....	368.41	30.75
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0129	PR		16" x 51-1/2" Louver Shutter, Heavy Duty Red Cedar	397.77	32.09
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0130	PR		16" x 56" Louver Shutter, Heavy Duty Red Cedar.....	427.13	33.43
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0131	PR		16" x 59" Louver Shutter, Heavy Duty Red Cedar.....	447.30	34.76
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0132	PR		16" x 63-1/2" Louver Shutter, Heavy Duty Red Cedar	476.66	36.10
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0133	PR		16" x 68" Louver Shutter, Heavy Duty Red Cedar.....	506.02	37.43
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0134	PR		16" x 72-1/2" Louver Shutter, Heavy Duty Red Cedar	535.38	38.77
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0135	PR		16" x 75-1/2" Louver Shutter, Heavy Duty Red Cedar	555.54	40.11
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0136	PR		16" x 80" Louver Shutter, Heavy Duty Red Cedar.....	584.90	41.45
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0137	PR		16" x 83" Louver Shutter, Heavy Duty Red Cedar.....	605.07	42.79
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0138			18" Width <small>(10 71 13 13-0081)</small>		
10 71 13 13-0139	PR		18" x 36-1/2" Louver Shutter, Heavy Duty Red Cedar	326.68	26.74
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0140	PR		18" x 39-1/2" Louver Shutter, Heavy Duty Red Cedar	349.14	28.08
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0141	PR		18" x 44" Louver Shutter, Heavy Duty Red Cedar.....	381.95	29.41
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0142	PR		18" x 47" Louver Shutter, Heavy Duty Red Cedar.....	404.41	30.75
			<i>For Arched Tops, Add</i>	150.00	
10 71 13 13-0143	PR		18" x 51-1/2" Louver Shutter, Heavy Duty Red Cedar	437.22	32.09
			<i>For Arched Tops, Add</i>	150.00	



Specialties	10
Exterior Specialties	10 70
Exterior Protection	10 71

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 71 13 13-0144	PR		18" x 56" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	470.03 150.00	33.43
10 71 13 13-0145	PR		18" x 59" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	492.49 150.00	34.76
10 71 13 13-0146	PR		18" x 63-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	525.30 150.00	36.10
10 71 13 13-0147	PR		18" x 68" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	558.11 150.00	37.43
10 71 13 13-0148	PR		18" x 72-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	590.92 150.00	38.77
10 71 13 13-0149	PR		18" x 75-1/2" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	613.38 150.00	40.11
10 71 13 13-0150	PR		18" x 80" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	646.18 150.00	41.45
10 71 13 13-0151	PR		18" x 83" Louver Shutter, Heavy Duty Red Cedar <i>For Arched Tops, Add</i>	668.65 150.00	42.79
10 71 13 13-0152			Exterior Cypress Fixed Louver Wood Shutters (10 71 13 13)		
10 71 13 13-0153			6" Through 8" Width (10 71 13 13-0152)		
10 71 13 13-0154	PR		6" Thru 8" Width x Thru 30" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	298.37 65.00	25.40
10 71 13 13-0155	PR		6" Thru 8" Width x 30-1/8" Thru 34" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	334.47 65.00	26.11
10 71 13 13-0156	PR		6" Thru 8" Width x 34-1/8" Thru 38" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	370.68 65.00	26.74
10 71 13 13-0157	PR		6" Thru 8" Width x 38-1/8" Thru 42" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	407.70 65.00	28.08
10 71 13 13-0158	PR		6" Thru 8" Width x 42-1/8" Thru 46" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	444.76 65.00	29.41
10 71 13 13-0159	PR		6" Thru 8" Width x 46-1/8" Thru 50" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	481.81 65.00	30.75
10 71 13 13-0160	PR		6" Thru 8" Width x 50-1/8" Thru 54" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	518.86 65.00	32.09
10 71 13 13-0161	PR		6" Thru 8" Width x 54-1/8" Thru 58" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	555.90 65.00	33.43
10 71 13 13-0162	PR		6" Thru 8" Width x 58-1/8" Thru 62" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	592.95 65.00	34.76
10 71 13 13-0163	PR		6" Thru 8" Width x 62-1/8" Thru 66" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	629.99 65.00	36.10
10 71 13 13-0164	PR		6" Thru 8" Width x 66-1/8" Thru 70" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	667.05 65.00	37.43
10 71 13 13-0165	PR		6" Thru 8" Width x 70-1/8" Thru 74" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	704.10 65.00	38.77
10 71 13 13-0166	PR		6" Thru 8" Width x 74-1/8" Thru 78" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	741.14 65.00	40.11
10 71 13 13-0167	PR		6" Thru 8" Width x 78-1/8" Thru 82" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	778.19 65.00	41.45
10 71 13 13-0168			10" Through 12" Width (10 71 13 13-0152)		
10 71 13 13-0169	PR		10" Thru 12" Width x Thru 30" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	345.04 65.00	25.40
10 71 13 13-0170	PR		10" Thru 12" Width x 30-1/8" Thru 34" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	387.41 65.00	26.11
10 71 13 13-0171	PR		10" Thru 12" Width x 34-1/8" Thru 38" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	429.80 65.00	26.74
10 71 13 13-0172	PR		10" Thru 12" Width x 38-1/8" Thru 42" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	473.06 65.00	28.08
10 71 13 13-0173	PR		10" Thru 12" Width x 42-1/8" Thru 46" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	516.33 65.00	29.41
10 71 13 13-0174	PR		10" Thru 12" Width x 46-1/8" Thru 50" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	559.60 65.00	30.75
10 71 13 13-0175	PR		10" Thru 12" Width x 50-1/8" Thru 54" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	602.88 65.00	32.09
10 71 13 13-0176	PR		10" Thru 12" Width x 54-1/8" Thru 58" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	646.14 65.00	33.43
10 71 13 13-0177	PR		10" Thru 12" Width x 58-1/8" Thru 62" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	689.42 65.00	34.76
10 71 13 13-0178	PR		10" Thru 12" Width x 62-1/8" Thru 66" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	732.69 65.00	36.10
10 71 13 13-0179	PR		10" Thru 12" Width x 66-1/8" Thru 70" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	775.96 65.00	37.43
10 71 13 13-0180	PR		10" Thru 12" Width x 70-1/8" Thru 74" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	819.23 65.00	38.77
10 71 13 13-0181	PR		10" Thru 12" Width x 74-1/8" Thru 78" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	862.49 65.00	40.11
10 71 13 13-0182	PR		10" Thru 12" Width x 78-1/8" Thru 82" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	905.76 65.00	41.45
10 71 13 13-0183			14" Through 16" Width (10 71 13 13-0152)		

10	Specialties
10 70	Exterior Specialties
10 71	Exterior Protection



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 71 13 13-0184	PR	14" Thru 16" Width x Thru 30" Height Cypress Fixed Louver Wood Shutter.....	448.76	25.40
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0185	PR	14" Thru 16" Width x 30-1/8" Thru 34" Height Cypress Fixed Louver Wood Shutter	504.96	26.11
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0186	PR	14" Thru 16" Width x 34-1/8" Thru 38" Height Cypress Fixed Louver Wood Shutter	561.17	26.74
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0187	PR	14" Thru 16" Width x 38-1/8" Thru 42" Height Cypress Fixed Louver Wood Shutter	618.26	28.08
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0188	PR	14" Thru 16" Width x 42-1/8" Thru 46" Height Cypress Fixed Louver Wood Shutter	675.37	29.41
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0189	PR	14" Thru 16" Width x 46-1/8" Thru 50" Height Cypress Fixed Louver Wood Shutter	732.47	30.75
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0190	PR	14" Thru 16" Width x 50-1/8" Thru 54" Height Cypress Fixed Louver Wood Shutter	789.56	32.09
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0191	PR	14" Thru 16" Width x 54-1/8" Thru 58" Height Cypress Fixed Louver Wood Shutter	846.67	33.43
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0192	PR	14" Thru 16" Width x 58-1/8" Thru 62" Height Cypress Fixed Louver Wood Shutter	848.45	34.76
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0193	PR	14" Thru 16" Width x 62-1/8" Thru 66" Height Cypress Fixed Louver Wood Shutter	960.87	36.10
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0194	PR	14" Thru 16" Width x 66-1/8" Thru 70" Height Cypress Fixed Louver Wood Shutter	1,017.98	37.43
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0195	PR	14" Thru 16" Width x 70-1/8" Thru 74" Height Cypress Fixed Louver Wood Shutter	1,075.07	38.77
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0196	PR	14" Thru 16" Width x 74-1/8" Thru 78" Height Cypress Fixed Louver Wood Shutter	1,132.16	40.11
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0197	PR	14" Thru 16" Width x 78-1/8" Thru 82" Height Cypress Fixed Louver Wood Shutter	1,189.26	41.45
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0198		18" Through 20" Width (10 71 13 13-0152)		
10 71 13 13-0199	PR	18" Thru 20" Width x Thru 30" Height Cypress Fixed Louver Wood Shutter.....	500.61	25.40
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0200	PR	18" Thru 20" Width x 30-1/8" Thru 34" Height Cypress Fixed Louver Wood Shutter	563.74	26.11
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0201	PR	18" Thru 20" Width x 34-1/8" Thru 38" Height Cypress Fixed Louver Wood Shutter	626.86	26.74
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0202	PR	18" Thru 20" Width x 38-1/8" Thru 42" Height Cypress Fixed Louver Wood Shutter	690.29	28.08
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0203	PR	18" Thru 20" Width x 42-1/8" Thru 46" Height Cypress Fixed Louver Wood Shutter	754.89	29.41
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0204	PR	18" Thru 20" Width x 46-1/8" Thru 50" Height Cypress Fixed Louver Wood Shutter	818.90	30.75
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0205	PR	18" Thru 20" Width x 50-1/8" Thru 54" Height Cypress Fixed Louver Wood Shutter	882.91	32.09
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0206	PR	18" Thru 20" Width x 54-1/8" Thru 58" Height Cypress Fixed Louver Wood Shutter	946.94	33.43
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0207	PR	18" Thru 20" Width x 58-1/8" Thru 62" Height Cypress Fixed Louver Wood Shutter	1,010.94	34.76
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0208	PR	18" Thru 20" Width x 62-1/8" Thru 66" Height Cypress Fixed Louver Wood Shutter	1,074.96	36.10
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0209	PR	18" Thru 20" Width x 66-1/8" Thru 70" Height Cypress Fixed Louver Wood Shutter	1,138.98	37.43
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0210	PR	18" Thru 20" Width x 70-1/8" Thru 74" Height Cypress Fixed Louver Wood Shutter	1,203.00	38.77
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0211	PR	18" Thru 20" Width x 74-1/8" Thru 78" Height Cypress Fixed Louver Wood Shutter	1,267.00	40.11
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0212	PR	18" Thru 20" Width x 78-1/8" Thru 82" Height Cypress Fixed Louver Wood Shutter	1,331.02	41.45
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0213		22" Through 24" Width (10 71 13 13-0152)		
10 71 13 13-0214	PR	22" Thru 24" Width x Thru 30" Height Cypress Fixed Louver Wood Shutter.....	656.19	25.40
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0215	PR	22" Thru 24" Width x 30-1/8" Thru 34" Height Cypress Fixed Louver Wood Shutter	740.05	26.11
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0216	PR	22" Thru 24" Width x 34-1/8" Thru 38" Height Cypress Fixed Louver Wood Shutter	823.94	26.74
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0217	PR	22" Thru 24" Width x 38-1/8" Thru 42" Height Cypress Fixed Louver Wood Shutter	908.68	28.08
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0218	PR	22" Thru 24" Width x 42-1/8" Thru 46" Height Cypress Fixed Louver Wood Shutter	993.44	29.41
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0219	PR	22" Thru 24" Width x 46-1/8" Thru 50" Height Cypress Fixed Louver Wood Shutter	1,078.21	30.75
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0220	PR	22" Thru 24" Width x 50-1/8" Thru 54" Height Cypress Fixed Louver Wood Shutter	1,162.96	32.09
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0221	PR	22" Thru 24" Width x 54-1/8" Thru 58" Height Cypress Fixed Louver Wood Shutter	1,247.72	33.43
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0222	PR	22" Thru 24" Width x 58-1/8" Thru 62" Height Cypress Fixed Louver Wood Shutter	1,332.48	34.76
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0223	PR	22" Thru 24" Width x 62-1/8" Thru 66" Height Cypress Fixed Louver Wood Shutter	1,417.24	36.10
		<i>For Arched Tops, Add</i>	65.00	
10 71 13 13-0224	PR	22" Thru 24" Width x 66-1/8" Thru 70" Height Cypress Fixed Louver Wood Shutter	1,502.00	37.43
		<i>For Arched Tops, Add</i>	65.00	



			Specialties	10
			Exterior Specialties	10 70
			Exterior Protection	10 71

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 71	13	13-0225	PR 22" Thru 24" Width x 70-1/8" Thru 74" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,586.76 65.00	38.77
10 71	13	13-0226	PR 22" Thru 24" Width x 74-1/8" Thru 78" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,671.51 65.00	40.11
10 71	13	13-0227	PR 22" Thru 24" Width x 78-1/8" Thru 82" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,756.26 65.00	41.45
10 71 13 13-0228 26" Through 28" Width (10 71 13 13-0152)					
10 71	13	13-0229	PR 26" Thru 28" Width x Thru 30" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	749.54 65.00	25.40
10 71	13	13-0230	PR 26" Thru 28" Width x 30-1/8" Thru 34" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	845.84 65.00	26.11
10 71	13	13-0231	PR 26" Thru 28" Width x 34-1/8" Thru 38" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	942.18 65.00	26.74
10 71	13	13-0232	PR 26" Thru 28" Width x 38-1/8" Thru 42" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,039.37 65.00	28.08
10 71	13	13-0233	PR 26" Thru 28" Width x 42-1/8" Thru 46" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,136.58 65.00	29.41
10 71	13	13-0234	PR 26" Thru 28" Width x 46-1/8" Thru 50" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,233.79 65.00	30.75
10 71	13	13-0235	PR 26" Thru 28" Width x 50-1/8" Thru 54" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,330.99 65.00	32.09
10 71	13	13-0236	PR 26" Thru 28" Width x 54-1/8" Thru 58" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,428.20 65.00	33.43
10 71	13	13-0237	PR 26" Thru 28" Width x 58-1/8" Thru 62" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,525.41 65.00	34.76
10 71	13	13-0238	PR 26" Thru 28" Width x 62-1/8" Thru 66" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,622.60 65.00	36.10
10 71	13	13-0239	PR 26" Thru 28" Width x 66-1/8" Thru 70" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,719.81 65.00	37.43
10 71	13	13-0240	PR 26" Thru 28" Width x 70-1/8" Thru 74" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,817.02 65.00	38.77
10 71	13	13-0241	PR 26" Thru 28" Width x 74-1/8" Thru 78" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	1,914.22 65.00	40.11
10 71	13	13-0242	PR 26" Thru 28" Width x 78-1/8" Thru 82" Height Cypress Fixed Louver Wood Shutter <i>For Arched Tops, Add</i>	2,011.40 65.00	41.45
10 71 13 13-0243 Pine Louvered Shutters (10 71 13 13-13)					
10 71 13 13-0244 12" Width (10 71 13 13-0243)					
10 71	13	13-0245	PR 12" x 35" Pine Louvered Shutter <i>For Arched Tops, Add</i>	177.69 65.00	26.74
10 71	13	13-0246	PR 12" x 39" Pine Louvered Shutter <i>For Arched Tops, Add</i>	185.48 65.00	28.08
10 71	13	13-0247	PR 12" x 43" Pine Louvered Shutter <i>For Arched Tops, Add</i>	193.21 65.00	29.41
10 71	13	13-0248	PR 12" x 47" Pine Louvered Shutter <i>For Arched Tops, Add</i>	200.96 65.00	30.75
10 71	13	13-0249	PR 12" x 51" Pine Louvered Shutter <i>For Arched Tops, Add</i>	208.67 65.00	32.09
10 71	13	13-0250	PR 12" x 55" Pine Louvered Shutter <i>For Arched Tops, Add</i>	216.43 65.00	33.43
10 71	13	13-0251	PR 12" x 59" Pine Louvered Shutter <i>For Arched Tops, Add</i>	224.19 65.00	34.76
10 71	13	13-0252	PR 12" x 63" Pine Louvered Shutter <i>For Arched Tops, Add</i>	231.99 65.00	36.10
10 71	13	13-0253	PR 12" x 67" Pine Louvered Shutter <i>For Arched Tops, Add</i>	239.75 65.00	37.43
10 71	13	13-0254	PR 12" x 71" Pine Louvered Shutter <i>For Arched Tops, Add</i>	247.51 65.00	38.77
10 71	13	13-0255	PR 12" x 75" Pine Louvered Shutter <i>For Arched Tops, Add</i>	255.26 65.00	40.11
10 71 13 13-0256 14" Width (10 71 13 13-0243)					
10 71	13	13-0257	PR 14" x 35" Pine Louvered Shutter <i>For Arched Tops, Add</i>	194.85 65.00	26.74
10 71	13	13-0258	PR 14" x 39" Pine Louvered Shutter <i>For Arched Tops, Add</i>	203.42 65.00	28.08
10 71	13	13-0259	PR 14" x 43" Pine Louvered Shutter <i>For Arched Tops, Add</i>	211.88 65.00	29.41
10 71	13	13-0260	PR 14" x 47" Pine Louvered Shutter <i>For Arched Tops, Add</i>	220.41 65.00	30.75
10 71	13	13-0261	PR 14" x 51" Pine Louvered Shutter <i>For Arched Tops, Add</i>	228.88 65.00	32.09
10 71	13	13-0262	PR 14" x 55" Pine Louvered Shutter <i>For Arched Tops, Add</i>	237.34 65.00	33.43
10 71	13	13-0263	PR 14" x 59" Pine Louvered Shutter <i>For Arched Tops, Add</i>	245.85 65.00	34.76
10 71	13	13-0264	PR 14" x 63" Pine Louvered Shutter <i>For Arched Tops, Add</i>	254.37 65.00	36.10

10	Specialties
10 70	Exterior Specialties
10 71	Exterior Protection



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 71 13	13-0265	PR	14" x 67" Pine Louvered Shutter <i>For Arched Tops, Add</i>	262.84 65.00	37.43
10 71 13	13-0266	PR	14" x 71" Pine Louvered Shutter <i>For Arched Tops, Add</i>	271.34 65.00	38.77
10 71 13	13-0267	PR	14" x 75" Pine Louvered Shutter <i>For Arched Tops, Add</i>	279.87 65.00	40.11
10 71 13	13-0268		15" Width <small>(10 71 13 13-0243)</small>		
10 71 13	13-0269	PR	15" x 35" Pine Louvered Shutter <i>For Arched Tops, Add</i>	203.23 65.00	26.74
10 71 13	13-0270	PR	15" x 39" Pine Louvered Shutter <i>For Arched Tops, Add</i>	212.08 65.00	28.08
10 71 13	13-0271	PR	15" x 43" Pine Louvered Shutter <i>For Arched Tops, Add</i>	220.99 65.00	29.41
10 71 13	13-0272	PR	15" x 47" Pine Louvered Shutter <i>For Arched Tops, Add</i>	229.82 65.00	30.75
10 71 13	13-0273	PR	15" x 51" Pine Louvered Shutter <i>For Arched Tops, Add</i>	238.71 65.00	32.09
10 71 13	13-0274	PR	15" x 55" Pine Louvered Shutter <i>For Arched Tops, Add</i>	247.58 65.00	33.43
10 71 13	13-0275	PR	15" x 59" Pine Louvered Shutter <i>For Arched Tops, Add</i>	256.46 65.00	34.76
10 71 13	13-0276	PR	15" x 63" Pine Louvered Shutter <i>For Arched Tops, Add</i>	265.31 65.00	36.10
10 71 13	13-0277	PR	15" x 67" Pine Louvered Shutter <i>For Arched Tops, Add</i>	274.17 65.00	37.43
10 71 13	13-0278	PR	15" x 71" Pine Louvered Shutter <i>For Arched Tops, Add</i>	283.02 65.00	38.77
10 71 13	13-0279	PR	15" x 75" Pine Louvered Shutter <i>For Arched Tops, Add</i>	291.90 65.00	40.11
10 71 13	13-0280	PR	15" x 81" Pine Louvered Shutter <i>For Arched Tops, Add</i>	304.31 65.00	41.45
10 71 13	13-0281		16" Width <small>(10 71 13 13-0243)</small>		
10 71 13	13-0282	PR	16" x 35" Pine Louvered Shutter <i>For Arched Tops, Add</i>	211.21 65.00	26.74
10 71 13	13-0283	PR	16" x 39" Pine Louvered Shutter <i>For Arched Tops, Add</i>	220.75 65.00	28.08
10 71 13	13-0284	PR	16" x 43" Pine Louvered Shutter <i>For Arched Tops, Add</i>	230.39 65.00	29.41
10 71 13	13-0285	PR	16" x 47" Pine Louvered Shutter <i>For Arched Tops, Add</i>	239.99 65.00	30.75
10 71 13	13-0286	PR	16" x 51" Pine Louvered Shutter <i>For Arched Tops, Add</i>	249.61 65.00	32.09
10 71 13	13-0287	PR	16" x 55" Pine Louvered Shutter <i>For Arched Tops, Add</i>	259.22 65.00	33.43
10 71 13	13-0288	PR	16" x 59" Pine Louvered Shutter <i>For Arched Tops, Add</i>	268.77 65.00	34.76
10 71 13	13-0289	PR	16" x 63" Pine Louvered Shutter <i>For Arched Tops, Add</i>	278.40 65.00	36.10
10 71 13	13-0290	PR	16" x 67" Pine Louvered Shutter <i>For Arched Tops, Add</i>	288.01 65.00	37.43
10 71 13	13-0291	PR	16" x 71" Pine Louvered Shutter <i>For Arched Tops, Add</i>	297.63 65.00	38.77
10 71 13	13-0292	PR	16" x 75" Pine Louvered Shutter <i>For Arched Tops, Add</i>	307.22 65.00	40.11
10 71 13	13-0293	PR	16" x 81" Pine Louvered Shutter <i>For Arched Tops, Add</i>	316.78 65.00	41.45
10 71 13	13-0294		18" Width <small>(10 71 13 13-0243)</small>		
10 71 13	13-0295	PR	18" x 35" Pine Louvered Shutter <i>For Arched Tops, Add</i>	228.76 65.00	26.74
10 71 13	13-0296	PR	18" x 39" Pine Louvered Shutter <i>For Arched Tops, Add</i>	240.94 65.00	28.08
10 71 13	13-0297	PR	18" x 47" Pine Louvered Shutter <i>For Arched Tops, Add</i>	262.08 65.00	30.75
10 71 13	13-0298	PR	18" x 55" Pine Louvered Shutter <i>For Arched Tops, Add</i>	283.27 65.00	33.43
10 71 13	13-0299	PR	18" x 63" Pine Louvered Shutter <i>For Arched Tops, Add</i>	304.43 65.00	36.10
10 71 13	13-0300	PR	18" x 75" Pine Louvered Shutter <i>For Arched Tops, Add</i>	349.39 65.00	40.11
10 71 13	13-0301	PR	18" x 81" Pine Louvered Shutter <i>For Arched Tops, Add</i>	362.18 65.00	41.45
10 71 13	13-0302		Exterior Cedar Board N' Batten Wood Shutters <small>(10 71 13 13)</small>		
10 71 13	13-0303		8" Through 14" Width <small>(10 71 13 13-0302)</small>		



Specialties	10
Exterior Specialties	10 70
Exterior Protection	10 71

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 71	13	13-0304	PR 8" Thru 14" Width x Thru 30" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	338.54 65.00	25.40
10 71	13	13-0305	PR 8" Thru 14" Width x 30-1/8" Thru 34" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	440.98 65.00	26.11
10 71	13	13-0306	PR 8" Thru 14" Width x 34-1/8" Thru 38" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	441.88 65.00	26.74
10 71	13	13-0307	PR 8" Thru 14" Width x 38-1/8" Thru 42" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	545.21 65.00	28.08
10 71	13	13-0308	PR 8" Thru 14" Width x 42-1/8" Thru 46" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	547.00 65.00	29.41
10 71	13	13-0309	PR 8" Thru 14" Width x 46-1/8" Thru 50" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	548.78 65.00	30.75
10 71	13	13-0310	PR 8" Thru 14" Width x 50-1/8" Thru 54" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	652.13 65.00	32.09
10 71	13	13-0311	PR 8" Thru 14" Width x 54-1/8" Thru 58" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	653.91 65.00	33.43
10 71	13	13-0312	PR 8" Thru 14" Width x 58-1/8" Thru 62" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	655.69 65.00	34.76
10 71	13	13-0313	PR 8" Thru 14" Width x 62-1/8" Thru 66" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	759.02 65.00	36.10
10 71	13	13-0314	PR 8" Thru 14" Width x 66-1/8" Thru 70" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	760.81 65.00	37.43
10 71	13	13-0315	PR 8" Thru 14" Width x 70-1/8" Thru 74" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	864.15 65.00	38.77
10 71	13	13-0316	PR 8" Thru 14" Width x 74-1/8" Thru 78" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	865.93 65.00	40.11
10 71	13	13-0317	PR 8" Thru 14" Width x 78-1/8" Thru 82" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	867.71 65.00	41.45
10 71	13	13-0318	PR 8" Thru 14" Width x 82-1/8" Thru 86" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	869.50 65.00	42.79
10 71 13 13-0319 15" Through 16" Width (10 71 13 13-0302)					
10 71	13	13-0320	PR 15" Thru 16" Width x Through 30" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	440.09 65.00	25.40
10 71	13	13-0321	PR 15" Thru 16" Width x 30-1/8" Thru 34" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	440.98 65.00	26.11
10 71	13	13-0322	PR 15" Thru 16" Width x 34-1/8" Thru 38" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	543.44 65.00	26.74
10 71	13	13-0323	PR 15" Thru 16" Width x 38-1/8" Thru 42" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	545.21 65.00	28.08
10 71	13	13-0324	PR 15" Thru 16" Width x 42-1/8" Thru 46" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	648.56 65.00	29.41
10 71	13	13-0325	PR 15" Thru 16" Width x 46-1/8" Thru 50" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	650.34 65.00	30.75
10 71	13	13-0326	PR 15" Thru 16" Width x 50-1/8" Thru 54" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	652.12 65.00	32.09
10 71	13	13-0327	PR 15" Thru 16" Width x 54-1/8" Thru 58" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	755.46 65.00	33.43
10 71	13	13-0328	PR 15" Thru 16" Width x 58-1/8" Thru 62" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	757.24 65.00	34.76
10 71	13	13-0329	PR 15" Thru 16" Width x 62-1/8" Thru 66" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	860.58 65.00	36.10
10 71	13	13-0330	PR 15" Thru 16" Width x 66-1/8" Thru 70" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	862.37 65.00	37.43
10 71	13	13-0331	PR 15" Thru 16" Width x 70-1/8" Thru 74" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	965.70 65.00	38.77
10 71	13	13-0332	PR 15" Thru 16" Width x 74-1/8" Thru 78" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	967.48 65.00	40.11
10 71	13	13-0333	PR 15" Thru 16" Width x 78-1/8" Thru 82" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	1,070.82 65.00	41.45
10 71	13	13-0334	PR 15" Thru 16" Width x 82-1/8" Thru 86" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	1,072.60 65.00	42.79
10 71 13 13-0335 17" Through 18" Width (10 71 13 13-0302)					
10 71	13	13-0336	PR 17" Thru 18" Width x Thru 30" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	440.09 65.00	25.40
10 71	13	13-0337	PR 17" Thru 18" Width x 30-1/8" Thru 34" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	542.54 65.00	26.11
10 71	13	13-0338	PR 17" Thru 18" Width x 34-1/8" Thru 38" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	543.44 65.00	26.74
10 71	13	13-0339	PR 17" Thru 18" Width x 38-1/8" Thru 42" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	646.77 65.00	28.08
10 71	13	13-0340	PR 17" Thru 18" Width x 42-1/8" Thru 46" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	648.56 65.00	29.41
10 71	13	13-0341	PR 17" Thru 18" Width x 46-1/8" Thru 50" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	751.89 65.00	30.75
10 71	13	13-0342	PR 17" Thru 18" Width x 50-1/8" Thru 54" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	753.67 65.00	32.09
10 71	13	13-0343	PR 17" Thru 18" Width x 54-1/8" Thru 58" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	857.02 65.00	33.43
10 71	13	13-0344	PR 17" Thru 18" Width x 58-1/8" Thru 62" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	858.80 65.00	34.76

10 Specialties
10 70 Exterior Specialties
10 71 Exterior Protection



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 71 13	13-0345	PR	17" Thru 18" Width x 62-1/8" Thru 66" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	962.13 65.00	36.10
10 71 13	13-0346	PR	17" Thru 18" Width x 66-1/8" Thru 70" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	963.92 65.00	37.43
10 71 13	13-0347	PR	17" Thru 18" Width x 70-1/8" Thru 74" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,067.26 65.00	38.77
10 71 13	13-0348	PR	17" Thru 18" Width x 74-1/8" Thru 78" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,069.04 65.00	40.11
10 71 13	13-0349	PR	17" Thru 18" Width x 78-1/8" Thru 82" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,172.38 65.00	41.45
10 71 13	13-0350	PR	17" Thru 18" Width x 82-1/8" Thru 86" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,174.16 65.00	42.79
10 71 13 13-0351 19" Through 20" Width (10 71 13 13-0302)					
10 71 13	13-0352	PR	19" Thru 20" Width x Thru 30" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	541.65 65.00	25.40
10 71 13	13-0353	PR	19" Thru 20" Width x 30-1/8" Thru 34" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	542.54 65.00	26.11
10 71 13	13-0354	PR	19" Thru 20" Width x 34-1/8" Thru 38" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	645.00 65.00	26.74
10 71 13	13-0355	PR	19" Thru 20" Width x 38-1/8" Thru 42" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	646.77 65.00	28.08
10 71 13	13-0356	PR	19" Thru 20" Width x 42-1/8" Thru 46" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	750.11 65.00	29.41
10 71 13	13-0357	PR	19" Thru 20" Width x 46-1/8" Thru 50" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	751.89 65.00	30.75
10 71 13	13-0358	PR	19" Thru 20" Width x 50-1/8" Thru 54" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	855.23 65.00	32.09
10 71 13	13-0359	PR	19" Thru 20" Width x 54-1/8" Thru 58" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	958.57 65.00	33.43
10 71 13	13-0360	PR	19" Thru 20" Width x 58-1/8" Thru 62" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	960.35 65.00	34.76
10 71 13	13-0361	PR	19" Thru 20" Width x 62-1/8" Thru 66" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,063.69 65.00	36.10
10 71 13	13-0362	PR	19" Thru 20" Width x 66-1/8" Thru 70" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,065.48 65.00	37.43
10 71 13	13-0363	PR	19" Thru 20" Width x 70-1/8" Thru 74" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,168.82 65.00	38.77
10 71 13	13-0364	PR	19" Thru 20" Width x 74-1/8" Thru 78" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,170.60 65.00	40.11
10 71 13	13-0365	PR	19" Thru 20" Width x 78-1/8" Thru 82" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,273.93 65.00	41.45
10 71 13	13-0366	PR	19" Thru 20" Width x 82-1/8" Thru 86" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,275.71 65.00	42.79
10 71 13 13-0367 21" Through 22" Width (10 71 13 13-0302)					
10 71 13	13-0368	PR	21" Thru 22" Width x Thru 30" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	541.65 65.00	25.40
10 71 13	13-0369	PR	21" Thru 22" Width x 30-1/8" Thru 34" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	542.54 65.00	26.11
10 71 13	13-0370	PR	21" Thru 22" Width x 34-1/8" Thru 38" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	645.00 65.00	26.74
10 71 13	13-0371	PR	21" Thru 22" Width x 38-1/8" Thru 42" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	748.32 65.00	28.08
10 71 13	13-0372	PR	21" Thru 22" Width x 42-1/8" Thru 46" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	750.11 65.00	29.41
10 71 13	13-0373	PR	21" Thru 22" Width x 46-1/8" Thru 50" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	853.45 65.00	30.75
10 71 13	13-0374	PR	21" Thru 22" Width x 50-1/8" Thru 54" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	855.23 65.00	32.09
10 71 13	13-0375	PR	21" Thru 22" Width x 54-1/8" Thru 58" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	958.57 65.00	33.43
10 71 13	13-0376	PR	21" Thru 22" Width x 58-1/8" Thru 62" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,061.91 65.00	34.76
10 71 13	13-0377	PR	21" Thru 22" Width x 62-1/8" Thru 66" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,063.69 65.00	36.10
10 71 13	13-0378	PR	21" Thru 22" Width x 66-1/8" Thru 70" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,167.04 65.00	37.43
10 71 13	13-0379	PR	21" Thru 22" Width x 70-1/8" Thru 74" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,168.82 65.00	38.77
10 71 13	13-0380	PR	21" Thru 22" Width x 74-1/8" Thru 78" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,272.15 65.00	40.11
10 71 13	13-0381	PR	21" Thru 22" Width x 78-1/8" Thru 82" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,273.93 65.00	41.45
10 71 13	13-0382	PR	21" Thru 22" Width x 82-1/8" Thru 86" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,275.71 65.00	42.79
10 71 13 13-0383 22" Through 24" Width (10 71 13 13-0302)					
10 71 13	13-0384	PR	22" Thru 24" Width x Thru 30" Height Cedar Board N' Batten Wood Shutter..... <i>For Arched Tops, Add</i>	541.65 65.00	25.40



Specialties	10
Exterior Specialties	10 70
Exterior Protection	10 71

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 71	13	13-0385	PR 22" Thru 24" Width x 30-1/8" Thru 34" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	644.10 65.00	26.11
10 71	13	13-0386	PR 22" Thru 24" Width x 34-1/8" Thru 38" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	645.00 65.00	26.74
10 71	13	13-0387	PR 22" Thru 24" Width x 38-1/8" Thru 42" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	748.32 65.00	28.08
10 71	13	13-0388	PR 22" Thru 24" Width x 42-1/8" Thru 46" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	851.67 65.00	29.41
10 71	13	13-0389	PR 22" Thru 24" Width x 46-1/8" Thru 50" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	853.45 65.00	30.75
10 71	13	13-0390	PR 22" Thru 24" Width x 50-1/8" Thru 54" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	956.78 65.00	32.09
10 71	13	13-0391	PR 22" Thru 24" Width x 54-1/8" Thru 58" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	958.57 65.00	33.43
10 71	13	13-0392	PR 22" Thru 24" Width x 58-1/8" Thru 62" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,061.91 65.00	34.76
10 71	13	13-0393	PR 22" Thru 24" Width x 62-1/8" Thru 66" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,165.25 65.00	36.10
10 71	13	13-0394	PR 22" Thru 24" Width x 66-1/8" Thru 70" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,167.04 65.00	37.43
10 71	13	13-0395	PR 22" Thru 24" Width x 70-1/8" Thru 74" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,270.37 65.00	38.77
10 71	13	13-0396	PR 22" Thru 24" Width x 74-1/8" Thru 78" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,272.15 65.00	40.11
10 71	13	13-0397	PR 22" Thru 24" Width x 78-1/8" Thru 82" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,375.49 65.00	41.45
10 71	13	13-0398	PR 22" Thru 24" Width x 82-1/8" Thru 86" Height Cedar Board N' Batten Wood Shutter <i>For Arched Tops, Add</i>	1,377.27 65.00	42.79
10 71 13 13-0399 Accessories (10 71 13 13)					
10 71	13	13-0400	PR Surface Mounted Pintel, Stainless Steel	55.06	
10 71	13	13-0401	PR Lag Pintel, Stainless Steel	55.06	
10 71	13	13-0402	PR 10" Strap Hinge, Stainless Steel	82.74	
10 71	13	13-0403	PR 6" L-Hinge, Stainless Steel	76.38	
10 71	13	13-0404	PR Hinge Set, Galvanized And Painted	69.08	
10 71	13	13-0405	PR Acorn Holdback	64.29	
10 71	13	13-0406	PR 'S' Holdback, Stainless Steel	53.99	
10 71	13	13-0407	PR 'S' Holdback, Galvanized And Painted	50.81	
10 73 Protective Covers (10 73)					
10 73 13 Awnings (10 73)					
10 73 13 13 Metal Awnings (10 73 13)					
10 73 13 13-0001 Metal Awnings (10 73 13 13)					
Note: Includes metal cover, frame supports and anchoring.					
10 73	13	13-0002	SF Clear Weather Resistant Finish, Ribbed Aluminum Window Awnings	51.02	7.31
10 73	13	13-0003	SF Baked Enamel Finish, Ribbed Aluminum Window Awning	45.16	6.55
10 73	13	13-0004	SF Flat Roofed Steel Awning	131.99	7.59
Note: Per SF of covered area					
10 73	13	13-0005	SF Arched Roofed Steel Awning (Per SF Of Covered Area)	136.36	8.54
10 73 13 23 Fabric Awnings (10 73 13)					
10 73 13 23-0001 Canvas Awnings (10 73 13 23)					
Note: Includes minimum 12 oz. canvas, frame supports and anchoring.					
10 73	13	23-0002	SF Canvas Awning, Waterproof Fabric Tubular Metal Framing	48.47	6.00
10 73	13	23-0003	SF Side Protection Canvas For Walkways (Per SF Of Wall Area)	27.39	1.94
10 73	13	23-0004	SF Removal And Replacement Of Canvas For Awnings	17.99	
Note: Includes removal of existing canvas cover.					
<i>For 18 Oz. Vinyl Laminated Polyester Cover, Add</i>					
				0.55	
10 73 16 Canopies (10 73)					
10 73 16 13 Metal Canopies (10 73 16)					
10 73 16 13-0001 Canopies, Wall Hung, Aluminum Framed And Covered, Prefinished (10 73 16 13)					
Note: Includes cover, frame supports and anchoring.					
10 73	16	13-0002	EA 8' x 10' Canopy, Aluminum, Wall Hung	4,500.60	370.55
10 73	16	13-0003	EA 8' x 20' Canopy, Aluminum, Wall Hung	8,307.12	593.02
10 73	16	13-0004	EA 10' x 10' Canopy, Aluminum, Wall Hung	5,543.58	463.63
10 73	16	13-0005	EA 10' x 20' Canopy, Aluminum, Wall Hung	10,062.86	619.98
10 73 26 Walkway Coverings (10 73)					
Note: Pre-engineered includes all framing and steel supports, integral gutter system. Excludes foundations.					
10 73 26 13 Metal Walkway Coverings (10 73 26)					

10	10	Specialties
	10 70	Exterior Specialties
	10 73	Protective Covers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 73 26 13-0001			Steel Walkway/Parking Covers <small>(10 73 26 13)</small> Note: Factory applied polyester finish.		
10 73 26 13-0002	SF		Flat Roofed Steel Walkway/Parking Cover Note: Includes factory applied polyester finish.	65.44	5.46
			<i>For Snow Load (30 PSF), Add</i>	21.81	
			<i>For Wind Load (140 MPH), Add</i>	27.26	
10 73 26 13-0003	SF		Arch Roofed Steel Walkway/Parking Cover Note: Includes factory applied polyester finish.	69.69	5.88
			<i>For Snow Load (30 PSF), Add</i>	23.17	
			<i>For Wind Load (140 MPH), Add</i>	28.97	
10 73 26 13-0004			Aluminum Walkway/Parking Covers <small>(10 73 26 13)</small>		
10 73 26 13-0005	SF		Flat Roofed Aluminum Walkway/Parking Cover Note: Includes factory applied polyester finish.	43.46	5.46
			<i>For Snow Load (30 PSF), Add</i>	13.02	
			<i>For Wind Load (140 MPH), Add</i>	16.27	
10 73 26 13-0006	SF		Arch Roofed Aluminum Walkway/Parking Cover Note: Includes factory applied polyester finish.	47.26	5.88
			<i>For Snow Load (30 PSF), Add</i>	14.20	
			<i>For Wind Load (140 MPH), Add</i>	17.75	

10 75 Flagpoles (10 70)
 Note: Metal bases are installed in a concrete base and fully rigged. Heights indicated are from ground to top of installed flag pole. Uninstalled lengths are longer. Includes top ball (color and material similar to pole), cleats and cleat cover, all caulking and sealants, and hoisting into place. Excludes excavation and concrete. See CSI section 10 75 16 00-0021 for bases.

10 75 16			Ground-Set Flagpoles <small>(10 75)</small>		
10 75 16 00-0001			Free Standing Tapered Fiberglass Flagpoles <small>(10 75 16)</small>		
10 75 16 00-0002	EA		25' Exposed Height, Tapered White Fiberglass Flagpole..... Note: 6" butt diameter, 3" top diameter and 0.180" wall.	2,504.78	676.44
			<i>For Internal Halyard, Cam System, Add</i>	300.00	
			<i>For Bronze Finish, Add</i>	20.00	
			<i>For Rope Lock Box, Add</i>	96.00	
10 75 16 00-0003	EA		30' Exposed Height, Tapered White Fiberglass Flagpole..... Note: 6-1/2" butt diameter, 3" top diameter and 0.180" wall.	2,683.38	737.93
			<i>For Internal Halyard, Cam System, Add</i>	300.00	
			<i>For Bronze Finish, Add</i>	50.00	
			<i>For Rope Lock Box, Add</i>	96.00	
10 75 16 00-0004	EA		35' Exposed Height, Tapered White Fiberglass Flagpole..... Note: 7" butt diameter, 3" top diameter and 0.200" wall.	3,349.22	860.92
			<i>For Internal Halyard, Cam System, Add</i>	300.00	
			<i>For Bronze Finish, Add</i>	10.00	
			<i>For Rope Lock Box, Add</i>	96.00	
10 75 16 00-0005	EA		40' Exposed Height, Tapered White Fiberglass Flagpole..... Note: 7" butt diameter, 3" top diameter and 0.200" wall.	3,880.03	983.91
			<i>For Internal Halyard, Cam System, Add</i>	300.00	
			<i>For Bronze Finish, Add</i>	50.00	
			<i>For Rope Lock Box, Add</i>	96.00	
10 75 16 00-0006	EA		50' Exposed Height, Tapered White Fiberglass Flagpole..... Note: 10" butt diameter, 4-1/2" top diameter and 0.275" wall.	6,899.06	1,106.90
			<i>For Internal Halyard, Winch System, Add</i>	1,700.00	
			<i>For Bronze Finish, Add</i>	200.00	
			<i>For Rope Lock Box, Add</i>	96.00	
10 75 16 00-0007	EA		60' Exposed Height, Tapered White Fiberglass Flagpole..... Note: 10-1/2" butt diameter, 4-1/2" top diameter and 0.300" wall.	8,175.70	1,229.88
			<i>For Internal Halyard, Winch System, Add</i>	1,900.00	
			<i>For Bronze Finish, Add</i>	160.00	
			<i>For Rope Lock Box, Add</i>	96.00	
10 75 16 00-0008	EA		70' Exposed Height, Tapered White Fiberglass Flagpole..... Note: 16" butt diameter, 7" top diameter and 0.325" wall.	13,760.10	1,352.88
			<i>For Internal Halyard, Winch System, Add</i>	2,860.00	
			<i>For Bronze Finish, Add</i>	700.00	
			<i>For Rope Lock Box, Add</i>	96.00	
10 75 16 00-0009	EA		78' Exposed Height, Tapered White Fiberglass Flagpole..... Note: 10-3/4" butt diameter, 7" top diameter and 0.350" wall.	17,711.41	1,475.86
			<i>For Internal Halyard, Winch System, Add</i>	2,900.00	
			<i>For Bronze Finish, Add</i>	900.00	
			<i>For Rope Lock Box, Add</i>	96.00	
10 75 16 00-0010			Free Standing Tapered Aluminum Flagpoles <small>(10 75 16)</small> Note: Heavy duty.		
10 75 16 00-0011	EA		20' Exposed Height, Tapered Satin Aluminum Flagpole Note: 5" butt diameter, 3" top diameter and 0.188" wall.	2,302.67	614.95
			<i>For Internal Halyard, Winch System, Add</i>	570.00	
			<i>For Clear Anodized Finish, Add</i>	150.00	
			<i>For Bronze Anodized Finish, Add</i>	180.00	
			<i>For Black Anodized Finish, Add</i>	230.00	
			<i>For Rope Lock Box, Add</i>	96.00	



Specialties	10
Exterior Specialties	10 70
Flagpoles	10 75

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 75 16 00-0012	EA		25' Exposed Height, Tapered Satin Aluminum Flagpole..... Note: 5-1/2" butt diameter, 3-1/2" top diameter and 0.188" wall. <i>For Internal Halyard, Winch System, Add</i> <i>For Clear Anodized Finish, Add</i> <i>For Bronze Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For Rope Lock Box, Add</i>	2,729.44 1,100.00 200.00 230.00 320.00 96.00	676.44
10 75 16 00-0013	EA		30' Exposed Height, Tapered Satin Aluminum Flagpole..... Note: 6" butt diameter, 3-1/2" top diameter and 0.188" wall. <i>For Internal Halyard, Winch System, Add</i> <i>For Clear Anodized Finish, Add</i> <i>For Bronze Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For Rope Lock Box, Add</i>	3,026.93 1,390.00 240.00 290.00 400.00 96.00	737.93
10 75 16 00-0014	EA		35' Exposed Height, Tapered Satin Aluminum Flagpole..... Note: 7" butt diameter, 3-1/2" top diameter and 0.188" wall. <i>For Internal Halyard, Winch System, Add</i> <i>For Clear Anodized Finish, Add</i> <i>For Bronze Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For Rope Lock Box, Add</i>	3,828.77 1,340.00 290.00 360.00 480.00 96.00	860.92
10 75 16 00-0015	EA		40' Exposed Height, Tapered Satin Aluminum Flagpole..... Note: 8" butt diameter, 3-1/2" top diameter and 0.188" wall. <i>For Internal Halyard, Winch System, Add</i> <i>For Clear Anodized Finish, Add</i> <i>For Bronze Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For Rope Lock Box, Add</i>	4,716.77 1,490.00 390.00 480.00 660.00 96.00	983.91
10 75 16 00-0016	EA		45' Exposed Height, Tapered Satin Aluminum Flagpole..... Note: 8" butt diameter, 3-1/2" top diameter and 0.188" wall. <i>For Internal Halyard, Winch System, Add</i> <i>For Clear Anodized Finish, Add</i> <i>For Bronze Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For Rope Lock Box, Add</i>	5,212.49 1,340.00 400.00 500.00 700.00 96.00	1,045.40
10 75 16 00-0017	EA		50' Exposed Height, Tapered Satin Aluminum Flagpole..... Note: 10" butt diameter, 4" top diameter and 0.188" wall. <i>For Internal Halyard, Winch System, Add</i> <i>For Clear Anodized Finish, Add</i> <i>For Bronze Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For Rope Lock Box, Add</i>	6,509.72 1,380.00 700.00 860.00 1,130.00 96.00	1,106.90
10 75 16 00-0018	EA		60' Exposed Height, Tapered Satin Aluminum Flagpole..... Note: 12" butt diameter, 4" top diameter and 0.250" wall. <i>For Internal Halyard, Winch System, Add</i> <i>For Clear Anodized Finish, Add</i> <i>For Bronze Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For Rope Lock Box, Add</i>	11,026.13 1,800.00 620.00 820.00 1,160.00 96.00	1,229.88
10 75 16 00-0019	EA		70' Exposed Height, Tapered Satin Aluminum Flagpole..... Note: 12" butt diameter, 4" top diameter and 0.250" wall. <i>For Internal Halyard, Winch System, Add</i> <i>For Clear Anodized Finish, Add</i> <i>For Bronze Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For Rope Lock Box, Add</i>	12,069.27 1,720.00 710.00 950.00 1,360.00 96.00	1,352.88
10 75 16 00-0020	EA		80' Exposed Height, Tapered Satin Aluminum Flagpole..... Note: 12" butt diameter, 4" top diameter and 0.375" wall. <i>For Internal Halyard, Winch System, Add</i> <i>For Clear Anodized Finish, Add</i> <i>For Bronze Anodized Finish, Add</i> <i>For Black Anodized Finish, Add</i> <i>For Rope Lock Box, Add</i>	15,051.58 2,600.00 1,100.00 1,380.00 1,840.00 96.00	1,475.86
10 75 16 00-0021			Flagpole Bases (10 75 16)		
10 75 16 00-0022			Flagpole Concrete Base (10 75 16 00-0021) Note: Includes excavation, forms where necessary, steel casing and reinforcing, metal collar installation, base plate, sand fill, ground spike, concrete and finishing of concrete.		
10 75 16 00-0023	EA		30' Or Less Flagpole, Poured Concrete Foundation.....	1,152.08	
10 75 16 00-0024	EA		35' Flagpole, Poured Concrete Foundation.....	1,190.38	
10 75 16 00-0025	EA		40' Flagpole, Poured Concrete Foundation.....	1,370.58	
10 75 16 00-0026	EA		45' Flagpole, Poured Concrete Foundation.....	1,449.53	
10 75 16 00-0027	EA		50' Flagpole, Poured Concrete Foundation.....	1,736.82	
10 75 16 00-0028	EA		60' Flagpole, Poured Concrete Foundation.....	2,104.92	
10 75 16 00-0029	EA		70' Flagpole, Poured Concrete Foundation.....	2,487.01	
10 75 16 00-0030	EA		80' Flagpole, Poured Concrete Foundation.....	2,891.57	
10 75 16 00-0031	EA		90' To 100' Flagpole, Poured Concrete Foundation.....	3,370.10	
10 75 16 00-0032			Direct Embedded Flagpole Base (10 75 16 00-0021) Note: Augured in place, no concrete required.		
10 75 16 00-0033	EA		20' To 25' Flagpole, Direct Embedded Pole Base.....	532.53	
10 75 16 00-0034	EA		30' To 40' Flagpole, Direct Embedded Pole Base.....	764.49	
10 75 16 00-0035	EA		45' To 55' Flagpole, Direct Embedded Pole Base.....	853.26	

10	10 Specialties
	10 70 Exterior Specialties
	10 75 Flagpoles



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 75 16 00-0036 EA 60' To 70' Flagpole, Direct Embedded Pole Base.....	.961.37	
10 75 16 00-0037 Flagpole Accessories (10 75 16)		
10 75 16 00-0038 Flagpole Tops (10 75 16 00-0037)		
Note: To be used on renovation of existing flagpole. Do not use in conjunction with installation of new flagpoles.		
10 75 16 00-0039 EA 4" Gold Anodized Aluminum Ball For Top Of Flagpole.....	99.47	37.68
10 75 16 00-0040 EA 5" Gold Anodized Aluminum Ball For Top Of Flagpole.....	108.22	39.89
10 75 16 00-0041 EA 6" Gold Anodized Aluminum Ball For Top Of Flagpole.....	120.42	42.10
10 75 16 00-0042 EA 8" Gold Anodized Aluminum Ball For Top Of Flagpole.....	154.14	44.33
10 75 16 00-0043 EA 10" Gold Anodized Aluminum Ball For Top Of Flagpole.....	199.95	46.54
10 75 16 00-0044 EA 12" Gold Anodized Aluminum Ball For Top Of Flagpole.....	222.48	48.75
10 75 16 00-0045 EA 11-1/4" Aluminum Flying Eagle Mounted On A Spindle For Flagpole Top, Gold Finish.....	204.38	48.75
10 75 16 00-0046 EA 15" Aluminum Flying Eagle Mounted On A Spindle For Flagpole Top, Gold Finish.....	237.50	55.40
10 75 16 00-0047 Flagpole Accessories (10 75 16 00-0037)		
Note: To be used on renovation of existing flagpole. Do not use in conjunction with installation of new flagpoles.		
10 75 16 00-0048 LF 5/16" Diameter, Nylon Halyard (Rope) With Wire Center For Flagpoles.....	0.83	0.07
10 75 16 00-0049 LF 5/16" Diameter, Solid Braided Multifilament Polypropylene Halyard (Rope) For Flagpoles.....	0.42	0.07
10 75 16 00-0050 LF 5/16" Diameter, Nylon Halyard (Rope) For Flagpoles.....	0.33	0.07
10 75 16 00-0051 LF 3/8" Diameter, Nylon Halyard (Rope) With Wire Center For Flagpoles.....	1.11	0.07
10 75 16 00-0052 EA Refinish Existing Flagpole Ball.....	296.78	110.77
10 75 16 00-0053 EA Locking Aluminum Cleat Box For Flagpoles.....	239.84	66.46
10 75 16 00-0054 EA Aluminum Cleat For Flagpoles.....	19.81	4.43
10 75 16 00-0055 LF 1/8" Diameter, 7x7 Galvanized Wire Rope For Flagpoles.....	0.63	0.09
10 75 23 Wall-Mounted Flagpoles (10 75)		
10 75 23 00-0001 Vertical, Wall/Roof Mounted Tapered Aluminum Flagpoles (10 75 23)		
Note: Includes aluminum brackets, 3" butt diameter and 0.125" wall.		
10 75 23 00-0002 EA 14' Height, Vertical Wall/Roof Mounted Tapered Aluminum Flagpole, Satin Finish.....	1,570.09	539.43
For Clear Anodized Finish, Add	60.00	
For Bronze Anodized Finish, Add	80.00	
For Black Anodized Finish, Add	90.00	
For Rope Lock Box, Add	96.00	
10 75 23 00-0003 EA 17' Height, Vertical Wall/Roof Mounted Tapered Aluminum Flagpole, Satin Finish.....	1,703.84	593.36
For Clear Anodized Finish, Add	70.00	
For Bronze Anodized Finish, Add	80.00	
For Black Anodized Finish, Add	100.00	
For Rope Lock Box, Add	96.00	
10 75 23 00-0004 EA 20' Height, Vertical Wall/Roof Mounted Tapered Aluminum Flagpole, Satin Finish.....	1,846.19	647.30
For Clear Anodized Finish, Add	70.00	
For Bronze Anodized Finish, Add	110.00	
For Black Anodized Finish, Add	120.00	
For Rope Lock Box, Add	96.00	
10 75 23 00-0005 EA 25' Height, Vertical Wall/Roof Mounted Tapered Aluminum Flagpole, Satin Finish.....	2,139.54	755.19
For Clear Anodized Finish, Add	70.00	
For Bronze Anodized Finish, Add	90.00	
For Black Anodized Finish, Add	100.00	
For Rope Lock Box, Add	96.00	
10 75 23 00-0006 Outrigger, Wall Mounted Tapered Aluminum Flagpoles (10 75 23)		
Note: Includes aluminum base, 3-1/2" butt diameter and 0.125" wall.		
10 75 23 00-0007 EA 10' (3.0 m) Outrigger, Tapered Aluminum Flagpole, Satin Finish.....	2,039.65	485.48
For Rope Lock Box, Add	96.00	
10 75 23 00-0008 EA 15' (4.6 m) Outrigger, Tapered Aluminum Flagpole, Satin Finish.....	2,199.24	539.43
For Rope Lock Box, Add	96.00	
10 75 23 00-0009 EA 20' (6.1 m) Outrigger, Tapered Aluminum Flagpole, Satin Finish.....	2,449.49	647.30
For Rope Lock Box, Add	96.00	
10 80 Other Specialties (10)		
10 81 Pest Control Devices (10 80)		
10 81 13 Bird Control Devices (10 81)		
10 81 13 00-0001 Stainless Steel Spiked Bird Barrier (10 81 13)		
Note: Stainless steel spikes with flexible polycarbonate base.		
10 81 13 00-0002 LF 2-1/2" To 3" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	6.37	0.70
10 81 13 00-0003 LF 4-1/2" To 5" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	7.68	0.70
10 81 13 00-0004 LF 8" Wide Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System.....	11.25	0.70
10 81 13 00-0005 Polycarbonate Spiked Bird Barrier (10 81 13)		
Note: Polycarbonate spikes and base.		
10 81 13 00-0006 LF 3" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	5.90	0.70
10 81 13 00-0007 LF 5" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	7.14	0.70
10 81 13 00-0008 LF 8" Wide Polycarbonate Spikes And Base Bird Deterrent System.....	8.53	0.70



Specialties	10
Other Specialties	10 80
Pest Control Devices	10 81

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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10 81 13 00-0009	Spiked Gutter Or Girder Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel spikes with flexible polycarbonate base mounted to gutter or girder. Includes aluminum clamps.		
10 81 13 00-0010	LF Stainless Steel Spikes And Polycarbonate Base Bird Deterrent System For Gutter Or Girder Application	6.67	0.70

10 81 13 00-0011	Coil Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel coil.		
10 81 13 00-0012	LF 4" Diameter Stainless Steel Coil Bird Deterrent System	4.82	0.70
10 81 13 00-0013	LF 5" Diameter Stainless Steel Coil Bird Deterrent System	5.65	0.70

10 81 13 00-0014	Spider Bird Barrier <small>(10 81 13)</small>		
	Note: Stainless steel arms with various bases.		
10 81 13 00-0015	EA 2' Diameter Stainless Steel Spider Bird Deterrent System	87.39	0.70
10 81 13 00-0016	EA 4' Diameter Stainless Steel Spider Bird Deterrent System	127.50	0.70
10 81 13 00-0017	EA 8' Diameter Stainless Steel Spider Bird Deterrent System	159.64	0.70

10 81 13 00-0018	Oriented Flexible Flame Resistant Netting <small>(10 81 13)</small>		
	Note: Includes stainless steel rings and plastic ties.		
10 81 13 00-0019	SF 1/8" x 1/8" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.74	0.31
10 81 13 00-0020	SF 1/4" x 1/4" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.73	0.31
10 81 13 00-0021	SF 1/2" x 1/2" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.71	0.31
10 81 13 00-0022	SF 3/4" x 3/4" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.70	0.31
10 81 13 00-0023	SF 1" x 1" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.70	0.31
10 81 13 00-0024	SF 1-1/8" x 1-1/8" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.69	0.31
10 81 13 00-0025	SF 2" x 2" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.68	0.31
10 81 13 00-0026	SF 3" x 3" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.68	0.31
10 81 13 00-0027	SF 4" x 4" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.67	0.31
10 81 13 00-0028	SF 5/8" x 3/4" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.71	0.31
10 81 13 00-0029	SF 1-1/4" x 1-1/2" Mesh Flexible Polypropylene Netting..... Note: To control bird and marine predators.	0.69	0.31
10 81 13 00-0030	EA Poly Clips For Flexible Netting.....	2.46	

10 81 13 00-0031	Netting Accessories <small>(10 81 13)</small>		
10 81 13 00-0032	EA 2' Zipper For Flexible Netting	5.23	
10 81 13 00-0033	EA 4' Zipper For Flexible Netting	7.88	
10 81 13 00-0034	EA 6' Zipper For Flexible Netting	9.27	
10 81 13 00-0035	EA 8' Zipper For Flexible Netting	13.18	

10 81 16 Insect Control Devices (10 81)

10 81 16 00-0001	Insect Screening <small>(10 81 16)</small>		
10 81 16 00-0002	CSF 17/14 Mesh Insect Screening With Flat Screen Splines	85.59	

10 86 Security Mirrors And Domes (10 86)

10 86 00 00-0001	Security Mirrors <small>(10 86)</small>		
10 86 00 00-0002	EA 8" x 10" Framed Stainless Steel Mirror With Mounting Plate	73.85	27.24
10 86 00 00-0003	EA 10" x 14" Framed Stainless Steel Mirror With Mounting Plate	79.45	27.24
10 86 00 00-0004	EA 16" x 20" Unframed Stainless Steel Mirror With Mounting Screws	119.76	22.70
10 86 00 00-0005	EA 8" x 10" Framed Stainless Steel Replacement Mirror	71.03	27.24
10 86 00 00-0006	EA 10" x 14" Framed Stainless Steel Replacement Mirror	102.19	27.24

10 86 00 00-0007 **Dome Mirrors** (10 86)

Note: Includes all mounting hardware. Indoor or outdoor applications.

10 86 00 00-0008	Steel Dome Mirrors <small>(10 86 00 00-0007)</small>		
10 86 00 00-0009	EA 9" Diameter Full-Dome Steel Dome Mirror	187.81	17.73
10 86 00 00-0010	EA 12" Diameter Full-Dome Steel Dome Mirror	220.07	18.61
10 86 00 00-0011	EA 18" Diameter Full-Dome Steel Dome Mirror	254.08	20.39
10 86 00 00-0012	EA 24" Diameter Full-Dome Steel Dome Mirror	337.13	22.16
10 86 00 00-0013	EA 9" Diameter Half-Dome Steel Dome Mirror	134.70	13.30
10 86 00 00-0014	EA 12" Diameter Half-Dome Steel Dome Mirror	155.03	14.19
10 86 00 00-0015	EA 18" Diameter Half-Dome Steel Dome Mirror	180.74	15.51

10 Specialties
10 80 Other Specialties
 10 86 Security Mirrors And Domes



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
10 86 00 00-0016 EA 24" Diameter Half-Dome Steel Dome Mirror	249.64	16.84
10 86 00 00-0017 Plexiglas Dome Mirrors <small>(10 86 00 00-0007)</small>		
10 86 00 00-0018 EA 18" Diameter Full-Dome Plexiglas Dome Mirror	148.75	20.39
10 86 00 00-0019 EA 26" Diameter Full-Dome Plexiglas Dome Mirror	207.29	22.16
10 86 00 00-0020 EA 32" Diameter Full-Dome Plexiglas Dome Mirror	272.68	25.70
10 86 00 00-0021 EA 36" Diameter Full-Dome Plexiglas Dome Mirror	329.68	31.03
10 86 00 00-0022 EA 48" Diameter Full-Dome Plexiglas Dome Mirror	480.81	44.33
10 86 00 00-0023 EA 18" Diameter Half-Dome Plexiglas Dome Mirror	92.37	15.51
10 86 00 00-0024 EA 26" Diameter Half-Dome Plexiglas Dome Mirror	122.85	16.84
10 86 00 00-0025 EA 32" Diameter Half-Dome Plexiglas Dome Mirror	160.76	19.50
10 86 00 00-0026 EA 36" Diameter Half-Dome Plexiglas Dome Mirror	198.02	23.49
10 86 00 00-0027 EA 48" Diameter Half-Dome Plexiglas Dome Mirror	312.91	33.24
10 86 00 00-0028 EA 18" Diameter Quarter-Dome Plexiglas Dome Mirror	61.04	13.30
10 86 00 00-0029 EA 26" Diameter Quarter-Dome Plexiglas Dome Mirror	77.35	14.63
10 86 00 00-0030 EA 32" Diameter Quarter-Dome Plexiglas Dome Mirror	100.50	16.40
10 86 00 00-0031 EA 36" Diameter Quarter-Dome Plexiglas Dome Mirror	124.85	19.50
10 86 00 00-0032 EA 48" Diameter Quarter-Dome Plexiglas Dome Mirror	205.11	27.71
10 86 00 00-0033 Coated Plexiglas Dome Mirrors <small>(10 86 00 00-0007)</small>		
10 86 00 00-0034 EA 18" Diameter Full-Dome Coated Plexiglas Dome Mirror	175.91	20.39
10 86 00 00-0035 EA 26" Diameter Full-Dome Coated Plexiglas Dome Mirror	268.24	22.16
10 86 00 00-0036 EA 36" Diameter Full-Dome Coated Plexiglas Dome Mirror	451.57	31.03
10 86 00 00-0037 EA 48" Diameter Full-Dome Coated Plexiglas Dome Mirror	694.12	44.33
10 86 00 00-0038 EA 18" Diameter Half-Dome Coated Plexiglas Dome Mirror	115.16	15.51
10 86 00 00-0039 EA 26" Diameter Half-Dome Coated Plexiglas Dome Mirror	168.82	16.84
10 86 00 00-0040 EA 36" Diameter Half-Dome Coated Plexiglas Dome Mirror	265.59	23.49
10 86 00 00-0041 EA 48" Diameter Half-Dome Coated Plexiglas Dome Mirror	437.45	33.24
10 86 00 00-0042 EA 18" Diameter Quarter-Dome Coated Plexiglas Dome Mirror	84.49	13.30
10 86 00 00-0043 EA 26" Diameter Quarter-Dome Coated Plexiglas Dome Mirror	116.84	14.63
10 86 00 00-0044 EA 32" Diameter Quarter-Dome Coated Plexiglas Dome Mirror	150.32	16.40
10 86 00 00-0045 EA 36" Diameter Quarter-Dome Coated Plexiglas Dome Mirror	192.69	19.50
10 86 00 00-0046 EA 48" Diameter Quarter-Dome Coated Plexiglas Dome Mirror	300.51	27.71
10 86 00 00-0047 Circular Convex Security Mirrors <small>(10 86)</small>		
Note: Includes all mounting hardware.		
10 86 00 00-0048 Plexiglas Circular Convex Mirrors <small>(10 86 00 00-0047)</small>		
Note: Indoor models have a tempered hardboard backing. Outdoor models have a waterproof edge and back, rustproof hardware with backed-on enamel finish.		
10 86 00 00-0049 EA 12" Diameter Plexiglas Circular Convex Mirrors, Indoor	65.47	14.19
10 86 00 00-0050 EA 18" Diameter Plexiglas Circular Convex Mirrors, Indoor	83.89	15.51
10 86 00 00-0051 EA 26" Diameter Plexiglas Circular Convex Mirrors, Indoor	124.30	16.84
10 86 00 00-0052 EA 30" Diameter Plexiglas Circular Convex Mirrors, Indoor	154.66	19.50
10 86 00 00-0053 EA 36" Diameter Plexiglas Circular Convex Mirrors, Indoor	204.64	23.49
10 86 00 00-0054 EA 48" Diameter Plexiglas Circular Convex Mirrors, Indoor	357.96	33.24
10 86 00 00-0055 EA 18" Diameter Plexiglas Circular Convex Mirrors, Outdoor	106.28	15.51
10 86 00 00-0056 EA 26" Diameter Plexiglas Circular Convex Mirrors, Outdoor	150.80	16.84
10 86 00 00-0057 EA 36" Diameter Plexiglas Circular Convex Mirrors, Outdoor	215.24	23.49
10 86 00 00-0058 EA 48" Diameter Plexiglas Circular Convex Mirrors, Outdoor	389.76	33.24
10 86 00 00-0059 Coated Plexiglas Circular Convex Mirrors <small>(10 86 00 00-0047)</small>		
Note: Indoor models have a tempered hardboard backing. Outdoor models have a waterproof edge and back, rustproof hardware with backed-on enamel finish.		
10 86 00 00-0060 EA 18" Diameter Coated Plexiglas Circular Convex Mirrors, Indoor	126.95	15.51
10 86 00 00-0061 EA 26" Diameter Coated Plexiglas Circular Convex Mirrors, Indoor	196.64	16.84
10 86 00 00-0062 EA 30" Diameter Coated Plexiglas Circular Convex Mirrors, Indoor	262.91	19.50
10 86 00 00-0063 EA 36" Diameter Coated Plexiglas Circular Convex Mirrors, Indoor	327.86	23.49
10 86 00 00-0064 EA 48" Diameter Coated Plexiglas Circular Convex Mirrors, Indoor	475.87	33.24
10 86 00 00-0065 EA 18" Diameter Coated Plexiglas Circular Convex Mirrors, Outdoor	151.20	15.51
10 86 00 00-0066 EA 26" Diameter Coated Plexiglas Circular Convex Mirrors, Outdoor	231.09	16.84
10 86 00 00-0067 EA 30" Diameter Coated Plexiglas Circular Convex Mirrors, Outdoor	319.88	19.50
10 86 00 00-0068 EA 36" Diameter Coated Plexiglas Circular Convex Mirrors, Outdoor	362.31	23.49
10 86 00 00-0069 EA 48" Diameter Coated Plexiglas Circular Convex Mirrors, Outdoor	572.59	33.24

END OF SECTION 10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 Equipment

11 01 Operation And Maintenance Of Equipment ⁽¹¹⁾

11 01 10 Operation And Maintenance Of Vehicle And Pedestrian Equipment ^(11 01)

11 01 10 13 Operation And Maintenance Of Parking Equipment ^(11 01 10)

11 01 10 13-0001 Replacement Parking Equipment ^(11 01 10 13)

11 01 10 13-0002	EA	10' Wood Arm Replacement With Bolts	360.53	
11 01 10 13-0003	EA	12' Wood Arm Replacement With Bolts	378.06	
11 01 10 13-0004	EA	14' Wood Arm Replacement With Bolts	397.95	
11 01 10 13-0005	EA	12' Aluminum Arm Replacement With Bolts	524.42	
11 01 10 13-0006	EA	14' Aluminum Arm Replacement With Bolts	543.14	
11 01 10 13-0007	EA	16' Aluminum Arm Replacement With Bolts	766.75	
11 01 10 13-0008	EA	18' Aluminum Arm Replacement With Bolts	778.86	
11 01 10 13-0009	EA	20' Aluminum Arm Replacement With Bolts	801.07	
11 01 10 13-0010	EA	22' Aluminum Arm Replacement With Bolts	920.09	
11 01 10 13-0011	EA	24' Aluminum Arm Replacement With Bolts	936.08	

11 10 Vehicle And Pedestrian Equipment ⁽¹¹⁾

11 11 Vehicle Service Equipment ^(11 10)

11 11 19 Vehicle Lubrication Equipment ^(11 11)

11 11 19 00-0001 Reels ^(11 11 19)

11 11 19 00-0002	EA	1/4" x 50' Hose, Grease Reel (Alemite 8078-B)	745.35	115.66
11 11 19 00-0003	EA	1/2" x 50' Hose, Oil Reel (Alemite 8078-D)	728.96	115.66
11 11 19 00-0004	EA	3/8" x 50' Hose, Air Or Water Reel (Alemite 8078-F)	649.07	115.66
11 11 19 00-0005	EA	1/2" x 50' Hose, Air Or Water Reel (Alemite 8078-M)	712.88	115.66

11 11 19 00-0006 Air Operated Powered Pumps ^(11 11 19)

Note: Excludes air compressor.

11 11 19 00-0007	EA	1", Oil, Air Operated Diaphragm Pump (Alemite 8323)	1,104.88	154.21
11 11 19 00-0008	EA	1", Antifreeze, Air Operated Diaphragm Pump (Alemite 8325)	1,212.73	154.21
		Note: UL listed.		
11 11 19 00-0009	EA	5:1 Air Operated Oil Pump (Alemite 9968)	995.66	154.21
11 11 19 00-0010	EA	50:1 High Pressure Grease Pump For 400 LB Drum (Alemite 9979-A)	1,071.90	77.11
		Note: Includes pump, drum cover and follower plate.		

11 11 19 00-0011 Pumping Unit Accessories ^(11 11 19)

11 11 19 00-0012	EA	Rigid Extension, Digital Oil Meter (Alemite 3670)	379.85	28.91
11 11 19 00-0013	EA	Flexible Extension, Digital Meter (Alemite 3671)	379.85	28.91
11 11 19 00-0014	EA	Manual, Non-Drip Tip, Flexible, Digital Oil Meter (Alemite 3671-B)	379.85	28.91
11 11 19 00-0015	EA	Grease Control Handle (Alemite 6320-A)	216.21	28.91
11 11 19 00-0016	EA	150 PSI Filter/Regulator (Alemite 7936)	127.15	28.91
11 11 19 00-0017	EA	Z Type Grease Swivel (Alemite B331107)	76.72	9.63
11 11 19 00-0018	EA	Suction Hose Assembly (Parker T605-84)	190.42	38.55
11 11 19 00-0019	EA	Unistrut Reel Brackets	148.02	7.71
11 11 19 00-0020	EA	Large, Diaphragm Pump, Wall Mount Bracket (Alemite 343173)	214.02	28.91

11 11 36 Vehicle Charging Equipment ^(11 11)

11 11 36 13 Commercial Electric Vehicle Charging Unit ^(11 11 36)

11 11 36 13-0001 Electric Vehicle Charging Stations (GE) ^(11 11 36 13)

Note: Available with RFID (Radio Frequency Identification) reader.

11 11 36 13-0002	EA	Single Pedestal Electric Vehicle Charging Station Without RFID (GE EVSN3)	2,523.33	110.27
		Note: 208 to 240 volt, 30 amp, 1 phase.		
11 11 36 13-0003	EA	Double Pedestal Electric Vehicle Charging Station Without RFID (GE EVDN3)	4,443.02	147.02
		Note: 208 to 240 volt, 30 amp, 1 phase.		
11 11 36 13-0004	EA	Single Pedestal Electric Vehicle Charging Station With RFID (GE EVSRN3)	4,604.31	110.27
		Note: 208 to 240 volt, 30 amp, 1 phase.		
11 11 36 13-0005	EA	Double Pedestal Electric Vehicle Charging Station With RFID (GE EVDRN3)	7,832.14	147.02
		Note: 208 to 240 volt, 30 amp, 1 phase.		
11 11 36 13-0006	EA	Single Pole Mounted Electric Vehicle Charging Station Without RFID (GE EVPN3)	2,172.66	55.13
		Note: 208 to 240 volt, 30 amp, 1 phase. Excludes pole.		
11 11 36 13-0007	EA	Single Pole Mounted Electric Vehicle Charging Station With RFID (GE EVPRN3)	4,175.62	55.13
		Note: 208 to 240 volt, 30 amp, 1 phase. Excludes pole.		
11 11 36 13-0008	EA	Single Wall Mounted Electric Vehicle Charging Station Without RFID (GE EVWN3)	2,116.02	73.51
		Note: 208 to 240 volt, 30 amp, 1 phase.		
11 11 36 13-0009	EA	Single Wall Mounted Electric Vehicle Charging Station With RFID (GE EVWRN3)	4,040.96	73.51
		Note: 208 to 240 volt, 30 amp, 1 phase.		

11	11 Equipment
	11 10 Vehicle And Pedestrian Equipment
	11 11 Vehicle Service Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 11 36 13-0010 Electric Vehicle Charging Stations (AeroVironment) <small>(11 11 36 13)</small>		
Note: Can be configured as Level 1 (16 Amps, 120 VAC) or Level 2 (16 Amps, 240 VAC).		
11 11 36 13-0011 EA	Module Electric Vehicle Charging Station (AeroVironment TurboDock Module).....	1,692.20 36.75
Note: Includes charging station only. Excludes mounting bracket or pedestal.		
11 11 36 13-0012 EA	Single Wall Mount Electric Vehicle Charging Station (AeroVironment TurboDock Wall Mount).....	2,432.78 73.51
Note: Includes charging station(s) and wall mounting bracket that can hold up to two charging modules.		
11 11 36 13-0013 EA	Dual Wall Mount Electric Vehicle Charging Station (AeroVironment TurboDock Wall Mount).....	4,051.47 91.89
Note: Includes charging station(s) and wall mounting bracket that can hold up to two charging modules.		
11 11 36 13-0014 EA	Single Pedestal Mount Electric Vehicle Charging Station (AeroVironment TurboDock Pedestal).....	2,579.80 110.27
Note: Includes charging station(s), pedestal and mounting bracket that can hold up to four charging modules.		
11 11 36 13-0015 EA	Dual Pedestal Mount Electric Vehicle Charging Station (AeroVironment TurboDock Pedestal).....	4,198.49 128.65
Note: Includes charging station(s), pedestal and mounting bracket that can hold up to four charging modules.		
11 11 36 13-0016 EA	Triple Pedestal Mount Electric Vehicle Charging Station (AeroVironment TurboDock Pedestal).....	5,817.18 147.02
Note: Includes charging station(s), pedestal and mounting bracket that can hold up to four charging modules.		
11 11 36 13-0017 EA	Quad Pedestal Mount Electric Vehicle Charging Station (AeroVironment TurboDock Pedestal).....	7,435.87 165.40
Note: Includes charging station(s), pedestal and mounting bracket that can hold up to four charging modules.		

11 11 36 13-0018 Electric Vehicle Charging Stations (Leviton) <small>(11 11 36 13)</small>		
11 11 36 13-0019 EA	Single Port, Electric Vehicle Charging Station, Gateway (Leviton evr-green® 4000 CPHG1-000).....	3,105.82 73.51
Note: 208 to 240 volt, 30 amp, 1 phase.		
<i>For Bollard Body (Leviton CPMBX-000), Add</i> 1,986.30		
<i>For Bollard Cap (Leviton CPCAP-B), Add</i> 182.54		
<i>For Wall Mounting Body (Leviton CPME-X-000), Add</i> 1,372.81		
<i>For Wall Mounting Cap (Leviton CPCAP-W), Add</i> 182.54		
<i>For Cord Management Kit (Leviton CPCBX-000), Add</i> 1,251.84		
11 11 36 13-0020 EA	Single Port, Electric Vehicle Charging Station, Non-Gateway LAN (Leviton evr-green® 4000 CPHD1-000).....	2,481.39 73.51
Note: 208 to 240 volt, 30 amp, 1 phase.		
<i>For Bollard Body (Leviton CPMBX-000), Add</i> 1,986.30		
<i>For Bollard Cap (Leviton CPCAP-B), Add</i> 182.54		
<i>For Wall Mounting Body (Leviton CPME-X-000), Add</i> 1,372.81		
<i>For Wall Mounting Cap (Leviton CPCAP-W), Add</i> 182.54		
<i>For Cord Management Kit (Leviton CPCBX-000), Add</i> 1,251.84		
11 11 36 13-0021 EA	Dual Port, Electric Vehicle Charging Station, Gateway (Leviton evr-green® 4000 CPHG2-000).....	6,089.77 91.89
Note: 208 to 240 volt, 30 amp, 1 phase.		
<i>For Bollard Body (Leviton CPMBX-000), Add</i> 1,986.30		
<i>For Bollard Cap (Leviton CPCAP-B), Add</i> 182.54		
<i>For Wall Mounting Body (Leviton CPME-X-000), Add</i> 1,372.81		
<i>For Wall Mounting Cap (Leviton CPCAP-W), Add</i> 182.54		
<i>For Cord Management Kit (Leviton CPCBX-000), Add</i> 1,251.84		
11 11 36 13-0022 EA	Dual Port, Electric Vehicle Charging Station, Gateway (Leviton evr-green® 4000 CPHD2-000).....	5,463.31 91.89
Note: 208 to 240 volt, 30 amp, 1 phase.		
<i>For Bollard Body (Leviton CPMBX-000), Add</i> 1,986.30		
<i>For Bollard Cap (Leviton CPCAP-B), Add</i> 182.54		
<i>For Wall Mounting Body (Leviton CPME-X-000), Add</i> 1,372.81		
<i>For Wall Mounting Cap (Leviton CPCAP-W), Add</i> 182.54		
<i>For Cord Management Kit (Leviton CPCBX-000), Add</i> 1,251.84		
11 11 36 13-0023 EA	Bollard Mounting Body For Charging Station (Leviton CPMBX-000).....	2,280.34 110.27
<i>For Cap, Add</i> 182.54		
11 11 36 13-0024 EA	Wall Mounting Body For Charging Station (Leviton CPME-X-000).....	1,666.85 110.27
<i>For Cap, Add</i> 182.54		
11 11 36 13-0025 EA	Cord Management Kit For Charging Station (Leviton CPCBX-000).....	1,398.86 73.51
<i>For Cap, Add</i> 182.54		

11 12 Parking Control Equipment (11 10)

11 12 13 Parking Key and Card Control Units <small>(11 12)</small>		
11 12 13 00-0001 EA	Card Access Control System, Surface Mounted.....	920.48 59.40
Note: Entracomp 26SA-SM.		
11 12 13 00-0002 EA	Card Access Control System, Flush Mounted.....	1,021.39 59.40
Note: Entracomp 26SA-FM.		
11 12 13 00-0003 EA	Card Access Control System, Flush Mounted.....	1,174.83 59.40
Note: Entracomp 26SA-MH.		

11 12 16 Parking Ticket Dispensers (11 12)

11 12 16 00-0001 Parking Ticket Dispensers <small>(11 12 16)</small>		
11 12 16 00-0002 EA	Standard Parking Ticket Dispenser With Time/Date Stamp.....	6,730.96 142.57
11 12 16 00-0003 EA	Rate Computing Parking Ticket Dispenser With Printer.....	9,042.92 142.57

11 12 23 Parking Meters (11 12)

11 12 23 00-0001 Parking Meters <small>(11 12 23)</small>		
11 12 23 00-0002 EA	Removal Of Parking Meter For Replacement Or Reinstall Existing Meter.....	178.71

11 12 26 Parking Fee Collection Equipment (11 12)

11 12 26 13 Parking Fee Coin Collection Equipment (11 12 26)



Equipment	11
Vehicle And Pedestrian Equipment	11 10
Parking Control Equipment	11 12

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 12 26 13-0001 Parking Fee Collection Equipment ^(11 12 26 13)		
11 12 26 13-0002 EA Multiple Station Slot Box For Parking Fee Collection.....	1,604.64	48.32
11 12 33 Parking Gates ^(11 12)		
11 12 33 13 Lift Arm Parking Gates ^(11 12 33)		
11 12 33 13-0001 Barrier Parking Gate Operators ^(11 12 33 13)		
11 12 33 13-0002 Barrier Parking Gate Operators ^(11 12 33 13-0001)		
Note: Includes operator and barrier arm. Excludes access controls and concrete foundation.		
11 12 33 13-0003 EA 12' Plastic Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator (DKS™ DoorKing® 1601-080).....	3,774.05	197.66
For 230/460 Volt AC, Add	322.50	
11 12 33 13-0004 EA 14' Wood Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator (DKS™ DoorKing® 1601-080).....	3,760.21	197.66
For 230/460 Volt AC, Add	322.50	
11 12 33 13-0005 EA 14' Aluminum Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator (DKS™ DoorKing® 1601-080).....	3,935.58	197.66
For 230/460 Volt AC, Add	322.50	
11 12 33 13-0006 EA 20' Three Piece Wood Arm, 1 HP, 115 Volt AC, Barrier Parking Gate Operator (DKS™ DoorKing® 1602-080).....	5,653.78	197.66
For 230/460 Volt AC, Add	322.50	
11 12 33 13-0007 EA 14' Wood Arm, 1/3 HP, 115 Volt AC, Barrier Parking Gate Operator With Two Built-In Vehicle Detectors (Federal APD G-90 CD).....	5,115.05	197.66
11 12 33 13-0008 EA 14' Aluminum Arm, 1/3 HP, 115 Volt AC, Barrier Parking Gate Operator With Two Built-In Vehicle Detectors (Federal APD G-90 CD).....	5,391.94	197.66
11 12 33 13-0009 Barrier Parking Gate Operators With Tire Shredding Traffic Control Spikes ^(11 12 33 13-0001)		
Note: Includes operator, barrier arm and tire shredding traffic control spikes. Excludes access controls and concrete foundation.		
11 12 33 13-0010 EA 14' Wood Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator With 6' Section, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1603-080).....	11,739.52	395.34
11 12 33 13-0011 EA 14' Wood Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator With 9' Section, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1603-080).....	13,756.85	395.34
11 12 33 13-0012 EA 14' Aluminum Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator With 6' Section, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1603-080).....	11,843.36	395.34
11 12 33 13-0013 EA 14' Aluminum Arm, 1/2 HP, 115 Volt AC, Barrier Parking Gate Operator With 9' Section, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1603-080).....	13,860.68	395.34
11 12 33 13-0014 Barrier Parking Gate Operator Accessories ^(11 12 33 13-0001)		
11 12 33 13-0015 EA 12' Plastic Replacement Arm For Barrier Parking Gate Operators.....	154.23	19.42
11 12 33 13-0016 EA 14' Wood Replacement Arm For Barrier Parking Gate Operators.....	140.39	19.42
11 12 33 13-0017 EA 14' Aluminum Replacement Arm For Barrier Parking Gate Operators.....	315.75	19.42
11 12 33 13-0018 EA 20' Three Piece Wood Replacement Arm For Barrier Parking Gate Operators.....	471.51	19.42
11 12 33 13-0019 EA Folding Wood Replacement Arm For Barrier Parking Gate Operators.....	431.13	19.42
11 12 33 13-0020 EA Folding Plastic Replacement Arm For Barrier Parking Gate Operators.....	431.13	19.42
11 12 33 13-0021 EA Folding Aluminum Replacement Arm For Barrier Parking Gate Operators.....	523.42	19.42
11 12 33 13-0022 EA Heater Kit For Barrier Parking Gate Operators (DKS™ DoorKing® 1601-092).....	492.73	116.58
11 12 33 13-0023 EA Fan Kit For Barrier Parking Gate Operators (DKS™ DoorKing® 1601-093).....	492.73	116.58
11 12 33 13-0024 EA Single Channel Detector Loop For Barrier Parking Gate Operators (DKS™ DoorKing® 9410-010).....	502.17	
11 12 33 13-0025 EA Two Channel Detector Loop For Barrier Parking Gate Operators (Federal APD DLD-10B).....	1,132.41	
11 12 33 13-0026 EA 36" Tall, Gooseneck Style, Single Mount, 2" x 2" Steel, Exterior Mounting Post For Gate Operator Access Controls (Federal APD).....	646.44	19.42
Note: Includes mounting plate and hardware. Excludes concrete foundation.		
11 12 36 Tire Shredders ^(11 12)		
11 12 36 00-0001 Tire Shredding Traffic Control Spikes ^(11 12 36)		
11 12 36 00-0002 Flush Mount, Tire Shredding Traffic Control Spikes ^(11 12 36 00-0001)		
11 12 36 00-0003 EA 6' Section, Flush Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1610-081).....	1,868.39	310.86
11 12 36 00-0004 Surface Mount, Tire Shredding Traffic Control Spikes ^(11 12 36 00-0001)		
11 12 36 00-0005 EA 3' Section With End Caps, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1610-088).....	3,270.49	155.43
11 12 36 00-0006 EA 3' Add-On Section, Surface Mount, Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1610-087).....	2,347.51	155.43
11 12 36 00-0007 Warning Signs And Signals For Tire Shredding Traffic Control Spikes ^(11 12 36 00-0001)		
11 12 36 00-0008 EA Warning Sign For Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1615).....	1,466.44	58.28
Note: Includes light and mounting post.		
11 12 36 00-0009 EA Traffic Light Assembly For Tire Shredding Traffic Control Spikes (DKS™ DoorKing® 1603).....	1,205.32	77.72
Note: Includes mounting post and hardware.		
11 13 Loading Dock Equipment ^(11 10)		
11 13 13 Loading Dock Bumpers ^(11 13)		
11 13 13 00-0001 Laminated Rubber Dock Bumpers ^(11 13 13)		

11	11 Equipment
	11 10 Vehicle And Pedestrian Equipment
	11 13 Loading Dock Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 13 13 00-0002	4-1/2" Projection, Laminated Rubber Dock Bumpers <small>(11 13 13 00-0001)</small>		
11 13 13 00-0003	EA 14" x 6", 4-1/2" Projection, Laminated Rubber Dock Bumper	107.39	17.72
11 13 13 00-0004	EA 24" x 6", 4-1/2" Projection, Laminated Rubber Dock Bumper	134.05	17.72
11 13 13 00-0005	EA 36" x 6", 4-1/2" Projection, Laminated Rubber Dock Bumper	171.67	17.72
11 13 13 00-0006	EA 12" x 10", 4-1/2" Projection, Laminated Rubber Dock Bumper	118.75	17.72
11 13 13 00-0007	EA 14" x 10", 4-1/2" Projection, Laminated Rubber Dock Bumper	128.17	17.72
11 13 13 00-0008	EA 18" x 10", 4-1/2" Projection, Laminated Rubber Dock Bumper	145.02	17.72
11 13 13 00-0009	EA 24" x 10", 4-1/2" Projection, Laminated Rubber Dock Bumper	171.67	17.72
11 13 13 00-0010	EA 36" x 10", 4-1/2" Projection, Laminated Rubber Dock Bumper	231.86	17.72
11 13 13 00-0011	EA 12" x 12", 4-1/2" Projection, Laminated Rubber Dock Bumper	133.80	17.72
11 13 13 00-0012	EA 12" x 14", 4-1/2" Projection, Laminated Rubber Dock Bumper	145.02	17.72
11 13 13 00-0013	EA 12" x 18", 4-1/2" Projection, Laminated Rubber Dock Bumper	177.03	17.72
11 13 13 00-0014	EA 12" x 24", 4-1/2" Projection, Laminated Rubber Dock Bumper	199.73	17.72
11 13 13 00-0015	EA 12" x 36", 4-1/2" Projection, Laminated Rubber Dock Bumper	273.43	17.72
11 13 13 00-0016	EA 11" x 20", 4-1/2" Projection, Laminated Rubber Dock Bumper	163.76	17.72
11 13 13 00-0017	EA 11" x 24", 4-1/2" Projection, Laminated Rubber Dock Bumper	190.16	17.72
11 13 13 00-0018	EA 11" x 36", 4-1/2" Projection, Laminated Rubber Dock Bumper	246.40	17.72

11 13 13 00-0019	6" Projection, Laminated Rubber Dock Bumpers <small>(11 13 13 00-0001)</small>		
11 13 13 00-0020	EA 12" x 10", 6" Projection, Laminated Rubber Dock Bumper	151.09	17.72
11 13 13 00-0021	EA 14" x 10", 6" Projection, Laminated Rubber Dock Bumper	160.40	17.72
11 13 13 00-0022	EA 18" x 10", 6" Projection, Laminated Rubber Dock Bumper	182.84	17.72
11 13 13 00-0023	EA 24" x 10", 6" Projection, Laminated Rubber Dock Bumper	217.02	17.72
11 13 13 00-0024	EA 36" x 10", 6" Projection, Laminated Rubber Dock Bumper	292.64	17.72
11 13 13 00-0025	EA 12" x 12", 6" Projection, Laminated Rubber Dock Bumper	171.75	17.72
11 13 13 00-0026	EA 14" x 12", 6" Projection, Laminated Rubber Dock Bumper	179.40	17.72
11 13 13 00-0027	EA 18" x 12", 6" Projection, Laminated Rubber Dock Bumper	209.75	17.72
11 13 13 00-0028	EA 24" x 12", 6" Projection, Laminated Rubber Dock Bumper	255.02	17.72
11 13 13 00-0029	EA 36" x 12", 6" Projection, Laminated Rubber Dock Bumper	381.78	17.72
11 13 13 00-0030	EA 11" x 20", 6" Projection, Laminated Rubber Dock Bumper	217.15	17.72
11 13 13 00-0031	EA 11" x 24", 6" Projection, Laminated Rubber Dock Bumper	247.50	17.72
11 13 13 00-0032	EA 11" x 36", 6" Projection, Laminated Rubber Dock Bumper	251.54	17.72

11 13 13 00-0033	Extruded Rubber Dock Bumpers <small>(11 13 13)</small>		
11 13 13 00-0034	1-3/4" Projection, Extruded Rubber Dock Bumpers <small>(11 13 13 00-0033)</small>		
11 13 13 00-0035	EA 12" x 2", 1-3/4" Projection, Extruded Rubber Dock Bumper	57.92	17.72
11 13 13 00-0036	EA 18" x 2", 1-3/4" Projection, Extruded Rubber Dock Bumper	61.66	17.72
11 13 13 00-0037	EA 24" x 2", 1-3/4" Projection, Extruded Rubber Dock Bumper	66.66	17.72
11 13 13 00-0038	EA 36" x 2", 1-3/4" Projection, Extruded Rubber Dock Bumper	71.66	17.72

11 13 13 00-0039	4" Projection, Extruded Rubber Dock Bumpers <small>(11 13 13 00-0033)</small>		
11 13 13 00-0040	EA 12" x 4-1/2", 4" Projection, Extruded Rubber Dock Bumper	77.52	17.72
11 13 13 00-0041	EA 18" x 4-1/2", 4" Projection, Extruded Rubber Dock Bumper	93.28	17.72
11 13 13 00-0042	EA 24" x 4-1/2", 4" Projection, Extruded Rubber Dock Bumper	97.82	17.72
11 13 13 00-0043	EA 36" x 4-1/2", 4" Projection, Extruded Rubber Dock Bumper	108.16	17.72

11 13 13 00-0044	6" Projection, Extruded Rubber Dock Bumpers <small>(11 13 13 00-0033)</small>		
11 13 13 00-0045	EA 12" x 6", 6" Projection, Extruded Rubber Dock Bumper	94.40	17.72
11 13 13 00-0046	EA 18" x 6", 6" Projection, Extruded Rubber Dock Bumper	115.65	17.72
11 13 13 00-0047	EA 24" x 6", 6" Projection, Extruded Rubber Dock Bumper	133.14	17.72
11 13 13 00-0048	EA 36" x 6", 6" Projection, Extruded Rubber Dock Bumper	166.53	17.72

11 13 13 00-0049	Molded Rubber Dock Bumpers <small>(11 13 13)</small>		
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11 13 13 00-0050	Rectangular Molded Rubber Dock Bumpers <small>(11 13 13 00-0049)</small>		
11 13 13 00-0051	EA 18" x 8", 2" Projection, Rectangular Molded Rubber Dock Bumper	82.15	17.72
11 13 13 00-0052	EA 10" x 4-1/2", 3" Projection, Rectangular Molded Rubber Dock Bumper	72.50	17.72
11 13 13 00-0053	EA 20" x 4-1/2", 3" Projection, Rectangular Molded Rubber Dock Bumper	94.52	17.72
11 13 13 00-0054	EA 30" x 4-1/2", 3" Projection, Rectangular Molded Rubber Dock Bumper	116.73	17.72
11 13 13 00-0055	EA 24" x 12", 3" Projection, Rectangular Molded Rubber Dock Bumper	121.98	17.72
11 13 13 00-0056	EA 13" x 10", 4" Projection, Rectangular Molded Rubber Dock Bumper	91.99	17.72
11 13 13 00-0057	EA 18" x 10", 4" Projection, Rectangular Molded Rubber Dock Bumper	117.61	17.72
11 13 13 00-0058	EA 30" x 10", 4" Projection, Rectangular Molded Rubber Dock Bumper	170.36	17.72
11 13 13 00-0059	EA 13" x 12", 4" Projection, Rectangular Molded Rubber Dock Bumper	99.66	17.72
11 13 13 00-0060	EA 24" x 12", 4" Projection, Rectangular Molded Rubber Dock Bumper	146.51	17.72
11 13 13 00-0061	EA 18" x 18", 4" Projection, Rectangular Molded Rubber Dock Bumper	146.05	17.72
11 13 13 00-0062	EA 24" x 12", 6" Projection, Rectangular Molded Rubber Dock Bumper	220.37	17.72

11 13 13 00-0063	T And L Shaped Rubber Dock Bumpers <small>(11 13 13 00-0049)</small>		
11 13 13 00-0064	EA 22" x 22", 3" Projection, T Shaped Molded Rubber Dock Bumper	138.83	17.72
11 13 13 00-0065	EA 18" x 18", 4" Projection, L Shaped Molded Rubber Dock Bumper	128.76	17.72



Equipment	11
Vehicle And Pedestrian Equipment	11 10
Loading Dock Equipment	11 13

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 13 16 Loading Dock Seals And Shelters (11 13)

11 13 16 13 Loading Dock Seals (11 13 16)

11 13 16 13-0001 Vinyl Loading Dock Seals (11 13 16 13)

11 13 16 13-0002 Standard Vinyl Loading Dock Seals (11 13 16 13-0001)

11 13 16 13-0003	LF	10" Projection, Standard, Vinyl Loading Dock Seal.....	74.30	17.72
11 13 16 13-0004	LF	11" Projection, Standard, Vinyl Loading Dock Seal.....	75.26	17.72
11 13 16 13-0005	LF	12" Projection, Standard, Vinyl Loading Dock Seal.....	76.22	17.72
11 13 16 13-0006	LF	13" Projection, Standard, Vinyl Loading Dock Seal.....	78.13	17.72
11 13 16 13-0007	LF	14" Projection, Standard, Vinyl Loading Dock Seal.....	80.04	17.72
11 13 16 13-0008	LF	15" Projection, Standard, Vinyl Loading Dock Seal.....	81.98	17.72
11 13 16 13-0009	LF	16" Projection, Standard, Vinyl Loading Dock Seal.....	83.92	17.72
11 13 16 13-0010	LF	17" Projection, Standard, Vinyl Loading Dock Seal.....	85.91	17.72
11 13 16 13-0011	LF	18" Projection, Standard, Vinyl Loading Dock Seal.....	87.91	17.72
11 13 16 13-0012	LF	19" Projection, Standard, Vinyl Loading Dock Seal.....	89.82	17.72
11 13 16 13-0013	LF	20" Projection, Standard, Vinyl Loading Dock Seal.....	91.73	17.72
11 13 16 13-0014	LF	22" Projection, Standard, Vinyl Loading Dock Seal.....	95.61	17.72

11 13 16 13-0015 8" Exposure Wear Pleats, Vinyl Loading Dock Seals (11 13 16 13-0001)

11 13 16 13-0016	LF	10" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	85.67	17.72
11 13 16 13-0017	LF	11" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	86.63	17.72
11 13 16 13-0018	LF	12" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	87.59	17.72
11 13 16 13-0019	LF	13" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	89.53	17.72
11 13 16 13-0020	LF	14" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	91.47	17.72
11 13 16 13-0021	LF	15" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	93.38	17.72
11 13 16 13-0022	LF	16" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	95.29	17.72
11 13 16 13-0023	LF	17" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	97.23	17.72
11 13 16 13-0024	LF	18" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	99.17	17.72
11 13 16 13-0025	LF	19" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	101.08	17.72
11 13 16 13-0026	LF	20" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	103.05	17.72
11 13 16 13-0027	LF	22" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	106.87	17.72

11 13 16 13-0028 4" Exposure Wear Pleats, Vinyl Loading Dock Seals (11 13 16 13-0001)

11 13 16 13-0029	LF	10" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	91.73	17.72
11 13 16 13-0030	LF	11" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	92.71	17.72
11 13 16 13-0031	LF	12" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	93.70	17.72
11 13 16 13-0032	LF	13" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	95.61	17.72
11 13 16 13-0033	LF	14" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	97.52	17.72
11 13 16 13-0034	LF	15" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	99.46	17.72
11 13 16 13-0035	LF	16" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	101.40	17.72
11 13 16 13-0036	LF	17" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	103.31	17.72
11 13 16 13-0037	LF	18" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	105.23	17.72
11 13 16 13-0038	LF	19" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	107.17	17.72
11 13 16 13-0039	LF	20" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	109.11	17.72
11 13 16 13-0040	LF	22" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal.....	113.04	17.72

11 13 16 13-0041 Vinyl Loading Dock Seals With Drape Curtain (11 13 16 13)

11 13 16 13-0042 Standard, Vinyl Loading Dock Seals With Drape Curtain (11 13 16 13-0041)

11 13 16 13-0043	LF	10" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain.....	69.24	17.72
11 13 16 13-0044	LF	12" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain.....	70.74	17.72
11 13 16 13-0045	LF	14" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain.....	74.07	17.72
11 13 16 13-0046	LF	16" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain.....	77.35	17.72
11 13 16 13-0047	LF	18" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain.....	80.72	17.72
11 13 16 13-0048	LF	20" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain.....	84.00	17.72
11 13 16 13-0049	LF	22" Projection, Standard, Vinyl Loading Dock Seal With Drape Curtain.....	87.32	17.72

11 13 16 13-0050 8" Exposure Wear Pleats, Vinyl Loading Dock Seals With Drape Curtain (11 13 16 13-0041)

11 13 16 13-0051	LF	10" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	79.99	17.72
11 13 16 13-0052	LF	12" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	81.54	17.72
11 13 16 13-0053	LF	14" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	84.86	17.72
11 13 16 13-0054	LF	16" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	88.19	17.72
11 13 16 13-0055	LF	18" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	91.47	17.72
11 13 16 13-0056	LF	20" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	94.79	17.72
11 13 16 13-0057	LF	22" Projection, 8" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	98.07	17.72

11 13 16 13-0058 4" Exposure Wear Pleats, Vinyl Loading Dock Seals With Drape Curtain (11 13 16 13-0041)

11 13 16 13-0059	LF	10" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	85.82	17.72
11 13 16 13-0060	LF	12" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	87.32	17.72
11 13 16 13-0061	LF	14" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	90.69	17.72
11 13 16 13-0062	LF	16" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	93.97	17.72
11 13 16 13-0063	LF	18" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	97.30	17.72
11 13 16 13-0064	LF	20" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drape Curtain.....	100.57	17.72

11	11	Equipment
	11 10	Vehicle And Pedestrian Equipment
	11 13	Loading Dock Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 13 16 13-0065	LF		22" Projection, 4" Exposure Wear Pleats, Vinyl Loading Dock Seal With Drap	103.94	17.72
11 13 16 23 Loading Dock Shelters (11 13 16)					
11 13 16 23-0001			Retractable Vinyl Loading Dock Shelter (11 13 16 23)		
11 13 16 23-0002	LF		Retractable Vinyl Dock Shelters, Scissor Arms	115.85	22.15
11 13 16 23-0003			Rigid Loading Dock Shelters (11 13 16 23)		
11 13 16 23-0004	LF		18" Projection, Rigid Loading Dock Shelter	87.25	21.27
11 13 16 23-0005	LF		24" Projection, Rigid Loading Dock Shelter	90.78	21.27
11 13 16 23-0006	LF		30" Projection, Rigid Loading Dock Shelter	94.30	22.15
11 13 16 23-0007	LF		36" Projection, Rigid Loading Dock Shelter	96.73	22.15
11 13 19 Stationary Loading Dock Equipment (11 13)					
Note: Includes all anchor bolts and fasteners.					
11 13 19 13 Loading Dock Levelers (11 13 19)					
11 13 19 13-0001			Hydraulic Dock Levelers (11 13 19 13)		
Note: Excludes control panel, remote operator, and electrical wiring.					
11 13 19 13-0002			20,000 LB Hydraulic Dock Levelers (11 13 19 13-0001)		
11 13 19 13-0003	EA		6' x 6', 20,000 LB Hydraulic Dock Leveler	7,617.61	763.80
11 13 19 13-0004	EA		6' x 8', 20,000 LB Hydraulic Dock Leveler	8,142.65	848.67
11 13 19 13-0005	EA		6' x 10', 20,000 LB Hydraulic Dock Leveler	9,984.08	1,018.40
11 13 19 13-0006	EA		7' x 6', 20,000 LB Hydraulic Dock Leveler	8,105.86	848.67
11 13 19 13-0007	EA		7' x 8', 20,000 LB Hydraulic Dock Leveler	8,809.98	933.53
11 13 19 13-0008	EA		7' x 10', 20,000 LB Hydraulic Dock Leveler	10,565.59	1,103.27
11 13 19 13-0009			25,000 LB Hydraulic Dock Levelers (11 13 19 13-0001)		
11 13 19 13-0010	EA		6' x 6', 25,000 LB Hydraulic Dock Leveler	7,777.50	763.80
11 13 19 13-0011	EA		6' x 8', 25,000 LB Hydraulic Dock Leveler	8,308.44	848.67
11 13 19 13-0012	EA		6' x 10', 25,000 LB Hydraulic Dock Leveler	10,139.42	1,018.40
11 13 19 13-0013	EA		7' x 6', 25,000 LB Hydraulic Dock Leveler	8,262.61	848.67
11 13 19 13-0014	EA		7' x 8', 25,000 LB Hydraulic Dock Leveler	8,955.28	933.53
11 13 19 13-0015	EA		7' x 10', 25,000 LB Hydraulic Dock Leveler	10,870.05	1,103.27
11 13 19 13-0016			30,000 LB Hydraulic Dock Levelers (11 13 19 13-0001)		
11 13 19 13-0017	EA		6' x 6', 30,000 LB Hydraulic Dock Leveler	8,138.02	891.10
11 13 19 13-0018	EA		6' x 8', 30,000 LB Hydraulic Dock Leveler	8,654.55	1,018.40
11 13 19 13-0019	EA		6' x 10', 30,000 LB Hydraulic Dock Leveler	10,550.87	1,188.13
11 13 19 13-0020	EA		7' x 6', 30,000 LB Hydraulic Dock Leveler	8,654.55	1,018.40
11 13 19 13-0021	EA		7' x 8', 30,000 LB Hydraulic Dock Leveler	9,323.24	1,145.70
11 13 19 13-0022	EA		7' x 10', 30,000 LB Hydraulic Dock Leveler	11,219.57	1,230.57
11 13 19 13-0023			35,000 LB Hydraulic Dock Levelers (11 13 19 13-0001)		
11 13 19 13-0024	EA		6' x 6', 35,000 LB Hydraulic Dock Leveler	8,423.67	933.53
11 13 19 13-0025	EA		6' x 8', 35,000 LB Hydraulic Dock Leveler	8,941.45	1,060.83
11 13 19 13-0026	EA		6' x 10', 35,000 LB Hydraulic Dock Leveler	10,048.69	1,230.57
11 13 19 13-0027	EA		7' x 6', 35,000 LB Hydraulic Dock Leveler	8,941.45	1,060.83
11 13 19 13-0028	EA		7' x 8', 35,000 LB Hydraulic Dock Leveler	9,707.33	1,188.13
11 13 19 13-0029	EA		7' x 10', 35,000 LB Hydraulic Dock Leveler	11,640.99	1,273.00
11 13 19 13-0030			40,000 LB Hydraulic Dock Levelers (11 13 19 13-0001)		
11 13 19 13-0031	EA		6' x 6', 40,000 LB Hydraulic Dock Leveler	8,929.40	933.53
11 13 19 13-0032	EA		6' x 8', 40,000 LB Hydraulic Dock Leveler	9,446.56	1,060.83
11 13 19 13-0033	EA		6' x 10', 40,000 LB Hydraulic Dock Leveler	11,369.02	1,230.57
11 13 19 13-0034	EA		7' x 6', 40,000 LB Hydraulic Dock Leveler	9,446.56	1,060.83
11 13 19 13-0035	EA		7' x 8', 40,000 LB Hydraulic Dock Leveler	10,213.19	1,188.13
11 13 19 13-0036	EA		7' x 10', 40,000 LB Hydraulic Dock Leveler	12,146.59	1,273.00
11 13 19 13-0037			45,000 LB Hydraulic Dock Levelers (11 13 19 13-0001)		
11 13 19 13-0038	EA		6' x 6', 45,000 LB Hydraulic Dock Leveler	9,345.33	975.97
11 13 19 13-0039	EA		6' x 8', 45,000 LB Hydraulic Dock Leveler	9,870.33	1,103.27
11 13 19 13-0040	EA		6' x 10', 45,000 LB Hydraulic Dock Leveler	11,783.64	1,273.00
11 13 19 13-0041	EA		7' x 6', 45,000 LB Hydraulic Dock Leveler	9,871.60	1,103.27
11 13 19 13-0042	EA		7' x 8', 45,000 LB Hydraulic Dock Leveler	10,632.37	1,230.57
11 13 19 13-0043	EA		7' x 10', 45,000 LB Hydraulic Dock Leveler	12,554.16	1,315.43
11 13 19 13-0044			Manual Dock Levelers (11 13 19 13)		
11 13 19 13-0045			20,000 LB Manual Dock Levelers (11 13 19 13-0044)		



Equipment	11	
Vehicle And Pedestrian Equipment	11 10	11
Loading Dock Equipment	11 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 13 19 13-0046 EA 6' x 6', 20,000 LB Manual Dock Leveler.....	5,971.62	763.80
11 13 19 13-0047 EA 6' x 8', 20,000 LB Manual Dock Leveler.....	6,507.06	848.67
11 13 19 13-0048 EA 6' x 10', 20,000 LB Manual Dock Leveler.....	8,338.09	1,018.40
11 13 19 13-0049 EA 7' x 6', 20,000 LB Manual Dock Leveler.....	6,461.35	848.67
11 13 19 13-0050 EA 7' x 8', 20,000 LB Manual Dock Leveler.....	7,164.00	933.53
11 13 19 13-0051 EA 7' x 10', 20,000 LB Manual Dock Leveler.....	9,087.46	1,018.40
11 13 19 13-0052 40,000 LB Manual Dock Levelers (11 13 19 13-0044)		
11 13 19 13-0053 EA 6' x 6', 40,000 LB Manual Dock Leveler.....	7,428.99	848.67
11 13 19 13-0054 EA 6' x 8', 40,000 LB Manual Dock Leveler.....	7,946.16	933.53
11 13 19 13-0055 EA 6' x 10', 40,000 LB Manual Dock Leveler.....	8,594.01	1,103.27
11 13 19 13-0056 EA 7' x 6', 40,000 LB Manual Dock Leveler.....	7,946.16	933.53
11 13 19 13-0057 EA 7' x 8', 40,000 LB Manual Dock Leveler.....	9,052.98	1,018.40
11 13 19 13-0058 EA 7' x 10', 40,000 LB Manual Dock Leveler.....	10,646.18	1,188.13
11 13 19 13-0059 Edge-Of-Dock Levelers (11 13 19 13)		
Note: Mounted on face of dock, single torsion bar counter balance, includes bumpers.		
11 13 19 13-0060 Hydraulic Edge-Of-Dock Levelers (11 13 19 13-0059)		
Note: Excludes control panel, remote operator, and electrical wiring.		
11 13 19 13-0061 EA 66" Usable Width, 20,000 LB Edge-Of-Dock Leveler, Hydraulic.....	3,153.05	254.60
11 13 19 13-0062 EA 72" Usable Width, 20,000 LB Edge-Of-Dock Leveler, Hydraulic.....	3,407.09	254.60
11 13 19 13-0063 EA 66" Usable Width, 25,000 LB Edge-Of-Dock Leveler, Hydraulic.....	3,370.33	254.60
11 13 19 13-0064 EA 72" Usable Width, 25,000 LB Edge-Of-Dock Leveler, Hydraulic.....	3,719.08	254.60
11 13 19 13-0065 Manual Edge-Of-Dock Levelers (11 13 19 13-0059)		
11 13 19 13-0066 EA 66" Usable Width, 20,000 LB Edge-Of-Dock Leveler, Manual.....	1,533.79	254.60
11 13 19 13-0067 EA 72" Usable Width, 20,000 LB Edge-Of-Dock Leveler, Manual.....	1,686.83	254.60
11 13 19 13-0068 EA 66" Usable Width, 25,000 LB Edge-Of-Dock Leveler, Manual.....	1,733.64	254.60
11 13 19 13-0069 EA 72" Usable Width, 25,000 LB Edge-Of-Dock Leveler, Manual.....	1,848.41	254.60
11 13 19 23 Stationary Loading Dock Lifts (11 13 19)		
11 13 19 23-0001 Top Of Ground, Fixed Platform Lifts (11 13 19 23)		
11 13 19 23-0002 EA 6' x 8', 5,500 LB Top Of Ground, Fixed Platform Lift.....	13,162.43	178.27
11 13 19 23-0003 Pit Mounted, Fixed Platform Lifts (11 13 19 23)		
11 13 19 23-0004 EA 6' x 8', 5,000 LB Fixed Platform Lift, Pit Mounted.....	8,876.34	178.27
11 13 19 23-0005 EA 6' x 8', 8,000 LB Fixed Platform Lift, Pit Mounted.....	16,325.36	267.40
11 13 19 23-0006 EA 7' x 12', 15,000 LB Fixed Platform Lift, Pit Mounted.....	28,801.85	534.80
11 13 19 23-0007 EA 8' x 20', 15,000 LB Fixed Platform Lift, Pit Mounted.....	30,118.71	713.07
11 13 19 26 Loading Dock Truck Lifts (11 13 19)		
11 13 19 26-0001 Hydraulic Truck Lifts (11 13 19 26)		
11 13 19 26-0002 EA 10' x 15', 60,000 LB Platform Truck Lift.....	27,044.79	1,448.28
11 13 19 26-0003 EA 10' x 20', 60,000 LB Platform Truck Lift.....	30,939.70	1,737.94
11 13 19 33 Loading Dock Truck Restraints (11 13 19)		
11 13 19 33-0001 Truck Restraint System (11 13 19 33)		
11 13 19 33-0002 EA Truck Restraint System (Poweramp Powerstop AAL).....	6,318.92	318.25
Note: Includes push button controls, warning lights, alarms, 30,000 LB holding force, all mounting plates, bolts, welds, warning signs, gasketed weatherproof box for controls, 120 V UL listed.		
11 13 19 33-0003 EA Rotating Hook Truck Restraint System (Kelley Star 4).....	5,936.85	318.25
Note: Includes push button controls, warning lights, alarms, 32,000 LB holding force, all mounting plates, bolts, welds, warning signs, gasketed weatherproof box for controls, 120 V UL listed.		
11 13 23 Portable Dock Equipment (11 13)		
11 13 23 23 Portable Dock Platforms (11 13 23)		
11 13 23 23-0001 EA 6' x 6', 5,000 LB Capacity Portable Platform Lift.....	14,280.00	97.14
11 13 26 Loading Dock Lights (11 13)		
11 13 26 00-0001 Communication Lights (11 13 26)		
11 13 26 00-0002 EA Console Controlled, Dock Communication Light, Stop And Go Red Light Style, 12 Or 24 Volt DC Or 115 Volt AC.....	236.50	59.40
Note: Excludes control console.		
11 13 26 00-0003 EA Toggle Switch Controlled, Dock Communication Light, Stop And Go Red Light Style, With Solid State Flasher, 12 Or 24 Volt DC Or 115 Volt AC.....	293.12	59.40
11 13 26 00-0004 EA Dock Guide Light For Truck Backing.....	130.97	47.52

11	11	Equipment
	11 10	Vehicle And Pedestrian Equipment
	11 13	Loading Dock Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 13 26 00-0005 Communication Lights Controls <small>(11 13 26)</small>		
11 13 26 00-0006 EA Dock Communication Lights Control Console For Up To Two Docks	255.47	79.20
11 13 26 00-0007 Loading Dock Lights <small>(11 13 26)</small>		
11 13 26 00-0008 Incandescent Loading Dock Lights <small>(11 13 26 00-0007)</small>		
11 13 26 00-0009 EA 24" Long, Single Arm Loading Dock Light, 300W Incandescent	332.20	79.20
11 13 26 00-0010 EA 40" Long, Dual Arm Loading Dock Light, 300W Incandescent	292.39	79.20
11 13 26 00-0011 EA 60" Long, Dual Arm Loading Dock Light, 300W Incandescent	392.82	79.20
11 13 26 00-0012 Metal Halide Loading Dock Lights <small>(11 13 26 00-0007)</small>		
11 13 26 00-0013 EA 24" Long, Single Arm Loading Dock Light, 100W Metal Halide	469.81	79.20
11 13 26 00-0014 EA 40" Long, Dual Arm Loading Dock Light, 100W Metal Halide	516.99	79.20
11 13 26 00-0015 EA 60" Long, Dual Arm Loading Dock Light, 100W Metal Halide	554.73	79.20
11 13 26 00-0016 Quartz Halogen Loading Dock Lights <small>(11 13 26 00-0007)</small>		
11 13 26 00-0017 EA 24" Long, Single Arm Loading Dock Light, 500W Quartz Halogen	287.08	79.20
11 13 26 00-0018 EA 40" Long, Dual Arm Loading Dock Light, 500W Quartz Halogen	316.93	79.20
11 13 26 00-0019 EA 60" Long, Dual Arm Loading Dock Light, 500W Quartz Halogen	342.41	79.20
11 14 Pedestrian Control Equipment <small>(11 10)</small>		
11 14 13 Pedestrian Gates <small>(11 14)</small>		
11 14 13 16 Rotary Gates <small>(11 14 13)</small>		
11 14 13 16-0001 Access Control Indoor Or Outdoor Impenetrability <small>(11 14 13 16)</small>		
11 14 13 16-0002 Mechanical <small>(11 14 13 16-0001)</small>		
11 14 13 16-0003 Galvanized Steel <small>(11 14 13 16-0002)</small>		
11 14 13 16-0004 EA One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Galvanized Steel	7,573.53	1,070.99
11 14 13 16-0005 EA One-Way, Single 7' High Exit Rotary Gate, 4 Rotor Sections, Galvanized Steel	8,512.15	1,070.99
11 14 13 16-0006 EA One-Way, "Handicapped" 7' High Exit Rotary Gate, 4 Rotor Sections, Galvanized Steel	16,805.91	1,597.87
11 14 13 16-0007 EA One-Way, Double 7' High Exit Rotary Gate, 3 Or 4 Rotor Sections, Galvanized Steel	16,288.29	1,597.87
11 14 13 16-0008 Powder Coated Steel <small>(11 14 13 16-0002)</small>		
11 14 13 16-0009 EA One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Powder Coated Steel	8,524.22	1,070.99
11 14 13 16-0010 EA One-Way, Single 7' High Exit Rotary Gate, 4 Rotor Sections, Powder Coated Steel	9,426.61	1,070.99
11 14 13 16-0011 EA One-Way, "Handicapped" 7' High Exit Rotary Gate, 3 Rotor Sections, Powder Coated Steel	19,758.06	1,597.87
11 14 13 16-0012 EA One-Way, Double 7' High Exit Rotary Gate, 3 Rotor Sections, Powder Coated Steel	17,848.05	1,597.87
11 14 13 16-0013 Anodized Aluminum <small>(11 14 13 16-0002)</small>		
11 14 13 16-0014 EA One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	8,936.60	1,070.99
11 14 13 16-0015 EA One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Complete Anodized Aluminum	15,253.28	1,070.99
11 14 13 16-0016 EA One-Way, Double 7' High Exit Rotary Gate, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms	17,772.13	1,597.87
11 14 13 16-0017 EA One-Way, Double 7' High Exit Rotary Gate, 3 Rotor Sections, Complete Anodized Aluminum	29,670.49	1,597.87
11 14 13 16-0018 Stainless Steel <small>(11 14 13 16-0002)</small>		
11 14 13 16-0019 EA One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Stainless Steel	13,931.63	1,070.99
11 14 13 16-0020 EA One-Way, Single 7' High Exit Rotary Gate, 4 Rotor Sections, Stainless Steel	15,598.36	1,070.99
11 14 13 16-0021 EA One-Way, "Handicapped" 7' High Exit Rotary Gate, 3 Rotor Sections, Stainless Steel	22,327.19	1,597.87
11 14 13 16-0022 EA One-Way, Double 7' High Exit Rotary Gate, 3 Rotor Sections, Stainless Steel	27,744.94	1,597.87
11 14 13 16-0023 Transparent <small>(11 14 13 16-0002)</small>		
11 14 13 16-0024 EA One-Way, Single 7' High Exit Rotary Gate, 3 Rotor Sections, Transparent	27,331.08	1,071.15
11 14 13 16-0025 Mechanical Options <small>(11 14 13 16-0001)</small>		
11 14 13 16-0026 EA Out-of-Use Lock Option, Add	146.66	
11 14 13 16-0027 EA Heel Protector (Each Heel Protector), Add	103.52	
11 14 13 16-0028 Electrical, One-Way <small>(11 14 13 16-0001)</small>		
11 14 13 16-0029 Galvanized Steel <small>(11 14 13 16-0028)</small>		
11 14 13 16-0030 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel	7,989.35	1,070.99
11 14 13 16-0031 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Galvanized Steel	8,929.69	1,070.99
11 14 13 16-0032 EA One-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel	18,358.77	1,597.87
11 14 13 16-0033 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel	16,959.47	1,597.87
11 14 13 16-0034 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Galvanized Steel	18,358.77	1,597.87



Equipment	11
Vehicle And Pedestrian Equipment	11 10
Pedestrian Control Equipment	11 14

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 14 13 16-0035 Powder Coated Steel <small>(11 14 13 16-0028)</small>		
11 14 13 16-0036 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel.....	8,938.32	1,070.99
11 14 13 16-0037 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Powder Coated Steel.....	9,989.09	1,070.99
11 14 13 16-0038 EA One-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel.....	24,413.19	1,597.87
11 14 13 16-0039 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel.....	18,527.85	1,597.87
11 14 13 16-0040 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Powder Coated Steel.....	19,930.60	1,597.87
11 14 13 16-0041 Anodized Aluminum <small>(11 14 13 16-0028)</small>		
11 14 13 16-0042 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms.....	9,110.86	1,070.99
11 14 13 16-0043 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Anodized Aluminum With Stainless Steel Arms.....	9,645.73	1,070.99
11 14 13 16-0044 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Complete Anodized Aluminum.....	15,770.90	1,070.99
11 14 13 16-0045 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms.....	8,722.82	1,597.87
11 14 13 16-0046 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Anodized Aluminum With Stainless Steel Arms.....	20,774.33	1,597.87
11 14 13 16-0047 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Complete Anodized Aluminum.....	30,565.97	1,597.87
11 14 13 16-0048 Stainless Steel <small>(11 14 13 16-0028)</small>		
11 14 13 16-0049 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel.....	14,802.96	1,070.99
11 14 13 16-0050 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Stainless Steel.....	15,820.94	1,070.99
11 14 13 16-0051 EA One-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel.....	25,564.04	1,597.87
11 14 13 16-0052 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel.....	29,075.22	1,597.87
11 14 13 16-0053 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Stainless Steel.....	32,006.68	1,597.87
11 14 13 16-0054 Transparent <small>(11 14 13 16-0028)</small>		
11 14 13 16-0055 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Arms.....	24,955.21	1,071.15
11 14 13 16-0056 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Transparent Arms.....	26,397.64	1,071.15
11 14 13 16-0057 EA One-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Panels.....	27,027.41	1,071.15
11 14 13 16-0058 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Arms.....	44,412.31	1,597.87
11 14 13 16-0059 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Transparent Arms.....	47,190.20	1,597.87
11 14 13 16-0060 Electrical, Two-Way <small>(11 14 13 16-0001)</small>		
11 14 13 16-0061 Galvanized Steel <small>(11 14 13 16-0060)</small>		
11 14 13 16-0062 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel.....	8,589.79	1,070.99
11 14 13 16-0063 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Galvanized Steel.....	9,557.74	1,070.99
11 14 13 16-0064 EA Two-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel.....	21,657.73	1,597.87
11 14 13 16-0065 EA Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Galvanized Steel.....	18,030.94	1,597.87
11 14 13 16-0066 Powder Coated Steel <small>(11 14 13 16-0060)</small>		
11 14 13 16-0067 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel.....	9,464.57	1,070.99
11 14 13 16-0068 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Powder Coated Steel.....	10,575.73	1,070.99
11 14 13 16-0069 EA Two-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel.....	24,934.26	1,597.87
11 14 13 16-0070 EA Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Powder Coated Steel.....	19,607.95	1,597.87
11 14 13 16-0071 Anodized Aluminum <small>(11 14 13 16-0060)</small>		
11 14 13 16-0072 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms.....	9,702.67	1,070.99
11 14 13 16-0073 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Anodized Aluminum With Stainless Steel Arms.....	10,213.39	1,070.99
11 14 13 16-0074 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Complete Anodized Aluminum.....	16,459.34	1,070.99
11 14 13 16-0075 EA Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Anodized Aluminum With Stainless Steel Arms.....	19,928.88	1,597.87
11 14 13 16-0076 EA Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Complete Anodized Aluminum.....	31,685.75	1,597.87
11 14 13 16-0077 Stainless Steel <small>(11 14 13 16-0060)</small>		
11 14 13 16-0078 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel.....	15,386.14	1,070.99
11 14 13 16-0079 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Stainless Steel.....	16,421.38	1,070.99
11 14 13 16-0080 EA Two-Way, "Handicapped" 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel.....	25,991.93	1,597.87
11 14 13 16-0081 EA Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Stainless Steel.....	29,937.92	1,597.87
11 14 13 16-0082 EA Two-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Stainless Steel.....	33,197.21	1,597.87
11 14 13 16-0083 Transparent <small>(11 14 13 16-0060)</small>		
11 14 13 16-0084 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Arms.....	25,455.57	1,071.15
11 14 13 16-0085 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Transparent Arms.....	26,811.74	1,071.15
11 14 13 16-0086 EA Two-Way, Single 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Panels.....	27,589.89	1,071.15
11 14 13 16-0087 EA Two-Way, Double 7' High Exit Rotary Gate, Electric, 3 Rotor Sections, Transparent Arms.....	45,464.80	1,597.87
11 14 13 16-0088 EA One-Way, Double 7' High Exit Rotary Gate, Electric, 4 Rotor Sections, Transparent Arms.....	48,052.90	1,597.87

11	11 Equipment
	11 10 Vehicle And Pedestrian Equipment
	11 14 Pedestrian Control Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 14 13 16-0089 Electrical Options <small>(11 14 13 16-0001)</small>		
11 14 13 16-0090 EA Additional Set Of Electric Controls, Per Rotor, Add.....	574.56	
11 14 13 16-0091 EA Indicator Lights, Set, Red/Green, Per Controlled Direction, Add.....	403.74	
11 14 13 16-0092 EA Time-Out-Relay, Per Controlled Direction.....	132.86	
11 14 13 16-0093 EA Pulse-Relay, Per Controlled Direction.....	132.86	
11 14 13 16-0094 EA Pushbutton, Per Controlled Direction.....	105.25	
11 14 13 16-0095 EA Heel Protectors, (Per Heel Protector), Add.....	103.52	
11 14 13 16-0096 EA Card Reader Mounting Pad, Per Reader.....	94.90	
11 14 13 16-0097 EA Hydraulic Speed Control (Per Rotor), Add.....	2,410.38	
11 14 13 16-0098 Relocate Rotary Gate <small>(11 14 13 16-0001)</small>		
11 14 13 16-0099 EA Relocate Rotary Gate.....	3,146.02	
11 14 13 19 Turnstiles <small>(11 14 13)</small>		
11 14 13 19-0001 Turnstiles <small>(11 14 13 19)</small>		
11 14 13 19-0002 EA 24" Diameter Manual Turnstile, Three Arm, Two Way.....	1,727.61	334.25
11 14 13 19-0003 EA 24" Diameter Manual Turnstile, Three Arm, Two Way With Counter.....	2,213.44	334.25
11 14 16 Pedestrian Control Devices <small>(11 14)</small>		
11 14 16 00-0001 Retractable Barrier <small>(11 14 16)</small>		
11 14 16 00-0002 EA Wall Mounted, Retractable Belt Barrier With Receiver; 6-1/2' (WG269387BK).....	67.17	17.49
11 14 16 00-0003 EA Wall Mounted, Retractable Belt Barrier With Receiver; 10' (WGB2093791).....	112.95	17.49
11 14 16 00-0004 EA Wall Mounted, Retractable Belt Barrier With Receiver; 15' (WGB2093770).....	135.85	17.49
11 14 16 00-0005 EA Wall Mounted, Retractable Belt Barrier With Receiver; 30' (WGB2093771).....	215.97	17.49
11 20 Commercial Equipment <small>(11)</small>		
11 21 Retail and Service Equipment <small>(11 21)</small>		
11 21 63 Refrigerated Display Equipment <small>(11 21)</small>		
11 21 63 00-0001 Dairy Products <small>(11 21 63)</small>		
11 21 63 00-0002 Refrigerated Dairy Case <small>(11 21 63 00-0001)</small>		
11 21 63 00-0003 LF Refrigerated Case, Dairy, Multi-Deck..... <i>For Rear Sliding Doors, Add</i>	1,482.99 19.95	289.24
11 21 63 00-0004 Refrigerated Milk Unit <small>(11 21 63 00-0001)</small>		
11 21 63 00-0005 EA 46" x 32" x 49-1/2" Capacity: 12, 13" x 13" x 11" Refrigerated Milk Unit.....	6,965.45	209.92
11 21 63 00-0006 Refrigerated Ice Cream And Milk Dispenser <small>(11 21 63 00-0001)</small>		
11 21 63 00-0007 EA 63-1/2" x 28-1/2" x 35-3/8" Refrigerated Ice Cream And Milk Dispenser.....	7,722.58	230.53
11 21 63 00-0008 Ice Cream Dispenser <small>(11 21 63 00-0001)</small>		
11 21 63 00-0009 EA 46" x 28-1/2" x 35-3/8" Refrigerated Ice Cream Dispenser.....	6,450.19	194.11
11 21 63 00-0010 Drop-In Ice Cream Freezer <small>(11 21 63 00-0001)</small>		
11 21 63 00-0011 EA 27-7/8" x 16-9/16" x 28-1/4" 6 Gallon Drop-In Ice Cream Freezer.....	1,608.55	48.32
11 21 63 00-0012 EA 30" x 27-7/8" x 28-1/4" 12 Gallon Drop-In Ice Cream Freezer.....	2,101.98	63.17
11 21 63 00-0013 Ice Cream Cabinets <small>(11 21 63 00-0001)</small>		
11 21 63 00-0014 EA 46" x 32" x 42", 24 Gallon Ice Cream Cabinet.....	5,038.01	150.97
11 21 63 00-0015 EA 68" x 32" x 42", 48 Gallon Ice Cream Cabinet.....	7,177.13	217.88
11 21 63 00-0016 Delicatessen Case, Service Deli <small>(11 21 63)</small>		
11 21 63 00-0017 LF Delicatessen Case, Single-Deck.....	1,462.63	241.04
11 21 63 00-0018 LF Delicatessen Case, Multi-Deck.....	1,642.21	289.24
11 21 63 00-0019 EA Delicatessen Case, 3 Shelf, 32" x 23" x 23".....	1,854.87	62.47
11 21 63 00-0020 Meat Case <small>(11 21 63)</small>		
11 21 63 00-0021 LF Meat Case, Single - Deck.....	1,094.93	289.24
11 21 63 00-0022 LF Meat Case, Multi - Deck.....	1,185.60	289.24
11 21 63 00-0023 Produce Case <small>(11 21 63)</small>		
11 21 63 00-0024 LF Produce Case, Single - Deck.....	1,139.08	289.24



Equipment	11
Commercial Equipment	11 20
Retail and Service Equipment	11 21

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 21 63 00-0025 LF Produce Case, Multi - Deck	1,256.04	289.24
11 21 63 00-0026 Bottle Coolers (11 21 63)		
11 21 63 00-0027 EA Bottle Cooler, 6' Long.....	4,216.46	964.15
11 21 63 00-0028 EA Bottle Cooler, 10' Long.....	6,383.36	1,446.22
11 21 63 00-0029 Cold Pan Units (11 21 63)		
11 21 63 00-0030 EA 5" x 48", Iced, Cold Pan Units	2,578.42	76.88
11 21 63 00-0031 EA 5" x 72", Iced, Cold Pan Units	3,582.39	107.55
11 21 63 00-0032 EA 8" x 72", Iced, Cold Pan Units	4,235.70	127.20
11 21 63 00-0033 EA 5" x 48", Mechanical, Cold Pan Units.....	4,354.51	131.42
11 21 63 00-0034 EA 8" x 48", Mechanical, Cold Pan Units.....	4,739.29	141.87
11 21 63 00-0035 EA 8" x 72", Mechanical, Cold Pan Units.....	5,631.18	167.65
11 21 63 00-0036 Cold Cabinets (Insulated) (11 21 63)		
11 21 63 00-0037 EA 69-3/4" x 32" x 24", Insulated Cold Cabinet	2,340.90	66.52
11 22 Banking Equipment (11 20)		
11 22 13 Vault Equipment (11 22)		
11 22 13 16 Safes (11 22 13)		
11 22 13 16-0001 In Room Safes (11 22 13 16)		
11 22 13 16-0002 EA 8-1/8" x 7-3/16" x 10-3/16" Keypad Operated In Room Electronic Safe (SafeDecisions Sentinel 25).....	476.01	8.86
11 22 13 16-0003 EA 8-1/8" x 7-3/16" x 16-5/8" Keypad Operated In Room Electronic Safe (SafeDecisions Sentinel 41).....	445.75	8.86
11 22 13 16-0004 EA 8-1/8" x 7-3/16" x 19-13/16" Keypad Operated In Room Electronic Safe (SafeDecisions Sentinel 49).....	463.91	8.86
11 22 13 16-0005 EA 8-1/8" x 7-3/16" x 10-3/16" Keypad (Lighted) Operated In Room Electronic Safe (SafeDecisions Infinity 25).....	518.37	8.86
Note: Keypad lights up blue and beeps when buttons pushed. Includes light on inside of safe door.		
11 22 13 16-0006 EA 8-1/8" x 7-3/16" x 16-5/8" Keypad (Lighted) Operated In Room Electronic Safe (SafeDecisions Infinity 41).....	536.53	8.86
Note: Keypad lights up blue and beeps when buttons pushed. Includes light on inside of safe door.		
11 22 13 16-0007 EA 8-1/8" x 7-3/16" x 19-13/16" Keypad (Lighted) Operated In Room Electronic Safe (SafeDecisions Infinity 49).....	554.68	8.86
Note: Keypad lights up blue and beeps when buttons pushed. Includes light on inside of safe door.		
11 22 13 16-0008 EA 7-5/8" x 14" x 10-11/16" Keypad Operated In Drawer Electronic Safe (SafeDecisions X-Tra II-XD 27).....	356.02	11.07
Note: Includes security wire.		
11 22 13 16-0009 EA 7-5/8" x 14" x 17-1/2" Keypad Operated In Drawer Electronic Safe (SafeDecisions X-Tra II-XD 43).....	368.12	11.07
Note: Includes security wire.		
11 22 13 16-0010 EA 7-5/8" x 14" x 20-3/16" Keypad Operated In Drawer Electronic Safe (SafeDecisions X-Tra II-XD 50).....	380.23	11.07
Note: Includes security wire.		
11 30 Residential Equipment (11)		
11 30 13 Residential Appliances (11 30)		
11 30 13 13 Residential Kitchen Appliances (11 30 13)		
Note: Includes standard colors. Excludes stainless steel.		
11 30 13 13-0001 Ranges With Ovens (11 30 13 13)		
Note: Free standing or slide in.		
11 30 13 13-0002 Electric Ranges With Ovens (11 30 13 13-0001)		
11 30 13 13-0003 EA 20" Electric Range With Oven.....	611.50	77.72
For Stainless Steel, Add	114.02	
11 30 13 13-0004 EA 24" Electric Range With Oven.....	637.64	77.72
For Stainless Steel, Add	120.55	
11 30 13 13-0005 EA 30" Electric Range With Oven.....	599.13	77.72
For Stainless Steel, Add	130.35	
11 30 13 13-0006 EA 30" Free-Standing Electric Range With Oven (Hotpoint® RB525DHWW).....	616.52	77.72
11 30 13 13-0007 Gas Ranges With Ovens (11 30 13 13-0001)		
11 30 13 13-0008 EA 20" Gas Range With Oven	676.84	77.72
For Stainless Steel, Add	130.35	
11 30 13 13-0009 EA 24" Gas Range With Oven	710.82	77.72
For Stainless Steel, Add	138.85	
11 30 13 13-0010 EA 30" Gas Range With Oven	742.18	77.72
For Stainless Steel, Add	146.69	
11 30 13 13-0011 Range Hoods (11 30 13 13)		
11 30 13 13-0012 Venting Range Hoods (11 30 13 13-0011)		
11 30 13 13-0013 EA 21" Venting Range Hood (Broan 40000).....	219.41	58.28
For Stainless Steel, Add	15.42	
11 30 13 13-0014 EA 24" Venting Range Hood (Broan 40000).....	204.14	58.28
For Stainless Steel, Add	13.13	

11	Equipment
11 30	Residential Equipment
11 30 13	Residential Appliances



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 30 13	13-0015	EA	30" Venting Range Hood (Broan 40000)..... <i>For Stainless Steel, Add</i>	201.46 12.73	58.28
11 30 13	13-0016	EA	36" Venting Range Hood (Broan 40000)..... <i>For Stainless Steel, Add</i>	204.14 13.13	58.28
11 30 13	13-0017		Non-Ducted Range Hoods (11 30 13 13-0017)		
11 30 13	13-0018	EA	21" Non Ducted Range Hood (Broan 41000)..... <i>For Stainless Steel, Add</i>	221.39 15.72	58.28
11 30 13	13-0019	EA	24" Non Ducted Range Hood (Broan 41000)..... <i>For Stainless Steel, Add</i>	206.16 13.44	58.28
11 30 13	13-0020	EA	30" Non Ducted Range Hood (Broan 41000)..... <i>For Stainless Steel, Add</i>	203.47 13.03	58.28
11 30 13	13-0021	EA	36" Non Ducted Range Hood (Broan 41000)..... <i>For Stainless Steel, Add</i>	206.16 13.44	58.28
11 30 13	13-0022		Microwaves (11 30 13 13)		
11 30 13	13-0023		Countertop Microwaves (11 30 13 13-0023)		
11 30 13	13-0024	EA	1.1 CF Countertop Microwave Oven..... <i>For Stainless Steel, Add</i>	126.58 16.07	9.72
11 30 13	13-0025	EA	1.2 CF Countertop Microwave Oven..... <i>For Stainless Steel, Add</i>	150.09 19.60	9.72
11 30 13	13-0026	EA	1.3 CF Countertop Microwave Oven..... <i>For Stainless Steel, Add</i>	154.01 20.19	9.72
11 30 13	13-0027	EA	1.4 CF Countertop Microwave Oven..... <i>For Stainless Steel, Add</i>	188.00 25.29	9.72
11 30 13	13-0028	EA	1.5 CF Countertop Microwave Oven..... <i>For Stainless Steel, Add</i>	201.07 27.25	9.72
11 30 13	13-0029	EA	1.6 CF Countertop Microwave Oven..... <i>For Stainless Steel, Add</i>	214.13 29.21	9.72
11 30 13	13-0030	EA	1.7 CF Countertop Microwave Oven..... <i>For Stainless Steel, Add</i>	227.20 31.17	9.72
11 30 13	13-0031	EA	1.8 CF Countertop Microwave Oven..... <i>For Stainless Steel, Add</i>	240.27 33.13	9.72
11 30 13	13-0032	EA	2.0 CF Countertop Microwave Oven..... <i>For Stainless Steel, Add</i>	254.63 35.28	9.72
11 30 13	13-0033		Over-The-Range Microwaves (11 30 13 13-0033)		
11 30 13	13-0034	EA	1.5 CF Over-The Range Microwave..... <i>For Stainless Steel, Add</i>	450.56 50.10	77.71
11 30 13	13-0035	EA	1.6 CF Over-The Range Microwave..... <i>For Stainless Steel, Add</i>	507.29 58.61	77.71
11 30 13	13-0036	EA	1.7 CF Over-The Range Microwave..... <i>For Stainless Steel, Add</i>	525.58 61.35	77.71
11 30 13	13-0037	EA	1.8 CF Over-The Range Microwave..... <i>For Stainless Steel, Add</i>	662.79 81.93	77.71
11 30 13	13-0038	EA	2.0 CF Over-The Range Microwave..... <i>For Stainless Steel, Add</i>	533.43 62.53	77.71
11 30 13	13-0039	EA	1.6 CF Over-the-Range Microwave (Hotpoint® RVM5160DHWW).....	323.07	58.28
11 30 13	13-0040		Trash Compactors (11 30 13 13)		
11 30 13	13-0041	EA	15" Built-In Trash Compactor, 4 To 1 Compaction..... <i>For Stainless Steel, Add</i>	1,003.54 152.66	77.72
11 30 13	13-0042		Refrigerators (11 30 13 13)		
11 30 13	13-0043		Top Freezer Refrigerators (11 30 13 13-0043)		
11 30 13	13-0044	EA	Up To 10 CF Top Freezer Refrigerator..... <i>For Stainless Steel, Add</i>	495.88 62.72	38.86
11 30 13	13-0045	EA	>10 To 12 CF Top Freezer Refrigerator..... <i>For Stainless Steel, Add</i>	599.13 78.21	38.86
11 30 13	13-0046	EA	>12 To 14 CF Top Freezer Refrigerator..... <i>For Stainless Steel, Add</i>	665.77 88.21	38.86
11 30 13	13-0047	EA	>14 To 16 CF Top Freezer Refrigerator..... <i>For Stainless Steel, Add</i>	704.97 94.09	38.86
11 30 13	13-0048	EA	>16 To 18 CF Top Freezer Refrigerator..... <i>For Stainless Steel, Add</i>	809.51 109.77	38.86
11 30 13	13-0049	EA	>18 To 20 CF Top Freezer Refrigerator..... <i>For Stainless Steel, Add</i>	899.70 123.30	38.86
11 30 13	13-0050	EA	>20 To 22 CF Top Freezer Refrigerator..... <i>For Stainless Steel, Add</i>	966.33 133.29	38.86
11 30 13	13-0051	EA	14.6 CF, Top-Freezer Refrigerator (Hotpoint® ENERGY STAR® HPE15BTHWW).....	786.84	38.86
11 30 13	13-0052		Side-By-Side Refrigerators (11 30 13 13-0052)		
11 30 13	13-0053	EA	Up To 22 CF Side-By-Side Refrigerator..... <i>For Stainless Steel, Add</i>	992.32 137.19	38.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 30 13 13-0054 EA >22 To 24 CF Side-By-Side Refrigerator <i>For Stainless Steel, Add</i>	1,227.69 172.50	38.86
11 30 13 13-0055 EA >24 To 26 CF Side-By-Side Refrigerator <i>For Stainless Steel, Add</i>	1,384.51 196.02	38.86
11 30 13 13-0056 Other Refrigerators (11 30 13 13-0042)		
11 30 13 13-0057 EA 1.7 CF Dormitory Sized Refrigerator <i>For Stainless Steel, Add</i>	167.06 19.23	19.42
11 30 13 13-0058 EA 4.4 CF Dormitory Sized Refrigerator <i>For Stainless Steel, Add</i>	225.86 28.05	19.42
11 30 13 13-0059 Freezers (11 30 13 13)		
11 30 13 13-0060 Upright Freezers (11 30 13 13-0059)		
11 30 13 13-0061 EA Up To 10 CF Upright Freezer <i>For Stainless Steel, Add</i>	468.45 58.61	38.86
11 30 13 13-0062 EA >10 To 12 CF Upright Freezer <i>For Stainless Steel, Add</i>	599.13 78.21	38.86
11 30 13 13-0063 EA >12 To 14 CF Upright Freezer <i>For Stainless Steel, Add</i>	638.34 84.09	38.86
11 30 13 13-0064 EA >14 To 16 CF Upright Freezer <i>For Stainless Steel, Add</i>	729.81 97.81	38.86
11 30 13 13-0065 EA >16 To 18 CF Upright Freezer <i>For Stainless Steel, Add</i>	835.65 113.69	38.86
11 30 13 13-0066 EA >18 To 20 CF Upright Freezer <i>For Stainless Steel, Add</i>	887.94 121.53	38.86
11 30 13 13-0067 EA >20 To 22 CF Upright Freezer <i>For Stainless Steel, Add</i>	927.13 127.41	38.86
11 30 13 13-0068 Chest Freezers (11 30 13 13-0059)		
11 30 13 13-0069 EA Up To 8 CF Chest Freezer <i>For Stainless Steel, Add</i>	378.27 45.08	38.86
11 30 13 13-0070 EA >8 To 10 CF Chest Freezer <i>For Stainless Steel, Add</i>	469.75 58.80	38.86
11 30 13 13-0071 EA >10 To 12 CF Chest Freezer <i>For Stainless Steel, Add</i>	502.43 63.71	38.86
11 30 13 13-0072 EA >12 To 14 CF Chest Freezer <i>For Stainless Steel, Add</i>	561.22 72.53	38.86
11 30 13 13-0073 EA >14 To 16 CF Chest Freezer <i>For Stainless Steel, Add</i>	599.13 78.21	38.86
11 30 13 13-0074 EA >16 To 18 CF Chest Freezer <i>For Stainless Steel, Add</i>	729.81 97.81	38.86
11 30 13 13-0075 EA >18 To 20 CF Chest Freezer <i>For Stainless Steel, Add</i>	899.70 123.30	38.86
11 30 13 13-0076 EA >20 To 22 CF Chest Freezer <i>For Stainless Steel, Add</i>	927.13 127.41	38.86
11 30 13 13-0077 Automatic Ice Makers (11 30 13 13)		
11 30 13 13-0078 EA 15" Wide, 50 LB Per Day, Automatic Ice Maker.....	1,720.98	77.72
11 30 13 13-0079 EA 18" Wide, 50 LB Per Day, Automatic Ice Maker.....	1,917.00	77.72
11 30 13 13-0080 Built-In Dishwashers (11 30 13 13)		
11 30 13 13-0081 EA 18" Built-In Dishwasher <i>For Stainless Steel, Add</i>	848.02 103.89	77.72
11 30 13 13-0082 EA 24" Built-In Dishwasher <i>For Stainless Steel, Add</i>	573.59 62.72	77.72
11 30 13 13-0083 Disposals (11 30 13 13)		
11 30 13 13-0084 EA 1/3 HP Insulated Garbage Disposal (GE GFC320V)	206.75	58.28
11 30 13 13-0085 EA 1/2 HP Insulated Garbage Disposal (GE GFC520V)	232.89	58.28
11 30 13 13-0086 EA 3/4 HP Insulated Garbage Disposal (GE GFC720V)	298.23	58.28
11 30 13 13-0087 EA 1 HP Insulated Garbage Disposal (GE GFC1020V)	363.57	58.28
11 30 13 13-0088 Removal And Reinstallation Of Kitchen Equipment (11 30 13 13)		
Note: Includes storage, cleaning and final connections.		
11 30 13 13-0089 EA Removal And Reinstallation Of Garbage Disposal.....	116.58	
11 30 13 13-0090 EA Removal And Reinstallation Of Stove/Range.....	233.14	
11 30 13 13-0091 EA Removal And Reinstallation Of Dishwasher.....	248.69	
11 30 13 13-0092 EA Removal And Reinstallation Of Range Hood	116.58	
11 30 13 13-0093 EA Removal And Reinstallation Of Washer And Dryer.....	194.28	
11 30 13 13-0094 Appliance Repair (11 30 13 13)		
Note: Includes removal.		
11 30 13 13-0095 EA 8" Burner Replacement.....	21.73	

11	Equipment
11 30	Residential Equipment
11 30 13	Residential Appliances



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 30 13 13-0096 EA 4" Burner Element Replacement.....	38.48	
11 30 13 13-0097 EA 8" Burner Element Replacement.....	44.25	
11 30 13 13-0098 EA Burner Manifold Replacement.....	148.24	
11 30 13 13-0099 EA Burner Switch Replacement.....	60.93	
11 30 13 13-0100 EA Burner Tube, 5/8" x 4' Replacement.....	28.18	
11 30 13 13-0101 EA Oven Control Replacement.....	73.45	
11 30 13 13-0102 EA Oven Door Gasket Replacement.....	29.09	
11 30 13 13-0103 EA Oven Element Replacement.....	69.04	
11 30 13 13-0104 EA Oven Igniter Replacement.....	49.80	
11 30 13 13-0105 EA Oven Knobs Replacement.....	38.09	
11 30 13 13-0106 Accessories (11 30 13 13)		
11 30 13 13-0107 SF Colored Metal Range Splash Plate.....	13.79	3.11
11 30 13 13-0108 SF Stainless Steel Range Splash Plate.....	19.87	3.11
11 30 13 13-0109 Automatic Water Softener (11 30 13 13)		
11 30 13 13-0110 EA 30,000 Grain Capacity, Water Softener (Whirlpool WHES30).....	908.72	177.51
11 30 13 13-0111 EA 40,000 Grain Capacity, Water Softener (Whirlpool WHES40).....	1,069.25	177.51
11 30 13 23 Residential Laundry Appliances (11 30 13)		
11 30 13 23-0001 Washing Machines And Dryers (11 30 13 23)		
11 30 13 23-0002 Washing Machines (11 30 13 23-0001)		
11 30 13 23-0003 EA Up To 3.5 CF, Top Load Washing Machine.....	652.35	77.72
11 30 13 23-0004 EA >3.5 To 4 CF, Top Load Washing Machine.....	1,031.33	77.72
11 30 13 23-0005 EA >4 To 5 CF, Top Load Washing Machine.....	1,358.03	77.72
11 30 13 23-0006 Dryers (11 30 13 23-0001)		
11 30 13 23-0007 Electric Dryers (11 30 13 23-0006)		
11 30 13 23-0008 EA Up To 6 CF, Electric Dryer.....	507.31	77.72
11 30 13 23-0009 EA >6 To 6.5 CF, Electric Dryer.....	639.29	77.72
11 30 13 23-0010 EA >6.5 To 7 CF, Electric Dryer.....	783.03	77.72
11 30 13 23-0011 EA >7 To 7.5 CF, Electric Dryer.....	887.58	77.72
11 30 13 23-0012 Gas Dryers (11 30 13 23-0006)		
11 30 13 23-0013 EA Up To 6 CF, Gas Dryer.....	600.08	77.72
11 30 13 23-0014 EA >6 To 6.5 CF, Gas Dryer.....	730.76	77.72
11 30 13 23-0015 EA >6.5 To 7 CF, Gas Dryer.....	861.30	77.72
11 30 13 23-0016 EA >7 To 7.5 CF, Gas Dryer.....	979.05	77.72
11 30 33 Retractable Stairs (11 30)		
11 30 33 00-0001 Disappearing Folding Access Stairs (11 30 33)		
11 30 33 00-0002 250 LB Capacity, Wood Folding Access Stairs (11 30 33 00-0001)		
11 30 33 00-0003 EA 22-1/2" x 54" Rough Opening, 7' To 8' 9" Ceiling Height, Wood Folding Access Stairs, 250 LB Capacity.....	566.45	177.28
11 30 33 00-0004 EA 22-1/2" x 54" Rough Opening, 8' 9" To 10' 4" Ceiling Height, Wood Folding Access Stairs, 250 LB Capacity.....	576.63	177.28
11 30 33 00-0005 EA 25-1/2" x 54" Rough Opening, 7' To 8' 9" Ceiling Height, Wood Folding Access Stairs, 250 LB Capacity.....	576.63	177.28
11 30 33 00-0006 EA 25-1/2" x 54" Rough Opening, 8' 9" To 10' 4" Ceiling Height, Wood Folding Access Stairs, 250 LB Capacity.....	586.57	177.28
11 30 33 00-0007 350 LB Capacity, Wood Folding Access Stairs (11 30 33 00-0001)		
11 30 33 00-0008 EA 22-1/2" x 54" Rough Opening, 7' To 8' 9" Ceiling Height, Wood Folding Access Stairs, 350 LB Capacity.....	659.43	177.28
11 30 33 00-0009 EA 22-1/2" x 54" Rough Opening, 8' 9" To 10' 3" Ceiling Height, Wood Folding Access Stairs, 350 LB Capacity.....	680.02	177.28
11 30 33 00-0010 EA 25-1/2" x 54" Rough Opening, 7' To 8' 9" Ceiling Height, Wood Folding Access Stairs, 350 LB Capacity.....	671.55	177.28
11 30 33 00-0011 EA 25-1/2" x 54" Rough Opening, 8' 9" To 10' 3" Ceiling Height, Wood Folding Access Stairs, 350 LB Capacity.....	691.23	177.28
11 30 33 00-0012 EA 30" x 54" Rough Opening, 7' To 8' 9" Ceiling Height, Wood Folding Access Stairs, 350 LB Capacity.....	683.31	177.28
11 30 33 00-0013 EA 30" x 54" Rough Opening, 8' 9" To 10' 4" Ceiling Height, Wood Folding Access Stairs, 350 LB Capacity.....	717.32	177.28
11 30 33 00-0014 300 LB Capacity, Aluminum Folding Access Stairs (11 30 33 00-0001)		
11 30 33 00-0015 EA 22-1/2" x 54" Rough Opening, 7' To 8' 9" Ceiling Height, Aluminum Folding Access Stairs, 300 LB Capacity.....	659.74	177.28
11 30 33 00-0016 EA 22-1/2" x 54" Rough Opening, 8' 9" To 10' 4" Ceiling Height, Aluminum Folding Access Stairs, 300 LB Capacity.....	688.14	177.28
11 30 33 00-0017 EA 25-1/2" x 54" Rough Opening, 7' To 8' 9" Ceiling Height, Aluminum Folding Access Stairs, 300 LB Capacity.....	667.65	177.28
11 30 33 00-0018 EA 25-1/2" x 54" Rough Opening, 8' 9" To 10' 4" Ceiling Height, Aluminum Folding Access Stairs, 300 LB Capacity.....	696.03	177.28
11 30 33 00-0019 EA 25-1/2" x 54" Rough Opening, 10' 5" To 12' Ceiling Height, Aluminum Folding Access Stairs, 300 LB Capacity.....	854.12	177.28
11 30 33 00-0020 300 LB Capacity, Steel Folding Access Stairs (11 30 33 00-0001)		
11 30 33 00-0021 EA 22-1/2" x 54" Rough Opening, 7' 3" To 8' 4" Ceiling Height, Steel Folding Access Stairs, 300 LB Capacity.....	666.52	177.28
11 30 33 00-0022 EA 22-1/2" x 54" Rough Opening, 8' 4" To 10' 3" Ceiling Height, Steel Folding Access Stairs, 300 LB Capacity.....	699.64	177.28



Equipment	11
Residential Equipment	11 30
Unit Kitchens	11 32

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 32 Unit Kitchens ^(11 30)

11 32 13 Metal Unit Kitchens ^(11 32)

Note: Includes electrical hook-up to outlet, supply line connection to service stops, and drain line and p-trap. Excludes garbage disposer and hood exhaust vent piping.

11 32 13 00-0001 30" Compact Kitchen ^(11 32 13)

11 32 13 00-0002	EA	30" Compact Unit Kitchen With Refrigerator, Range And Sink	2,594.77	481.91
		For Gas Unit, Add	292.83	
11 32 13 00-0003	EA	30" Compact Unit Kitchen With Refrigerator And Sink	2,251.41	337.34
11 32 13 00-0004	EA	30" Compact Unit Kitchen With Refrigerator And Range	2,072.05	289.15
11 32 13 00-0005	EA	30" Compact Unit Kitchen Cabinet For Upper Wall Section	597.78	132.92
		For Range Hood In Upper Section, Add	179.00	
11 32 13 00-0006	EA	30" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section	1,293.57	177.22
		For Range Hood In Upper Section, Add	179.00	
11 32 13 00-0007	EA	30" Compact Unit Kitchen Stainless Steel Shield For Rear Wall	82.80	15.54
11 32 13 00-0008	EA	30" Compact Unit Kitchen Stainless Steel Shield For Side Wall	73.61	15.54

11 32 13 00-0009 42" Compact Kitchen ^(11 32 13)

11 32 13 00-0010	EA	42" Compact Unit Kitchen With Refrigerator, Range And Sink	3,040.81	530.11
		For Gas Unit, Add	350.10	
11 32 13 00-0011	EA	42" Compact Unit Kitchen With Refrigerator And Sink	2,770.60	433.72
11 32 13 00-0012	EA	42" Compact Unit Kitchen Cabinet For Upper Wall Section	771.53	150.64
		For Range Hood In Upper Section, Add	179.00	
11 32 13 00-0013	EA	42" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section	1,505.24	199.38
		For Range Hood In Upper Section, Add	179.00	
11 32 13 00-0014	EA	42" Compact Unit Kitchen Stainless Steel Shield For Rear Wall	100.90	15.54
11 32 13 00-0015	EA	42" Compact Unit Kitchen Stainless Steel Shield For Side Wall	82.80	15.54

11 32 13 00-0016 54" Compact Kitchen ^(11 32 13)

11 32 13 00-0017	EA	54" Compact Unit Kitchen With Refrigerator, Oven, Range And Sink	4,143.22	674.68
		For Gas Unit, Add	486.55	
11 32 13 00-0018	EA	54" Compact Unit Kitchen Cabinet For Upper Wall Section	963.01	88.61
		For Range Hood In Upper Section, Add	179.00	
11 32 13 00-0019	EA	54" Compact Unit Kitchen Cabinet With Microwave And Hood Combination For Upper Wall Section	1,674.02	221.53
		For Range Hood In Upper Section, Add	179.00	
11 32 13 00-0020	EA	54" Compact Unit Kitchen Stainless Steel Shield For Rear Wall	118.08	15.54
11 32 13 00-0021	EA	54" Compact Unit Kitchen Stainless Steel Shield For Side Wall	85.75	15.54

11 32 13 00-0022 60" Compact Kitchen ^(11 32 13)

11 32 13 00-0023	EA	60" Compact Unit Kitchen With Refrigerator, Oven, Range, And Sink	4,350.25	722.87
		For Gas Unit, Add	507.96	
11 32 13 00-0024	EA	60" Compact Unit Kitchen Cabinet For Upper Wall Section	1,134.61	221.53
		For Range Hood In Upper Section, Add	179.00	
11 32 13 00-0025	EA	60" Compact Unit Kitchen Stainless Steel Shield For Rear Wall	125.83	15.54
11 32 13 00-0026	EA	60" Compact Unit Kitchen Stainless Steel Shield For Side Wall	85.75	15.54

11 32 13 00-0027 72" Compact Kitchen ^(11 32 13)

11 32 13 00-0028	EA	72" Compact Unit Kitchen With Refrigerator, Oven, Range And Sink	4,667.93	771.06
		For Gas Unit, Add	545.98	
11 32 13 00-0029	EA	72" Compact Unit Kitchen Cabinet For Upper Wall Section	1,389.19	265.84
		For Range Hood In Upper Section, Add	179.00	
11 32 13 00-0030	EA	72" Compact Unit Kitchen Stainless Steel Shield For Rear Wall	147.45	19.42
11 32 13 00-0031	EA	72" Compact Unit Kitchen Stainless Steel Shield For Side Wall	89.27	19.42

11 40 Foodservice Equipment ⁽¹¹⁾

11 41 Foodservice Storage Equipment ^(11 40)

11 41 13 Refrigerated Food Storage Cases ^(11 41)

11 41 13 00-0001 Frozen Food Cases ^(11 41 13)

11 41 13 00-0002	LF	Chest Type Frozen Food Case	1,131.28	289.24
11 41 13 00-0003	LF	Reach-in Frozen Food Case (Glass Door)	2,134.31	289.24
11 41 13 00-0004	LF	Island Type Frozen Food Case	1,306.40	289.24
11 41 13 00-0005	LF	Multi-Deck Frozen Food Case	2,049.56	289.24

11 41 13 00-0006 Reach-In Refrigeration ^(11 41 13)

11 41 13 00-0007 Reach-In Refrigerators ^(11 41 13 00-0006)

11 41 13 00-0008	EA	Single Section, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator	4,019.96	122.40
11 41 13 00-0009	EA	Two Section, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator	4,951.11	154.37
11 41 13 00-0010	EA	Three Section, 69.1 CF, Full Door, Self Contained, Reach-In Refrigerator	6,619.97	170.55
11 41 13 00-0011	EA	Single Section, Glass Door, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator	3,452.62	122.40
11 41 13 00-0012	EA	Two Section, Glass Door, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator	4,491.22	154.37

11	11 Equipment
	11 40 Foodservice Equipment
	11 41 Foodservice Storage Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 13 00-0013 EA Three Section, Glass Door, 61.1 CF, Full Door, Self Contained, Reach-In Refrigerator	5,968.69	170.55
11 41 13 00-0014 EA Single Section, Pass-Thru, 24.2 CF, Full Door, Self Contained, Reach-In Refrigerator	4,832.40	122.40
11 41 13 00-0015 EA Two Section, Pass-Thru, 46.0 CF, Full Door, Self Contained, Reach-In Refrigerator	6,538.44	154.37
11 41 13 00-0016 EA Single Section, Pass-Thru, Glass Door, 25.6 CF, Full Door, Self Contained, Reach-In Refrigerator	4,681.16	122.40
11 41 13 00-0017 EA Two Section, Pass-Thru, Glass Door, 48.8 CF, Full Door, Self Contained, Reach-In Refrigerator	6,742.10	154.37
11 41 13 00-0018 Reach-In Freezers <small>(11 41 13 00-0006)</small>		
11 41 13 00-0019 EA Single Section, 24.2 CF, Full Door, Self Contained, Reach-In Freezer	4,523.73	122.54
11 41 13 00-0020 EA Two Section, 46.0 CF, Full Door, Self Contained, Reach-In Freezer	5,999.68	154.15
11 41 23 Walk-In-Coolers <small>(11 41)</small>		
11 41 23 00-0001 Walk-In Refrigerated Boxes <small>(11 41 23)</small>		
<small>Note: Overall heights include 4" floor panel and 4" ceiling panel. See CSI section 11 41 23 00-0171 for air cooled condensing units for coolers and freezers, 11 41 23 00-0282 for accessories, 21 13 16 00-0000 for dry-pipe sprinkler heads, 26 50 00 00-0000 for lighting.</small>		
11 41 23 00-0002 Walk-In Refrigerated Unit, 7'6" High With Floor <small>(11 41 23 00-0001)</small>		
<small>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 6', 7', 8' and 9' wide.</small>		
11 41 23 00-0003 EA 6' x 6' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	7,610.10	1,069.60
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-1,545.93	
11 41 23 00-0004 EA 6' x 8' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	9,077.73	1,203.31
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-1,868.33	
11 41 23 00-0005 EA 6' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	9,627.00	1,337.00
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-1,961.08	
11 41 23 00-0006 EA 6' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	10,906.57	1,604.40
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-2,192.13	
11 41 23 00-0007 EA 6' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	12,585.85	1,871.80
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-2,522.86	
11 41 23 00-0008 EA 6' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	13,928.38	2,139.21
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-2,768.90	
11 41 23 00-0009 EA 6' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	15,247.45	2,406.61
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-3,009.66	
11 41 23 00-0010 EA 8' x 8' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	10,005.77	1,337.00
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-2,055.78	
11 41 23 00-0011 EA 8' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	10,952.18	1,470.71
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-2,247.94	
11 41 23 00-0012 EA 8' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	12,358.85	1,738.11
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-2,510.09	
11 41 23 00-0013 EA 8' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	14,195.03	2,005.51
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-2,880.25	
11 41 23 00-0014 EA 8' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	15,623.49	2,272.91
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-3,148.51	
11 41 23 00-0015 EA 8' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	17,096.93	2,540.31
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-3,427.31	
11 41 23 00-0016 EA 8' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	18,523.88	2,807.71
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-3,695.57	
11 41 23 00-0017 EA 8' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	19,993.18	3,075.11
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-3,972.98	
11 41 23 00-0018 EA 8' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	21,427.19	3,342.51
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-4,242.63	
11 41 23 00-0019 Walk-In Refrigerated Unit, 7'6" High With Floor <small>(11 41 23 00-0001)</small>		
<small>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 10', 11' and 12' wide.</small>		
11 41 23 00-0020 EA 10' x 10' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	12,401.68	1,604.40
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-2,565.90	
11 41 23 00-0021 EA 10' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	13,933.22	1,871.80
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-2,859.70	
11 41 23 00-0022 EA 10' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	15,530.12	2,139.21
<small>For Refrigerated Boxes Without Floor, Deduct</small>		
	-3,169.33	



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0023 EA 10' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	17,040.25	2,406.61
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,457.86	
11 41 23 00-0024 EA 10' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,658.79	2,674.02
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,774.15	
11 41 23 00-0025 EA 10' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,169.84	2,941.42
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,061.29	
11 41 23 00-0026 EA 10' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,793.14	3,208.82
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,379.25	
11 41 23 00-0027 EA 10' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,296.10	3,476.22
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,666.11	
11 41 23 00-0028 EA 10' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,918.44	3,743.62
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,982.40	
11 41 23 00-0029 EA 10' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,431.74	4,011.02
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,270.93	
11 41 23 00-0030 EA 10' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,231.26	4,412.12
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,587.50	
11 41 23 00-0031 EA 10' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,904.81	4,813.22
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,874.36	
11 41 23 00-0032 EA 12' x 12' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,378.01	2,005.51
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,176.00	
11 41 23 00-0033 EA 12' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	17,139.71	2,272.91
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,527.56	
11 41 23 00-0034 EA 12' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	18,763.10	2,540.31
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,843.86	
11 41 23 00-0035 EA 12' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,516.62	2,807.71
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,193.75	
11 41 23 00-0036 EA 12' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,148.09	3,075.11
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,511.71	
11 41 23 00-0037 EA 12' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	23,902.00	3,342.51
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,861.33	
11 41 23 00-0038 EA 12' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	25,519.87	3,609.91
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,177.62	
11 41 23 00-0039 EA 12' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,285.57	3,877.31
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,529.19	
11 41 23 00-0040 EA 12' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	28,999.60	4,211.57
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,845.48	
11 41 23 00-0041 EA 12' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	30,933.37	4,612.67
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,195.38	
11 41 23 00-0042 EA 12' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	32,738.37	5,013.77
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,513.34	
11 41 23 00-0043 EA 12' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	34,665.88	5,414.88
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,862.96	
11 41 23 00-0044 EA 12' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	36,460.28	5,815.97
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,179.25	
11 41 23 00-0045 Walk-In Refrigerated Unit, 7'6" High With Floor <small>(11 41 23 00-0001)</small>		
<small>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 13', 14' and 15' wide.</small>		
11 41 23 00-0046 EA 14' x 14' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,230.41	2,406.61
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,255.40	
11 41 23 00-0047 EA 14' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,188.85	2,674.02
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,656.67	
11 41 23 00-0048 EA 14' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	24,306.38	2,941.42
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,095.43	
11 41 23 00-0049 EA 14' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	26,264.03	3,208.82
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,496.97	

11	11 Equipment
	11 40 Foodservice Equipment
	11 41 Foodservice Storage Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0050	EA		14' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	28,367.92	3,476.22
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,934.07	
11 41 23 00-0051	EA		14' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	30,337.94	3,743.62
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,337.28	
11 41 23 00-0052	EA		14' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	32,445.50	4,011.02
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,774.37	
11 41 23 00-0053	EA		14' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	34,584.93	4,412.12
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,175.92	
11 41 23 00-0054	EA		14' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	36,866.07	4,813.22
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,614.68	
11 41 23 00-0055	EA		14' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	39,027.35	5,214.33
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,015.95	
11 41 23 00-0056	EA		14' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	41,296.49	5,615.42
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,453.31	
11 41 23 00-0057	EA		14' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	43,447.04	5,949.68
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,856.25	
11 41 23 00-0058			Walk-In Refrigerated Unit, 7'6" High With Floor <small>(11 41 23 00-0001)</small> Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 16', 17' and 18' wide.		
11 41 23 00-0059	EA		16' x 16' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	24,249.95	2,807.71
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,127.08	
11 41 23 00-0060	EA		16' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	26,507.90	3,075.11
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,601.66	
11 41 23 00-0061	EA		16' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	28,692.80	3,342.51
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,059.03	
11 41 23 00-0062	EA		16' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	30,950.48	3,609.91
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,535.28	
11 41 23 00-0063	EA		16' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	33,139.38	3,877.31
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,992.64	
11 41 23 00-0064	EA		16' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	35,486.55	4,211.57
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,467.22	
11 41 23 00-0065	EA		16' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	37,856.86	4,612.67
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,926.25	
11 41 23 00-0066	EA		16' x 30' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	40,288.35	5,013.77
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,400.83	
11 41 23 00-0067	EA		16' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	42,646.83	5,414.88
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,858.19	
11 41 23 00-0068	EA		16' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	45,081.04	5,815.97
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,334.44	
11 41 23 00-0069	EA		18' x 18' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	28,367.85	3,208.82
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,022.93	
11 41 23 00-0070	EA		18' x 20' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	30,682.78	3,476.22
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,512.78	
11 41 23 00-0071	EA		18' x 22' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	33,118.22	3,743.62
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,032.35	
11 41 23 00-0072	EA		18' x 24' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	35,431.27	4,011.02
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,520.81	
11 41 23 00-0073	EA		18' x 26' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	38,048.34	4,412.12
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,041.77	
11 41 23 00-0074	EA		18' x 28' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	40,528.31	4,813.22
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,530.24	
11 41 23 00-0075	EA		18' x 30' Walk-in Refrigerated Box, 7' 6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	43,162.78	5,214.33
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,049.80	
11 41 23 00-0076	EA		18' x 32' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	45,641.87	5,615.42
			<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,539.66	



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0077 EA 18' x 34' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	48,258.93	6,016.53
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-10,059.22	
11 41 23 00-0078 EA 18' x 36' Walk-in Refrigerated Box, 7'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	50,910.36	6,506.76
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-10,547.69	
11 41 23 00-0079 Walk-In Refrigerated Unit, 8'6" High With Floor <small>(11 41 23 00-0001)</small>		
<small>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 6', 7', 8' and 9' wide.</small>		
11 41 23 00-0080 EA 6' x 6' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	8,012.20	1,069.60
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,646.45	
11 41 23 00-0081 EA 6' x 8' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	9,233.24	1,203.31
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-1,907.21	
11 41 23 00-0082 EA 6' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	10,137.96	1,337.00
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,088.82	
11 41 23 00-0083 EA 6' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	11,493.06	1,604.40
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,338.75	
11 41 23 00-0084 EA 6' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,205.66	1,871.80
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,677.81	
11 41 23 00-0085 EA 6' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,623.73	2,139.21
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,942.74	
11 41 23 00-0086 EA 6' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	15,976.13	2,406.61
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,191.83	
11 41 23 00-0087 EA 8' x 8' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	10,558.94	1,337.00
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,194.07	
11 41 23 00-0088 EA 8' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	11,538.68	1,470.71
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,394.57	
11 41 23 00-0089 EA 8' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,020.88	1,738.11
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,675.59	
11 41 23 00-0090 EA 8' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,890.38	2,005.51
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,054.09	
11 41 23 00-0091 EA 8' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,394.37	2,272.91
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,341.23	
11 41 23 00-0092 EA 8' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	17,901.13	2,540.31
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,628.36	
11 41 23 00-0093 EA 8' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,403.62	2,807.71
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,915.50	
11 41 23 00-0094 EA 8' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	20,906.24	3,075.11
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,201.25	
11 41 23 00-0095 EA 8' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,415.78	3,342.51
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,489.77	
11 41 23 00-0096 Walk-In Refrigerated Unit, 8'6" High With Floor <small>(11 41 23 00-0001)</small>		
<small>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 10', 11' and 12' wide.</small>		
11 41 23 00-0097 EA 10' x 10' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	13,021.49	1,604.40
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-2,720.86	
11 41 23 00-0098 EA 10' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	14,628.57	1,871.80
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,033.54	
11 41 23 00-0099 EA 10' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	16,258.79	2,139.21
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,351.50	
11 41 23 00-0100 EA 10' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	17,844.46	2,406.61
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,658.91	
11 41 23 00-0101 EA 10' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	19,496.32	2,674.02
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,983.54	
11 41 23 00-0102 EA 10' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	21,082.90	2,941.42
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,289.56	
11 41 23 00-0103 EA 10' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	22,739.53	3,208.82
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,615.85	

11	Equipment
11 40	Foodservice Equipment
11 41	Foodservice Storage Equipment



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0104	EA	10' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	24,318.01	3,476.22
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,921.59	
11 41 23 00-0105	EA	10' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	25,973.69	3,743.62
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,246.22	
11 41 23 00-0106	EA	10' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	27,562.51	4,011.02
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,553.62	
11 41 23 00-0107	EA	10' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	29,395.36	4,412.12
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,878.53	
11 41 23 00-0108	EA	10' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	31,144.44	4,746.37
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,184.27	
11 41 23 00-0109	EA	12' x 12' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	16,148.89	2,005.51
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,368.72	
11 41 23 00-0110	EA	12' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	17,943.91	2,272.91
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-3,728.61	
11 41 23 00-0111	EA	12' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	19,642.83	2,540.31
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,063.79	
11 41 23 00-0112	EA	12' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	21,429.68	2,807.71
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,422.02	
11 41 23 00-0113	EA	12' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	23,136.69	3,075.11
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,758.86	
11 41 23 00-0114	EA	12' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	24,923.92	3,342.51
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,116.81	
11 41 23 00-0115	EA	12' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	26,617.32	3,609.91
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,451.99	
11 41 23 00-0116	EA	12' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	28,416.34	3,877.31
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,811.88	
11 41 23 00-0117	EA	12' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	30,205.91	4,211.57
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,147.06	
11 41 23 00-0118	EA	12' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	32,173.00	4,612.67
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,505.28	
11 41 23 00-0119	EA	12' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	34,053.54	5,013.77
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,842.13	
11 41 23 00-0120	EA	12' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	36,014.36	5,414.88
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,200.08	
11 41 23 00-0121	EA	12' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	37,884.30	5,815.97
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,535.26	
11 41 23 00-0122		Walk-In Refrigerated Unit, 8'6" High With Floor <small>(11 41 23 00-0001)</small> Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 13', 14' and 15' wide.		
11 41 23 00-0123	EA	14' x 14' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	21,067.94	2,406.61
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,464.78	
11 41 23 00-0124	EA	14' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	23,101.91	2,674.02
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-4,884.93	
11 41 23 00-0125	EA	14' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	25,252.77	2,941.42
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,332.02	
11 41 23 00-0126	EA	14' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	27,285.95	3,208.82
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,752.45	
11 41 23 00-0127	EA	14' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	29,423.16	3,476.22
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,197.88	
11 41 23 00-0128	EA	14' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	31,468.71	3,743.62
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,619.97	
11 41 23 00-0129	EA	14' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	33,609.60	4,011.02
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,065.40	
11 41 23 00-0130	EA	14' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door	35,824.56	4,412.12
		<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,485.83	



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0131 EA 14' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	38,139.02	4,813.22
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,932.91	
11 41 23 00-0132 EA 14' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	40,375.83	5,214.33
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,353.07	
11 41 23 00-0133 EA 14' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	42,678.30	5,615.42
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,798.77	
11 41 23 00-0134 EA 14' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	44,904.38	6,016.53
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,220.59	
11 41 23 00-0135 Walk-In Refrigerated Unit, 8'6" High With Floor <small>(11 41 23 00-0001)</small>		
<i>Note: 10 Gauge smooth aluminum floor, galvalume® exterior and interior panels (walls and ceiling), includes 36" x 78" hinged door. Excludes extra accessories, refrigeration, partitions or roof. 16', 17' and 18' wide.</i>		
11 41 23 00-0136 EA 16' x 16' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	25,238.55	2,807.71
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,374.23	
11 41 23 00-0137 EA 16' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	27,529.82	3,075.11
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-5,857.14	
11 41 23 00-0138 EA 16' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,790.25	3,342.51
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,333.39	
11 41 23 00-0139 EA 16' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	32,081.25	3,609.91
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,817.97	
11 41 23 00-0140 EA 16' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	34,345.69	3,877.31
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,294.22	
11 41 23 00-0141 EA 16' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	36,726.18	4,211.57
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,777.13	
11 41 23 00-0142 EA 16' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	39,172.03	4,612.67
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,255.04	
11 41 23 00-0143 EA 16' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	41,636.83	5,013.77
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,737.95	
11 41 23 00-0144 EA 16' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	44,070.85	5,414.88
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,214.20	
11 41 23 00-0145 EA 16' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	46,538.38	5,815.97
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,698.78	
11 41 23 00-0146 EA 18' x 18' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	29,423.09	3,208.82
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,286.74	
11 41 23 00-0147 EA 18' x 20' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	31,813.56	3,476.22
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-6,795.48	
11 41 23 00-0148 EA 18' x 22' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	34,282.32	3,743.62
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,323.37	
11 41 23 00-0149 EA 18' x 24' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	36,670.91	4,011.02
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-7,830.72	
11 41 23 00-0150 EA 18' x 26' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	39,321.29	4,412.12
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,360.01	
11 41 23 00-0151 EA 18' x 28' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	41,876.80	4,813.22
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-8,867.36	
11 41 23 00-0152 EA 18' x 30' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	44,544.59	5,214.33
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,395.26	
11 41 23 00-0153 EA 18' x 32' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	47,099.21	5,615.42
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-9,903.99	
11 41 23 00-0154 EA 18' x 34' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	49,749.60	6,016.53
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-10,431.89	
11 41 23 00-0155 EA 18' x 36' Walk-in Refrigerated Box, 8'-6" High With 10 Gauge Smooth Aluminum Floor, Galvalume Exterior And Interior Panels (Walls And Ceiling), 36" x 78" Hinged Door.....	52,476.56	6,506.76
<i>For Refrigerated Boxes Without Floor, Deduct</i>	-10,939.24	
11 41 23 00-0156 Walk-In Refrigerated Unit Metal Price Add-Ons <small>(11 41 23 00-0001)</small>		
11 41 23 00-0157 SF Metal Price Add-on, 190 Series Embossed White Polyester vs. 24 Gauge Galvalume®.....	0.47	
11 41 23 00-0158 SF Metal Price Add-ons, 24 Gauge White Polyester vs. 24 Gauge Galvalume®.....	0.88	
11 41 23 00-0159 SF Metal Price Add-ons, 0.038" Stucco Embossed Aluminum vs. 24 Gauge Galvalume®.....	1.23	
11 41 23 00-0160 SF Metal Price Add-ons, 22 Gauge Stainless Steel vs. 24 Gauge Galvalume®.....	8.66	
11 41 23 00-0161 SF Metal Price Add-ons, 20 Gauge Stainless Steel vs. 24 Gauge Galvalume®.....	11.33	

11	11 Equipment
	11 40 Foodservice Equipment
	11 41 Foodservice Storage Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0162 SF Metal Price Add-ons, 24 Gauge Embossed Tan Polyester vs. 24 Gauge Galvalume®	1.40	
11 41 23 00-0163 SF Metal Price Add-ons, 0.040" Embossed White Aluminum vs. 24 Gauge Galvalume®	3.44	
11 41 23 00-0164 SF Metal Price Add-ons, 0.040" Smooth White Aluminum vs. 24 Gauge Galvalume®	4.44	
11 41 23 00-0165 SF Metal Price Add-ons, 24 Gauge Smooth Kynar® Painted vs. 24 Gauge Galvalume®	4.67	
11 41 23 00-0166 SF Metal Price Deducts, 14 GA Galvanized vs. 10 Gauge Smooth Aluminum Interior Floor	-6.27	
11 41 23 00-0167 SF Metal Price Add-ons, 16 GA Stainless Steel Type 430 vs. 10 Gauge Smooth Aluminum Interior Floor	2.61	
11 41 23 00-0168 SF Metal Price Add-ons, 16 GA Stainless Steel Type 304 vs. 10 Gauge Smooth Aluminum Interior Floor	6.78	
11 41 23 00-0169 SF Metal Price Add-ons, 12 GA Rigid Aluminum vs. 10 Gauge Smooth Aluminum Interior Floor	5.95	
11 41 23 00-0170 SF Metal Price Add-ons, 16 GA Rigid Stainless Steel vs. 10 Gauge Smooth Aluminum Interior Floor	19.27	
11 41 23 00-0171 Air Cooled Condensing Units For Walk-In Coolers And Freezers (11 41 23)		
11 41 23 00-0172 Medium Temperature Hermetic System, Indoor (11 41 23 00-0171) Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0173 208/230 Volt, 1 Phase (11 41 23 00-0172) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0174 EA 1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	2,869.61	133.13
11 41 23 00-0175 EA 3/4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,036.38	155.33
11 41 23 00-0176 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,498.07	177.51
11 41 23 00-0177 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,776.12	199.70
11 41 23 00-0178 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,160.64	221.89
11 41 23 00-0179 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,682.66	266.27
11 41 23 00-0180 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	6,342.01	310.64
11 41 23 00-0181 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	6,811.84	355.02
11 41 23 00-0182 208/230 Volt, 3 Phase (11 41 23 00-0172) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0183 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,502.94	177.51
11 41 23 00-0184 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,776.12	199.70
11 41 23 00-0185 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,204.46	221.89
11 41 23 00-0186 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,630.49	266.27
11 41 23 00-0187 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	6,342.01	310.64
11 41 23 00-0188 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	6,751.33	355.02
11 41 23 00-0189 Medium Temperature Hermetic System, Outdoor (11 41 23 00-0171) Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0190 208/230 Volt, 1 Phase (11 41 23 00-0189) Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0191 EA 1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,071.31	133.13
11 41 23 00-0192 EA 3/4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,384.14	155.33
11 41 23 00-0193 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,902.17	177.51
11 41 23 00-0194 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,070.32	199.70
11 41 23 00-0195 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,371.38	221.89
11 41 23 00-0196 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,983.12	266.27
11 41 23 00-0197 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	6,647.35	310.64
11 41 23 00-0198 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	7,119.26	355.02
11 41 23 00-0199 208/230 Volt, 3 Phase (11 41 23 00-0189) Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0200 EA 1 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,876.44	177.51
11 41 23 00-0201 EA 1-1/2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,080.76	199.70
11 41 23 00-0202 EA 2 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,425.63	221.89
11 41 23 00-0203 EA 3 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,931.65	266.27
11 41 23 00-0204 EA 4 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	6,663.34	310.64
11 41 23 00-0205 EA 5 HP Medium Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	7,055.27	355.02
11 41 23 00-0206 Low Temperature Hermetic System, Indoor (11 41 23 00-0171) Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0207 208/230 Volt, 1 Phase (11 41 23 00-0206) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0208 EA 1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	266.28	133.13
11 41 23 00-0209 EA 3/4 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,379.97	155.33
11 41 23 00-0210 EA 1 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,546.76	177.51
11 41 23 00-0211 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,791.42	199.70
11 41 23 00-0212 EA 2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,126.56	221.89
11 41 23 00-0213 EA 3 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,873.93	266.27
11 41 23 00-0214 208/230 Volt, 3 Phase (11 41 23 00-0206) Note: Pre-Assembled indoor R404a.		
11 41 23 00-0215 EA 1 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,551.63	177.51



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0216 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,791.42	199.70
11 41 23 00-0217 EA 2 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,171.77	221.89
11 41 23 00-0218 EA 3 HP Low Temperature Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,823.85	266.27
11 41 23 00-0219 Low Temperature Hermetic System, Outdoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0220 208/230 Volt, 1 Phase <small>(11 41 23 00-0219)</small> Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0221 EA 1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,610.34	133.13
11 41 23 00-0222 EA 3/4 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,670.70	155.33
11 41 23 00-0223 EA 1 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,873.66	177.51
11 41 23 00-0224 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,201.08	199.70
11 41 23 00-0225 EA 2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,584.91	221.89
11 41 23 00-0226 EA 3 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	5,166.04	266.27
11 41 23 00-0227 208/230 Volt, 3 Phase <small>(11 41 23 00-0219)</small> Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0228 EA 1 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,999.54	177.51
11 41 23 00-0229 EA 1-1/2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,262.98	199.70
11 41 23 00-0230 EA 2 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,634.98	221.89
11 41 23 00-0231 EA 3 HP Low Temperature Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	5,115.27	266.27
11 41 23 00-0232 Medium Temperature Semi-Hermetic System, Indoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0233 208/230 Volt, 1 Phase <small>(11 41 23 00-0232)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0234 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,708.82	177.51
11 41 23 00-0235 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	8,472.74	355.02
11 41 23 00-0236 208/230 Volt, 3 Phase <small>(11 41 23 00-0232)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0237 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	3,711.60	177.51
11 41 23 00-0238 EA 2 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	5,126.02	221.89
11 41 23 00-0239 EA 3 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	6,395.72	266.27
11 41 23 00-0240 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	8,359.37	355.02
11 41 23 00-0241 Medium Temperature Semi-Hermetic System, Outdoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0242 208/230 Volt, 1 Phase <small>(11 41 23 00-0241)</small> Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0243 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,059.36	177.51
11 41 23 00-0244 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	9,986.89	355.02
11 41 23 00-0245 208/230 Volt, 3 Phase <small>(11 41 23 00-0241)</small> Note: Pre-Assembled outdoor R404a.		
11 41 23 00-0246 EA 1 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,066.31	177.51
11 41 23 00-0247 EA 2 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	4,804.69	221.89
11 41 23 00-0248 EA 3 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	6,896.50	266.27
11 41 23 00-0249 EA 5 HP Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 3 Phase, 60 Hertz	9,034.72	355.02
11 41 23 00-0250 Low Temperature Semi-Hermetic System, Indoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.		
11 41 23 00-0251 208/230 Volt, 1 Phase <small>(11 41 23 00-0250)</small> Note: Pre-Assembled indoor R404a.		
11 41 23 00-0252 EA 3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	3,784.07	155.33
11 41 23 00-0253 EA 1 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,046.84	177.51
11 41 23 00-0254 EA 1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz	4,745.67	199.70

11	11 Equipment
	11 40 Foodservice Equipment
	11 41 Foodservice Storage Equipment



MINOR		TOTAL DIRECT		DEMOLITION	
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST	UNIT COST
11 41 23 00-0255	EA	2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,494.65		221.89
11 41 23 00-0256	EA	3 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	6,941.71		266.27
11 41 23 00-0257		208/230 Volt, 3 Phase <small>(11 41 23 00-0250)</small> Note: Pre-Assembled indoor R404a.			
11 41 23 00-0258	EA	3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	3,764.59		155.33
11 41 23 00-0259	EA	1 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	4,044.06		177.51
11 41 23 00-0260	EA	1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	4,719.24		199.70
11 41 23 00-0261	EA	2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	5,448.74		221.89
11 41 23 00-0262	EA	3 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	6,697.58		266.27
11 41 23 00-0263	EA	4 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	9,342.49		310.64
11 41 23 00-0264	EA	6 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	9,879.45		399.40
11 41 23 00-0265	EA	7-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Indoor R404a, 208/230 Volt, 3 Phase, 60 Hertz.....	14,201.04		465.97
11 41 23 00-0266		Low Temperature Semi-Hermetic System, Outdoor <small>(11 41 23 00-0171)</small> Note: Consists of air cooled semi-hermetic condensing unit, evaporator, and standard indoor features as described by manufacturer; Bally.			
11 41 23 00-0267		208/230 Volt, 1 Phase <small>(11 41 23 00-0266)</small> Note: Pre-Assembled outdoor R404a.			
11 41 23 00-0268	EA	3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,161.73		155.33
11 41 23 00-0269	EA	1 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,368.17		177.51
11 41 23 00-0270	EA	1-1/2 Low Medium Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,080.22		199.70
11 41 23 00-0271	EA	2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,834.06		221.89
11 41 23 00-0272	EA	3 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	7,304.07		266.27
11 41 23 00-0273		208/230 Volt, 3 Phase <small>(11 41 23 00-0266)</small> Note: Pre-Assembled outdoor R404a.			
11 41 23 00-0274	EA	3/4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,100.53		155.33
11 41 23 00-0275	EA	1 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	4,370.95		177.51
11 41 23 00-0276	EA	1-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,069.79		199.70
11 41 23 00-0277	EA	2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	5,782.59		221.89
11 41 23 00-0278	EA	3 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	7,083.59		266.27
11 41 23 00-0279	EA	4 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	10,299.52		310.64
11 41 23 00-0280	EA	6 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	10,897.69		399.40
11 41 23 00-0281	EA	7-1/2 HP Low Temperature Semi-Hermetic System Pre-Assembled Outdoor R404a, 208/230 Volt, 1 Phase, 60 Hertz.....	15,299.96		465.97
11 41 23 00-0282		Walk-In Refrigerated Boxes Accessories <small>(11 41 23)</small>			
11 41 23 00-0283		Accessories <small>(11 41 23 00-0282)</small>			
11 41 23 00-0284	EA	Super Door Package, For 36" Or 42" Door..... Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.	620.42		
11 41 23 00-0285	EA	Super Door Package, For 48" Door..... Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.	830.36		
11 41 23 00-0286	EA	Super Door Package, For 60" Door..... Note: Includes 1/8" diamond-tread on cap and frame (interior and exterior), and 3rd hinge for support.	830.36		
11 41 23 00-0287	EA	14" x 24" Observation Window, Heated.....	933.47		
11 41 23 00-0288	EA	Heated Air Vent, Kason.....	350.31		
11 41 23 00-0289	EA	Heated Air Vent, Bally Polyvinyl Chloride (PVC).....	800.18		
11 41 23 00-0290	EA	Interior Ramps For 36" Or 42" Wide Doors.....	1,144.37		
11 41 23 00-0291	EA	Interior Ramps For 48" Wide Doors.....	1,249.90		
11 41 23 00-0292	EA	Interior Ramps For 60" Wide Doors.....	1,372.08		
11 41 23 00-0293	EA	Exterior Ramps For 36" Or 42" Wide Doors.....	471.24		
11 41 23 00-0294	EA	Exterior Ramps For 48" Wide Doors.....	853.35		
11 41 23 00-0295	EA	Exterior Ramps For 60" Wide Doors.....	853.35		
11 41 23 00-0296	EA	Field Installed Extra Vapor-Proof Lights.....	114.61		
11 41 23 00-0297	EA	Field Installed Fluorescent Lights, 48", 2 Tubes.....	511.16		
11 41 23 00-0298	EA	Alarm With Digital Thermostat Modularm 75 With Adjustable Setting (Flush Mounted).....	1,122.09		
11 41 23 00-0299	EA	Alarm With Digital Thermostat Modularm 75B (Battery Backup) (Flush Mounted).....	1,178.74		
11 41 23 00-0300	EA	Alarm With Digital Thermostat National TM100 With Adjustable Setting (Flush Mounted).....	566.70		
11 41 23 00-0301	EA	Locking Devices, 36" Or 42" Wide Locking Bar.....	323.44		
11 41 23 00-0302	EA	Locking Devices, 48" Wide Locking Bar.....	367.87		
11 41 23 00-0303	EA	Locking Devices, 60" Wide Locking Bar.....	367.87		
11 41 23 00-0304	EA	Locking Devices, Mortise Dead Bolt (Cooler).....	647.79		
11 41 23 00-0305	EA	Locking Devices, Mortise Dead Bolt (Freezer).....	794.41		
11 41 23 00-0306	EA	Blast Freezer Kit, For 36" Or 42" Wide Doors.....	1,282.11		
11 41 23 00-0307	EA	Blast Freezer Kit, For 48" Wide Doors.....	1,353.20		
11 41 23 00-0308	EA	Blast Freezer Kit, For 60" Wide Doors.....	1,390.96		
11 41 23 00-0309	EA	Hardware Options, Polished For 36" Or 42" Door.....	61.09		
11 41 23 00-0310	EA	Hardware Options, Polished For 48" Or 60" Door.....	49.99		
11 41 23 00-0311	EA	Hardware Options, Chrome For 36" Or 42" Door.....	154.40		
11 41 23 00-0312	EA	Hardware Options, Chrome For 48" Or 60" Door.....	83.31		



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0313 EA Hardware Options, Positive Latch, 36" Or 42" Door.....	200.00	
11 41 23 00-0314 EA Hardware Options, Strap Hinges, 36" Or 42" Door.....	146.69	
11 41 23 00-0315 EA 4" Screed Door.....	396.96	
11 41 23 00-0316 EA Doors Cut For Tile.....	476.94	
11 41 23 00-0317 EA 84" High Doors (36" Wide).....	476.94	
11 41 23 00-0318 EA Doors Raised Or Lowered In Panel.....	1,064.54	
11 41 23 00-0319 EA 57-1/2" Door Section.....	311.43	
11 41 23 00-0320 EA 3 Way, Interior And Exterior, Light Switches.....	262.35	
11 41 23 00-0321 EA 3 Way (1 Side Only) Light Switch.....	133.41	
11 41 23 00-0322 EA Structural Support, 5" Reinforcing Ceilings (Every 23").....	238.96	
11 41 23 00-0323 EA Structural Support, 6" Reinforcing Ceilings (Every 23").....	301.16	
11 41 23 00-0324 LF Structural Support, Self-Supporting Standard Angle.....	32.23	
11 41 23 00-0325 LF Structural Support, Self-Supporting 6" Channel.....	41.39	
11 41 23 00-0326 LF Structural Support, Self-Supporting 8" Channel.....	59.44	
11 41 23 00-0327 LF Structural Support, Self-Supporting 10" Channel.....	94.15	
11 41 23 00-0328 LF Structural Support, Suspended Ceiling Support.....	17.67	
11 41 23 00-0329 LF Factory Prepared Opening, Foam Cut Opening.....	6.32	
11 41 23 00-0330 LF Factory Prepared Opening, Metal Capped Opening.....	19.44	
11 41 23 00-0331 LF Factory Prepared Opening, Wood Framed Opening.....	16.70	
11 41 23 00-0332 LF Factory Prepared Opening, Metal Capped Wood Framed Opening.....	29.99	
11 41 23 00-0333 LF Factory Prepared Opening, Opening For Glass Doors (Doors Provided By Others, No Charge For Opening When Glass Door Purchased Through Manufacturer).....	38.56	
11 41 23 00-0334 SF Outdoor Weather Roofs, Aluminum Roof Caps.....	23.89	
11 41 23 00-0335 SF Outdoor Weather Roofs, Membrane Roof Caps.....	6.11	
11 41 23 00-0336 SF Outdoor Weather Roofs, Painted Aluminum Roofs.....	29.67	
11 41 23 00-0337 SF 1/8" Aluminum Tread Plate.....	59.20	
11 41 23 00-0338 SF 3/16" Aluminum Tread Plate.....	71.77	
11 41 23 00-0339 EA Digitemp Display Thermometer (Indoor Exterior Wall).....	254.48	
11 41 23 00-0340 EA 4-1/2" Dial Type Thermometer With 5' Cap Tube.....	228.94	
11 41 23 00-0341 EA 6" Dial Type Thermometer With 5' Cap Tube.....	729.90	
11 41 23 00-0342 EA 2" Dial Type Thermometer (Standard).....	82.31	
11 41 23 00-0343 LF Extra Capillary Tubing.....	9.89	
11 41 23 00-0344 Partition Wall For Walk-In Refrigerated Boxes <small>(11 41 23 00-0282)</small>		
Note: Includes 36" x 78" door. Sizes listed as 7'-2"/7'-6" are for either 7'-2" or 7'-6" high refrigerated boxes. Sizes listed as 8'-2"/8'-6" are for either 8'-2" or 8'-6" high refrigerated boxes.		
11 41 23 00-0345 EA 5'-10" Length Partition Wall, 7'-2"/7'-6" High.....	2,617.27	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0346 EA 6'-9-1/2" Length Partition Wall, 7'-2"/7'-6" High.....	2,850.55	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0347 EA 7'-9" Length Partition Wall, 7'-2"/7'-6" High.....	2,932.76	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0348 EA 8'-8-1/2" Length Partition Wall, 7'-2"/7'-6" High.....	3,170.47	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0349 EA 9'-8" Length Partition Wall, 7'-2"/7'-6" High.....	3,106.07	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0350 EA 10'-7-1/2" Length Partition Wall, 7'-2"/7'-6" High.....	3,338.23	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0351 EA 11'-7" Length Partition Wall, 7'-2"/7'-6" High.....	3,409.34	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0352 EA 12'-6-1/2" Length Partition Wall, 7'-2"/7'-6" High.....	3,739.25	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0353 EA 13'-6" Length Partition Wall, 7'-2"/7'-6" High.....	3,594.87	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0354 EA 14'-5-1/2" Length Partition Wall, 7'-2"/7'-6" High.....	3,828.14	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0355 EA 15'-5" Length Partition Wall, 7'-2"/7'-6" High.....	3,915.92	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0356 EA 16'-4-1/2" Length Partition Wall, 7'-2"/7'-6" High.....	4,150.30	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0357 EA 17'-4" Length Partition Wall, 7'-2"/7'-6" High.....	4,779.14	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0358 EA 5'-10" Length Partition Wall, 8'-2"/8'-6" High.....	2,854.97	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
11 41 23 00-0359 EA 6'-9-1/2" Length Partition Wall, 8'-2"/8'-6" High.....	3,052.71	
Note: Galvalume both sides.		
<i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>		
	147.96	

11	Equipment
11 40	Foodservice Equipment
11 41	Foodservice Storage Equipment



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0360	EA	7'-9" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	3,149.36 152.57	
11 41 23 00-0361	EA	8'-8-1/2" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	3,412.62 165.51	
11 41 23 00-0362	EA	9'-8" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	3,334.89 161.40	
11 41 23 00-0363	EA	10'-7-1/2" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	3,597.04 174.28	
11 41 23 00-0364	EA	11'-7" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	3,694.81 178.95	
11 41 23 00-0365	EA	12'-6-1/2" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	3,956.96 191.83	
11 41 23 00-0366	EA	13'-6" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	3,879.23 187.72	
11 41 23 00-0367	EA	14'-5-1/2" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	4,141.38 200.61	
11 41 23 00-0368	EA	15'-5" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	4,239.15 205.27	
11 41 23 00-0369	EA	16'-4-1/2" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	4,501.30 218.16	
11 41 23 00-0370	EA	17'-4" Length Partition Wall, 8'-2"/8'-6" High Note: Galvalume both sides. <i>For Embossed White Instead Of Galvalume® On Both Sides, Add</i>	4,423.56 214.05	
11 41 23 00-0371		Glass Doors For Walk-In Refrigerated Boxes (11 41 23 00-0282) Note: Factory installed, includes lights and 5 tier shelves.		
11 41 23 00-0372	EA	23" x 67" Glass Door, Displayrite, Coolrite Model	1,103.00	
11 41 23 00-0373	EA	23" x 73" Glass Door, Displayrite, Coolrite Model	1,205.20	
11 41 23 00-0374	EA	30" x 67" Glass Door, Displayrite, Coolrite Model	1,215.19	
11 41 23 00-0375	EA	30" x 73" Glass Door, Displayrite, Coolrite Model	1,344.04	
11 41 23 00-0376	EA	23" x 67" Glass Door, Displayrite, Freezerite Model	1,475.12	
11 41 23 00-0377	EA	23" x 73" Glass Door, Displayrite, Freezerite Model	1,568.42	
11 41 23 00-0378	EA	30" x 67" Glass Door, Displayrite, Freezerite Model	1,573.98	
11 41 23 00-0379	EA	30" x 73" Glass Door, Displayrite, Freezerite Model	1,831.68	
11 41 23 00-0380	EA	24" x 67" Glass Door, Anthony Model 101	1,499.55	
11 41 23 00-0381	EA	26" x 67" Glass Door, Anthony Model 101	1,857.22	
11 41 23 00-0382	EA	30" x 67" Glass Door, Anthony Model 101	1,982.74	
11 41 23 00-0383	EA	30x75 Glass Door, Anthony Model 101	2,024.95	
11 41 23 00-0384	EA	24" x 67" Glass Door, Anthony Model 101	2,283.76	
11 41 23 00-0385	EA	26" x 67" Glass Door, Anthony Model 101	2,534.80	
11 41 23 00-0386	EA	30" x 67" Glass Door, Anthony Model 101	2,581.45	
11 41 23 00-0387	EA	30" x 75" Glass Door, Anthony Model 101	2,753.62	
11 41 23 00-0388	EA	23" x 67" Glass Door, Anthony Model 401	1,184.09	
11 41 23 00-0389	EA	26-3/4" x 67" Glass Door, Anthony Model 401	1,247.41	
11 41 23 00-0390	EA	30-1/4" x 67" Glass Door, Anthony Model 401	1,677.28	
11 41 23 00-0391	EA	30-1/4" x 75" Glass Door, Anthony Model 401	1,438.46	
11 41 23 00-0392	EA	23" x 67" Glass Door, Anthony Model 401	1,597.30	
11 41 23 00-0393	EA	26-3/4" x 67" Glass Door, Anthony Model 401	1,671.72	
11 41 23 00-0394	EA	30-1/4" x 67" Glass Door, Anthony Model 401	1,677.28	
11 41 23 00-0395	EA	30-1/4" x 75" Glass Door, Anthony Model 401	1,997.18	
11 41 23 00-0396		Modular Wire Shelving For Walk-In Refrigerated Boxes (11 41 23 00-0282)		
11 41 23 00-0397	EA	14" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts <i>For Cantilever Shelving, Add</i>	408.97 402.00	
11 41 23 00-0398	EA	14" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts <i>For Cantilever Shelving, Add</i>	431.19 402.00	
11 41 23 00-0399	EA	14" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts <i>For Cantilever Shelving, Add</i>	480.09 402.00	
11 41 23 00-0400	EA	14" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts <i>For Cantilever Shelving, Add</i>	506.76 402.00	
11 41 23 00-0401	EA	14" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts <i>For Cantilever Shelving, Add</i>	551.21 402.00	
11 41 23 00-0402	EA	18" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts <i>For Cantilever Shelving, Add</i>	471.18 402.00	
11 41 23 00-0403	EA	18" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts <i>For Cantilever Shelving, Add</i>	483.43 402.00	
11 41 23 00-0404	EA	18" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts <i>For Cantilever Shelving, Add</i>	533.42 402.00	
11 41 23 00-0405	EA	18" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts <i>For Cantilever Shelving, Add</i>	557.87 402.00	



	Equipment	11
	Foodservice Equipment	11 40
	Foodservice Storage Equipment	11 41

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0406	EA		18" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	636.76 402.00	
11 41 23 00-0407	EA		21" x 30" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	513.42 402.00	
11 41 23 00-0408	EA		21" x 36" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	520.09 402.00	
11 41 23 00-0409	EA		21" x 42" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	592.31 402.00	
11 41 23 00-0410	EA		21" x 48" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	596.76 402.00	
11 41 23 00-0411	EA		21" x 60" Epoxy Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	686.76 402.00	
11 41 23 00-0412	EA		14" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	351.21 402.00	
11 41 23 00-0413	EA		14" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	368.99 402.00	
11 41 23 00-0414	EA		14" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	404.56 402.00	
11 41 23 00-0415	EA		14" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	413.45 402.00	
11 41 23 00-0416	EA		14" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	471.24 402.00	
11 41 23 00-0417	EA		18" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	386.76 402.00	
11 41 23 00-0418	EA		18" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	414.56 402.00	
11 41 23 00-0419	EA		18" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	439.00 402.00	
11 41 23 00-0420	EA		18" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	445.68 402.00	
11 41 23 00-0421	EA		18" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	524.57 402.00	
11 41 23 00-0422	EA		21" x 30" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	424.55 402.00	
11 41 23 00-0423	EA		21" x 36" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	441.22 402.00	
11 41 23 00-0424	EA		21" x 42" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	473.45 402.00	
11 41 23 00-0425	EA		21" x 48" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	491.23 402.00	
11 41 23 00-0426	EA		21" x 60" Chrome Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	572.35 402.00	
11 41 23 00-0427	EA		14" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,712.05 402.00	
11 41 23 00-0428	EA		14" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,910.44 402.00	
11 41 23 00-0429	EA		14" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,948.35 402.00	
11 41 23 00-0430	EA		14" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,986.24 402.00	
11 41 23 00-0431	EA		14" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,403.11 402.00	
11 41 23 00-0432	EA		18" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,796.75 402.00	
11 41 23 00-0433	EA		18" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,908.23 402.00	
11 41 23 00-0434	EA		18" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,113.31 402.00	
11 41 23 00-0435	EA		18" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,198.02 402.00	
11 41 23 00-0436	EA		18" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,688.46 402.00	
11 41 23 00-0437	EA		21" x 30" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	1,941.67 402.00	
11 41 23 00-0438	EA		21" x 36" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,120.00 402.00	
11 41 23 00-0439	EA		21" x 42" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,325.09 402.00	
11 41 23 00-0440	EA		21" x 48" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	2,409.80 402.00	
11 41 23 00-0441	EA		21" x 60" Stainless Steel Modular Wire Shelving, 4 Tier, 63" Posts..... <i>For Cantilever Shelving, Add</i>	3,060.75 402.00	
11 41 23 00-0442	EA		14" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	482.32 472.00	
11 41 23 00-0443	EA		14" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	520.11 472.00	
11 41 23 00-0444	EA		14" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	563.43 472.00	
11 41 23 00-0445	EA		14" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	603.44 472.00	
11 41 23 00-0446	EA		14" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	654.56 472.00	
11 41 23 00-0447	EA		18" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	570.09 472.00	

11 Equipment**11 40 Foodservice Equipment****11 41 Foodservice Storage Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 23 00-0448 EA 18" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	584.54 472.00	
11 41 23 00-0449 EA 18" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	644.54 472.00	
11 41 23 00-0450 EA 18" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	675.66 472.00	
11 41 23 00-0451 EA 18" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	771.21 472.00	
11 41 23 00-0452 EA 21" x 30" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	621.19 472.00	
11 41 23 00-0453 EA 21" x 36" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	641.20 472.00	
11 41 23 00-0454 EA 21" x 42" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	708.98 472.00	
11 41 23 00-0455 EA 21" x 48" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	724.54 472.00	
11 41 23 00-0456 EA 21" x 60" Epoxy Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	831.20 472.00	
11 41 23 00-0457 EA 14" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	412.34 472.00	
11 41 23 00-0458 EA 14" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	433.46 472.00	
11 41 23 00-0459 EA 14" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	476.79 472.00	
11 41 23 00-0460 EA 14" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	486.81 472.00	
11 41 23 00-0461 EA 14" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	556.81 472.00	
11 41 23 00-0462 EA 18" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	465.68 472.00	
11 41 23 00-0463 EA 18" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	497.90 472.00	
11 41 23 00-0464 EA 18" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	566.78 472.00	
11 41 23 00-0465 EA 18" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	562.36 472.00	
11 41 23 00-0466 EA 18" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	629.03 472.00	
11 41 23 00-0467 EA 21" x 30" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	511.23 472.00	
11 41 23 00-0468 EA 21" x 36" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	531.24 472.00	
11 41 23 00-0469 EA 21" x 42" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	571.24 472.00	
11 41 23 00-0470 EA 21" x 48" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	591.24 472.00	
11 41 23 00-0471 EA 21" x 60" Chrome Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	691.24 472.00	
11 41 23 00-0472 EA 14" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,089.90 472.00	
11 41 23 00-0473 EA 14" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,336.80 472.00	
11 41 23 00-0474 EA 14" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,383.05 472.00	
11 41 23 00-0475 EA 14" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,429.30 472.00	
11 41 23 00-0476 EA 14" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,948.16 472.00	
11 41 23 00-0477 EA 18" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,194.68 472.00	
11 41 23 00-0478 EA 18" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,332.89 472.00	
11 41 23 00-0479 EA 18" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,588.14 472.00	
11 41 23 00-0480 EA 18" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,692.92 472.00	
11 41 23 00-0481 EA 18" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	3,303.73 472.00	
11 41 23 00-0482 EA 21" x 30" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,374.69 472.00	
11 41 23 00-0483 EA 21" x 36" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,596.50 472.00	
11 41 23 00-0484 EA 21" x 42" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,851.75 472.00	
11 41 23 00-0485 EA 21" x 48" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	2,956.52 472.00	
11 41 23 00-0486 EA 21" x 60" Stainless Steel Modular Wire Shelving, 5 Tier, 74" Posts..... <i>For Cantilever Shelving, Add</i>	3,767.96 472.00	

11 41 31 Non-Refrigerated Storage Equipment (11 41)

11 41 31 00-0001 Wall Cabinets (11 41 31)



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 31 00-0002	EA		48" Wall Cabinet With Sliding Doors Note: 15" deep and 24" high.	1,801.96	69.21
11 41 31 00-0003	EA		72" Wall Cabinet With Sliding Doors Note: 15" deep and 24" high.	2,377.64	91.36
11 41 31 00-0004	EA		72" Wall Cabinet With Hinged Doors Note: 15" deep and 24" high.	2,729.02	104.74
11 41 31 00-0005	EA		72" Wall Cabinet With Open Shelves Note: 15" deep and 24" high.	1,746.55	66.82
11 41 31 00-0006			Mobile Sheet Pan Truck <small>(11 41 31)</small>		
11 41 31 00-0007	EA		2 Level Mobile Sheet Pan Truck	168.43	6.04
11 41 31 00-0008			Pot And Utensil Rack <small>(11 41 31)</small>		
11 41 31 00-0009	EA		70" Bench Type Pot And Utensil Rack.....	491.50	18.41
11 41 31 00-0010	EA		94" Bench Type Pot And Utensil Rack.....	569.53	20.80
11 41 31 00-0011	EA		94" Ceiling Type Pot And Utensil Rack.....	677.13	24.92
11 41 31 00-0012	EA		96" Wall Type Pot And Utensil Rack.....	368.25	13.61
11 41 31 00-0013			Tray And Silverware Cart <small>(11 41 31)</small>		
11 41 31 00-0014	EA		33" x 22-1/2" x 42" Tray And Silverware Cart.....	1,699.70	62.12
11 41 31 00-0015			Flat Top Utility Units <small>(11 41 31)</small>		
11 41 31 00-0016	EA		39" x 28-1/2" x 35-3/8" Flat Top Utility Units	1,158.88	42.46
11 41 31 00-0017	EA		79-1/2" x 28-1/2" x 35-3/8" Flat Top Utility Units	1,552.96	56.75
11 41 33			Foodservice Shelving <small>(11 41)</small>		
11 41 33 00-0001			Shelving/Racks <small>(11 41 33)</small>		
11 41 33 00-0002			Chrome Shelving Units <small>(11 41 33 00-0001)</small>		
11 41 33 00-0003			54" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit <small>(11 41 33 00-0002)</small>		
11 41 33 00-0004	EA		14" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	210.75	31.31
11 41 33 00-0005	EA		14" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	220.68	31.57
11 41 33 00-0006	EA		14" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	232.89	31.83
11 41 33 00-0007	EA		14" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	240.55	32.09
11 41 33 00-0008	EA		14" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	255.00	32.35
11 41 33 00-0009	EA		14" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	267.27	32.61
11 41 33 00-0010	EA		14" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	277.19	32.86
11 41 33 00-0011	EA		14" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	299.31	33.38
11 41 33 00-0012	EA		18" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	227.52	31.57
11 41 33 00-0013	EA		18" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	235.18	31.83
11 41 33 00-0014	EA		18" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	242.85	32.09
11 41 33 00-0015	EA		18" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	264.20	32.35
11 41 33 00-0016	EA		18" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	278.70	32.61
11 41 33 00-0017	EA		18" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	297.76	32.86
11 41 33 00-0018	EA		18" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	305.38	33.12
11 41 33 00-0019	EA		18" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	332.15	33.64
11 41 33 00-0020	EA		21" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	237.47	31.83
11 41 33 00-0021	EA		21" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	254.23	32.09
11 41 33 00-0022	EA		21" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	266.49	32.35
11 41 33 00-0023	EA		21" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	280.96	32.61
11 41 33 00-0024	EA		21" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	290.92	32.86
11 41 33 00-0025	EA		21" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	314.57	33.12
11 41 33 00-0026	EA		21" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	326.77	33.38
11 41 33 00-0027	EA		21" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	358.07	33.90
11 41 33 00-0028	EA		24" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	258.88	32.09
11 41 33 00-0029	EA		24" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	268.79	32.35
11 41 33 00-0030	EA		24" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	276.41	32.61
11 41 33 00-0031	EA		24" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	295.51	32.86
11 41 33 00-0032	EA		24" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	307.72	33.12
11 41 33 00-0033	EA		24" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	331.37	33.38
11 41 33 00-0034	EA		24" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	348.13	33.64
11 41 33 00-0035	EA		24" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	388.62	34.15
11 41 33 00-0036	EA		30" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	332.85	32.35
11 41 33 00-0037	EA		30" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	370.17	32.61
11 41 33 00-0038	EA		30" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	393.87	32.86
11 41 33 00-0039	EA		30" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	447.28	33.12
11 41 33 00-0040	EA		36" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	365.67	33.38
11 41 33 00-0041	EA		36" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	400.80	33.64
11 41 33 00-0042	EA		36" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	444.97	33.90
11 41 33 00-0043	EA		36" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Chrome Shelving Unit	516.64	34.41
11 41 33 00-0044			63" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit <small>(11 41 33 00-0002)</small>		
11 41 33 00-0045	EA		14" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	213.01	31.31

11	Equipment
11 40	Foodservice Equipment
11 41	Foodservice Storage Equipment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

11 41 33 00-0046	EA	14" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	222.93	31.57
11 41 33 00-0047	EA	14" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	235.13	31.83
11 41 33 00-0048	EA	14" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	242.80	32.09
11 41 33 00-0049	EA	14" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	257.26	32.35
11 41 33 00-0050	EA	14" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	269.51	32.61
11 41 33 00-0051	EA	14" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	279.44	32.86
11 41 33 00-0052	EA	14" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	301.55	33.38
11 41 33 00-0053	EA	18" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	229.76	31.57
11 41 33 00-0054	EA	18" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	237.43	31.83
11 41 33 00-0055	EA	18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	245.10	32.09
11 41 33 00-0056	EA	18" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	266.44	32.35
11 41 33 00-0057	EA	18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	280.96	32.61
11 41 33 00-0058	EA	18" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	300.00	32.86
11 41 33 00-0059	EA	18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	307.63	33.12
11 41 33 00-0060	EA	18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	312.16	33.64
11 41 33 00-0061	EA	21" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	239.73	31.83
11 41 33 00-0062	EA	21" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	256.49	32.09
11 41 33 00-0063	EA	21" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	268.73	32.35
11 41 33 00-0064	EA	21" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	283.20	32.61
11 41 33 00-0065	EA	21" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	293.17	32.86
11 41 33 00-0066	EA	21" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	316.81	33.12
11 41 33 00-0067	EA	21" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	329.02	33.38
11 41 33 00-0068	EA	21" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	360.33	33.90
11 41 33 00-0069	EA	24" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	261.13	32.09
11 41 33 00-0070	EA	24" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	271.03	32.35
11 41 33 00-0071	EA	24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	278.66	32.61
11 41 33 00-0072	EA	24" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	297.76	32.86
11 41 33 00-0073	EA	24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	309.97	33.12
11 41 33 00-0074	EA	24" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	333.60	33.38
11 41 33 00-0075	EA	24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	350.36	33.64
11 41 33 00-0076	EA	24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	390.87	34.15
11 41 33 00-0077	EA	30" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	335.09	32.35
11 41 33 00-0078	EA	30" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	372.43	32.61
11 41 33 00-0079	EA	30" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	396.11	32.86
11 41 33 00-0080	EA	30" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	449.52	33.12
11 41 33 00-0081	EA	36" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	367.91	33.38
11 41 33 00-0082	EA	36" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	403.04	33.64
11 41 33 00-0083	EA	36" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	447.25	33.90
11 41 33 00-0084	EA	36" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Chrome Shelving Unit	518.88	34.41

11 41 33 00-0085 66" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)

11 41 33 00-0086	EA	14" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	214.18	31.31
11 41 33 00-0087	EA	14" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	224.10	31.57
11 41 33 00-0088	EA	14" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	236.30	31.83
11 41 33 00-0089	EA	14" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	243.98	32.09
11 41 33 00-0090	EA	14" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	258.43	32.35
11 41 33 00-0091	EA	14" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	270.69	32.61
11 41 33 00-0092	EA	14" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	280.61	32.86
11 41 33 00-0093	EA	14" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	302.72	33.38
11 41 33 00-0094	EA	18" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	230.95	31.57
11 41 33 00-0095	EA	18" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	238.60	31.83
11 41 33 00-0096	EA	18" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	246.27	32.09
11 41 33 00-0097	EA	18" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	267.62	32.35
11 41 33 00-0098	EA	18" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	282.13	32.61
11 41 33 00-0099	EA	18" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	301.17	32.86
11 41 33 00-0100	EA	18" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	308.80	33.12
11 41 33 00-0101	EA	18" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	335.57	33.64
11 41 33 00-0102	EA	21" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	240.90	31.83
11 41 33 00-0103	EA	21" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	257.66	32.09
11 41 33 00-0104	EA	21" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	269.91	32.35
11 41 33 00-0105	EA	21" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	284.37	32.61
11 41 33 00-0106	EA	21" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	294.34	32.86
11 41 33 00-0107	EA	21" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	317.98	33.12
11 41 33 00-0108	EA	21" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	330.19	33.38
11 41 33 00-0109	EA	21" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	361.50	33.90
11 41 33 00-0110	EA	24" x 24" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	262.30	32.09
11 41 33 00-0111	EA	24" x 30" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	272.20	32.35
11 41 33 00-0112	EA	24" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	279.83	32.61
11 41 33 00-0113	EA	24" x 42" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	298.93	32.86
11 41 33 00-0114	EA	24" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	311.15	33.12
11 41 33 00-0115	EA	24" x 54" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	334.79	33.38
11 41 33 00-0116	EA	24" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	351.54	33.64
11 41 33 00-0117	EA	24" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	392.04	34.15
11 41 33 00-0118	EA	30" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	336.26	32.35
11 41 33 00-0119	EA	30" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	373.60	32.61
11 41 33 00-0120	EA	30" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	397.30	32.86
11 41 33 00-0121	EA	30" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	450.70	33.12
11 41 33 00-0122	EA	36" x 36" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	369.08	33.38
11 41 33 00-0123	EA	36" x 48" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	404.21	33.64
11 41 33 00-0124	EA	36" x 60" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	448.41	33.90



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0125 EA 36" x 72" Wide Open Wire Shelf, 66" Height, 4 Shelves, Chrome Shelving Unit	520.05	34.41
11 41 33 00-0126 74" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)		
11 41 33 00-0127 EA 14" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	217.59	31.31
11 41 33 00-0128 EA 14" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	227.52	31.57
11 41 33 00-0129 EA 14" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	239.73	31.83
11 41 33 00-0130 EA 14" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	247.40	32.09
11 41 33 00-0131 EA 14" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	261.85	32.35
11 41 33 00-0132 EA 14" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	274.11	32.61
11 41 33 00-0133 EA 14" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	284.03	32.86
11 41 33 00-0134 EA 14" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	306.15	33.38
11 41 33 00-0135 EA 18" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	234.36	31.57
11 41 33 00-0136 EA 18" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	242.02	31.83
11 41 33 00-0137 EA 18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	249.70	32.09
11 41 33 00-0138 EA 18" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	271.03	32.35
11 41 33 00-0139 EA 18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	285.54	32.61
11 41 33 00-0140 EA 18" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	304.60	32.86
11 41 33 00-0141 EA 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	312.22	33.12
11 41 33 00-0142 EA 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	338.98	33.64
11 41 33 00-0143 EA 21" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	244.32	31.83
11 41 33 00-0144 EA 21" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	261.08	32.09
11 41 33 00-0145 EA 21" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	273.33	32.35
11 41 33 00-0146 EA 21" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	287.79	32.61
11 41 33 00-0147 EA 21" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	297.76	32.86
11 41 33 00-0148 EA 21" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	321.40	33.12
11 41 33 00-0149 EA 21" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	333.60	33.38
11 41 33 00-0150 EA 21" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	364.92	33.90
11 41 33 00-0151 EA 24" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	265.72	32.09
11 41 33 00-0152 EA 24" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	275.63	32.35
11 41 33 00-0153 EA 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	283.25	32.61
11 41 33 00-0154 EA 24" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	302.35	32.86
11 41 33 00-0155 EA 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	314.57	33.12
11 41 33 00-0156 EA 24" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	338.20	33.38
11 41 33 00-0157 EA 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	354.96	33.64
11 41 33 00-0158 EA 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	395.47	34.15
11 41 33 00-0159 EA 30" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	339.69	32.35
11 41 33 00-0160 EA 30" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	377.02	32.61
11 41 33 00-0161 EA 30" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	400.71	32.86
11 41 33 00-0162 EA 30" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	454.12	33.12
11 41 33 00-0163 EA 36" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	372.50	33.38
11 41 33 00-0164 EA 36" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	407.64	33.64
11 41 33 00-0165 EA 36" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	451.84	33.90
11 41 33 00-0166 EA 36" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Chrome Shelving Unit	523.47	34.41
11 41 33 00-0167 86" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)		
11 41 33 00-0168 EA 14" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	226.73	31.31
11 41 33 00-0169 EA 14" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	236.66	31.57
11 41 33 00-0170 EA 14" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	248.86	31.83
11 41 33 00-0171 EA 14" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	256.53	32.09
11 41 33 00-0172 EA 14" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	270.98	32.35
11 41 33 00-0173 EA 14" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	283.25	32.61
11 41 33 00-0174 EA 14" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	293.17	32.86
11 41 33 00-0175 EA 14" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	315.29	33.38
11 41 33 00-0176 EA 18" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	243.50	31.57
11 41 33 00-0177 EA 18" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	251.16	31.83
11 41 33 00-0178 EA 18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	258.83	32.09
11 41 33 00-0179 EA 18" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	280.18	32.35
11 41 33 00-0180 EA 18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	294.68	32.61
11 41 33 00-0181 EA 18" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	313.74	32.86
11 41 33 00-0182 EA 18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	321.36	33.12
11 41 33 00-0183 EA 18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	348.13	33.64
11 41 33 00-0184 EA 21" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	253.45	31.83
11 41 33 00-0185 EA 21" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	270.21	32.09
11 41 33 00-0186 EA 21" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	282.47	32.35
11 41 33 00-0187 EA 21" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	296.92	32.61
11 41 33 00-0188 EA 21" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	306.90	32.86
11 41 33 00-0189 EA 21" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	330.55	33.12
11 41 33 00-0190 EA 21" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	342.75	33.38
11 41 33 00-0191 EA 21" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	374.05	33.90
11 41 33 00-0192 EA 24" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	274.86	32.09
11 41 33 00-0193 EA 24" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	284.76	32.35
11 41 33 00-0194 EA 24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	292.39	32.61
11 41 33 00-0195 EA 24" x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	311.49	32.86
11 41 33 00-0196 EA 24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	323.70	33.12
11 41 33 00-0197 EA 24" x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	347.35	33.38
11 41 33 00-0198 EA 24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	364.09	33.64
11 41 33 00-0199 EA 24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	404.60	34.15
11 41 33 00-0200 EA 30" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	348.82	32.35
11 41 33 00-0201 EA 30" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	386.15	32.61

11 Equipment
11 40 Foodservice Equipment
11 41 Foodservice Storage Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0202	EA		30" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	409.85	32.86
11 41 33 00-0203	EA		30" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	463.25	33.12
11 41 33 00-0204	EA		36" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	381.64	33.38
11 41 33 00-0205	EA		36" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	416.77	33.64
11 41 33 00-0206	EA		36" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	460.99	33.90
11 41 33 00-0207	EA		36" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Chrome Shelving Unit	532.61	34.41
11 41 33 00-0208			96" Height, 4 Tier Open Wire Shelves, Chrome Shelving Unit (11 41 33 00-0002)		
11 41 33 00-0209	EA		14" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	260.48	31.31
11 41 33 00-0210	EA		14" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	272.69	31.57
11 41 33 00-0211	EA		14" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	287.76	31.83
11 41 33 00-0212	EA		14" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	297.15	32.09
11 41 33 00-0213	EA		14" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	315.03	32.35
11 41 33 00-0214	EA		14" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	330.16	32.61
11 41 33 00-0215	EA		14" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	342.36	32.86
11 41 33 00-0216	EA		14" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	369.63	33.38
11 41 33 00-0217	EA		18" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	281.24	31.57
11 41 33 00-0218	EA		18" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	290.63	31.83
11 41 33 00-0219	EA		18" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	300.02	32.09
11 41 33 00-0220	EA		18" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	326.50	32.35
11 41 33 00-0221	EA		18" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	344.45	32.61
11 41 33 00-0222	EA		18" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	368.08	32.86
11 41 33 00-0223	EA		18" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	377.40	33.12
11 41 33 00-0224	EA		18" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	410.47	33.64
11 41 33 00-0225	EA		21" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	293.50	31.83
11 41 33 00-0226	EA		21" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	314.26	32.09
11 41 33 00-0227	EA		21" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	329.38	32.35
11 41 33 00-0228	EA		21" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	347.25	32.61
11 41 33 00-0229	EA		21" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	359.52	32.86
11 41 33 00-0230	EA		21" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	388.89	33.12
11 41 33 00-0231	EA		21" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	403.95	33.38
11 41 33 00-0232	EA		21" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	442.70	33.90
11 41 33 00-0233	EA		24" x 24" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	320.06	32.09
11 41 33 00-0234	EA		24" x 30" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	332.25	32.35
11 41 33 00-0235	EA		24" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	341.58	32.61
11 41 33 00-0236	EA		24" x 42" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	365.27	32.86
11 41 33 00-0237	EA		24" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	380.33	33.12
11 41 33 00-0238	EA		24" x 54" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	409.69	33.38
11 41 33 00-0239	EA		24" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	430.44	33.64
11 41 33 00-0240	EA		24" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	480.68	34.15
11 41 33 00-0241	EA		30" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	412.32	32.35
11 41 33 00-0242	EA		30" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	458.79	32.61
11 41 33 00-0243	EA		30" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	488.21	32.86
11 41 33 00-0244	EA		30" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	554.78	33.12
11 41 33 00-0245	EA		36" x 36" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	452.57	33.38
11 41 33 00-0246	EA		36" x 48" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	496.29	33.64
11 41 33 00-0247	EA		36" x 60" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	551.36	33.90
11 41 33 00-0248	EA		36" x 72" Wide Open Wire Shelf, 96" Height, 4 Shelves, Chrome Shelving Unit	640.50	34.41
11 41 33 00-0249			Galvanized Shelving Units (11 41 33 00-0001)		
11 41 33 00-0250			54" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)		
11 41 33 00-0251	EA		14" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	233.57	31.31
11 41 33 00-0252	EA		14" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	244.13	31.57
11 41 33 00-0253	EA		14" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	257.17	31.83
11 41 33 00-0254	EA		14" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	267.72	32.09
11 41 33 00-0255	EA		14" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	283.20	32.35
11 41 33 00-0256	EA		14" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	296.19	32.61
11 41 33 00-0257	EA		14" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	309.24	32.86
11 41 33 00-0258	EA		14" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	330.33	33.38
11 41 33 00-0259	EA		18" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	251.47	31.57
11 41 33 00-0260	EA		18" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	259.62	31.83
11 41 33 00-0261	EA		18" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	275.05	32.09
11 41 33 00-0262	EA		18" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	292.98	32.35
11 41 33 00-0263	EA		18" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	308.46	32.61
11 41 33 00-0264	EA		18" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	328.78	32.86
11 41 33 00-0265	EA		18" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	344.28	33.12
11 41 33 00-0266	EA		18" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	367.90	33.64
11 41 33 00-0267	EA		21" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	262.05	31.83
11 41 33 00-0268	EA		21" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	282.43	32.09
11 41 33 00-0269	EA		21" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	295.41	32.35
11 41 33 00-0270	EA		21" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	310.91	32.61
11 41 33 00-0271	EA		21" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	321.46	32.86
11 41 33 00-0272	EA		21" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	349.16	33.12
11 41 33 00-0273	EA		21" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	362.20	33.38
11 41 33 00-0274	EA		21" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	400.44	33.90
11 41 33 00-0275	EA		24" x 24" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	287.32	32.09
11 41 33 00-0276	EA		24" x 30" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	297.86	32.35
11 41 33 00-0277	EA		24" x 36" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	306.02	32.61



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0278 EA 24" x 42" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	326.35	32.86
11 41 33 00-0279 EA 24" x 48" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	349.16	33.12
11 41 33 00-0280 EA 24" x 54" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	374.41	33.38
11 41 33 00-0281 EA 24" x 60" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	394.79	33.64
11 41 33 00-0282 EA 24" x 72" Wide Open Wire Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	440.42	34.15
11 41 33 00-0283 63" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)		
11 41 33 00-0284 EA 14" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	238.46	31.31
11 41 33 00-0285 EA 14" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	249.02	31.57
11 41 33 00-0286 EA 14" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	262.05	31.83
11 41 33 00-0287 EA 14" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	272.61	32.09
11 41 33 00-0288 EA 14" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	288.09	32.35
11 41 33 00-0289 EA 14" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	301.08	32.61
11 41 33 00-0290 EA 14" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	314.13	32.86
11 41 33 00-0291 EA 14" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	335.22	33.38
11 41 33 00-0292 EA 18" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	256.35	31.57
11 41 33 00-0293 EA 18" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	264.50	31.83
11 41 33 00-0294 EA 18" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	279.94	32.09
11 41 33 00-0295 EA 18" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	297.86	32.35
11 41 33 00-0296 EA 18" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	313.35	32.61
11 41 33 00-0297 EA 18" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	333.67	32.86
11 41 33 00-0298 EA 18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	349.16	33.12
11 41 33 00-0299 EA 18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	372.75	33.64
11 41 33 00-0300 EA 21" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	266.94	31.83
11 41 33 00-0301 EA 21" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	287.32	32.09
11 41 33 00-0302 EA 21" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	300.30	32.35
11 41 33 00-0303 EA 21" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	315.79	32.61
11 41 33 00-0304 EA 21" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	326.35	32.86
11 41 33 00-0305 EA 21" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	354.05	33.12
11 41 33 00-0306 EA 21" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	367.09	33.38
11 41 33 00-0307 EA 21" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	405.33	33.90
11 41 33 00-0308 EA 24" x 24" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	292.21	32.09
11 41 33 00-0309 EA 24" x 30" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	302.75	32.35
11 41 33 00-0310 EA 24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	310.91	32.61
11 41 33 00-0311 EA 24" x 42" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	331.23	32.86
11 41 33 00-0312 EA 24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	354.05	33.12
11 41 33 00-0313 EA 24" x 54" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	379.29	33.38
11 41 33 00-0314 EA 24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	399.67	33.64
11 41 33 00-0315 EA 24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	445.31	34.15
11 41 33 00-0316 74" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)		
11 41 33 00-0317 EA 14" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	243.34	31.31
11 41 33 00-0318 EA 14" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	253.90	31.57
11 41 33 00-0319 EA 14" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	266.94	31.83
11 41 33 00-0320 EA 14" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	277.49	32.09
11 41 33 00-0321 EA 14" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	292.98	32.35
11 41 33 00-0322 EA 14" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	305.96	32.61
11 41 33 00-0323 EA 14" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	319.01	32.86
11 41 33 00-0324 EA 14" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	340.10	33.38
11 41 33 00-0325 EA 18" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	261.24	31.57
11 41 33 00-0326 EA 18" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	269.39	31.83
11 41 33 00-0327 EA 18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	284.83	32.09
11 41 33 00-0328 EA 18" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	302.75	32.35
11 41 33 00-0329 EA 18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	318.23	32.61
11 41 33 00-0330 EA 18" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	338.55	32.86
11 41 33 00-0331 EA 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	354.05	33.12
11 41 33 00-0332 EA 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	377.64	33.64
11 41 33 00-0333 EA 21" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	271.83	31.83
11 41 33 00-0334 EA 21" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	292.21	32.09
11 41 33 00-0335 EA 21" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	305.18	32.35
11 41 33 00-0336 EA 21" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	320.68	32.61
11 41 33 00-0337 EA 21" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	331.23	32.86
11 41 33 00-0338 EA 21" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	358.93	33.12
11 41 33 00-0339 EA 21" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	371.97	33.38
11 41 33 00-0340 EA 21" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	410.22	33.90
11 41 33 00-0341 EA 24" x 24" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	297.09	32.09
11 41 33 00-0342 EA 24" x 30" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	307.63	32.35
11 41 33 00-0343 EA 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	315.79	32.61
11 41 33 00-0344 EA 24" x 42" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	336.12	32.86
11 41 33 00-0345 EA 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	358.93	33.12
11 41 33 00-0346 EA 24" x 54" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	384.18	33.38
11 41 33 00-0347 EA 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	404.56	33.64
11 41 33 00-0348 EA 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	450.20	34.15
11 41 33 00-0349 86" Height, 4 Tier Open Wire Shelves, Galvanized Shelving Unit (11 41 33 00-0249)		
11 41 33 00-0350 EA 14" x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	255.61	31.31
11 41 33 00-0351 EA 14" x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	266.17	31.57
11 41 33 00-0352 EA 14" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	279.21	31.83

11	Equipment
11 40	Foodservice Equipment
11 41	Foodservice Storage Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 41 33 00-0353	EA	14"	x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	289.76	32.09
11 41 33 00-0354	EA	14"	x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	305.24	32.35
11 41 33 00-0355	EA	14"	x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	318.23	32.61
11 41 33 00-0356	EA	14"	x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	331.28	32.86
11 41 33 00-0357	EA	14"	x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	352.37	33.38
11 41 33 00-0358	EA	18"	x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	273.50	31.57
11 41 33 00-0359	EA	18"	x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	281.65	31.83
11 41 33 00-0360	EA	18"	x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	297.09	32.09
11 41 33 00-0361	EA	18"	x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	315.01	32.35
11 41 33 00-0362	EA	18"	x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	330.50	32.61
11 41 33 00-0363	EA	18"	x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	350.82	32.86
11 41 33 00-0364	EA	18"	x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	366.32	33.12
11 41 33 00-0365	EA	18"	x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	389.90	33.64
11 41 33 00-0366	EA	21"	x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	284.09	31.83
11 41 33 00-0367	EA	21"	x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	304.47	32.09
11 41 33 00-0368	EA	21"	x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	317.45	32.35
11 41 33 00-0369	EA	21"	x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	332.95	32.61
11 41 33 00-0370	EA	21"	x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	343.50	32.86
11 41 33 00-0371	EA	21"	x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	371.20	33.12
11 41 33 00-0372	EA	21"	x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	384.24	33.38
11 41 33 00-0373	EA	21"	x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	422.48	33.90
11 41 33 00-0374	EA	24"	x 24" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	309.36	32.09
11 41 33 00-0375	EA	24"	x 30" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	319.90	32.35
11 41 33 00-0376	EA	24"	x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	328.06	32.61
11 41 33 00-0377	EA	24"	x 42" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	348.38	32.86
11 41 33 00-0378	EA	24"	x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	371.20	33.12
11 41 33 00-0379	EA	24"	x 54" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	396.45	33.38
11 41 33 00-0380	EA	24"	x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	416.83	33.64
11 41 33 00-0381	EA	24"	x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	462.46	34.15

11 41 33 00-0382 54" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)

11 41 33 00-0383	EA	18"	x 36" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	414.60	32.09
11 41 33 00-0384	EA	18"	x 48" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	452.90	32.61
11 41 33 00-0385	EA	18"	x 60" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	503.42	33.12
11 41 33 00-0386	EA	18"	x 72" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	534.34	33.64
11 41 33 00-0387	EA	24"	x 36" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	450.41	32.61
11 41 33 00-0388	EA	24"	x 48" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	515.64	33.12
11 41 33 00-0389	EA	24"	x 60" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	566.15	33.64
11 41 33 00-0390	EA	24"	x 72" Wide Solid Shelf, 54" Height, 4 Shelves, Galvanized Shelving Unit	641.14	34.15

11 41 33 00-0391 63" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)

11 41 33 00-0392	EA	18"	x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	419.49	32.09
11 41 33 00-0393	EA	18"	x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	457.79	32.61
11 41 33 00-0394	EA	18"	x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	508.30	33.12
11 41 33 00-0395	EA	18"	x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	539.22	33.64
11 41 33 00-0396	EA	24"	x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	455.30	32.61
11 41 33 00-0397	EA	24"	x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	520.52	33.12
11 41 33 00-0398	EA	24"	x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	571.03	33.64
11 41 33 00-0399	EA	24"	x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Galvanized Shelving Unit	646.03	34.15

11 41 33 00-0400 74" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)

11 41 33 00-0401	EA	18"	x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	424.38	32.09
11 41 33 00-0402	EA	18"	x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	462.68	32.61
11 41 33 00-0403	EA	18"	x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	513.20	33.12
11 41 33 00-0404	EA	18"	x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	544.11	33.64
11 41 33 00-0405	EA	24"	x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	460.18	32.61
11 41 33 00-0406	EA	24"	x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	525.41	33.12
11 41 33 00-0407	EA	24"	x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	575.92	33.64
11 41 33 00-0408	EA	24"	x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Galvanized Shelving Unit	650.93	34.15

11 41 33 00-0409 86" Height, 4 Tier Solid Shelves, Galvanized Shelving Unit (11 41 33 00-0249)

11 41 33 00-0410	EA	18"	x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	436.64	32.09
11 41 33 00-0411	EA	18"	x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	474.93	32.61
11 41 33 00-0412	EA	18"	x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	525.45	33.12
11 41 33 00-0413	EA	18"	x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	556.38	33.64
11 41 33 00-0414	EA	24"	x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	472.45	32.61
11 41 33 00-0415	EA	24"	x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	537.67	33.12
11 41 33 00-0416	EA	24"	x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	588.19	33.64
11 41 33 00-0417	EA	24"	x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Galvanized Shelving Unit	663.18	34.15

11 41 33 00-0418 Stainless Steel Shelving Unit (11 41 33 00-0001)
11 41 33 00-0419 63" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)

11 41 33 00-0420	EA	18"	x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	705.92	32.09
11 41 33 00-0421	EA	18"	x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	822.55	32.61



Equipment	11
Foodservice Equipment	11 40
Foodservice Storage Equipment	11 41

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0422 EA 18" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	969.95	33.12
11 41 33 00-0423 EA 18" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,124.31	33.64
11 41 33 00-0424 EA 24" x 36" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	832.32	32.61
11 41 33 00-0425 EA 24" x 48" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	966.11	33.12
11 41 33 00-0426 EA 24" x 60" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,141.47	33.64
11 41 33 00-0427 EA 24" x 72" Wide Open Wire Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,373.12	34.15
11 41 33 00-0428 74" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0429 EA 18" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	730.41	32.09
11 41 33 00-0430 EA 18" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	847.04	32.61
11 41 33 00-0431 EA 18" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	997.92	33.12
11 41 33 00-0432 EA 18" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,148.79	33.64
11 41 33 00-0433 EA 24" x 36" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	856.81	32.61
11 41 33 00-0434 EA 24" x 48" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	990.58	33.12
11 41 33 00-0435 EA 24" x 60" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,165.94	33.64
11 41 33 00-0436 EA 24" x 72" Wide Open Wire Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,397.61	34.15
11 41 33 00-0437 86" Height, 4 Tier Open Wire Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0438 EA 18" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	754.89	32.09
11 41 33 00-0439 EA 18" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	871.51	32.61
11 41 33 00-0440 EA 18" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,022.39	33.12
11 41 33 00-0441 EA 18" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,173.28	33.64
11 41 33 00-0442 EA 24" x 36" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	881.28	32.61
11 41 33 00-0443 EA 24" x 48" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,015.07	33.12
11 41 33 00-0444 EA 24" x 60" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,190.43	33.64
11 41 33 00-0445 EA 24" x 72" Wide Open Wire Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,422.08	34.15
11 41 33 00-0446 63" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0447 EA 18" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	838.15	32.09
11 41 33 00-0448 EA 18" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	924.07	32.61
11 41 33 00-0449 EA 18" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,038.00	33.12
11 41 33 00-0450 EA 18" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,106.98	33.64
11 41 33 00-0451 EA 24" x 36" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	998.79	32.61
11 41 33 00-0452 EA 24" x 48" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,171.73	33.12
11 41 33 00-0453 EA 24" x 60" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,297.96	33.64
11 41 33 00-0454 EA 24" x 72" Wide Solid Shelf, 63" Height, 4 Shelves, Stainless Steel Shelving Unit	1,486.53	34.15
11 41 33 00-0455 74" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0456 EA 18" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	862.63	32.09
11 41 33 00-0457 EA 18" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	950.03	32.61
11 41 33 00-0458 EA 18" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,065.97	33.12
11 41 33 00-0459 EA 18" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,136.10	33.64
11 41 33 00-0460 EA 24" x 36" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,023.28	32.61
11 41 33 00-0461 EA 24" x 48" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,196.20	33.12
11 41 33 00-0462 EA 24" x 60" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,323.82	33.64
11 41 33 00-0463 EA 24" x 72" Wide Solid Shelf, 74" Height, 4 Shelves, Stainless Steel Shelving Unit	1,514.50	34.15
11 41 33 00-0464 86" Height, 4 Tier Solid Shelves, Stainless Steel Shelving Unit (11 41 33 00-0418)		
11 41 33 00-0465 EA 18" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	887.11	32.09
11 41 33 00-0466 EA 18" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	974.04	32.61
11 41 33 00-0467 EA 18" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,089.38	33.12
11 41 33 00-0468 EA 18" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,159.19	33.64
11 41 33 00-0469 EA 24" x 36" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,047.76	32.61
11 41 33 00-0470 EA 24" x 48" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,220.69	33.12
11 41 33 00-0471 EA 24" x 60" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,347.51	33.64
11 41 33 00-0472 EA 24" x 72" Wide Solid Shelf, 86" Height, 4 Shelves, Stainless Steel Shelving Unit	1,536.97	34.15
11 41 33 00-0473 Galvanized Steel Dunnage Rack (11 41 33 00-0001)		
11 41 33 00-0474 EA 18" x 24" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	175.53	23.08
11 41 33 00-0475 EA 18" x 30" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	184.43	23.72
11 41 33 00-0476 EA 18" x 36" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	194.50	24.37
11 41 33 00-0477 EA 18" x 48" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	212.69	25.00
11 41 33 00-0478 EA 18" x 60" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	228.56	25.64
11 41 33 00-0479 EA 24" x 24" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	187.14	23.08
11 41 33 00-0480 EA 24" x 30" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	202.99	23.72
11 41 33 00-0481 EA 24" x 36" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	213.07	24.37
11 41 33 00-0482 EA 24" x 48" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	230.09	25.00
11 41 33 00-0483 EA 24" x 60" Open Wire Shelf, 14" Height, Galvanized Dunnage Rack	249.45	25.64
11 41 33 00-0484 Stainless Steel Dunnage Rack (11 41 33 00-0001)		
11 41 33 00-0485 EA 18" x 36" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack	436.36	24.37
11 41 33 00-0486 EA 18" x 48" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack	541.96	25.00

11	11 Equipment
	11 40 Foodservice Equipment
	11 41 Foodservice Storage Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 41 33 00-0487 EA 18" x 60" Open Wire Shelf, 16-1/4" Height, Stainless Steel Dunnage Rack.....	900.50	25.64
11 41 33 00-0488 EA 24" x 36" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack.....	475.17	24.37
11 41 33 00-0489 EA 24" x 48" Open Wire Shelf, 14-1/2" Height, Stainless Steel Dunnage Rack.....	586.89	25.00
11 41 33 00-0490 EA 24" x 60" Open Wire Shelf, 16-1/4" Height, Stainless Steel Dunnage Rack.....	979.81	25.64
11 41 33 00-0491 Mobile Racks <small>(11 41 33 00-0001)</small>		
11 41 33 00-0492 EA Mobile Rack With Pan Slide.....	1,450.54	38.85
11 41 33 00-0493 Can Racks <small>(11 41 33 00-0001)</small>		
11 41 33 00-0494 EA 27-1/4" Wide x 42" Deep x 81-1/16" High, Aluminum Frame Can Rack..... Note: 156 #10 cans capacity	2,349.28	38.85
11 42 Food Preparation Equipment <small>(11 40)</small>		
11 42 13 Food Preparation Appliances <small>(11 42)</small>		
11 42 13 00-0001 Vertical Cutter Mixers <small>(11 42 13)</small>		
11 42 13 00-0002 EA Bench Type Mixers, 25 Quart	8,490.68	183.78
11 42 13 00-0003 EA Bench Type Mixers, 40 Quart	9,753.71	183.78
11 42 13 00-0004 EA Bench Type Mixers, 80 Quart	12,221.04	316.09
11 42 13 00-0005 EA Bench Type Mixers, 130 Quart.....	13,826.69	514.57
11 42 13 00-0006 Choppers <small>(11 42 13)</small>		
11 42 13 00-0007 EA Choppers, 5 LB	2,126.39	147.02
11 42 13 00-0008 EA Choppers, 16 LB	3,119.39	191.12
11 42 13 00-0009 EA Choppers, 35 LB - 40 LB.....	6,028.46	235.24
11 42 13 00-0010 EA Choppers, 35 LB - 40 LB/Min, 2 HP.....	5,003.12	208.99
11 42 13 00-0011 EA Choppers, 35 LB - 40 LB/Min, 3 HP.....	5,674.82	208.99
11 42 13 00-0012 Floor Model Mixer <small>(11 42 13)</small>		
11 42 13 00-0013 EA Floor Type Mixers, 20 Quart	4,049.15	110.27
11 42 13 00-0014 EA Floor Type Mixers, 60 Quart	9,973.22	73.51
11 42 13 00-0015 EA Floor Type Mixers, 80 Quart	15,747.07	73.51
11 42 13 00-0016 EA Floor Type Mixers, 140 Quart	19,956.52	117.62
11 42 13 00-0017 Slicers <small>(11 42 13)</small>		
11 42 13 00-0018 EA Slicer With Table.....	3,376.95	106.15
11 42 13 00-0019 Peelers <small>(11 42 13)</small>		
11 42 13 00-0020 EA Small Peeler.....	2,314.04	119.45
11 42 13 00-0021 EA Large Peeler	2,449.28	159.30
11 42 13 00-0022 Proof Boxes <small>(11 42 13)</small>		
11 42 13 00-0023 EA 30-1/2" x 22-1/2", Stainless Steel Proof Box	1,884.21	62.12
11 42 13 00-0024 EA 30-1/2" x 45", Stainless Steel Proof Box	3,152.95	104.10
11 42 13 00-0025 EA 30-1/2" x 45", Galvanized Proof Box.....	2,975.00	47.25
11 42 13 00-0026 Non-Insulated Heated Proof Cabinet <small>(11 42 13)</small>		
11 42 13 00-0027 EA Angle Slide 69-3/4", Solid Door Non Insulated Heated Proof Cabinet	1,621.35	59.53
11 42 13 00-0028 EA Angle Slide 69-3/4", Clear Door Non Insulated Heated Proof Cabinet.....	1,739.25	63.65
11 42 13 00-0029 EA Channel Slide 69-3/4", Solid Door Non Insulated Heated Proof Cabinet	1,610.34	59.04
11 42 13 00-0030 EA Channel Slide 69-3/4", Clear Door Non Insulated Heated Proof Cabinet.....	1,706.74	62.60
11 42 13 00-0031 Insulated Heated Proof Cabinet <small>(11 42 13)</small>		
11 42 13 00-0032 EA 3 Spacing, 69-3/4" High Solid Door Insulated Heated Proof Cabinet.....	2,637.14	101.37
11 42 13 00-0033 EA 3 Spacing 69-3/4" High Sliding Door Insulated Heated Proof Cabinet	2,755.86	105.98
11 42 13 00-0034 Pass-Thru Hot Food Holding Cabinet <small>(11 42 13)</small>		
11 42 13 00-0035 EA Single Section, Full Door, Pass-Thru Hot Food Holding Cabinet	4,369.08	154.37
11 42 13 00-0036 EA Single Section, Half Door, Pass-Thru Hot Food Holding Cabinet	4,645.38	154.37
11 42 13 00-0037 EA Two Section, Full Door, Pass-Thru Hot Food Holding Cabinet	5,921.15	161.72
11 42 13 00-0038 EA Two Section, Half Door, Pass-Thru Hot Food Holding Cabinet.....	6,485.56	161.72
11 42 16 Food Preparation Surfaces <small>(11 42)</small>		
11 42 16 00-0001 Tables <small>(11 42 16)</small>		
11 42 16 00-0002 Baker's Table <small>(11 42 16 00-0001)</small>		



Equipment	11
Foodservice Equipment	11 40
Food Preparation Equipment	11 42

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 42 16 00-0003	EA		4' Open Base Baker's Table.....	804.51	45.20
11 42 16 00-0004	EA		10' Open Base Baker's Table.....	1,578.98	88.61
11 42 16 00-0005	EA		10' Undershelf Baker's Table.....	1,948.23	109.35
11 42 16 00-0006	EA		10' Three Drawers Baker's Table.....	2,089.53	117.41
11 42 16 00-0007	EA		10' Bins Baker's Table.....	3,074.26	172.80
11 42 16 00-0008	EA		10' Bins And Drawers Baker's Table.....	4,827.46	271.24
11 42 16 00-0009			Preparation Table, Stainless Steel, With Undershelf (11 42 16 00-0001)		
11 42 16 00-0010	EA		30" x 72" Square Edge Stainless Steel Preparation Table With Undershelf.....	690.86	23.83
11 42 16 00-0011	EA		30" x 72" Marine Edge Stainless Steel Preparation Table With Undershelf.....	745.65	28.62
11 42 16 00-0012	EA		36" x 96" Marine Edge Stainless Steel Preparation Table With Undershelf.....	1,125.37	38.90
11 42 16 00-0013			Preparation Table, Stainless Steel, With Open Front (11 42 16 00-0001)		
11 42 16 00-0014	EA		30" X 72" Round Edge Stainless Steel Preparation Table With Open Front.....	727.44	25.08
11 42 16 00-0015	EA		36" X 96" Round Edge Stainless Steel Preparation Table With Open Front.....	934.97	32.25
11 42 16 00-0016	EA		36" X 96" Square Edge Stainless Steel Preparation Table With Open Front.....	803.14	27.74
11 42 16 00-0017	EA		36" X 96" Marine Edge Stainless Steel Preparation Table With Open Front.....	966.71	33.41
11 42 16 00-0018	EA		Roller Utility Drawers Stainless Steel Preparation Table With Open Front.....	195.29	6.74
11 42 16 00-0019			Mobile Tables (11 42 16 00-0001)		
11 42 16 00-0020	EA		21-1/4" x 27-1/2" x 41" Galvanized Mobile Table With Galvanized Top.....	2,854.08	21.36
11 42 16 00-0021	EA		32-1/4" x 27-1/2" x 41" Galvanized Mobile Table With Galvanized Top.....	1,537.54	25.60
11 42 16 00-0022	EA		32-1/4" x 27-1/2" x 41" Stainless Steel Mobile Table With Stainless Steel Top.....	832.47	28.80
11 42 16 00-0023			Hot Food Tables, Stainless Steel, Gas Or Electric (11 42 16 00-0001)		
11 42 16 00-0024	EA		32-1/4" x 27-1/2" x 41" Stainless Steel Hot Food Tables.....	1,486.76	51.40
11 42 16 00-0025	EA		32-1/4" x 27-1/2" x 21" Stainless Steel Hot Food Tables.....	1,205.93	41.65
11 42 16 00-0026	EA		Full Size Pan With Cover Stainless Steel Hot Food Tables.....	100.09	3.46
11 42 16 00-0027	EA		Set Of Three 1/3 Size With Cover Stainless Steel Hot Food Tables.....	146.45	5.05
11 42 16 00-0028	EA		58-1/2", 4 Openings Stainless Steel Hot Food Tables.....	2,941.40	97.29
11 42 16 00-0029	EA		114-1/2", 8 Openings Stainless Steel Hot Food Tables.....	5,851.95	194.11
11 42 16 00-0030			Basic Table (11 42 16 00-0001)		
11 42 16 00-0031	LF		Table, Basic.....	272.08	21.60
11 42 16 00-0032			Table With Sink (11 42 16)		
11 42 16 00-0033	LF		Table With Sink.....	336.39	37.02
11 42 23			Food Preparation Scullery Sinks (11 42)		
11 42 23 00-0001			Stainless Steel Scullery Sinks (11 42 23)		
			Note: Excludes faucet. See CSI section 22 42 39 00-0071 for service sink faucets.		
11 42 23 00-0002	EA		Stainless Steel Scullery Sink, Single 30" x 24" x 12" Compartment And Drainboard.....	2,885.65	155.33
			For Additional Drain Board, Add	273.03	
11 42 23 00-0003	EA		Stainless Steel Scullery Sink, Double 30" x 24" x 12" Compartment And Drainboard.....	3,975.77	177.51
			For Additional Drain Board, Add	380.94	
11 42 23 00-0004	EA		Stainless Steel Scullery Sink, Triple 30" x 24" x 12" Compartment And Drainboard.....	5,215.28	177.51
			For Additional Drain Board, Add	503.78	
11 42 23 00-0005	EA		Stainless Steel Scullery Sink, Quad 30" x 24" x 12" Compartment And Drainboard.....	7,424.71	177.51
			For Additional Drain Board, Add	724.72	
11 42 23 00-0006	EA		Stainless Steel Pot Sink, Double 20" x 20" x 18" Compartment And Drainboard.....	4,780.16	177.51
11 44			Food Cooking Equipment (11 40)		
11 44 13			Commercial Ranges (11 44)		
11 44 13 00-0001			Range (11 44 13)		
11 44 13 00-0002	EA		Heavy Duty Range, With 34" Open Top Oven.....	2,662.67	73.51
11 44 13 00-0003	EA		Range With Fry Top.....	2,662.67	73.51
11 44 13 00-0004	EA		Steel Finish Fry Top.....	5,762.90	116.84
11 44 13 00-0005	EA		Stainless Top Only Fry Top.....	5,760.76	115.51
11 44 13 00-0006	EA		Stainless Top And 2 Sides Fry Top.....	6,656.39	134.49
11 44 13 00-0007	EA		Gas Range, Vulcan #260L.....	5,998.63	119.82
			Note: Six 12" burners, open top sections, porcelain on steel aeration plates and grates. 24" griddle/broiler, two 26-1/4" x 22" x 14-1/2" ovens porcelain on steel liner and aluminized steel construction, nickel plated oven racks.		
11 44 13 00-0008	EA		48" Range With Casters (Vulcan 48C-4B24GN).....	8,715.87	77.72
11 44 16			Commercial Ovens (11 44)		
11 44 16 00-0001			Bake Oven (11 44 16)		
11 44 16 00-0002	EA		Bake Oven - Single Deck.....	5,555.18	110.27
11 44 16 00-0003	EA		Bake Oven - Double Deck.....	11,404.11	147.02

11	11 Equipment
	11 40 Foodservice Equipment
	11 44 Food Cooking Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 44 16 00-0004	EA		Bake Oven - Triple Deck	16,628.16	147.02
11 44 16 00-0005	EA		Rotary Oven, Gas, Medium.....	38,156.25	4,778.17
11 44 16 00-0006			Combination Ovens <small>(11 44 16)</small>		
			Note: Convection, steam and combination modes.		
11 44 16 00-0007	EA		35.4" x 34" x 26.6" Half Size Electric Boilerless Combination Oven.....	14,015.20	128.65
11 44 16 00-0008	EA		35.4" x 45" x 36.8" Full Size Electric Boilerless Combination Oven	22,971.10	147.02
11 44 16 00-0009	EA		35.4" x 34" x 36.8 Half Size Electric Boilerless Combination Oven.....	18,985.22	147.02
11 44 16 00-0010	EA		35.4" x 45" x 70.4" Full Size Electric Boilerless Combination Oven	45,761.95	183.78
11 44 16 00-0011	EA		35.4" x 34" x 70.4 Half Size Electric Boilerless Combination Oven.....	34,756.59	183.78
11 44 16 00-0012			Electric Convection Type Oven <small>(11 44 16)</small>		
11 44 16 00-0013	EA		40" x 45" x 57" Convection Oven	8,745.92	124.97
11 44 16 00-0014	EA		30" x 25" x 29" Half Size Electric Convection Oven	4,112.52	128.65
11 44 16 00-0015	EA		30" x 25" x 66-3/4" Half Size Electric Convection Oven	8,400.27	137.83
11 44 16 00-0016	EA		40" x 41-1/2" x 56-3/4" Single Deck Electric Convection Oven	5,797.24	137.83
11 44 16 00-0017	EA		40" x 41-1/2" x 70" Single Deck Electric Convection Oven	10,977.30	147.02
11 44 16 00-0018			Broiler, Without Oven <small>(11 44 16)</small>		
11 44 16 00-0019	EA		69" x 26" x 39" Broiler Without Oven.....	7,463.30	117.62
11 44 16 00-0020	EA		Conveyor Broiler	6,609.80	136.51
11 44 16 00-0021			Oven Stands <small>(11 44 16)</small>		
11 44 16 00-0022	EA		Stationary Oven Stand (Rational 60.30.334 US III UltraVent® Stationary Oven Stand).....	1,111.42	
11 44 19			Commercial Cooking Equipment <small>(11 44)</small>		
11 44 19 00-0001			Electric Griddle <small>(11 44 19)</small>		
11 44 19 00-0002	EA		24" Wide x 24" Deep Electric Griddle.....	2,487.20	101.08
11 44 19 00-0003	EA		36" Wide x 24" Deep Electric Griddle.....	3,522.49	101.08
11 44 19 00-0004	EA		48" Wide x 24" Deep Electric Griddle.....	4,029.76	110.27
11 44 19 00-0005	EA		60" Wide x 24" Deep Electric Griddle.....	4,814.44	110.27
11 44 19 00-0006	EA		72" Wide x 24" Deep Electric Griddle.....	6,163.09	119.45
11 44 19 00-0007			Fryer, With Submerger <small>(11 44 19)</small>		
11 44 19 00-0008	EA		Single Fryer With Submerger.....	4,044.24	117.62
11 44 19 00-0009	EA		Double Fryer With Submerger.....	8,265.16	147.02
11 44 19 00-0010	EA		Fryer Battery With Filter Unit (Single 42 LB Capacity)	12,532.75	191.12
11 44 19 00-0011	EA		Fryer Battery With Filter Unit (Triple 42 LB Capacity)	29,797.92	238.90
11 44 19 00-0012	EA		50 LB Capacity, 208 Volt, Electric Fryer.....	3,921.68	147.02
11 44 19 00-0013	EA		50 LB Capacity, Single Basket Lift, 208 Volt, Electric Fryer	5,750.61	154.37
11 44 19 00-0014	EA		50 LB Capacity, 480 Volt, Electric Fryer.....	4,113.95	147.02
11 44 19 00-0015	EA		50 LB Capacity, Single Basket Lift, 480 Volt, Electric Fryer	5,942.88	154.37
11 44 19 00-0016	EA		85 LB Capacity, Single Basket Lift, 208 Volt, Electric Fryer.....	13,046.55	191.12
11 44 19 00-0017	EA		85 LB Capacity, Single Basket Lift, 480 Volt, Electric Fryer.....	13,362.06	191.12
11 44 19 00-0018			Kettles, Steam Jacketed <small>(11 44 19)</small>		
11 44 19 00-0019	EA		5 Gallon Kettle, With Stand.....	4,215.05	95.86
11 44 19 00-0020	EA		20 Gallon Kettle With Steam Jacket.....	8,646.47	95.86
11 44 19 00-0021	EA		40 Gallon Kettle With Steam Jacket.....	8,922.11	95.86
11 44 19 00-0022	EA		60 Gallon Kettle With Steam Jacket.....	10,775.56	95.86
11 44 19 00-0023			Steamers, Electric <small>(11 44 19)</small>		
11 44 19 00-0024			Cooking Equipment/ Steamers <small>(11 44 19 00-0023)</small>		
11 44 19 00-0025	EA		3 Pan, Electric Countertop Convection Steamer.....	5,368.54	154.37
11 44 19 00-0026	EA		5 Pan, Electric Countertop Convection Steamer.....	7,057.80	161.72
11 44 19 00-0027	EA		3 Pan, Electric Countertop Boilerless/Connectionless Steamer	4,970.85	154.37
11 44 19 00-0028	EA		5 Pan, Electric Countertop Boilerless/Connectionless Steamer.....	7,229.52	161.72
11 44 19 00-0029			Braising Pans <small>(11 44 19)</small>		
11 44 19 00-0030	EA		24" x 24", 240 Volt, Tilting Braising Pan.....	8,904.60	167.08
11 44 19 00-0031	EA		24" x 31", 240 Volt, Tilting Braising Pan.....	9,396.93	175.70
11 44 19 00-0032	EA		24" x 41", 240 Volt, Tilting Braising Pan.....	10,008.46	187.11
11 44 19 00-0033	EA		24" x 24", 62,000 BTU/Hour, Tilting Braising Pan	11,608.21	217.88
11 44 19 00-0034	EA		24" x 31", 90,000 BTU/Hour, Tilting Braising Pan	12,003.83	224.59
11 44 19 00-0035	EA		24" x 41", 120,000 BTU/Hour, Tilting Braising Pan	12,471.30	230.53
11 44 19 00-0036			Toasters <small>(11 44 19)</small>		
11 44 19 00-0037	EA		Bun Toaster 3.2 KW.....	1,761.98	34.56



		Equipment	11
		Foodservice Equipment	11 40
		Food Cooking Equipment	11 44

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 44 19 00-0038	EA		Bun Toaster 4.3 KW.....	1,923.01	37.66
11 44 19 00-0039	EA		Pop-Up Toaster, 2 Slot.....	435.55	79.61
11 44 19 00-0040	EA		Conveyor Toaster.....	750.28	119.45
11 44 19 00-0041			Microwave Ovens (11 44 19)		
11 44 19 00-0042	EA		1,000 Watt Commercial Grade Microwave Oven, Freestanding Metallic Cabinet With Dial Timer.....	938.67	
11 44 19 00-0043	EA		1,000 Watt Commercial Grade Microwave Oven, Freestanding Stainless Steel Cabinet With Digital Display.....	1,304.76	
11 44 19 00-0044			Ceramic Broiler On Storage Base With Doors (11 44 19)		
11 44 19 00-0045	EA		Standard Finish Ceramic Boiler On Storage Base With Doors.....	7,337.05	136.98
11 44 19 00-0046	EA		Stainless Steel Front Ceramic Boiler On Storage Base With Doors.....	7,337.05	136.98
11 44 19 00-0047	EA		Stainless Steel Front And Sides Ceramic Boiler On Storage Base With Doors.....	9,118.90	171.00
11 44 19 00-0048			Gas Countertop Hot Plate (11 44 19)		
11 44 19 00-0049	EA		2 Burners Gas Countertop Hot Plate.....	935.39	17.44
11 46			Food Dispensing Equipment (11 46)		
11 46 13			Bar Equipment (11 46)		
11 46 13 00-0001			Soft Serve Machines (11 46 13)		
11 46 13 00-0002	EA		Soft Serve Machines, Medium.....	9,555.32	86.89
11 46 13 00-0003	EA		Soft Serve Machines, Large.....	16,121.74	106.15
11 46 13 00-0004			Salad Bars (11 46 13)		
11 46 13 00-0005	EA		96" Refrigerated Salad Bar With Light 54" Height.....	9,834.16	371.44
11 46 13 00-0006	EA		96" Refrigerated Salad Bar Without Light 54" Height.....	9,022.47	371.44
11 46 13 00-0007	EA		96" Iced Salad Bar Without Light 54" Height.....	6,340.36	204.07
11 46 13 00-0008	EA		79" Iced Salad Bar Without Light 54" Height.....	5,014.80	167.65
11 46 13 00-0009	EA		79" Refrigerated Salad Bar Without Light 54" Height.....	7,617.58	245.96
11 46 13 00-0010	EA		114" Iced Salad Bar 34" Height.....	8,387.10	217.88
11 46 13 00-0011	EA		Salad Bar Tray Fixed.....	1,209.20	36.90
11 46 13 00-0012	EA		Salad Bar Tray Hinged.....	1,286.33	36.90
11 46 16			Service Line Equipment (11 46)		
11 46 16 00-0001			Food Warmer Holding Station (11 46 16)		
11 46 16 00-0002	EA		Food Warmer Station And Heat Lamp.....	651.03	12.76
11 46 16 00-0003			Roll And Food Warmers (11 46 16)		
11 46 16 00-0004	EA		One Drawer, 16 Roll Capacity Food Warmer.....	1,400.95	27.47
11 46 16 00-0005	EA		Three Drawer, 36 Roll Capacity Food Warmer.....	3,205.99	62.92
11 46 16 00-0006			Hot Cabinets With Top Wells Electric (11 46 16)		
11 46 16 00-0007	EA		2 Wells, 2 Compartments Hot Cabinet With Top Wells, Electric.....	7,503.43	136.98
11 46 16 00-0008	EA		3 Wells, 3 Compartments Hot Cabinet With Top Wells, Electric.....	10,720.27	196.31
11 46 16 00-0009			Portable Hot Food Units (11 46 16)		
11 46 16 00-0010	EA		46" Wide x 28" Deep x 34" Height, Three Well, Stainless Steel Hot Food Station (Vollrath Model 37030).....	3,827.28	
11 46 16 00-0011	EA		60" Wide x 28" Deep x 34" Height, Four Well, Stainless Steel Hot Food Station (Vollrath Model 37040).....	4,383.24	
11 46 16 00-0012	EA		74" Wide x 28" Deep x 34" Height, Five Well, Stainless Steel Hot Food Station (Vollrath Model 37050).....	4,954.64	
11 46 16 00-0013			Stationary Hot Food Units (11 46 16)		
11 46 16 00-0014	EA		46" Wide x 29-1/2" Deep x 34" Height, Three Well, Stainless Steel Hot Food Station (Vollrath Model 38203).....	1,163.87	27.89
11 46 16 00-0015	EA		61-1/4" Wide x 29-1/2" Deep x 34" Height, Four Well, Stainless Steel Hot Food Station (Vollrath Model 38204).....	1,561.15	32.11
11 46 16 00-0016	EA		76" Wide x 29-1/2" Deep x 34" Height, Five Well, Stainless Steel Hot Food Station (Vollrath Model 38205).....	1,943.39	41.12
11 46 16 00-0017			Serving Counters (11 46 16)		
11 46 16 00-0018	LF		11" Deep, Tray Slide With 3 Raised Reinforced Ribs And Backing Plate, 316 Stainless Steel Solid Surface, Straight Section.....	96.42	29.99
11 46 16 00-0019	LF		11" Deep, Tray Slide With 3 Raised Reinforced Ribs And Backing Plate, 316 Stainless Steel Solid Surface, Curved Section.....	121.55	45.95
11 46 16 00-0020			Drop-In Equipment (11 46 16)		
11 46 16 00-0021	EA		Hot Food Well, Rectangular.....	410.77	95.56
11 46 16 00-0022	EA		Hot Food Well, Circular.....	376.45	95.56
11 46 16 00-0023	EA		Refrigerated Well, 2 Compartment.....	1,336.77	95.56

11	11 Equipment
	11 40 Foodservice Equipment
	11 46 Food Dispensing Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 46 16 00-0024	EA		Refrigerated Well, 3 Compartment.....	1,518.40	106.15
11 46 16 00-0025	EA		Refrigerated Well, 4 Compartment.....	1,724.97	119.45
11 46 16 00-0026	EA		Frost Cold Plate.....	1,602.35	106.15
11 46 16 00-0027			Beverage Dispensing (11 46 16)		
11 46 16 00-0028	EA		Coffee Urn, Twin 3 Gallon.....	2,652.30	172.14
11 46 16 00-0029	EA		Coffee Urn, Twin 6 Gallon.....	3,776.70	240.96
11 46 16 00-0030	EA		Coffee Brewer, 5 Burner.....	1,116.45	172.14
11 46 16 00-0031	EA		Hot Chocolate Dispenser.....	1,081.44	141.78
11 46 16 00-0032	EA		Iced Tea Brewer.....	1,570.51	141.78
11 46 16 00-0033	EA		Juice Dispenser (Concentrate).....	1,110.76	212.15
11 46 16 00-0034	EA		Jet Spray Dispenser.....	1,583.05	212.37
11 46 16 00-0035	EA		Milk Dispenser, Bulk, 2 Flavor.....	1,333.73	119.45
11 46 16 00-0036	EA		Milk Dispenser, Bulk, 3 Flavor.....	1,822.80	119.45
11 46 16 00-0037			Dish Dispensers (11 46 16)		
11 46 16 00-0038	EA		Dish Dispenser, 12", Drop-in.....	546.29	27.74
11 46 16 00-0039	EA		Dish Dispenser, Mobile.....	1,691.55	32.41
11 46 16 00-0040	EA		Cup And Glass Dispenser, Drop-in.....	941.31	86.25
11 46 16 00-0041	EA		Disposable Cup Dispenser, Drop-in.....	339.16	19.42
11 46 16 00-0042			Tray And Silver Dispensers (11 46 16)		
11 46 16 00-0043	EA		Tray And Silver Dispensers Mobile.....	2,108.39	19.42
11 46 16 00-0044			Condiment Dispensers (11 46 16)		
11 46 16 00-0045	EA		Butter Pat Dispenser.....	129.22	24.33
11 46 16 00-0046	EA		Bread Dispenser, Counter Top.....	354.02	24.33
11 46 16 00-0047			Sandwich Rack Warmer (11 46 16)		
11 46 16 00-0048	EA		18 Compartment, 2 Tier Sandwich Rack Warmer.....	2,652.34	101.81
11 46 16 00-0049			Mobile Bread Counter (11 46 16)		
11 46 16 00-0050	EA		Mobile Bread And Roll Counter.....	6,087.33	228.88
11 46 16 00-0051			Open Service Stand (11 46 16)		
11 46 16 00-0052	EA		6' Open Service Stand.....	2,352.28	85.79
11 46 16 00-0053	LF		Each Additional Ft Over 6 Ft Add.....	321.79	11.60
11 46 16 00-0054			Mobile Serving Stand Unit (11 46 16)		
11 46 16 00-0055	EA		36" Mobile Serving Stand Unit.....	2,055.82	82.05
11 46 16 00-0056	EA		96" Mobile Serving Stand Unit.....	3,376.84	122.99
11 46 16 00-0057			Reach-In Heated Cabinets (11 46 16)		
11 46 16 00-0058	EA		Heated Cabinet, Reach-in, 1 Compartment.....	4,106.11	122.54
11 46 16 00-0059	EA		Heated Cabinet, Reach-in, 2 Compartment.....	5,919.71	154.15
11 46 16 00-0060	EA		Heated Cabinet, 1 Compartment, Pass-Through Roll-In.....	4,299.17	122.54
11 46 16 00-0061	EA		Heated Cabinet, Pass-Through, Roll-In 2 Compartment.....	6,200.28	154.15
11 46 16 00-0062			Mobile Heated Cabinets (11 46 16)		
11 46 16 00-0063	EA		Mobile, Heated Cabinet.....	4,644.63	48.57
11 46 19 Soda Fountain Equipment (11 46)					
11 46 19 00-0001			Carbonated Beverage Dispensing (11 46 19)		
11 46 19 00-0002	EA		Carbonated Beverage Dispenser.....	2,843.56	298.67
11 46 19 00-0003	EA		Carbonated Beverage Dispenser With 90 LB Ice.....	4,531.66	341.31
11 46 19 00-0004	EA		Carbonated Beverage Dispenser With 150 LB Ice.....	8,355.18	477.82
11 46 19 00-0005			Beverage Chilling Systems (11 46 19)		
11 46 19 00-0006	EA		Beverage Chiller, Small.....	5,842.03	295.82
11 46 19 00-0007	EA		Beverage Chiller, Large.....	10,910.33	443.78
11 46 83 Ice Machines (11 46)					
11 46 83 00-0001			Ice Cube Maker (11 46 83)		
11 46 83 00-0002	EA		101 LB/Day, Self Contained Ice Maker With Built-In Bin.....	2,001.96	128.65



Equipment	11
Foodservice Equipment	11 40
Food Dispensing Equipment	11 46

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 46 83 00-0003 EA 201 LB/Day, Self Contained Ice Maker With Built-In Bin.....	2,374.34	137.83
11 46 83 00-0004 EA 260 LB/Day, Self Contained Ice Maker With Built-In Bin.....	2,721.42	147.02
11 46 83 00-0005 EA 320 LB/Day, Modular Ice Maker Without Bin.....	2,399.63	137.83
11 46 83 00-0006 EA 451 LB/Day, Modular Ice Maker Without Bin.....	2,606.92	147.02
11 46 83 00-0007 EA 600 LB/Day, Modular Ice Maker Without Bin.....	2,979.33	147.02
11 46 83 00-0008 EA 901 LB/Day, Modular Ice Maker Without Bin.....	4,246.25	156.21
11 46 83 00-0009 EA 1301 LB/Day, Modular Ice Maker Without Bin.....	4,813.19	156.21
11 46 83 00-0010 EA 1601 LB/Day, Modular Ice Maker Without Bin.....	5,796.76	165.40
11 46 83 00-0011 EA 1900 LB/Day, Modular Ice Maker Without Bin.....	6,399.26	165.40
11 46 83 00-0012 Ice Flakers (11 46 83)		
11 46 83 00-0013 EA Ice Flakers, 300 LB/Day.....	4,498.76	482.07
11 46 83 00-0014 EA Ice Flakers, 600 LB/Day.....	8,132.08	771.32
11 46 83 00-0015 EA Ice Flakers, 1,000 LB/Day.....	10,072.43	1,060.57
11 46 83 00-0016 EA Ice Flakers, 2,000 LB/Day.....	12,280.67	1,156.98
11 46 83 00-0017 Ice Storage Bins (11 46 83)		
11 46 83 00-0018 EA 260 LB Stainless Steel Ice Storage Bin.....	1,011.92	116.58
11 46 83 00-0019 EA 360 LB Stainless Steel Ice Storage Bin.....	1,102.95	116.58
11 46 83 00-0020 EA 550 LB Stainless Steel Ice Storage Bin.....	1,365.11	126.28
11 46 83 00-0021 EA 660 LB Stainless Steel Ice Storage Bin.....	1,466.26	126.28
11 46 83 00-0022 EA 1150 LB Stainless Steel Ice Storage Bin.....	2,749.96	136.00
11 48 Foodservice Cleaning and Disposal Equipment (11 40)		
11 48 13 Commercial Dishwashers (11 48)		
11 48 13 00-0001 Rack Type Dishwasher (11 48 13)		
11 48 13 00-0002 EA Dishwasher, 1 Tank And 190 Racks/Hour.....	8,293.92	192.77
11 48 13 00-0003 EA Dishwasher, 2 Tanks And 234 Racks/Hour.....	14,315.22	506.01
11 48 13 00-0004 EA Dishwasher, 2 Tanks And 265 Racks/Hour.....	17,185.26	578.30
11 48 13 00-0005 EA Dishwasher, Automatic - 100 Meals/Hour.....	13,301.78	144.57
11 48 13 00-0006 EA Dishwasher, Machine Rack.....	15,583.45	401.63
11 48 13 00-0007 EA Dishwasher, Hobart LX30-H.....	4,163.05	168.67
11 48 13 00-0008 Exhaust Hood Dishwasher (11 48 13)		
11 48 13 00-0009 EA 4' x 4' x 2' Dishwasher Exhaust Hood Stainless Steel With Gutter On All Sides.....	1,681.38	181.63
11 48 13 00-0010 EA 4' x 4' x 7' Dishwasher Exhaust Hood Stainless Steel With Gutter On All Sides.....	2,845.25	217.96
11 48 13 00-0011 Dish Tables (11 48 13)		
11 48 13 00-0012 LF Clean/Soiled Dish Table, Basic.....	204.71	37.02
11 48 13 00-0013 LF Clean/Soiled Dish Table With Through.....	320.72	55.47
11 48 13 00-0014 LF Clean/Soiled Dish Table, Maximum.....	391.24	73.93
11 48 13 00-0015 Sprays And Hoses (11 48 13)		
11 48 13 00-0016 Sprays, Fillers (11 48 13 00-0015)		
11 48 13 00-0017 EA Pre-Rinse Spray.....	355.09	70.27
11 48 13 00-0018 EA Kettle Fillers.....	312.19	70.27
11 48 13 00-0019 Hoses (11 48 13 00-0015)		
11 48 13 00-0020 EA Hose Reel.....	426.11	84.36
11 48 13 00-0021 EA Wash-Down Hose.....	340.30	84.36
11 48 13 00-0022 EA Hose Reel And Spray System With Accessories (Chicago 535NF).....	1,256.68	
11 48 16 Foodservice Disposal Equipment (11 48)		
11 48 16 00-0001 Garbage Disposals (11 48 16)		
Note: Manual switch.		
11 48 16 00-0002 EA 1/2 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal.....	1,208.15	130.12
11 48 16 00-0003 EA 3/4 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal.....	1,517.80	134.94
11 48 16 00-0004 EA 1 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal.....	1,628.42	139.76
11 48 16 00-0005 EA 1.5 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal.....	2,121.50	144.57
11 48 16 00-0006 EA 2 HP, 115/208-230 Volt, 1 Phase, Stainless Steel, Garbage Disposal.....	2,311.35	159.03
11 48 16 00-0007 EA 3 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal.....	3,245.61	173.49
11 48 16 00-0008 EA 5 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal.....	3,872.08	192.77
11 48 16 00-0009 EA 7-1/2 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal.....	5,380.11	207.22
11 48 16 00-0010 EA 10 HP, 208-230/460 Volt, 3 Phase, Stainless Steel, Garbage Disposal.....	7,076.52	216.86
11 48 16 00-0011 Pulper/Extractors (11 48 16)		
11 48 16 00-0012 EA 5 HP, Pulper/Extractor, Close-Coupled.....	4,706.04	200.76

11	11 Equipment
	11 40 Foodservice Equipment
	11 48 Foodservice Cleaning and Disposal Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 50 Educational And Scientific Equipment ⁽¹¹⁾

11 52 Audio-Visual Equipment ^(11 50)

11 52 13 Projection Screens ^(11 52)

11 52 13 13 Fixed Projection Screens ^(11 52 13)

11 52 13 13-0001 Screens ^(11 52 13 13)

11 52 13 13-0002 Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model B) ^(11 52 13 13-0001)

11 52 13 13-0003	EA 40" x 40" Pull Down Projection Screen (Da-Lite B).....	239.26	62.05
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0004	EA 50" x 50" Pull Down Projection Screen (Da-Lite B).....	286.97	79.78
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0005	EA 60" x 60" Pull Down Projection Screen (Da-Lite B).....	370.14	110.81
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0006	EA 70" x 70" Pull Down Projection Screen (Da-Lite B).....	431.16	132.97
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0007	EA 84" x 84" Pull Down Projection Screen (Da-Lite B).....	664.27	199.45
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0008	EA 96" x 96" Pull Down Projection Screen (Da-Lite B).....	775.33	221.61
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0009	EA 64" x 84" Pull Down Projection Screen (Da-Lite B).....	549.02	141.83
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0010	EA 72" x 96" Pull Down Projection Screen (Da-Lite B).....	636.62	177.28
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0011	EA 43" x 57" Pull Down Projection Screen (Da-Lite B).....	332.60	75.35
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0012	EA 50" x 67" Pull Down Projection Screen (Da-Lite B).....	461.42	106.37
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0013	EA 55" x 77" Pull Down Projection Screen (Da-Lite B).....	504.70	119.67
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0014	EA 60" x 80" Pull Down Projection Screen (Da-Lite B).....	539.11	128.53
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0015	EA 69" x 92" Pull Down Projection Screen (Da-Lite B).....	625.67	155.13
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0016	EA 45" x 80" Pull Down Projection Screen (Da-Lite B).....	503.65	110.81
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0017	EA 52" x 92" Pull Down Projection Screen (Da-Lite B).....	572.49	128.53
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	

11 52 13 13-0018 Heavy Duty Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model C) ^(11 52 13 13-0001)

11 52 13 13-0019	EA 50" x 50" Pull Down Projection Screen (Da-Lite C).....	520.62	79.78
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	
11 52 13 13-0020	EA 60" x 60" Pull Down Projection Screen (Da-Lite C).....	620.48	110.81
	For High Contrast Matte, Add	40.00	
	For Video Spectra Fabric, Add	40.00	
	For High Power Fabric, Add	120.00	



Equipment	11
Educational And Scientific Equipment	11 50
Audio-Visual Equipment	11 52

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13	13-0021	EA	70" x 70" Pull Down Projection Screen (Da-Lite C) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	733.64 40.00 40.00 120.00	150.69
11 52 13	13-0022	EA	84" x 84" Pull Down Projection Screen (Da-Lite C) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	864.53 40.00 40.00 120.00	199.45
11 52 13	13-0023	EA	6' x 8' Pull Down Projection Screen (Da-Lite C) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	940.15 40.00 40.00 120.00	203.88
11 52 13	13-0024	EA	8' x 8' Pull Down Projection Screen (Da-Lite C) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,008.98 40.00 40.00 120.00	221.61
11 52 13	13-0025	EA	7' x 9' Pull Down Projection Screen (Da-Lite C) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,025.67 40.00 40.00 120.00	221.61
11 52 13	13-0026	EA	9' x 9' Pull Down Projection Screen (Da-Lite C) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,102.33 40.00 40.00 120.00	234.91
11 52 13	13-0027	EA	8' x 10' Pull Down Projection Screen (Da-Lite C) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,178.99 40.00 40.00 120.00	248.20
11 52 13	13-0028	EA	10' x 10' Pull Down Projection Screen (Da-Lite C) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,264.51 40.00 40.00 120.00	265.94
11 52 13	13-0029	EA	9' x 12' Pull Down Projection Screen (Da-Lite C) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,398.02 40.00 40.00 120.00	265.94
11 52 13	13-0030	EA	12' x 12' Pull Down Projection Screen (Da-Lite C) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,642.08 40.00 40.00 120.00	354.58
11 52 13	13-0031		Heavy Duty Pull Down Project Screen, Matte White Or Glass Beaded (Da-Lite Model C With CSR) (11 52 13 13-0001) Note: With controlled screen return.		
11 52 13	13-0032	EA	60" x 60" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	954.26 40.00 40.00 120.00	110.81
11 52 13	13-0033	EA	70" x 70" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,084.10 40.00 40.00 120.00	150.69
11 52 13	13-0034	EA	84" x 84" Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,215.00 40.00 40.00 120.00	199.45
11 52 13	13-0035	EA	6' x 8' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,273.93 40.00 40.00 120.00	203.88
11 52 13	13-0036	EA	8' x 8' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,359.45 40.00 40.00 120.00	221.61
11 52 13	13-0037	EA	7' x 9' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,376.14 40.00 40.00 120.00	221.61
11 52 13	13-0038	EA	9' x 9' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,452.80 40.00 40.00 120.00	234.91
11 52 13	13-0039	EA	8' x 10' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,487.22 40.00 40.00 120.00	243.77
11 52 13	13-0040	EA	10' x 10' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,665.04 40.00 40.00 120.00	265.94
11 52 13	13-0041	EA	9' x 12' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	1,815.24 40.00 40.00 120.00	265.94

11	11 Equipment
	11 50 Educational And Scientific Equipment
	11 52 Audio-Visual Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0042 EA 12' x 12' Pull Down Projection Screen With CSR (Controlled Screen Return) (Da-Lite C With CSR) <i>For High Contrast Matte, Add</i> <i>For Video Spectra Fabric, Add</i> <i>For High Power Fabric, Add</i>	2,092.68 40.00 40.00 120.00	354.58
11 52 13 13-0043 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Cosmopolitan Electrol) ^(11 52 13 13-0001) Note: Heavy-duty screen for exposed installation.		
11 52 13 13-0044 EA 50" x 50" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,486.53	99.73
11 52 13 13-0045 EA 60" x 60" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,524.05	110.81
11 52 13 13-0046 EA 70" x 70" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,597.57	132.97
11 52 13 13-0047 EA 84" x 84" Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,862.62	199.45
11 52 13 13-0048 EA 6' x 8' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	1,908.34	203.88
11 52 13 13-0049 EA 8' x 8' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	2,028.27	221.61
11 52 13 13-0050 EA 7' x 9' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	2,066.67	221.61
11 52 13 13-0051 EA 9' x 9' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	2,171.42	237.12
11 52 13 13-0052 EA 8' x 10' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	2,296.48	248.20
11 52 13 13-0053 EA 10' x 10' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	2,382.62	265.94
11 52 13 13-0054 EA 9' x 12' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	2,451.74	265.94
11 52 13 13-0055 EA 12' x 12' Electric Projection Screen, Wall Or Ceiling Mounted (Da-Lite Cosmopolitan Electrol).....	2,748.84	354.58
11 52 13 13-0056 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Professional Electrol) ^(11 52 13 13-0001) Note: Heavy-duty screen for exposed or recessed installation without doors.		
11 52 13 13-0057 EA 9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	3,367.32	265.94
11 52 13 13-0058 EA 12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	3,678.13	354.58
11 52 13 13-0059 EA 14' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	4,534.47	398.91
11 52 13 13-0060 EA 12' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	4,790.00	443.22
11 52 13 13-0061 EA 16' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	5,134.19	531.86
11 52 13 13-0062 EA 13.5' x 18' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	5,723.50	576.19
11 52 13 13-0063 EA 18' x 18' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	6,262.75	620.52
11 52 13 13-0064 EA 15' x 20' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	6,596.53	620.52
11 52 13 13-0065 EA 20' x 20' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	7,124.29	709.16
11 52 13 13-0066 EA 11' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	6,557.95	576.19
11 52 13 13-0067 EA 16.5' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	6,990.78	709.16
11 52 13 13-0068 EA 22' x 22' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	7,334.95	797.80
11 52 13 13-0069 EA 12' x 24' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	6,980.38	620.52
11 52 13 13-0070 EA 18' x 24' Electric Projection Screen, Ceiling Mounted (Da-Lite Professional Electrol)..... Note: Heavy-duty screen for exposed or recessed installation without doors.	9,003.85	797.80
11 52 13 13-0071 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Executive Electrol) ^(11 52 13 13-0001) Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0072 EA 50" x 50" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,034.91	99.73
11 52 13 13-0073 EA 60" x 60" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,107.14	110.81
11 52 13 13-0074 EA 70" x 70" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,184.85	132.97
11 52 13 13-0075 EA 84" x 84" Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,434.64	199.45
11 52 13 13-0076 EA 6' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,476.88	203.88
11 52 13 13-0077 EA 8' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,612.46	221.61
11 52 13 13-0078 EA 7' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,712.60	221.61
11 52 13 13-0079 EA 9' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,793.69	237.12
11 52 13 13-0080 EA 8' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,899.30	248.20
11 52 13 13-0081 EA 10' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	4,001.50	265.94
11 52 13 13-0082 EA 9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	4,034.88	265.94



Equipment	11
Educational And Scientific Equipment	11 50
Audio-Visual Equipment	11 52

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0083 EA 12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....	4,379.07	354.58
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0084 EA 10.6' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....	4,690.42	376.74
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0085 EA 14' x 14' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....	4,901.63	398.91
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0086 EA 12' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....	5,357.42	443.22
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0087 EA 16' x 16' Electric Projection Screen, Ceiling Mounted (Da-Lite Executive Electrol).....	5,618.17	531.86
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0088 Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Senior		
Electrol) <small>(11 52 13 13-0001)</small>		
Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0089 EA 50" x 50" Electric Projection Screen (Da-Lite Senior Electrol).....	2,527.57	99.73
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0090 EA 60" x 60" Electric Projection Screen (Da-Lite Senior Electrol).....	2,595.25	121.88
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0091 EA 70" x 70" Electric Projection Screen (Da-Lite Senior Electrol).....	2,632.44	132.97
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0092 EA 84" x 84" Electric Projection Screen (Da-Lite Senior Electrol).....	2,813.81	199.45
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0093 EA 6' x 8' Electric Projection Screen (Da-Lite Senior Electrol).....	2,837.69	203.88
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0094 EA 8' x 8' Electric Projection Screen (Da-Lite Senior Electrol).....	2,936.56	221.61
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0095 EA 7' x 9' Electric Projection Screen (Da-Lite Senior Electrol).....	3,025.01	221.61
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0096 EA 9' x 9' Electric Projection Screen (Da-Lite Senior Electrol).....	3,174.53	237.12
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0097 EA 8' x 10' Electric Projection Screen (Da-Lite Senior Electrol).....	3,220.05	248.20
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0098 EA 10' x 10' Electric Projection Screen (Da-Lite Senior Electrol).....	3,327.27	265.94
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0099 EA 9' x 12' Electric Projection Screen (Da-Lite Senior Electrol).....	3,349.17	310.25
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0100 EA 12' x 12' Electric Projection Screen (Da-Lite Senior Electrol).....	3,671.46	354.58
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0101 EA 10'-6" x 14' Electric Projection Screen (Da-Lite Senior Electrol).....	4,546.89	376.74
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0102 EA 14' x 14' Electric Projection Screen (Da-Lite Senior Electrol).....	4,749.76	398.91
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0103 EA 12' x 16' Electric Projection Screen (Da-Lite Senior Electrol).....	5,147.14	443.22
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0104 EA 16' x 16' Electric Projection Screen (Da-Lite Senior Electrol).....	5,394.54	531.86
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0105 EA 13'-6" x 18' Electric Projection Screen (Da-Lite Senior Electrol).....	5,875.37	576.19
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0106 EA 18' x 18' Electric Projection Screen (Da-Lite Senior Electrol).....	6,242.71	620.52
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0107 EA 15' x 20' Electric Projection Screen (Da-Lite Senior Electrol).....	6,486.37	620.52
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0108 EA 20' x 20' Electric Projection Screen (Da-Lite Senior Electrol).....	7,184.37	709.16
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0109 EA 50" x 67" Electric Projection Screen (Da-Lite Senior Electrol).....	2,632.44	132.97
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0110 EA 60" x 80" Electric Projection Screen (Da-Lite Senior Electrol).....	2,769.48	177.28
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0111 EA 69" x 92" Electric Projection Screen (Da-Lite Senior Electrol).....	2,828.83	199.45
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0112 EA 87" x 116" Electric Projection Screen (Da-Lite Senior Electrol).....	3,236.74	248.20
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0113 EA 105" x 140" Electric Projection Screen (Da-Lite Senior Electrol).....	3,487.69	310.25
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0114 EA 123" x 164" Electric Projection Screen (Da-Lite Senior Electrol).....	4,330.86	398.91
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0115 EA 141" x 188" Electric Projection Screen (Da-Lite Senior Electrol).....	4,635.00	487.55
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0116 EA 12' x 24' Electric Projection Screen (Da-Lite Senior Electrol).....	8,050.33	664.83
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0117 EA 45" x 80" Electric Projection Screen (Da-Lite Senior Electrol).....	2,777.82	177.28
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0118 EA 52" x 92" Electric Projection Screen (Da-Lite Senior Electrol).....	2,853.86	199.45
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0119 EA 54" x 96" Electric Projection Screen (Da-Lite Senior Electrol).....	2,928.85	212.75
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0120 EA 58" x 104" Electric Projection Screen (Da-Lite Senior Electrol).....	2,979.32	230.47
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0121 EA 65" x 116" Electric Projection Screen (Da-Lite Senior Electrol).....	3,156.64	248.20
Note: Heavy duty screen for recessed or exposed installation.		
11 52 13 13-0122 EA 78" x 139" Electric Projection Screen (Da-Lite Senior Electrol).....	3,424.27	310.25
Note: Heavy duty screen for recessed or exposed installation.		

11	11 Equipment
	11 50 Educational And Scientific Equipment
	11 52 Audio-Visual Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0123	EA		92" x 164" Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	4,285.80	398.91
11 52 13 13-0124	EA		106" x 188" Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	4,967.11	487.55
11 52 13 13-0125	EA		119" x 212" Electric Projection Screen (Da-Lite Senior Electrol)..... Note: Heavy duty screen for recessed or exposed installation.	6,020.56	576.19
11 52 13 13-0126			Electric Project Screen, Matte White Or Glass Beaded (Da-Lite Boardroom Electrol) ^(11 52 13 13-0001) Note: In-the-ceiling screen with automatically operated door to conceal screen.		
11 52 13 13-0127	EA		50" x 50" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	2,876.52	99.73
11 52 13 13-0128	EA		60" x 60" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	2,935.55	110.81
11 52 13 13-0129	EA		70" x 70" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,007.52	132.97
11 52 13 13-0130	EA		84" x 84" Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,235.72	199.45
11 52 13 13-0131	EA		6' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,275.30	203.88
11 52 13 13-0132	EA		8' x 8' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,376.79	221.61
11 52 13 13-0133	EA		7' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,479.69	221.61
11 52 13 13-0134	EA		9' x 9' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,576.77	237.12
11 52 13 13-0135	EA		8' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,648.08	248.20
11 52 13 13-0136	EA		10' x 10' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,761.86	265.94
11 52 13 13-0137	EA		9' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	3,867.83	265.94
11 52 13 13-0138	EA		12' x 12' Electric Projection Screen, Ceiling Mounted (Da-Lite Boardroom Electrol)..... Note: In-the-ceiling screen with automatically operated door to conceal screen.	4,134.22	354.58
11 52 13 13-0139			Electric Ascending Project Screen, Matte White, Glass Beaded (Da-Lite Ascender Electrol) ^(11 52 13 13-0001) Note: High contrast matte white, video spectrum or high power. Includes a motorized spring assisted scissors mechanism which raises the screen surface from the housing ensuring smooth operation. A trap door housing keeps the screen and lift mechanism hidden until the screen is activated.		
11 52 13 13-0140	EA		60" x 80" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	7,751.33	221.61
11 52 13 13-0141	EA		69" x 92" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	8,307.27	265.94
11 52 13 13-0142	EA		87" x 116" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	9,708.06	398.91
11 52 13 13-0143	EA		105" x 140" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	12,243.70	531.86
11 52 13 13-0144	EA		120" x 160" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	13,589.22	620.52
11 52 13 13-0145	EA		52" x 92" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	8,218.63	221.61
11 52 13 13-0146	EA		58" x 104" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	8,991.51	265.94
11 52 13 13-0147	EA		65" x 116" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	9,530.78	310.25
11 52 13 13-0148	EA		78" x 139" Electric Ascending Projection Screen (Da-Lite Ascender Electrol)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	11,977.76	398.91
11 52 13 13-0149			Electric Rear Projection Screen (Da-Lite DA-View) ^(11 52 13 13-0001) Note: Consists of a single acrylic layer with rear Fensel lens and lenticulated front profile. Un-framed.		
11 52 13 13-0150	EA		60" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	2,794.15	221.61
11 52 13 13-0151	EA		67" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	3,491.88	243.77
11 52 13 13-0152	EA		72" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	3,993.57	265.94
11 52 13 13-0153	EA		84" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	7,108.88	288.10
11 52 13 13-0154	EA		90" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	7,871.95	7,561.68
11 52 13 13-0155	EA		96" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	8,744.67	354.58
11 52 13 13-0156	EA		100" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	11,185.55	398.91
11 52 13 13-0157	EA		120" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	15,063.91	443.22
11 52 13 13-0158	EA		125" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View)..... Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	16,851.41	487.55



Equipment	11
Educational And Scientific Equipment	11 50
Audio-Visual Equipment	11 52

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 13 13-0159 EA 135" Diagonal Video Format Rigid Rear Projection Screen (Da-Lite DA-View) Note: Includes a motorized spring assisted scissors mechanism and trap door housing.	22,493.95	531.86
11 52 13 13-0160 Screen Accessories (11 52 13 13-0001)		
11 52 13 13-0161 Manual Pull Down Accessories (11 52 13 13-0160)		
11 52 13 13-0162 EA 6" Mounting Bracket (Pair)	43.34	6.65
11 52 13 13-0163 EA 14" Wall Mounting Bracket (Pair)	60.03	7.09
11 52 13 13-0164 EA 14-1/2" To 24" Adjustable Wall Mounting Bracket (Pair)	70.04	7.98
11 52 13 13-0165 Electric Powered Screen Accessories (11 52 13 13-0160)		
11 52 13 13-0166 EA Single Motor Low Voltage Remote Control System - Infrared	421.02	
11 52 13 13-0167 EA Single Motor Low Voltage Remote Control System - Radio Frequency	604.60	
11 52 16 Projectors (11 52)		
11 52 16 26 Video Projectors (11 52 16)		
11 52 16 26-0001 Projectors (11 52 16 26)		
11 52 16 26-0002 EA 2,000 Lumens Output, 800 x 600 Pixels, SVGA Compact 3LCD Panels Projector	800.29	44.33
11 52 16 26-0003 EA 2,000 Lumens Output, 1024 x 768 Pixels, XGA Compact 3LCD Panels Projector	924.83	44.33
11 52 16 26-0004 EA 2,000 Lumens Output, 1280 x 800 Pixels, WXGA Compact 3LCD Panels Projector	1,218.38	44.33
11 52 16 26-0005 EA 3,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	1,912.24	44.33
11 52 16 26-0006 EA 3,500 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	2,223.58	44.33
11 52 16 26-0007 EA 3,000 Lumens Output, 1366 x 800 Pixels, WXGA 3LCD Panels Projector	2,819.59	44.33
11 52 16 26-0008 EA 4,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	4,474.17	44.33
11 52 16 26-0009 EA 5,200 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	6,057.59	44.33
11 52 16 26-0010 EA 6,000 Lumens Output, 1024 x 768 Pixels, XGA 3LCD Panels Projector	8,984.24	44.33
11 52 16 26-0011 Projector Mounts (11 52 16 26)		
11 52 16 26-0012 Universal Projector Mounts (11 52 16 26-0011) Note: Includes ceiling or wall mounting hardware and hardware for attaching projector. Excludes projector.		
11 52 16 26-0013 EA Flush Ceiling, Universal Projector Mount (Peerless PPF)	189.72	48.74
11 52 16 26-0014 EA Wall Arm, Universal Projector Mount (Peerless PWA-14)	300.15	48.74
11 52 16 26-0015 Projector Mount Components (11 52 16 26-0011) Note: Complete projector mount system will include ceiling attachment plate, threaded extension column and projector attachment plate. Excludes projector.		
11 52 16 26-0016 Ceiling Attachment Plates For Projector Mounts (11 52 16 26-0015)		
11 52 16 26-0017 EA Finished Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 570)	70.57	22.15
11 52 16 26-0018 EA Truss Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 557)	93.24	22.15
11 52 16 26-0019 EA I-Beam Ceiling, Attachment Plate For Projector Mounts (Peerless ACC 558/559)	126.78	22.15
11 52 16 26-0020 EA Suspended Ceiling, Attachment Plate For Projector Mounts (Peerless CMJ 455)	158.48	22.15
11 52 16 26-0021 Projector Attachment Plates For Projector Mounts (11 52 16 26-0015)		
11 52 16 26-0022 EA Universal Projector Attachment Plate For Projector Mounts (Peerless PRG-UNV)	226.02	22.15
11 52 16 26-0023 EA High Security Projector Enclosure For Projector Mounts (Peerless ALB)	490.23	22.15
11 52 16 26-0024 Threaded Extension Columns For Projector Mounts (11 52 16 26-0015)		
11 52 16 26-0025 Fixed Length, Threaded Extension Column For Projector Mounts (11 52 16 26-0024) Note: Peerless EXT series.		
11 52 16 26-0026 EA 6" Fixed Length, Threaded Extension Column For Projector Mounts	39.86	6.65
11 52 16 26-0027 EA 12" Fixed Length, Threaded Extension Column For Projector Mounts	51.04	6.65
11 52 16 26-0028 EA 18" Fixed Length, Threaded Extension Column For Projector Mounts	55.24	6.65
11 52 16 26-0029 EA 24" Fixed Length, Threaded Extension Column For Projector Mounts	58.03	6.65
11 52 16 26-0030 EA 36" Fixed Length, Threaded Extension Column For Projector Mounts	69.44	8.86
11 52 16 26-0031 EA 48" Fixed Length, Threaded Extension Column For Projector Mounts	83.42	8.86
11 52 16 26-0032 EA 60" Fixed Length, Threaded Extension Column For Projector Mounts	105.79	8.86
11 52 16 26-0033 EA 72" Fixed Length, Threaded Extension Column For Projector Mounts	121.16	8.86
11 52 16 26-0034 EA 84" Fixed Length, Threaded Extension Column For Projector Mounts	142.37	11.07
11 52 16 26-0035 EA 96" Fixed Length, Threaded Extension Column For Projector Mounts	161.94	11.07
11 52 16 26-0036 EA 108" Fixed Length, Threaded Extension Column For Projector Mounts	180.35	13.30
11 52 16 26-0037 EA 120" Fixed Length, Threaded Extension Column For Projector Mounts	188.73	13.30
11 52 16 26-0038 Adjustable Length, Threaded Extension Columns For Projector Mounts (11 52 16 26-0024) Note: Peerless ADJ series. Adjustable at 1" increments.		
11 52 16 26-0039 EA 6" To 9" Adjustable Length, Threaded Extension Column For Projector Mounts	80.86	11.07
11 52 16 26-0040 EA 12" To 18" Adjustable Length, Threaded Extension Column For Projector Mounts	122.80	11.07
11 52 16 26-0041 EA 18" To 24" Adjustable Length, Threaded Extension Column For Projector Mounts	125.59	11.07
11 52 16 26-0042 EA 24" To 36" Adjustable Length, Threaded Extension Column For Projector Mounts	129.79	11.07
11 52 16 26-0043 EA 36" To 60" Adjustable Length, Threaded Extension Column For Projector Mounts	141.21	13.30

11	11 Equipment
	11 50 Educational And Scientific Equipment
	11 52 Audio-Visual Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 16 26-0044	EA		48" To 72" Adjustable Length, Threaded Extension Column For Projector Mounts	148.20	13.30
11 52 16 26-0045	EA		60" To 84" Adjustable Length, Threaded Extension Column For Projector Mounts	163.57	13.30
11 52 16 26-0046	EA		72" To 96" Adjustable Length, Threaded Extension Column For Projector Mounts	177.55	13.30
11 52 16 26-0047	EA		84" To 108" Adjustable Length, Threaded Extension Column For Projector Mounts	197.37	15.51
11 52 16 26-0048	EA		96" To 120" Adjustable Length, Threaded Extension Column For Projector Mounts	211.35	15.51
11 52 16 26-0049	EA		108" To 132" Adjustable Length, Threaded Extension Column For Projector Mounts	231.14	17.72
11 52 16 26-0050	EA		120" To 144" Adjustable Length, Threaded Extension Column For Projector Mounts	240.93	17.72

11 52 33 Display Monitors And Panels (11 52)

11 52 33 00-0001 Television Monitors And Panels (11 52 33)

Note: Excludes wall or ceiling mounts See CSI section 11 52 33 00-0019 for television mounting.

11 52 33 00-0002	EA		27" HD Television, LCD, 1080 DPI, 60 Hertz	403.56	15.54
11 52 33 00-0003	EA		32" HD Television, LCD, 720 DPI, 60 Hertz	443.02	17.49
11 52 33 00-0004	EA		32" HD Television, LCD, 1080 DPI, 120 Hertz	600.85	19.42
11 52 33 00-0005	EA		32" HD Television, LED, 1920x1080 With WI-FI	606.32	19.42
			Note: Includes 4 - HDMI, 3 - USB, 1 - component input.		
11 52 33 00-0006	EA		40" HD Television, LED, 1920x1080 With WI-FI	686.52	21.37
			Note: Includes 4 - HDMI, 3 - USB, 1 - component input.		
11 52 33 00-0007	EA		46" HD Television, LED, 1920x1080 With WI-FI	805.85	23.32
			Note: Includes 4 - HDMI, 3 - USB, 1 - component input.		
11 52 33 00-0008	EA		50" HD Television, LED, 1920x1080 With WI-FI	1,003.43	25.26
			Note: Includes 4 - HDMI, 3 - USB, 1 - component input.		
11 52 33 00-0009	EA		55" HD Television, LED, 1920x1080 With WI-FI	1,199.07	25.26
			Note: Includes 4 - HDMI, 3 - USB, 1 - component input.		
11 52 33 00-0010	EA		60" HD Television, LED, 1920x1080 With WI-FI	1,396.64	27.20
			Note: Includes 4 - HDMI, 3 - USB, 1 - component input.		
11 52 33 00-0011	EA		65" HD Television, LED, 1920x1080 With WI-FI	1,692.04	29.14
			Note: Includes 4 - HDMI, 3 - USB, 1 - component input.		
11 52 33 00-0012	EA		75" HD Television, LED, 1920x1080 With WI-FI	2,672.17	31.09
			Note: Includes 4 - HDMI, 3 - USB, 1 - component input.		
11 52 33 00-0013	EA		46" 3D Television, LED, 1080 DPI, 240 Hertz	1,231.65	23.32
11 52 33 00-0014	EA		55" 3D Television, LED, 1080 DPI, 240 Hertz	1,716.92	25.26
11 52 33 00-0015	EA		60" 3D Television, LED, 1080 DPI, 240 Hertz	2,323.03	27.20
11 52 33 00-0016	EA		65" 3D Television, LED, 1080 DPI, 240 Hertz	2,445.81	29.14
11 52 33 00-0017	EA		75" 3D Television, LED, 1080 DPI, 240 Hertz	3,654.15	29.14
11 52 33 00-0018	EA		86" Interactive LED Panel (SMARTBOARD SPNL-7086)	11,129.09	31.09

11 52 33 00-0019 Flat Panel Display Mounting (11 52 33)

Note: Includes anchors, bolts and hardware. Excludes blocking in walls or ceiling.

11 52 33 00-0020	EA		Swivel Wall Mounts For 10" To 30" Flat Panel Displays	261.69	79.20
			Note: 2.6" To 16.6" swing arm extension, 12 degrees tilt		
11 52 33 00-0021	EA		Premium Swivel Wall Mounts For 23" To 37" Flat Panel Displays	402.01	99.00
			Note: 4.5" To 20.3" swing arm extension, 15 degrees tilt		
11 52 33 00-0022	EA		Swivel Wall Mounts For 32" To 60" Flat Panel Displays	418.32	118.80
			Note: 4.5" To 20.3" swing arm extension, 15 degrees tilt		
11 52 33 00-0023	EA		Swivel Wall Mounts For 32" To 60" Flat Panel Displays With Extra Wide 24" Back Plate	444.20	118.80
			Note: 4.5" To 20.3" swing arm extension, 15 degrees tilt		
11 52 33 00-0024	EA		Swivel Wall Mounts For 32" To 50" Flat Panel Displays	444.20	118.80
			Note: 4.5" To 26.2" swing arm extension, 15 degrees tilt		
11 52 33 00-0025	EA		Full Motion Wall Mounts For 13" To 26" Flat Panel Displays	248.78	79.20
			Note: 8" Extension		
11 52 33 00-0026	EA		Full Motion Wall Mounts For 26" To 40" Flat Panel Displays	340.03	99.00
			Note: 9.7" Extension		
11 52 33 00-0027	EA		Full Motion Wall Mounts For 32" To 56" Flat Panel Displays	573.32	118.80
			Note: 10.2" Extension		
11 52 33 00-0028	EA		Full Motion Wall Mounts For 42" To 84" Flat Panel Displays	815.78	138.60
			Note: 20" Extension		
11 52 33 00-0029	EA		Low Profile Tilting Wall Mounts For 26" To 40" Flat Panel Displays	314.21	99.00
11 52 33 00-0030	EA		Low Profile Tilting Wall Mounts For 32" To 70" Flat Panel Displays	365.85	99.00
11 52 33 00-0031	EA		Low Profile Tilting Wall Mounts For 75" Flat Panel Displays	430.94	118.80
11 52 33 00-0032	EA		Low Profile Wall Mounts For 26" To 40" Flat Panel Displays	262.56	99.00
11 52 33 00-0033	EA		Low Profile Wall Mounts For 40" To 70" Flat Panel Displays	301.29	99.00
11 52 33 00-0034	EA		Low Profile Wall Mounts For 75" Flat Panel Displays	358.44	118.80
11 52 33 00-0035	EA		Full Motion (Rotates And Tilts) Ceiling Mounts For 32" To 50" Flat Panel Displays, 39" To 63" Extension From Ceiling	437.59	158.41
			Note: 360 degree rotation, 15 degree tilt.		
11 52 33 00-0036	EA		Full Motion (Rotates And Tilts) Ceiling Mounts For 32" To 70" Flat Panel Displays, 18" To 31" Extension From Ceiling	510.09	158.41
			Note: 360 degree rotation, 15 degree tilt.		
			For 28" To 41" Extension Pole, Add	25.26	
			For 38" To 51" Extension Pole, Add	32.16	
			For 48" To 61" Extension Pole, Add	36.77	
11 52 33 00-0037	EA		VMP Full Motion (Rotates And Tilts) Ceiling Mounts For 37" To 80" Flat Panel Displays, 15" To 37" Extension From Ceiling	535.41	158.41
			Note: 360 degree rotation, 15 degree tilt.		

11 52 33 00-0038 Audio/Video Components (11 52 33)

11 52 33 00-0039	EA		MLC 104 IP Plus MLC - MediaLink™ Controller with IP Link® Ethernet Control, White (Extron Electronics #60-818-03)	935.10	59.40
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Equipment	11
Educational And Scientific Equipment	11 50
Audio-Visual Equipment	11 52

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 52 33 00-0040	EA		MLC 226 IP Enhanced MLC - MediaLink™ Controller with IP Link® Ethernet Control, Black (Extron Electronics #60-600-02).....	1,264.61	59.40
11 52 33 00-0041	EA		MPA 152 MPA 152 - Stereo Power Amplifier (Extron Electronics #60-844-01).....	286.74	19.80
11 52 33 00-0042	EA		MPA 401-70 Volt, 70 Volt Mono Power Amplifier - 40 Watts (Extron Electronics #60-845-01).....	331.67	19.80
11 52 33 00-0043	EA		MLS 406 Six Input MLS - MediaLink™ Switcher with Variable Preamp Audio Output Variable Preamp Audio Output (Extron Electronics #60-560-01).....	1,349.15	79.20
11 52 33 00-0044	EA		MLS 406MA Six Input MLS - MediaLink™ Switcher with Mono Audio Amplifier Mono Audio Amplifier (Extron Electronics #60-560-02).....	1,498.93	79.20
11 52 33 00-0045	EA		MLS 406SA Six Input MLS - MediaLink™ Switcher with Stereo Audio Amplifier Stereo Audio Amplifier (Extron Electronics #60-560-03).....	1,498.93	79.20
11 52 33 00-0046	EA		Wall Plate VGA 3.5 RJ-45 Passthru (Liberty Cable #PC-G1600-E-P-C).....	95.98	9.90
11 52 33 00-0047	EA		DVD/VCR Combo (Toshiba #SD V296).....	95.72	
11 52 33 00-0048	EA		DVD/VCR Combo (Toshiba #SD V392).....	97.01	
11 52 33 00-0049	EA		DVDr/VCR Combo (Toshiba #DVR620).....	177.07	
11 52 33 00-0050	EA		DVDr/VCR Combo (Toshiba #DVR670).....	242.92	

11 52 33 00-0051 Audio/Video Cabling ^(11 52 33)

11 52 33 00-0052	EA		HDMI M-M Pro/3 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-03).....	24.45	
11 52 33 00-0053	EA		HDMI M-M Pro/6 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-06).....	35.68	
11 52 33 00-0054	EA		HDMI M-M Pro/12 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-12).....	53.32	
11 52 33 00-0055	EA		HDMI M-M Pro/25 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-25).....	110.68	
11 52 33 00-0056	EA		HDMI M-M Pro/35 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-35).....	155.61	
11 52 33 00-0057	EA		HDMI M-M Pro/50 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-50).....	213.76	
11 52 33 00-0058	EA		HDMI M-M Pro/75 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-75).....	292.39	
11 52 33 00-0059	EA		HDMI M-M Pro/100 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-100).....	359.79	
11 52 33 00-0060	EA		HDMI M-M Pro/125 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-125).....	429.17	
11 52 33 00-0061	EA		HDMI M-M Pro/150 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-150).....	474.11	
11 52 33 00-0062	EA		HDMI M-M Pro/175 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-175).....	565.96	
11 52 33 00-0063	EA		HDMI M-M Pro/200 High Performance HDMI Male to Male Cables (Extron Electronics #26-650-200).....	680.27	
11 52 33 00-0064	EA		DVI-D/3 Single Link Male to Male Cables (Extron Electronics #26-649-03).....	24.45	
11 52 33 00-0065	EA		DVI-D/6 Single Link Male to Male Cables (Extron Electronics #26-649-06).....	35.68	
11 52 33 00-0066	EA		DVI-D/12 Single Link Male to Male Cables (Extron Electronics #26-649-12).....	53.32	
11 52 33 00-0067	EA		DVI-D/25 Single Link Male to Male Cables (Extron Electronics #26-649-25).....	110.68	
11 52 33 00-0068	EA		DVI-D/35 Single Link Male to Male Cables (Extron Electronics #26-649-35).....	155.61	
11 52 33 00-0069	EA		DVI-D/50 Single Link Male to Male Cables (Extron Electronics #26-649-50).....	213.76	
11 52 33 00-0070	EA		DVI-D/75 Single Link Male to Male Cables (Extron Electronics #26-649-75).....	292.39	
11 52 33 00-0071	EA		DVI-D/100 Single Link Male to Male Cables (Extron Electronics #26-649-100).....	359.79	
11 52 33 00-0072	EA		DVI-D/125 Single Link Male to Male Cables (Extron Electronics #26-649-125).....	429.17	
11 52 33 00-0073	EA		DVI-D/150 Single Link Male to Male Cables (Extron Electronics #26-649-150).....	474.11	
11 52 33 00-0074	EA		DVI-D/175 Single Link Male to Male Cables (Extron Electronics #26-649-175).....	565.96	
11 52 33 00-0075	EA		DVI-D/200 Single Link Male to Male Cables (Extron Electronics #26-649-200).....	680.27	
11 52 33 00-0076	EA		AV RCA/6 RCA Male to Male Composite Video and Stereo Audio Cables 6' (Extron Electronics #26-643-06).....	10.97	
11 52 33 00-0077	EA		AV RCA/20 RCA Male to Male Composite Video and Stereo Audio Cables 20' (Extron Electronics #26-643-20).....	17.44	
11 52 33 00-0078	EA		VGA M-M MD/3 Male to Male VGA Molded Connector Cables 3' (Extron Electronics #26-238-14).....	13.21	
11 52 33 00-0079	EA		VGA M-M MD/6 Male to Male VGA Molded Connector Cables 6' (Extron Electronics #26-238-01).....	14.34	
11 52 33 00-0080	EA		VGA M-M MD/10 Male to Male VGA Molded Connector Cables 10' (Extron Electronics #26-238-07).....	19.62	
11 52 33 00-0081	EA		VGA M-M MD/15 Male to Male VGA Molded Connector Cables 15' (Extron Electronics #26-238-02).....	22.99	
11 52 33 00-0082	EA		VGA M-M MD/25 Male to Male VGA Molded Connector Cables 25' (Extron Electronics #26-238-03).....	36.54	
11 52 33 00-0083	EA		VGA M-M MD/35 Male to Male VGA Molded Connector Cables 35' (Extron Electronics #26-238-17).....	51.14	
11 52 33 00-0084	EA		VGA M-M MD/50 Male to Male VGA Molded Connector Cables 50' (Extron Electronics #26-238-18).....	67.72	
11 52 33 00-0085	EA		VGA M-M MD/75 Male to Male VGA Molded Connector Cables 75' (Extron Electronics #26-238-19).....	90.19	
11 52 33 00-0086	EA		VGA M-M MD/100 Male to Male VGA Molded Connector Cables 100' (Extron Electronics #26-238-20).....	112.66	
11 52 33 00-0087	EA		VGA M-M BK/3 Male to Male VGA Backshell Connector Cables 3' (Extron Electronics #26-238-24).....	18.83	
11 52 33 00-0088	EA		VGA M-M BK/6 Male to Male VGA Backshell Connector Cables 6' (Extron Electronics #26-238-25).....	19.95	
11 52 33 00-0089	EA		VGA M-M BK/10 Male to Male VGA Backshell Connector Cables 10' (Extron Electronics #26-238-26).....	25.24	
11 52 33 00-0090	EA		VGA M-M BK/15 Male to Male VGA Backshell Connector Cables 15' (Extron Electronics #26-238-27).....	30.85	
11 52 33 00-0091	EA		VGA M-M BK/25 Male to Male VGA Backshell Connector Cables 25' (Extron Electronics #26-238-28).....	43.28	
11 52 33 00-0092	EA		VGA M-M BK/35 Male to Male VGA Backshell Connector Cables 35' (Extron Electronics #26-238-16).....	57.88	
11 52 33 00-0093	EA		VGA M-M BK/50 Male to Male VGA Backshell Connector Cables 50' (Extron Electronics #26-238-04).....	78.96	
11 52 33 00-0094	EA		VGA M-M BK/75 Male to Male VGA Backshell Connector Cables 75' (Extron Electronics #26-238-05).....	101.42	
11 52 33 00-0095	EA		VGA M-M BK/100 Male to Male VGA Backshell Connector Cables 100' (Extron Electronics #26-238-06).....	129.51	
11 52 33 00-0096	EA		A Mini/2 3.5 mm Stereo Audio Male to Male Stereo Audio Cables (Extron Electronics #26-571-01).....	4.23	
11 52 33 00-0097	EA		A Mini/9 3.5 mm Stereo Audio Male to Male Stereo Audio Cables (Extron Electronics #26-571-03).....	5.35	
11 52 33 00-0098	EA		A Mini/12 3.5 mm Stereo Audio Male to Male Stereo Audio Cables (Extron Electronics #26-571-06).....	6.47	
11 52 33 00-0099	EA		A Mini/25 3.5 mm Stereo Audio Male to Male Stereo Audio Cables (Extron Electronics #26-571-07).....	8.72	

11 60 Entertainment and Recreation Equipment ⁽¹¹⁾

11 66 Athletic Equipment ^(11 60)

11 66 13 Exercise Equipment ^(11 66)

11 66 13 00-0001 Fitness Systems ^(11 66 13)

11 66 13 00-0002 Components For Physical Fitness Activities ^(11 66 13 00-0001)

11 66 13 00-0003	EA		Sit And Reach.....	905.29	97.44
11 66 13 00-0004	EA		Isometric Squat.....	339.42	38.97
11 66 13 00-0005	EA		Log Jump.....	2,132.24	155.91
11 66 13 00-0006	EA		Step Up.....	511.12	77.95

11	11	Equipment
	11 60	Entertainment and Recreation Equipment
	11 66	Athletic Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 66	13 00-0007	EA	Hip Rotation	2,315.26	136.42
11 66	13 00-0008	EA	Body Curl	876.19	77.95
11 66	13 00-0009	EA	Horizontal Ladder.....	2,793.31	155.91
11 66	13 00-0010	EA	Chin Up.....	2,142.10	155.91
11 66	13 00-0011	EA	Push Up.....	1,295.53	77.95
11 66	13 00-0012	EA	Leg Raise.....	1,817.49	116.93
11 66	13 00-0013	EA	Log Hop.....	813.03	38.97
11 66	13 00-0014	EA	Parallel Bar.....	1,750.89	116.93
11 66	13 00-0015	EA	Leg Stretch.....	757.79	77.95
11 66	13 00-0016	EA	Balance Beam.....	671.94	58.46
11 66	13 00-0017	EA	Log Roll.....	2,059.71	97.44
11 68 Play Field Equipment And Structures (11 60)					
11 68 13 Playground Equipment (11 68)					
See CSI section 32 31 13 13-0001 for augering holes and fill for posts.					
11 68 13 00-0001 Standalone Playground Equipment (11 68 13)					
11 68 13 00-0002 Ground Socket For Movable Posts (11 68 13 00-0001)					
11 68	13 00-0003	PR	Ground Socket For 2-3/8" Post For Playground Equipment.....	212.79	52.64
11 68	13 00-0004	PR	Ground Socket For 3-1/2" Post For Playground Equipment.....	303.40	52.64
11 68 13 00-0005 See-Saws (11 68 13 00-0001)					
11 68 13 00-0006 Steel See-Saw (11 68 13 00-0005)					
11 68	13 00-0007	EA	2 Unit Steel See-Saw	1,693.80	323.96
11 68	13 00-0008	EA	4 Unit Steel See-Saw	2,626.18	382.84
11 68	13 00-0009	EA	6 Unit Steel See-Saw	3,589.30	467.93
11 68 13 00-0010 14' Long Laminated Beam (11 68 13 00-0005)					
11 68	13 00-0011	EA	Beam Is Supported By Two 12 In x 12 In Stepping Column Posts.....	1,690.76	286.45
11 68	13 00-0012	EA	Beam Is Supported By Two 8 In x 8 In Posts.....	1,206.17	255.17
11 68 13 00-0013 Slides (11 68 13 00-0001)					
11 68	13 00-0014	EA	8' Long x 4' High Slide With Stainless Steel Bed.....	1,902.24	370.44
11 68	13 00-0015	EA	12' Long x 6' High Slide With Stainless Steel Bed.....	2,686.23	526.42
11 68	13 00-0016	EA	16' Long x 8' High Slide With Stainless Steel Bed.....	2,977.00	584.90
11 68	13 00-0017	EA	20' Long x 10' High Slide With Stainless Steel Bed.....	3,648.33	647.92
11 68	13 00-0018	EA	6' High, 360 Degree One Piece Molded Polyethylene Slide.....	6,625.44	1,019.22
11 68	13 00-0019	EA	7' High, 360 Degree Slide, Stainless Steel Bed.....	10,175.14	1,051.43
11 68	13 00-0020	EA	9' High, 360 Degree Slide, Stainless Steel Bed.....	12,635.33	1,105.08
11 68 13 00-0021 Whirlers (11 68 13 00-0001)					
11 68	13 00-0022	EA	8' Diameter Whirler	4,418.63	701.88
11 68	13 00-0023	EA	10' Diameter Whirler.....	5,153.85	842.26
11 68 13 00-0024 Other Standalone Playground Equipment (11 68 13 00-0001)					
11 68 13 00-0025 Miscellaneous Standalone Playground Equipment (11 68 13 00-0024)					
11 68	13 00-0026	EA	Horizontal Ladder.....	1,356.11	187.48
11 68	13 00-0027	EA	Tether Ball Post.....	238.01	36.65
11 68	13 00-0028	PR	10'-6" Long Multiple Purpose Post.....	370.66	64.81
11 68	13 00-0029	EA	3-Person Fiberglass Golf Tee Shelter Turntable.....	2,661.17	183.11
11 68	13 00-0030	EA	Horizontal Turning Bars, 1 Bar.....	452.41	97.83
11 68	13 00-0031	EA	Horizontal Turning Bars, 2 Bars.....	602.21	116.93
11 68	13 00-0032	EA	Horizontal Turning Bars, 3 Bars.....	810.85	155.91
11 68	13 00-0033	EA	Horizontal Turning Bars, 5 Bars.....	1,177.29	214.37
11 68	13 00-0034	EA	Top Goal Opening With 4 Exit Holes (One Each Side) And 8' Pole.....	1,149.37	89.26
11 68	13 00-0035	EA	Top Goal Opening With 4 Exit Holes (One Each Side) And 10' Pole.....	1,264.29	96.35
11 68	13 00-0036	EA	Coil Spring With Single Riding Aluminum Saddle Devices.....	1,242.64	103.29
11 68	13 00-0037	EA	"C" Spring With Single Riding Aluminum Saddle Devices.....	1,381.46	88.87
11 68	13 00-0038	EA	Rubber Spring With Single Riding Aluminum Saddle Devices.....	1,704.25	116.38
11 68	13 00-0039	EA	Coil Spring Assembly Only.....	326.40	42.79
11 68	13 00-0040	EA	"C" Spring Assembly Only.....	216.94	28.53
11 68	13 00-0041	EA	Rubber Spring Assembly Only.....	228.20	55.66
11 68	13 00-0042	EA	Footbuck Assembly Only.....	56.43	7.49
11 68	13 00-0043	EA	Two Seat, Two Spring Action Cars (4'-8" x 2'-8").....	1,406.04	107.03
11 68 13 00-0044 Freestanding Panels (11 68 13 00-0024)					
Note: Rotomolded polyethylene.					
11 68	13 00-0045	EA	Tic-Tac-Toe Panel.....	598.88	45.84
11 68	13 00-0046	EA	24" Bubble Panel.....	897.15	68.67
11 68	13 00-0047	EA	Fire Engine Panel.....	1,316.61	100.79



Equipment	11
Entertainment and Recreation Equipment	11 60
Play Field Equipment And Structures	11 68

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 13 00-0048 EA Flat Mirror Panel	1,053.30	80.68
11 68 13 00-0049 EA Wavy Mirror Panel	1,558.96	119.42
11 68 13 00-0050 EA Paint Time Panel	1,011.35	77.49
11 68 13 00-0051 EA Phone Time Panel	717.73	54.96
11 68 13 00-0052 EA Phone Time With Graphic Panel	717.73	54.96
11 68 13 00-0053 EA Race Time Panel	1,258.35	96.35
11 68 13 00-0054 EA Rescue 911 Panel	1,276.11	96.35
11 68 13 00-0055 EA Eastern/Central/Western States Panel	687.44	52.62
11 68 13 00-0056 EA Career People Panel	780.64	59.79
11 68 13 00-0057 EA Solar System Panel	780.64	59.79
11 68 13 00-0058 EA Animals Panel	780.64	59.79
11 68 13 00-0059 Freestanding Panels Uprights (11 68 13 00-0024)		
11 68 13 00-0060 EA 3-1/2" Outside Diameter End Panel Upright	193.47	25.73
11 68 13 00-0061 EA 3-1/2" Outside Diameter 90 Degree Upright	209.59	27.83
11 68 13 00-0062 EA 3-1/2" Outside Diameter 180 Degree Upright	209.59	27.83
11 68 13 00-0063 EA 3-1/2" Outside Diameter "T-Shaped" Upright	223.04	29.62
11 68 13 00-0064 Coasters (11 68 13 00-0024)		
11 68 13 00-0065 EA 12' Single Metal Coaster With Four Posts	4,604.10	311.81
11 68 13 00-0066 EA 18' Single Metal Coaster With Four Posts	5,175.88	389.77
11 68 13 00-0067 EA 12' Double Metal Coaster With Four Posts	7,423.13	467.72
11 68 13 00-0068 EA 18' Double Metal Coaster With Four Posts	8,477.08	584.65
11 68 13 00-0069 Climbers (11 68 13 00-0024)		
11 68 13 00-0070 EA Tower Climber, 3,17' Diameter x 7.25' High	944.86	208.29
11 68 13 00-0071 EA Arch Climber, 2' x 12' x 4.5' High	873.23	255.07
11 68 13 00-0072 EA Arch Climber, 2' x 15' x 5.83' High	936.55	208.29
11 68 13 00-0073 EA Arch Climber, 2' x 17' x 6.58' High	996.51	255.07
11 68 13 00-0074 EA Rainbow Climber, 2' x 10'-5" x 4' High	1,057.59	208.06
11 68 13 00-0075 EA Rainbow Climber, 2' x 10'-5" x 5' High	1,168.59	208.13
11 68 13 00-0076 EA Rainbow Climber, 2' x 12'-5" x 6' High	1,338.60	208.13
11 68 13 00-0077 EA Rainbow Climber, 2' x 15'-4" x 7' High	1,449.78	208.06
11 68 13 00-0078 EA Double Level Arch Climber, 6' Wide x 12'-6" x 6' High Upper Section / 5' High Lower Section	1,744.32	243.61
11 68 13 00-0079 EA 12' Long Horizontal Ladder Climber	1,409.56	181.94
11 68 13 00-0080 EA 14' Long Horizontal Ladder Climber	1,428.27	181.94
11 68 13 00-0081 EA 16' Long Horizontal Ladder Climber	1,552.14	181.94
11 68 13 00-0082 EA Bell Climber, 7'-5" High With Double Bars	1,501.42	233.86
11 68 13 00-0083 EA 2-Way Climber	1,267.87	187.48
11 68 13 00-0084 EA 4-Way Climber	1,940.32	187.48
11 68 13 00-0085 Swings (11 68 13 00-0001)		
11 68 13 00-0086 Two-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail (11 68 13 00-0085)		
Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0087 EA 8' High Top Rail, One Section Two Seats	1,240.83	286.45
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	141.46	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	148.91	
11 68 13 00-0088 EA 8' High Top Rail, Two Sections Four Seats	1,963.82	409.90
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	225.00	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	241.30	
11 68 13 00-0089 EA 8' High Top Rail, Three Sections, Six Seats	2,722.41	603.16
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	311.57	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	332.76	
11 68 13 00-0090 EA 8' High Top Rail, Four Sections, Eight Seats	3,400.27	701.88
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	369.93	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	419.54	
11 68 13 00-0091 EA 10' High Top Rail, One Section Two Seats	1,312.49	286.45
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	150.41	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	161.45	
11 68 13 00-0092 EA 10' High Top Rail, Two Section Four Seats	2,065.18	436.57
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	235.72	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	249.28	
11 68 13 00-0093 EA 10' High Top Rail, Three Sections, Six Seats	2,868.28	677.95
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	326.24	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	340.48	
11 68 13 00-0094 EA 10' High Top Rail, Four Sections, Eight Seats	3,777.15	818.87
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	431.18	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	456.20	
11 68 13 00-0095 Three-Leg-End Swings, 2-3/8" Diameter Galvanized Steel Top Rail (11 68 13 00-0085)		
Note: Legs, 1-7/8" diameter, traditional.		
11 68 13 00-0096 EA 8' High Top Rail, One Section, Two Seats	1,384.19	252.99
For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add	160.37	
For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add	178.98	

11	Equipment
11 60	Entertainment and Recreation Equipment
11 68	Play Field Equipment And Structures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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11 68 13 00-0097	EA		8' High Top Rail, Two Sections, Four Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,008.93 232.76 259.80	367.08
11 68 13 00-0098	EA		8' High Top Rail, Three Sections, Six Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,680.92 310.57 346.43	490.93
11 68 13 00-0099	EA		8' High Top Rail, Four Sections, Eight Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,332.49 387.31 436.94	584.90
11 68 13 00-0100	EA		10' High Top Rail, One Section, Two Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,560.83 180.85 201.87	285.13
11 68 13 00-0101	EA		10' High Top Rail, One Section Three Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,624.30 188.64 212.24	302.35
11 68 13 00-0102	EA		10' High Top Rail, Two Sections, Four Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,179.70 252.50 281.65	399.14
11 68 13 00-0103	EA		10' High Top Rail, Two Sections, Six Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,596.64 302.66 344.81	460.13
11 68 13 00-0104	EA		10' High Top Rail, Three Section, Six Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,901.26 336.11 374.96	531.01
11 68 13 00-0105	EA		10' High Top Rail, Three Sections, Nine Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,566.35 416.54 477.87	585.14
11 68 13 00-0106	EA		10' High Top Rail, Four Section, Eight Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	3,697.32 427.06 471.52	701.88
11 68 13 00-0107	EA		12' High Top Rail, One Section Three Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	1,695.06 197.13 222.86	309.69
11 68 13 00-0108	EA		12' High Top Rail, Two Sections, Six Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	2,754.20 320.54 363.31	498.26
11 68 13 00-0109	EA		12' High Top Rail, Three Sections, Nine Seats..... <i>For Extra Heavy Duty, 3-1/2" Outside Diameter Top Pipe With 2-3/8" Outside Diameter Support Pipe, Add</i> <i>For Contemporary Design With 2-3/8" Outside Diameter Support Pipe, Add</i>	4,066.08 469.27 516.60	798.05

11 68 13 00-0110 Swing Accessories (11 68 13 00-0085)

11 68 13 00-0111	EA		Enclosed Tot Seat With Chain And Hardware.....	374.70	23.53
11 68 13 00-0112	EA		Bucket Seat With Chain And Hardware.....	311.49	19.57
11 68 13 00-0113	EA		Belt Seat With Chain And Hardware.....	331.80	20.88
11 68 13 00-0114	EA		Seat With Chain And Hardware.....	327.30	20.57
11 68 13 00-0115	EA		Wide Seat With Chain And Hardware.....	345.48	21.74
11 68 13 00-0116	EA		Handl Seat With Chain And Hardware.....	1,031.54	64.83
11 68 13 00-0117	LF		0.4 LB/LF Replacement Chain.....	4.44	0.46
11 68 13 00-0118	LF		1 LB/LF Replacement Chain.....	8.26	0.93
11 68 13 00-0119	EA		Swing Hanger Replacement.....	48.27	5.36

11 68 23 Exterior Court Athletic Equipment (11 68)

11 68 23 13 Exterior Basketball Equipment (11 68 23)

11 68 23 13-0001 Basketball Systems (11 68 23 13)

See CSI section 32 31 13 13-0001 for auguring holes and concrete.					
11 68 23 13-0002	EA		4-1/2" Bent Post Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Steel Net Basketball System..... Note: Sportsplay 541-616.	1,520.20	183.41
11 68 23 13-0003	EA		5-9/16" Bent Post Galvanized Steel Pole With 6' Extension Style, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System..... Note: Porter Athletic 176-234.	2,843.76	201.75
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>				-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>				350.00	
11 68 23 13-0004	EA		4-1/2" Galvanized Steel Pole With 4' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System..... Note: Porter Athletic 164-234.	2,030.32	183.41
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>				-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>				350.00	
11 68 23 13-0005	EA		4-1/2" Galvanized Steel Pole With 6' Extension, Aluminum Backboard, Double Rim Goal And Nylon Net Basketball System..... Note: Porter Athletic 166-234.	2,512.67	201.75
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>				-133.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>				350.00	
11 68 23 13-0006	EA		Back To Back 4-1/2" Galvanized Steel Pole With 4' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System..... Note: Porter Athletic 184-234.	3,209.39	269.71
<i>For Fan Shaped Fiberglass Backboard, Deduct</i>				-498.00	
<i>For 42" x 72" Perforated Steel Backboard, Add</i>				700.00	



Equipment	11
Entertainment and Recreation Equipment	11 60
Play Field Equipment And Structures	11 68

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 68 23 13-0007 EA Back To Back 5-9/16" Galvanized Steel Pole With 6' Extensions, Aluminum Backboards, Double Rim Goals And Nylon Net Double Basketball System Note: Porter Athletic 186-234. For Fan Shaped Fiberglass Backboard, Deduct For 42" x 72" Perforated Steel Backboard, Add	4,184.27 -498.00 700.00	296.69
11 68 23 13-0008 Basketball Components <small>(11 68 23 13)</small> See CSI section 32 31 13 13-0001 for auguring holes and concrete.		
11 68 23 13-0009 EA Nylon Cord Basketball Net (Porter Athletic 09608120)	28.18	7.80
11 68 23 13-0010 EA Chain Basketball Net (Porter Athletic 00161000).....	45.79	7.80
11 68 23 13-0011 EA Heavy Duty Goal Ring (Porter Athletic 00235000).....	114.49	38.97
11 68 23 13-0012 EA Goal Ring For Steel Net (Porter Athletic 00251H00).....	215.12	17.54
11 68 23 13-0013 EA 42" x 72" Rectangular Fully Tempered Glass Basketball Backboard With Steel Frame (Porter Athletic 00204-000)	910.89	33.13
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0014 EA 42" x 72" Rectangular 11 Gauge Perforated Steel Basketball Backboard (Porter Athletic 01207-300)	971.31	33.13
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0015 EA 54" x 39" Fan Shaped Cast Aluminum Basketball Backboard (Porter Athletic 00234-300).....	697.67	29.24
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 13-0016 EA 54" x 39" Fan Shaped Fiberglass Basketball Backboard (Porter Athletic 00267-000)	528.50	29.24
Note: Includes perimeter and target markings. Excludes pole and goal.		
11 68 23 33 Tennis Equipment <small>(11 68 23)</small>		
11 68 23 33-0001 Tennis Court Net Posts <small>(11 68 23 33)</small>		
11 68 23 33-0002 PR Round, Powder Coated Steel, Tennis Court Net Posts With External Winder	864.21	132.58
11 68 23 33-0003 PR Round, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,041.84	132.58
11 68 23 33-0004 PR Square, Powder Coated Steel, Tennis Court Net Posts With Internal Brass Winder	1,071.44	132.58
11 68 23 33-0005 PR Round, Powder Coated Aluminum, Tennis Court Net Posts With External Winder	1,122.64	132.58
11 68 23 33-0006 PR Round, Powder Coated Aluminum, Tennis Court Net Posts With Internal Winder	1,304.93	132.58
11 68 23 33-0007 PR Polyvinyl Chloride (PVC) Ground Sleeves For Tennis Court Net Posts.....	213.70	
11 68 23 33-0008 PR Galvanized Steel Ground Sleeves For Tennis Court Net Posts.....	235.83	
11 68 23 33-0009 Tennis Court Nets <small>(11 68 23 33)</small>		
11 68 23 33-0010 EA 42' Length, Single Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net.....	425.93	131.02
11 68 23 33-0011 EA 42' Length, Double Top, Vinyl Headband, Polyethylene Net Body, Tennis Court Net.....	461.25	131.02
11 68 23 33-0012 EA 42' Length, Anti-Vandal, Aluminum Coated Flexible Steel Mesh, Tennis Court Net.....	956.24	201.60
11 68 23 33-0013 EA Galvanized Steel Anchor For Tennis Court Net Center Strap.....	57.23	
11 68 33 Athletic Field Equipment <small>(11 68)</small>		
11 68 33 13 Football Field Equipment <small>(11 68 33)</small>		
11 68 33 13-0001 Football Goal Posts <small>(11 68 33 13)</small> Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 13-0002 PR Double Steel Football Goal Posts, "H Shape".....	3,476.21	350.79
11 68 33 13-0003 PR Vertical Style Goal Post, Single In Ground Mounting, Steel With 20' Uprights.....	4,805.68	465.41
11 68 33 13-0004 PR Gooseneck (Offset) Style Goal Post, Single In Ground Mounting, Steel, With 20' Uprights.....	5,741.51	558.49
11 68 33 23 Soccer And Field Hockey Equipment <small>(11 68 33)</small>		
11 68 33 23-0001 Soccer Goal Posts <small>(11 68 33 23)</small> Note: Includes augering for post(s), set in concrete and backfill.		
11 68 33 23-0002 PR Regulation Soccer Goal Posts	3,161.74	233.96
11 68 33 23-0003 PR Combination Football/Soccer Goal Post	3,823.79	350.79
11 68 33 33 Baseball Field Equipment <small>(11 68 33)</small>		
11 68 33 33-0001 Bases <small>(11 68 33 33)</small>		
11 68 33 33-0002 SET Bases For Baseball Or Softball.....	352.66	
11 80 Facility Maintenance and Operation Equipment <small>(11)</small>		
11 81 Maintenance Equipment <small>(11 80)</small>		
11 81 29 Facility Fall Protection <small>(11 81)</small>		
11 81 29 00-0001 Safety And Tie-Back Anchors <small>(11 81 29)</small> Note: One cut sheet charge required per manufacturer order. Excludes flashing and testing by engineer after installation. See CSI section 01 22 20 00-0059 for engineering testing and inspection.		
11 81 29 00-0002 Roof Mounted, Safety And Tie-Back Anchors <small>(11 81 29 00-0001)</small> Note: Includes up to 10" high, 0.216" thick hollow structural section tube, 1018 steel forged pad eye, 8" x 8" x 1/2" base plate and hot-dipped galvanized finish.		

11	11 Equipment
	11 80 Facility Maintenance and Operation Equipment
	11 81 Maintenance Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 81 29 00-0003	EA		Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Mechanically Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	496.28	66.48
			Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.		
			For Stainless Steel Pad Eye, Add	40.00	
			For Foam Insulation Filled HSS Tube, Add	10.00	
11 81 29 00-0004	EA		Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Epoxy Fastened, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	431.14	66.48
			Note: Includes drilling in concrete and adhesive anchor systems.		
			For Stainless Steel Pad Eye, Add	40.00	
			For Foam Insulation Filled HSS Tube, Add	10.00	
11 81 29 00-0005	EA		Up To 10" High, 0.216" Thick, Hollow Structural Section Tube, 1018 Steel Forged Pad Eye, 8" x 8" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Welded In Place, Roof Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	325.85	68.57
			For Stainless Steel Pad Eye, Add	40.00	
			For Foam Insulation Filled HSS Tube, Add	10.00	
11 81 29 00-0006			Wall Mounted, Safety And Tie-Back Anchor <small>(11 81 29 00-0001)</small>		
			Note: Includes 1018 steel forged pad eye, 10" x 4" x 1/2" base plate and hot-dipped galvanized finish.		
11 81 29 00-0007	EA		Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Mechanically Fastened, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	351.88	66.48
			Note: Includes drilling in concrete, anchor bolts and bottom plate or plates.		
			For Stainless Steel Pad Eye, Add	40.00	
11 81 29 00-0008	EA		Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Epoxy Fastened, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	320.29	66.48
			Note: Includes drilling in concrete and adhesive anchor systems.		
			For Stainless Steel Pad Eye, Add	40.00	
11 81 29 00-0009	EA		Steel Forged Pad Eye (1018), 10" x 4" x 1/2" Base Plate And Hot-Dipped Galvanized Finish, Welded In Place, Wall Mounted, Safety And Tie-Back Anchor (Summit Anchor).....	290.91	68.57
			For Stainless Steel Pad Eye, Add	40.00	
11 81 29 00-0010			Safety And Tie-Back Anchor Accessories <small>(11 81 29 00-0001)</small>		
11 81 29 00-0011	EA		Mandatory Cut Sheets For Safety And Tie-Back Anchors (Summit Anchor).....	254.16	
			Note: One cut sheet required per order.		
11 82			Facility Solid Waste Handling Equipment <small>(11 80)</small>		
11 82 19			Packaged Incinerators <small>(11 82)</small>		
11 82 19 00-0001			Electric Incinerator <small>(11 82 19)</small>		
11 82 19 00-0002	EA		Electric Package Incinerator, 100 LB/Hour.....	24,790.79	939.86
11 82 19 00-0003	EA		Electric Package Incinerator, 400 LB/Hour.....	50,699.05	1,879.73
11 82 19 00-0004	EA		Electric Package Incinerator, 1,000 LB/Hour.....	169,291.93	2,819.59
11 82 26			Facility Waste Compactors <small>(11 82)</small>		
11 82 26 00-0001			110 Volt Compactors <small>(11 82 26)</small>		
11 82 26 00-0002	EA		Waste Compactor, 110 Volt At 75 LB/Hour.....	13,365.24	424.33
11 82 26 00-0003	EA		Waste Compactor, 110 Volt At 250 LB/Hour.....	16,927.58	1,018.40
11 82 26 00-0004			230 Volt Compactors <small>(11 82 26)</small>		
11 82 26 00-0005	EA		Waste Compactor, 230 Volt At 600 LB/Hour Hand Fed.....	17,010.67	1,357.87
11 82 26 00-0006	EA		Waste Compactor, 230 Volt At 600 LB/Hour Chute Fed.....	19,268.33	1,782.20
11 82 26 00-0007			Trash Compactors <small>(11 82 26)</small>		
11 82 26 00-0008	EA		Trash Compactor, Small.....	2,981.00	222.23
11 82 26 00-0009	EA		Trash Compactor, Large.....	3,677.88	251.47
11 90			Other Equipment <small>(11)</small>		
11 97			Security Equipment <small>(11 90)</small>		
11 97 26			Detention Gun Lockers <small>(11 97)</small>		
11 97 26 00-0001			Hinged Door Gun Lock <small>(11 97 26)</small>		
			Note: Two keys per locker with one master.		
11 97 26 00-0002	EA		8 Compartment Pistol Locker, 20-1/8" High x 15-1/8" Wide x 17-1/4" Deep, Double Welded 20 Gauge Steel Body, 10 Gauge Steel Door.....	1,911.53	45.41
11 97 26 00-0003			Hinged-Door Gun Locker <small>(11 97 26)</small>		
			Note: Includes master key for each set of 4 compartments, two keys per compartment.		
11 97 26 00-0004	EA		4 Compartment Pistol Locker, 11-1/4" High x 16-1/4" Wide x 16-3/4" Deep, 16 Gauge, Foam Filled, Painted With Powder Coat Finish.....	753.63	31.78



Equipment	11	
Other Equipment	11 90	11
Security Equipment	11 97	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 97 26 00-0005 EA 8 Compartment Pistol Locker, 11-1/2" High x 32-3/4" Wide x 17-1/4" Deep, 16 Gauge, Foam Filled, Painted With Powder Coat Finish	1,701.50	45.41
11 97 26 00-0006 EA 16 Compartment Pistol Locker, 11-1/2" High x 32-3/4" Wide x 17-1/4" Deep, 16 Gauge, Foam Filled, Painted With Powder Coat Finish	3,100.26	54.49
11 97 26 00-0007 EA 24 Compartment Pistol Locker, 11-1/2" High x 32-3/4" Wide x 17-1/4" Deep, 16 Gauge, Foam Filled, Painted With Powder Coat Finish	4,480.84	54.49

11 98 Detention Equipment ^(11 90)

11 98 12 Detention Doors and Frames ^(11 98)

11 98 12 00-0001

Metal Frames ^(11 98 12)

Note: Combination buck, jamb, and trim, fully seam welded.

11 98 12 00-0002

Metal Frames 4-3/4" Depth x 7 Gauge x 1-3/4" ^(11 98 12 00-0001)

11 98 12 00-0003 EA 2' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	440.86	138.46
11 98 12 00-0004 EA 2'-4" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	440.86	138.46
11 98 12 00-0005 EA 2'-6" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	440.86	138.46
11 98 12 00-0006 EA 2'-8" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	440.86	138.46
11 98 12 00-0007 EA 3' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	444.07	138.46
11 98 12 00-0008 EA 3'-4" x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	444.07	138.46
11 98 12 00-0009 EA 6' x 6'-8" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	642.41	221.61
11 98 12 00-0010 EA 2' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0011 EA 2'-4" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0012 EA 2'-6" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0013 EA 2'-8" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	460.13	138.46
11 98 12 00-0014 EA 3' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	552.48	184.65
11 98 12 00-0015 EA 3'-4" x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	552.48	184.65
11 98 12 00-0016 EA 6' x 7' x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	661.68	221.61
11 98 12 00-0017 EA 2' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0018 EA 2'-4" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0019 EA 2'-6" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0020 EA 2'-8" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0021 EA 3' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	453.71	138.46
11 98 12 00-0022 EA 3'-4" x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	453.71	138.46
11 98 12 00-0023 EA 6' x 7'-2" x 4-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	652.04	221.61

11 98 12 00-0024

Metal Frames 6-3/4" Depth x 7 Gauge x 1-3/4" ^(11 98 12 00-0001)

11 98 12 00-0025 EA 2' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0026 EA 2'-4" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0027 EA 2'-6" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0028 EA 2'-8" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0029 EA 3' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	456.91	138.46
11 98 12 00-0030 EA 3'-4" x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	456.91	138.46
11 98 12 00-0031 EA 6' x 6'-8" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	652.04	221.61
11 98 12 00-0032 EA 2' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0033 EA 2'-4" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	450.49	138.46
11 98 12 00-0034 EA 2'-6" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	460.12	138.46
11 98 12 00-0035 EA 2'-8" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	460.12	138.46
11 98 12 00-0036 EA 3' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	552.47	184.65
11 98 12 00-0037 EA 3'-4" x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	552.47	184.65
11 98 12 00-0038 EA 6' x 7' x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	779.91	246.08
11 98 12 00-0039 EA 2' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	460.12	138.46
11 98 12 00-0040 EA 2'-4" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	460.12	138.46
11 98 12 00-0041 EA 2'-6" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	460.12	138.46
11 98 12 00-0042 EA 2'-8" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	460.12	138.46
11 98 12 00-0043 EA 3' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	463.34	138.46
11 98 12 00-0044 EA 3'-4" x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	463.34	138.46
11 98 12 00-0045 EA 6' x 7'-2" x 6-3/4" Deep Metal Door Frame 7 Gauge Frame For 1-3/4" Detention Door	661.67	221.61

11 98 12 00-0046

Metal Detention Doors ^(11 98 12)

Note: Flush type reinforced with stiffeners.

11 98 12 00-0047

10 Gauge 1-3/4" Metal Detention Door ^(11 98 12 00-0046)

11 98 12 00-0048 EA 2' x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	600.50	49.20
11 98 12 00-0049 EA 2'-4" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	607.68	49.20
11 98 12 00-0050 EA 2'-6" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	614.85	49.20
11 98 12 00-0051 EA 2'-8" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	622.02	49.20
11 98 12 00-0052 EA 3' x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	629.19	49.20
11 98 12 00-0053 EA 3'-4" x 6'-8" x 1-3/4" 10 Gauge Metal Detention Door	665.05	49.20
11 98 12 00-0054 EA 2' x 7' x 1-3/4" 10 Gauge Metal Detention Door	645.11	49.20
11 98 12 00-0055 EA 2'-4" x 7' x 1-3/4" 10 Gauge Metal Detention Door	652.57	49.20
11 98 12 00-0056 EA 2'-6" x 7' x 1-3/4" 10 Gauge Metal Detention Door	657.26	49.20
11 98 12 00-0057 EA 2'-8" x 7' x 1-3/4" 10 Gauge Metal Detention Door	722.57	49.20
11 98 12 00-0058 EA 3' x 7' x 1-3/4" 10 Gauge Metal Detention Door	880.20	49.20
11 98 12 00-0059 EA 3'-4" x 7' x 1-3/4" 10 Gauge Metal Detention Door	961.29	49.20
11 98 12 00-0060 EA 2' x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door	625.61	49.20
11 98 12 00-0061 EA 2'-4" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door	632.77	49.20
11 98 12 00-0062 EA 2'-6" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door	639.95	49.20

11	11 Equipment
	11 90 Other Equipment
	11 98 Detention Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
11 98 12 00-0063 EA 2'-8" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door .....	.647.12	49.20
11 98 12 00-0064 EA 3' x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door .....	.654.29	49.20
11 98 12 00-0065 EA 3'-4" x 7'-2" x 1-3/4" 10 Gauge Metal Detention Door .....	.690.15	49.20
11 98 12 00-0066 Pneumatic Door Operators <small>(11 98 12)</small>		
11 98 12 00-0067 EA Pneumatic Detention Cell Entry Door Operator With Hardware Set.....	.4,478.71	
11 98 12 00-0068 EA Pneumatic Special Housing Detention Cell Door Operator With Hardware Set.....	.4,978.48	
11 98 12 00-0069 EA Pneumatic MS Detention Cell Door Operator With Hardware Set.....	.6,489.73	
11 98 12 00-0070 EA Pneumatic Sally Port Detention Door Operator With Hardware Set.....	.7,594.34	
11 98 12 00-0071 EA Pneumatic Corridor Detention Door Operator With Hardware Set.....	.9,660.33	
11 98 12 00-0072 EA Emergency Release Cabinet With Seven Gallon Storage Tank, Check Valve, Pressure Gauge, Three Way Valves And Four Release Valves .....	.4,694.15	
11 98 12 00-0073 Security Doors And Frame Assembly <small>(11 98 12)</small>		
11 98 12 00-0074 EA 2'-6" x 6'-8", 7 Gauge Flat Door With 7 Gauge Reinforcement Plate, Security Detention Doors And Frames .....	.9,944.82	376.97
Note: Complete, with hardware, single plate. <i>For 5" x 15-1/2" Opening Food Pass Assembly, Add</i>	.105.00	
11 98 12 00-0075 EA 2'-6" x 6'-8", 7 Gauge Flat Door With Double 7 Gauge Reinforcement Plate, Security Detention Doors And Frames.....	.12,102.54	374.53
Note: Complete, with hardware, double plate. <i>For 5" x 15-1/2" Opening Food Pass Assembly, Add</i>	.105.00	
11 98 21 Detention Windows <small>(11 98)</small>		
11 98 21 00-0001 Visitor Cubicle <small>(11 98 21)</small>		
Note: Excludes glazing.		
11 98 21 00-0002 EA Detention Visitor Cubicle, Vision Panel, No Intercom.....	.7,520.12	749.16

END OF SECTION 11



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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12 Furnishings

12 01 Operation And Maintenance Of Furnishings ⁽¹²⁾

12 01 60 Operation And Maintenance Of Multiple Seating ^(12 01)

12 01 60 00-0001 Repair Fixed Auditorium Seating ^(12 01 60)

12 01 60 00-0002	EA	Removal And Replacement Of Hardwood/Plywood Auditorium Seat Part.....	121.25	
12 01 60 00-0003	EA	Removal And Replacement Of Auditorium Seat Armrest Part	58.29	
12 01 60 00-0004	EA	Removal And Replacement Of End Armrest Part	79.17	
12 01 60 00-0005	EA	Removal And Replacement Of Auditorium Seat Kick Plate Part.....	87.09	
12 01 60 00-0006	EA	Removal And Replacement Of Auditorium Seat Long Back Part.....	144.93	
12 01 60 00-0007	EA	Removal And Replacement Of Auditorium Seat Center Standard Part	113.10	
12 01 60 00-0008	EA	Removal And Replacement Of Auditorium Seat Back Bracket Part.....	50.36	
12 01 60 00-0009	EA	Removal And Replacement Of Auditorium Seat Bracket Part.....	52.08	
12 01 60 00-0010	EA	Secure Seat To Floor	48.30	
12 01 60 00-0011	EA	Removal And Reinstallation Of Existing Auditorium Seat In Concrete Floor.....	58.54	
		Note: Includes drilling and fasteners.		
		For Epoxy Anchoring, Add	16.68	
12 01 60 00-0012	EA	Reupholster Auditorium Seat And Back.....	151.78	
		Note: Includes removal of existing upholstery.		

12 20 Window Treatments ⁽¹²⁾

12 21 Window Blinds ^(12 20)

12 21 13 Horizontal Louver Blinds ^(12 21)

Note: Includes headrail, brackets, cords and all hardware.

12 21 13 13 Metal Horizontal Louver Blinds ^(12 21 13)

12 21 13 13-0001 Aluminum Horizontal Louver Blinds ^(12 21 13 13)

12 21 13 13-0002	SF	1/2" x 0.006" Slats, Aluminum Horizontal Louver Blinds	9.80	0.79
12 21 13 13-0003	SF	1" x 0.006" Slats, Aluminum Horizontal Louver Blinds	8.02	0.79
12 21 13 13-0004	SF	1" x 0.008" Slats, Aluminum Horizontal Louver Blinds	8.71	0.79
12 21 13 13-0005	SF	2" x 0.008" Slats, Aluminum Horizontal Louver Blinds	10.08	0.79

12 21 13 33 Plastic Horizontal Louver Blinds ^(12 21 13)

12 21 13 33-0001 Vinyl Horizontal Louver Blinds ^(12 21 13 33)

12 21 13 33-0002	SF	1" Slats, Vinyl Horizontal Louver Blinds	8.30	0.79
12 21 13 33-0003	SF	2" Slats, Vinyl Horizontal Louver Blinds	9.60	0.79

12 21 16 Vertical Louver Blinds ^(12 21)

Note: includes headrail, brackets, cords and all hardware.

12 21 16 13 Metal Vertical Louver Blinds ^(12 21 16)

12 21 16 13-0001 Aluminum Vertical Louver Blinds ^(12 21 16 13)

12 21 16 13-0002	SF	3-1/2" x 0.008" Slats, Aluminum Vertical Louver Blinds	11.41	1.68
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12 21 16 33 Plastic Vertical Louver Blinds ^(12 21 16)

12 21 16 33-0001 Vinyl Vertical Louver Blinds ^(12 21 16 33)

12 21 16 33-0002	SF	2" Slats, Vinyl Vertical Louver Blinds	7.36	1.68
12 21 16 33-0003	SF	3-1/2" Slats, Vinyl Vertical Louver Blinds	10.31	1.68

12 22 Curtains And Drapes ^(12 20)

12 22 13 Draperies ^(12 22)

12 22 13 00-0001 Lined Draperies ^(12 22 13)

Note: Width dimensions are the panel width at top excluding returns and overlaps.

12 22 13 00-0002 Up To 48" Wide Lined Draperies ^(12 22 13 00-0001)

12 22 13 00-0003	EA	Up To 39" Long, Up To 48" Wide Lined Draperies.....	229.13	11.08
12 22 13 00-0004	EA	>39" To 63" Long, Up To 48" Wide Lined Draperies.....	238.43	11.08
12 22 13 00-0005	EA	>63" To 72" Long, Up To 48" Wide Lined Draperies.....	253.55	11.08
12 22 13 00-0006	EA	>72" To 81" Long, Up To 48" Wide Lined Draperies.....	259.36	11.08
12 22 13 00-0007	EA	>81" To 90" Long, Up To 48" Wide Lined Draperies.....	273.32	11.08
12 22 13 00-0008	EA	>90" To 99" Long, Up To 48" Wide Lined Draperies.....	291.92	11.08
12 22 13 00-0009	EA	>99" To 108" Long, Up To 48" Wide Lined Draperies.....	303.55	11.08
12 22 13 00-0010	EA	>108" To 120" Long, Up To 48" Wide Lined Draperies.....	319.83	11.08
12 22 13 00-0011	EA	>120" To 130" Long, Up To 48" Wide Lined Draperies.....	345.41	11.08



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 22 13 00-0012			>48" To 72" Wide Lined Draperies (12 22 13 00-0001)		
12 22 13 00-0013	EA		Up To 39" Long, >48" To 72" Wide Lined Draperies	332.46	15.07
12 22 13 00-0014	EA		>39" To 63" Long, >48" To 72" Wide Lined Draperies	353.39	15.07
12 22 13 00-0015	EA		>63" To 72" Long, >48" To 72" Wide Lined Draperies	369.66	15.07
12 22 13 00-0016	EA		>72" To 81" Long, >48" To 72" Wide Lined Draperies	383.62	15.07
12 22 13 00-0017	EA		>81" To 90" Long, >48" To 72" Wide Lined Draperies	416.18	15.07
12 22 13 00-0018	EA		>90" To 99" Long, >48" To 72" Wide Lined Draperies	432.46	15.07
12 22 13 00-0019	EA		>99" To 108" Long, >48" To 72" Wide Lined Draperies	446.41	15.07
12 22 13 00-0020	EA		>108" To 120" Long, >48" To 72" Wide Lined Draperies	476.64	15.07
12 22 13 00-0021	EA		>120" To 130" Long, >48" To 72" Wide Lined Draperies	509.20	15.07
12 22 13 00-0022			>72" To 96" Wide Lined Draperies (12 22 13 00-0001)		
12 22 13 00-0023	EA		Up To 39" Long, >72" To 96" Wide Lined Draperies	440.44	19.05
12 22 13 00-0024	EA		>39" To 63" Long, >72" To 96" Wide Lined Draperies	470.67	19.05
12 22 13 00-0025	EA		>63" To 72" Long, >72" To 96" Wide Lined Draperies	484.62	19.05
12 22 13 00-0026	EA		>72" To 81" Long, >72" To 96" Wide Lined Draperies	517.18	19.05
12 22 13 00-0027	EA		>81" To 90" Long, >72" To 96" Wide Lined Draperies	547.41	19.05
12 22 13 00-0028	EA		>90" To 99" Long, >72" To 96" Wide Lined Draperies	577.64	19.05
12 22 13 00-0029	EA		>99" To 108" Long, >72" To 96" Wide Lined Draperies	593.92	19.05
12 22 13 00-0030	EA		>108" To 120" Long, >72" To 96" Wide Lined Draperies	626.48	19.05
12 22 13 00-0031	EA		>120" To 130" Long, >72" To 96" Wide Lined Draperies	670.66	19.05
12 22 13 00-0032			>96" To 120" Wide Lined Draperies (12 22 13 00-0001)		
12 22 13 00-0033	EA		Up To 39" Long, >96" To 120" Wide Lined Draperies	555.39	23.05
12 22 13 00-0034	EA		>39" To 63" Long, >96" To 120" Wide Lined Draperies	585.62	23.05
12 22 13 00-0035	EA		>63" To 72" Long, >96" To 120" Wide Lined Draperies	601.90	23.05
12 22 13 00-0036	EA		>72" To 81" Long, >96" To 120" Wide Lined Draperies	648.41	23.05
12 22 13 00-0037	EA		>81" To 90" Long, >96" To 120" Wide Lined Draperies	678.64	23.05
12 22 13 00-0038	EA		>90" To 99" Long, >96" To 120" Wide Lined Draperies	711.20	23.05
12 22 13 00-0039	EA		>99" To 108" Long, >96" To 120" Wide Lined Draperies	881.00	23.05
12 22 13 00-0040	EA		>108" To 120" Long, >96" To 120" Wide Lined Draperies	790.27	23.05
12 22 13 00-0041	EA		>120" To 130" Long, >96" To 120" Wide Lined Draperies	813.52	23.05
12 22 13 00-0042			>120" To 144" Wide Lined Draperies (12 22 13 00-0001)		
12 22 13 00-0043	EA		Up To 39" Long, >120" To 144" Wide Lined Draperies	656.38	27.03
12 22 13 00-0044	EA		>39" To 63" Long, >120" To 144" Wide Lined Draperies	700.56	27.03
12 22 13 00-0045	EA		>63" To 72" Long, >120" To 144" Wide Lined Draperies	716.84	27.03
12 22 13 00-0046	EA		>72" To 81" Long, >120" To 144" Wide Lined Draperies	763.35	27.03
12 22 13 00-0047	EA		>81" To 90" Long, >120" To 144" Wide Lined Draperies	809.86	27.03
12 22 13 00-0048	EA		>90" To 99" Long, >120" To 144" Wide Lined Draperies	856.37	27.03
12 22 13 00-0049	EA		>99" To 108" Long, >120" To 144" Wide Lined Draperies	902.88	27.03
12 22 13 00-0050	EA		>108" To 120" Long, >120" To 144" Wide Lined Draperies	949.39	27.03
12 22 13 00-0051	EA		>120" To 130" Long, >120" To 144" Wide Lined Draperies	1,007.53	27.03
12 22 13 00-0052			>144" To 168" Wide Lined Draperies (12 22 13 00-0001)		
12 22 13 00-0053	EA		Up To 39" Long, >144" To 168" Wide Lined Draperies	771.33	31.03
12 22 13 00-0054	EA		>39" To 63" Long, >144" To 168" Wide Lined Draperies	817.84	31.03
12 22 13 00-0055	EA		>63" To 72" Long, >144" To 168" Wide Lined Draperies	852.73	31.03
12 22 13 00-0056	EA		>72" To 81" Long, >144" To 168" Wide Lined Draperies	899.24	31.03
12 22 13 00-0057	EA		>81" To 90" Long, >144" To 168" Wide Lined Draperies	945.75	31.03
12 22 13 00-0058	EA		>90" To 99" Long, >144" To 168" Wide Lined Draperies	1,003.89	31.03
12 22 13 00-0059	EA		>99" To 108" Long, >144" To 168" Wide Lined Draperies	1,050.39	31.03
12 22 13 00-0060	EA		>108" To 120" Long, >144" To 168" Wide Lined Draperies	1,096.91	31.03
12 22 13 00-0061	EA		>120" To 130" Long, >144" To 168" Wide Lined Draperies	1,178.30	31.03
12 22 13 00-0062			>168" To 192" Wide Lined Draperies (12 22 13 00-0001)		
12 22 13 00-0063	EA		Up To 39" Long, >168" To 192" Wide Lined Draperies	872.33	35.01
12 22 13 00-0064	EA		>39" To 63" Long, >168" To 192" Wide Lined Draperies	930.47	35.01
12 22 13 00-0065	EA		>63" To 72" Long, >168" To 192" Wide Lined Draperies	965.35	35.01
12 22 13 00-0066	EA		>72" To 81" Long, >168" To 192" Wide Lined Draperies	1,023.49	35.01
12 22 13 00-0067	EA		>81" To 90" Long, >168" To 192" Wide Lined Draperies	1,070.00	35.01
12 22 13 00-0068	EA		>90" To 99" Long, >168" To 192" Wide Lined Draperies	1,128.14	35.01
12 22 13 00-0069	EA		>99" To 108" Long, >168" To 192" Wide Lined Draperies	1,221.16	35.01
12 22 13 00-0070	EA		>108" To 120" Long, >168" To 192" Wide Lined Draperies	1,256.04	35.01
12 22 13 00-0071	EA		>120" To 130" Long, >168" To 192" Wide Lined Draperies	1,337.44	35.01
12 22 13 00-0072			>192" To 216" Wide Lined Draperies (12 22 13 00-0001)		
12 22 13 00-0073	EA		Up To 39" Long, >192" To 216" Wide Lined Draperies	984.96	39.00
12 22 13 00-0074	EA		>39" To 63" Long, >192" To 216" Wide Lined Draperies	1,031.47	39.00
12 22 13 00-0075	EA		>63" To 72" Long, >192" To 216" Wide Lined Draperies	1,077.98	39.00
12 22 13 00-0076	EA		>72" To 81" Long, >192" To 216" Wide Lined Draperies	1,147.75	39.00
12 22 13 00-0077	EA		>81" To 90" Long, >192" To 216" Wide Lined Draperies	1,217.51	39.00
12 22 13 00-0078	EA		>90" To 99" Long, >192" To 216" Wide Lined Draperies	1,287.28	39.00



		Furnishings	12
		Window Treatments	12 20
		Curtains And Drapes	12 22

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 22 13 00-0079	EA		>99" To 108" Long, >192" To 216" Wide Lined Draperies	1,345.42	39.00
12 22 13 00-0080	EA		>108" To 120" Long, >192" To 216" Wide Lined Draperies	1,403.56	39.00
12 22 13 00-0081	EA		>120" To 130" Long, >192" To 216" Wide Lined Draperies	1,508.20	39.00
12 22 13 00-0082			>216" To 240" Wide Lined Draperies (12 22 13 00-0001)		
12 22 13 00-0083	EA	Up	To 39" Long, >216" To 240" Wide Lined Draperies	1,085.96	42.99
12 22 13 00-0084	EA	>39"	To 63" Long, >216" To 240" Wide Lined Draperies	1,167.36	42.99
12 22 13 00-0085	EA	>63"	To 72" Long, >216" To 240" Wide Lined Draperies	1,202.24	42.99
12 22 13 00-0086	EA	>72"	To 81" Long, >216" To 240" Wide Lined Draperies	1,272.00	42.99
12 22 13 00-0087	EA	>81"	To 90" Long, >216" To 240" Wide Lined Draperies	1,353.40	42.99
12 22 13 00-0088	EA	>90"	To 99" Long, >216" To 240" Wide Lined Draperies	1,423.16	42.99
12 22 13 00-0089	EA	>99"	To 108" Long, >216" To 240" Wide Lined Draperies	1,492.93	42.99
12 22 13 00-0090	EA	>108"	To 120" Long, >216" To 240" Wide Lined Draperies	1,562.70	42.99
12 22 13 00-0091	EA	>120"	To 130" Long, >216" To 240" Wide Lined Draperies	1,678.97	42.99
12 22 16			Drapery Track And Accessories (12 22)		
12 22 16 00-0001			Metal Wall Or Ceiling Mount Drapery Tracks (12 22 16)		
12 22 16 00-0002			Basic Traverse Rod (12 22 16 00-0001)		
12 22 16 00-0003	EA	Traverse Rod, 30"	To 50" Extension Metal Wall Or Ceiling Mounted Track	106.68	37.59
12 22 16 00-0004	EA	Traverse Rod, 50"	To 90" Extension Metal Wall Or Ceiling Mounted Track	123.30	37.59
12 22 16 00-0005	EA	Traverse Rod, 84"	To 156" Extension Metal Wall Or Ceiling Mounted Track	145.84	41.77
12 22 16 00-0006	EA	Traverse Rod, 136"	To 250" Extension Metal Wall Or Ceiling Mounted Track	197.72	41.77
12 22 16 00-0007	EA	Traverse Rod, 165"	To 312" Extension Metal Wall Or Ceiling Mounted Track	206.12	45.94
12 22 16 00-0008			Traverse Rod With Stationary Curtain Rod (12 22 16 00-0001)		
12 22 16 00-0009	EA	Tray And Curtain Rod, 30"	To 50" Extension Metal Wall Or Ceiling Mounted Track	122.61	37.59
12 22 16 00-0010	EA	Tray And Curtain Rod, 50"	To 90" Extension Metal Wall Or Ceiling Mounted Track	133.33	37.59
12 22 16 00-0011	EA	Tray And Curtain Rod, 84"	To 156" Extension Metal Wall Or Ceiling Mounted Track	171.10	41.77
12 22 16 00-0012	EA	Tray And Curtain Rod, 136"	To 250" Extension Metal Wall Or Ceiling Mounted Track	196.08	45.94
12 22 16 00-0013			Double Traverse Rod (12 22 16 00-0001)		
12 22 16 00-0014	EA	Double Traverse Rod, 30"	To 50" Extension Metal Wall Or Ceiling Mounted Track	149.95	37.59
12 22 16 00-0015	EA	Double Traverse Rod, 50"	To 90" Extension Metal Wall Or Ceiling Mounted Track	182.48	37.59
12 22 16 00-0016	EA	Double Traverse Rod, 84"	To 156" Extension Metal Wall Or Ceiling Mounted Track	228.04	41.77
12 22 16 00-0017	EA	Double Traverse Rod, 136"	To 250" Extension Metal Wall Or Ceiling Mounted Track	246.96	45.94
12 22 16 00-0018			Curtain Rods (12 22 16 00-0001)		
12 22 16 00-0019	LF	Standard Metal Curtain Rod, White	8.17	1.60	
12 22 16 00-0020			Relocate Drapery And Rod (12 22 16 00-0001)		
12 22 16 00-0021	LF	Relocate Any Type Of Drapery And Any Type Rod	25.00		
			Note: Includes storage and cleaning.		
12 22 16 00-0022			Motorized Drapery Track (12 22 16)		
12 22 16 00-0023	EA	2' To 4' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,053.97	89.13	
12 22 16 00-0024	EA	>4' To 5' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,099.52	98.05	
12 22 16 00-0025	EA	>5' To 6' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,145.06	106.96	
12 22 16 00-0026	EA	>6' To 7' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,190.60	115.88	
12 22 16 00-0027	EA	>7' To 8' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,236.15	124.79	
12 22 16 00-0028	EA	>8' To 9' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,281.70	133.71	
12 22 16 00-0029	EA	>9' To 10' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,327.25	142.61	
12 22 16 00-0030	EA	>10' To 11' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,372.80	151.52	
12 22 16 00-0031	EA	>11' To 12' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,418.34	160.44	
12 22 16 00-0032	EA	>12' To 13' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,463.89	169.35	
12 22 16 00-0033	EA	>13' To 14' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,509.43	178.27	
12 22 16 00-0034	EA	>14' To 15' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,554.98	187.18	
12 22 16 00-0035	EA	>15' To 16' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,600.53	196.10	
12 22 16 00-0036	EA	>16' To 17' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,646.07	205.01	
12 22 16 00-0037	EA	>17' To 18' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,691.62	213.92	
12 22 16 00-0038	EA	>18' To 19' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,737.17	222.84	
12 22 16 00-0039	EA	>19' To 20' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,782.72	231.74	
12 22 16 00-0040	EA	>20' To 21' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,828.27	240.66	
12 22 16 00-0041	EA	>21' To 22' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,873.80	249.57	
12 22 16 00-0042	EA	>22' To 23' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,919.35	258.49	
12 22 16 00-0043	EA	>23' To 24' Wide, Motorized Curtain Track (Somfy Glydea 60E)	1,964.90	267.40	

12 23 Interior Shutters (12 20)

12 23 00 00-0001 Interior Plantation Shutters (12 23)

Note: Mixture of white pine and poplar wood, stile: 1-3/4" x 1-1/8" thick, blade: 3/8" x 2-3/8", top and bottom rail: 4"

12 Furnishings

12 20 Window Treatments

12 23 Interior Shutters



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

x 1-5/16" thick. 36" To 48" heights do not have center rail, 52" to 80" with center rail. Center rail: 2" x 15/16"

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 23 00 00-0002			12" Wide (12 23 00 00-0001)		
12 23 00 00-0003	PR		12" x 36" Plantation Shutter	117.54	26.74
12 23 00 00-0004	PR		12" x 40" Plantation Shutter	129.54	28.08
12 23 00 00-0005	PR		12" x 44" Plantation Shutter	140.54	29.41
12 23 00 00-0006	PR		12" x 48" Plantation Shutter	151.53	30.75
12 23 00 00-0007	PR		12" x 52" Plantation Shutter	162.54	32.09
12 23 00 00-0008	PR		12" x 56" Plantation Shutter	173.53	33.43
12 23 00 00-0009	PR		12" x 60" Plantation Shutter	175.31	34.76
12 23 00 00-0010	PR		12" x 64" Plantation Shutter	195.51	36.10
12 23 00 00-0011	PR		12" x 68" Plantation Shutter	206.51	37.43
12 23 00 00-0012	PR		12" x 72" Plantation Shutter	217.50	38.77
12 23 00 00-0013	PR		12" x 76" Plantation Shutter	228.49	40.11
12 23 00 00-0014	PR		12" x 80" Plantation Shutter	239.48	41.45
12 23 00 00-0015			14" Wide (12 23 00 00-0001)		
12 23 00 00-0016	PR		14" x 36" Plantation Shutter	121.63	26.74
12 23 00 00-0017	PR		14" x 40" Plantation Shutter	133.64	28.08
12 23 00 00-0018	PR		14" x 44" Plantation Shutter	144.64	29.41
12 23 00 00-0019	PR		14" x 48" Plantation Shutter	155.63	30.75
12 23 00 00-0020	PR		14" x 52" Plantation Shutter	167.64	32.09
12 23 00 00-0021	PR		14" x 56" Plantation Shutter	178.64	33.43
12 23 00 00-0022	PR		14" x 60" Plantation Shutter	189.64	34.76
12 23 00 00-0023	PR		14" x 64" Plantation Shutter	201.65	36.10
12 23 00 00-0024	PR		14" x 68" Plantation Shutter	212.65	37.43
12 23 00 00-0025	PR		14" x 72" Plantation Shutter	223.64	38.77
12 23 00 00-0026	PR		14" x 76" Plantation Shutter	235.66	40.11
12 23 00 00-0027	PR		14" x 80" Plantation Shutter	246.65	41.45
12 23 00 00-0028			15" Wide (12 23 00 00-0001)		
12 23 00 00-0029	PR		15" x 36" Plantation Shutter	125.73	26.74
12 23 00 00-0030	PR		15" x 40" Plantation Shutter	137.73	28.08
12 23 00 00-0031	PR		15" x 44" Plantation Shutter	148.73	29.41
12 23 00 00-0032	PR		15" x 48" Plantation Shutter	159.72	30.75
12 23 00 00-0033	PR		15" x 52" Plantation Shutter	171.74	32.09
12 23 00 00-0034	PR		15" x 56" Plantation Shutter	183.76	33.43
12 23 00 00-0035	PR		15" x 60" Plantation Shutter	195.78	34.76
12 23 00 00-0036	PR		15" x 64" Plantation Shutter	207.79	36.10
12 23 00 00-0037	PR		15" x 68" Plantation Shutter	219.82	37.43
12 23 00 00-0038	PR		15" x 72" Plantation Shutter	230.81	38.77
12 23 00 00-0039	PR		15" x 76" Plantation Shutter	242.82	40.11
12 23 00 00-0040	PR		15" x 80" Plantation Shutter	254.84	41.45
12 23 00 00-0041			16" Wide (12 23 00 00-0001)		
12 23 00 00-0042	PR		16" x 36" Plantation Shutter	131.87	26.74
12 23 00 00-0043	PR		16" x 40" Plantation Shutter	144.89	28.08
12 23 00 00-0044	PR		16" x 44" Plantation Shutter	156.92	29.41
12 23 00 00-0045	PR		16" x 48" Plantation Shutter	169.96	30.75
12 23 00 00-0046	PR		16" x 52" Plantation Shutter	181.97	32.09
12 23 00 00-0047	PR		16" x 56" Plantation Shutter	194.00	33.43
12 23 00 00-0048	PR		16" x 60" Plantation Shutter	206.01	34.76
12 23 00 00-0049	PR		16" x 64" Plantation Shutter	220.07	36.10
12 23 00 00-0050	PR		16" x 68" Plantation Shutter	232.10	37.43
12 23 00 00-0051	PR		16" x 72" Plantation Shutter	244.11	38.77
12 23 00 00-0052	PR		16" x 76" Plantation Shutter	257.15	40.11
12 23 00 00-0053	PR		16" x 80" Plantation Shutter	269.17	41.45
12 23 00 00-0054			18" Wide (12 23 00 00-0001)		
12 23 00 00-0055	PR		18" x 36" Plantation Shutter	141.08	26.74
12 23 00 00-0056	PR		18" x 40" Plantation Shutter	154.11	28.08
12 23 00 00-0057	PR		18" x 44" Plantation Shutter	167.15	29.41
12 23 00 00-0058	PR		18" x 48" Plantation Shutter	181.22	30.75
12 23 00 00-0059	PR		18" x 52" Plantation Shutter	194.25	32.09
12 23 00 00-0060	PR		18" x 56" Plantation Shutter	208.33	33.43
12 23 00 00-0061	PR		18" x 60" Plantation Shutter	221.36	34.76
12 23 00 00-0062	PR		18" x 64" Plantation Shutter	234.40	36.10
12 23 00 00-0063	PR		18" x 68" Plantation Shutter	247.45	37.43
12 23 00 00-0064	PR		18" x 72" Plantation Shutter	261.51	38.77
12 23 00 00-0065	PR		18" x 76" Plantation Shutter	274.55	40.11
12 23 00 00-0066	PR		18" x 80" Plantation Shutter	288.61	41.45
12 23 00 00-0067			20" Wide (12 23 00 00-0001)		
12 23 00 00-0068	PR		20" x 36" Plantation Shutter	151.31	26.74
12 23 00 00-0069	PR		20" x 40" Plantation Shutter	166.39	28.08



Furnishings	12
Window Treatments	12 20
Interior Shutters	12 23

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 23 00 00-0070 PR 20" x 44" Plantation Shutter	180.46	29.41
12 23 00 00-0071 PR 20" x 48" Plantation Shutter	194.52	30.75
12 23 00 00-0072 PR 20" x 52" Plantation Shutter	209.61	32.09
12 23 00 00-0073 PR 20" x 56" Plantation Shutter	223.68	33.43
12 23 00 00-0074 PR 20" x 60" Plantation Shutter	238.76	34.76
12 23 00 00-0075 PR 20" x 64" Plantation Shutter	252.82	36.10
12 23 00 00-0076 PR 20" x 68" Plantation Shutter	267.92	37.43
12 23 00 00-0077 PR 20" x 72" Plantation Shutter	281.98	38.77
12 23 00 00-0078 PR 20" x 76" Plantation Shutter	297.07	40.11
12 23 00 00-0079 PR 20" x 80" Plantation Shutter	311.13	41.45
12 23 00 00-0080 22" Wide (12 23 00 00-0001)		
12 23 00 00-0081 PR 22" x 36" Plantation Shutter	159.50	26.74
12 23 00 00-0082 PR 22" x 40" Plantation Shutter	175.60	28.08
12 23 00 00-0083 PR 22" x 44" Plantation Shutter	190.69	29.41
12 23 00 00-0084 PR 22" x 48" Plantation Shutter	1,740.98	30.75
12 23 00 00-0085 PR 22" x 52" Plantation Shutter	221.89	32.09
12 23 00 00-0086 PR 22" x 56" Plantation Shutter	236.98	33.43
12 23 00 00-0087 PR 22" x 60" Plantation Shutter	252.07	34.76
12 23 00 00-0088 PR 22" x 64" Plantation Shutter	268.18	36.10
12 23 00 00-0089 PR 22" x 68" Plantation Shutter	283.27	37.43
12 23 00 00-0090 PR 22" x 72" Plantation Shutter	299.38	38.77
12 23 00 00-0091 PR 22" x 76" Plantation Shutter	314.46	40.11
12 23 00 00-0092 PR 22" x 80" Plantation Shutter	330.57	41.45
12 23 00 00-0093 24" Wide (12 23 00 00-0001)		
12 23 00 00-0094 PR 24" x 36" Plantation Shutter	167.69	26.74
12 23 00 00-0095 PR 24" x 40" Plantation Shutter	184.81	28.08
12 23 00 00-0096 PR 24" x 44" Plantation Shutter	200.93	29.41
12 23 00 00-0097 PR 24" x 48" Plantation Shutter	218.06	30.75
12 23 00 00-0098 PR 24" x 52" Plantation Shutter	234.17	32.09
12 23 00 00-0099 PR 24" x 56" Plantation Shutter	250.29	33.43
12 23 00 00-0100 PR 24" x 60" Plantation Shutter	266.40	34.76
12 23 00 00-0101 PR 24" x 64" Plantation Shutter	283.53	36.10
12 23 00 00-0102 PR 24" x 68" Plantation Shutter	299.65	37.43
12 23 00 00-0103 PR 24" x 72" Plantation Shutter	316.78	38.77
12 23 00 00-0104 PR 24" x 76" Plantation Shutter	332.89	40.11
12 23 00 00-0105 PR 24" x 80" Plantation Shutter	350.02	41.45
12 24 Window Shades (12 20)		
12 24 13 Roller Window Shades (12 24)		
12 24 13 00-0001 Roller Window Shades (12 24 13)		
12 24 13 00-0002 Vinyl Coated Fiberglass, Roller Window Shades (12 24 13 00-0001)		
Note: Includes roller, brackets, and stainless steel chain operator.		
12 24 13 00-0003 SF 0% Openness, Blackout, Vinyl Coated Fiberglass, Roller Window Shades	12.43	0.53
12 24 13 00-0004 SF 1% To 10% Openness, Vinyl Coated Fiberglass, Roller Window Shades	12.43	0.53
12 24 13 00-0005 Polyvinyl Chloride (PVC) Free, Acrylic Backed Polyester, Roller Window Shades (12 24 13 00-0001)		
Note: Includes roller, brackets, and stainless steel chain operator.		
12 24 13 00-0006 SF 0% Openness, Blackout, Polyvinyl Chloride (PVC) Free, Acrylic Backed Polyester, Roller Window Shades	15.92	0.53
12 24 13 00-0007 Vinyl Coated Polyester, Roller Window Shades (12 24 13 00-0001)		
Note: Includes roller, brackets, and stainless steel chain operator.		
12 24 13 00-0008 SF 1% To 10% Openness, Vinyl Coated Polyester, Roller Window Shades	12.43	0.53
12 24 13 00-0009 Motorized Lightproof Shades (12 24 13)		
12 24 13 00-0010 SF Motorized Lightproof Shades, Up To 144" Width	39.92	2.09
12 24 13 00-0011 MechoShade (12 24 13)		
Note: Includes all hardware required for installation and stainless steel chain operator.		
12 24 13 00-0012 ThermoVeil 0700 Series (Blackout) Shade (12 24 13 00-0011)		
12 24 13 00-0013 EA 3' High x 3' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade	133.94	10.70
For Installation In Concrete Or Steel, Add	10.63	
For Window Top >10' Above Finished Floor, Add	5.32	
12 24 13 00-0014 EA 3' High x 4' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade	162.85	14.26
For Installation In Concrete Or Steel, Add	14.18	
For Window Top >10' Above Finished Floor, Add	7.09	
12 24 13 00-0015 EA 3' High x 5' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade	178.45	17.82
For Installation In Concrete Or Steel, Add	17.72	
For Window Top >10' Above Finished Floor, Add	8.86	

12 Furnishings

12 20 Window Treatments

12 24 Window Shades



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 24 13 00-0016 EA 3' High x 6' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	191.62 21.26 10.63	21.38
12 24 13 00-0017 EA 4' High x 3' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	139.99 10.63 5.32	10.70
12 24 13 00-0018 EA 4' High x 4' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	172.54 14.18 7.09	14.26
12 24 13 00-0019 EA 4' High x 5' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	185.71 17.72 8.86	17.82
12 24 13 00-0020 EA 4' High x 6' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	201.30 21.26 10.63	21.38
12 24 13 00-0021 EA 5' High x 3' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	147.25 10.63 5.32	10.70
12 24 13 00-0022 EA 5' High x 4' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	183.43 14.18 7.09	14.26
12 24 13 00-0023 EA 5' High x 5' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	196.60 17.72 8.86	17.82
12 24 13 00-0024 EA 5' High x 6' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	212.19 21.26 10.63	21.38
12 24 13 00-0025 EA 6' High x 3' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	153.30 10.63 5.32	10.70
12 24 13 00-0026 EA 6' High x 4' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	194.32 14.18 7.09	14.26
12 24 13 00-0027 EA 6' High x 5' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	207.49 17.72 8.86	17.82
12 24 13 00-0028 EA 6' High x 6' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	221.87 21.26 10.63	21.38
12 24 13 00-0029 EA 7' High x 3' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	159.35 10.63 5.32	10.70
12 24 13 00-0030 EA 7' High x 4' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	205.21 14.18 7.09	14.26
12 24 13 00-0031 EA 7' High x 5' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	218.39 17.72 8.86	17.82
12 24 13 00-0032 EA 7' High x 6' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	233.98 21.26 10.63	21.38
12 24 13 00-0033 EA 8' High x 3' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	166.62 10.63 5.32	10.70
12 24 13 00-0034 EA 8' High x 4' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	217.32 14.18 7.09	14.26
12 24 13 00-0035 EA 8' High x 5' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	230.49 17.72 8.86	17.82
12 24 13 00-0036 EA 8' High x 6' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	244.87 21.26 10.63	21.38
12 24 13 00-0037 EA 9' High x 3' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	172.67 10.63 5.32	10.70
12 24 13 00-0038 EA 9' High x 4' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	228.21 14.18 7.09	14.26
12 24 13 00-0039 EA 9' High x 5' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	241.38 17.72 8.86	17.82
12 24 13 00-0040 EA 9' High x 6' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	255.76 21.26 10.63	21.38
12 24 13 00-0041 EA 10' High x 3' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	178.72 10.63 5.32	10.70
12 24 13 00-0042 EA 10' High x 4' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	239.10 14.18 7.09	14.26
12 24 13 00-0043 EA 10' High x 5' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	252.27 17.72 8.86	17.82



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
12 24	13 00-0044	EA	10' High x 6' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	284.81 21.26 10.63	21.38	
12 24	13 00-0045	EA	11' High x 3' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	190.82 10.63 5.32	10.70	
12 24	13 00-0046	EA	11' High x 4' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	259.68 14.18 7.09	14.26	
12 24	13 00-0047	EA	11' High x 5' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	272.85 17.72 8.86	17.82	
12 24	13 00-0048	EA	11' High x 6' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	299.33 21.26 10.63	21.38	
12 24	13 00-0049	EA	12' High x 3' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	231.97 10.63 5.32	10.70	
12 24	13 00-0050	EA	12' High x 4' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	271.78 14.18 7.09	14.26	
12 24	13 00-0051	EA	12' High x 5' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	284.95 17.72 8.86	17.82	
12 24	13 00-0052	EA	12' High x 6' Wide, 0% Openness Factor, ThermoVeil 0700 Series (Blackout) Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	315.07 21.26 10.63	21.38	
12 24	13 00-0053	ThermoVeil 0900 And 3000 Series Shade <small>(12 24 13 00-0011)</small>				
12 24	13 00-0054	EA	3' High x 3' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	152.09 10.63 5.32	10.70	
12 24	13 00-0055	EA	3' High x 4' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	187.06 14.18 7.09	14.26	
12 24	13 00-0056	EA	3' High x 5' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	206.28 17.72 8.86	17.82	
12 24	13 00-0057	EA	3' High x 6' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	223.08 21.26 10.63	21.38	
12 24	13 00-0058	EA	3' High x 7' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	276.22 24.81 12.40	24.94	
12 24	13 00-0059	EA	3' High x 8' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	288.18 28.35 14.17	28.51	
12 24	13 00-0060	EA	4' High x 3' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	162.99 10.63 5.32	10.70	
12 24	13 00-0061	EA	4' High x 4' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	204.00 14.18 7.09	14.26	
12 24	13 00-0062	EA	4' High x 5' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	225.65 17.72 8.86	17.82	
12 24	13 00-0063	EA	4' High x 6' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	243.66 21.26 10.63	21.38	
12 24	13 00-0064	EA	4' High x 7' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	301.63 24.81 12.40	24.94	
12 24	13 00-0065	EA	4' High x 8' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	314.80 28.35 14.17	28.51	
12 24	13 00-0066	EA	5' High x 3' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	172.67 10.63 5.32	10.70	
12 24	13 00-0067	EA	5' High x 4' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	222.16 14.18 7.09	14.26	
12 24	13 00-0068	EA	5' High x 5' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	246.22 17.72 8.86	17.82	
12 24	13 00-0069	EA	5' High x 6' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	264.23 21.26 10.63	21.38	
12 24	13 00-0070	EA	5' High x 7' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	329.47 24.81 12.40	24.94	
12 24	13 00-0071	EA	5' High x 8' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	342.64 28.35 14.17	28.51	

12	Furnishings
12 20	Window Treatments
12 24	Window Shades



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 24 13 00-0072	EA	6' High x 3' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	184.77	10.70
		<i>For Installation In Concrete Or Steel, Add</i>	10.63	
		<i>For Window Top >10' Above Finished Floor, Add</i>	5.32	
12 24 13 00-0073	EA	6' High x 4' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	240.31	14.26
		<i>For Installation In Concrete Or Steel, Add</i>	14.18	
		<i>For Window Top >10' Above Finished Floor, Add</i>	7.09	
12 24 13 00-0074	EA	6' High x 5' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	265.59	17.82
		<i>For Installation In Concrete Or Steel, Add</i>	17.72	
		<i>For Window Top >10' Above Finished Floor, Add</i>	8.86	
12 24 13 00-0075	EA	6' High x 6' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	286.02	21.38
		<i>For Installation In Concrete Or Steel, Add</i>	21.26	
		<i>For Window Top >10' Above Finished Floor, Add</i>	10.63	
12 24 13 00-0076	EA	6' High x 7' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	357.31	24.94
		<i>For Installation In Concrete Or Steel, Add</i>	24.81	
		<i>For Window Top >10' Above Finished Floor, Add</i>	12.40	
12 24 13 00-0077	EA	6' High x 8' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	370.48	28.51
		<i>For Installation In Concrete Or Steel, Add</i>	28.35	
		<i>For Window Top >10' Above Finished Floor, Add</i>	14.17	
12 24 13 00-0078	EA	7' High x 3' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	194.45	10.70
		<i>For Installation In Concrete Or Steel, Add</i>	10.63	
		<i>For Window Top >10' Above Finished Floor, Add</i>	5.32	
12 24 13 00-0079	EA	7' High x 4' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	256.05	14.26
		<i>For Installation In Concrete Or Steel, Add</i>	14.18	
		<i>For Window Top >10' Above Finished Floor, Add</i>	7.09	
12 24 13 00-0080	EA	7' High x 5' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	286.16	17.82
		<i>For Installation In Concrete Or Steel, Add</i>	17.72	
		<i>For Window Top >10' Above Finished Floor, Add</i>	8.86	
12 24 13 00-0081	EA	7' High x 6' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	306.60	21.38
		<i>For Installation In Concrete Or Steel, Add</i>	21.26	
		<i>For Window Top >10' Above Finished Floor, Add</i>	10.63	
12 24 13 00-0082	EA	7' High x 7' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	383.93	24.94
		<i>For Installation In Concrete Or Steel, Add</i>	24.81	
		<i>For Window Top >10' Above Finished Floor, Add</i>	12.40	
12 24 13 00-0083	EA	7' High x 8' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	458.83	28.51
		<i>For Installation In Concrete Or Steel, Add</i>	28.35	
		<i>For Window Top >10' Above Finished Floor, Add</i>	14.17	
12 24 13 00-0084	EA	8' High x 3' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	206.56	10.70
		<i>For Installation In Concrete Or Steel, Add</i>	10.63	
		<i>For Window Top >10' Above Finished Floor, Add</i>	5.32	
12 24 13 00-0085	EA	8' High x 4' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	274.20	14.26
		<i>For Installation In Concrete Or Steel, Add</i>	14.18	
		<i>For Window Top >10' Above Finished Floor, Add</i>	7.09	
12 24 13 00-0086	EA	8' High x 5' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	305.53	17.82
		<i>For Installation In Concrete Or Steel, Add</i>	17.72	
		<i>For Window Top >10' Above Finished Floor, Add</i>	8.86	
12 24 13 00-0087	EA	8' High x 6' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	327.17	21.38
		<i>For Installation In Concrete Or Steel, Add</i>	21.26	
		<i>For Window Top >10' Above Finished Floor, Add</i>	10.63	
12 24 13 00-0088	EA	8' High x 7' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	411.77	24.94
		<i>For Installation In Concrete Or Steel, Add</i>	24.81	
		<i>For Window Top >10' Above Finished Floor, Add</i>	12.40	
12 24 13 00-0089	EA	8' High x 8' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	491.51	28.51
		<i>For Installation In Concrete Or Steel, Add</i>	28.35	
		<i>For Window Top >10' Above Finished Floor, Add</i>	14.17	
12 24 13 00-0090	EA	9' High x 3' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	216.24	10.70
		<i>For Installation In Concrete Or Steel, Add</i>	10.63	
		<i>For Window Top >10' Above Finished Floor, Add</i>	5.32	
12 24 13 00-0091	EA	9' High x 4' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	291.15	14.26
		<i>For Installation In Concrete Or Steel, Add</i>	14.18	
		<i>For Window Top >10' Above Finished Floor, Add</i>	7.09	
12 24 13 00-0092	EA	9' High x 5' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	324.89	17.82
		<i>For Installation In Concrete Or Steel, Add</i>	17.72	
		<i>For Window Top >10' Above Finished Floor, Add</i>	8.86	
12 24 13 00-0093	EA	9' High x 6' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	347.75	21.38
		<i>For Installation In Concrete Or Steel, Add</i>	21.26	
		<i>For Window Top >10' Above Finished Floor, Add</i>	10.63	
12 24 13 00-0094	EA	9' High x 7' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	439.61	24.94
		<i>For Installation In Concrete Or Steel, Add</i>	24.81	
		<i>For Window Top >10' Above Finished Floor, Add</i>	12.40	
12 24 13 00-0095	EA	9' High x 8' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	519.34	28.51
		<i>For Installation In Concrete Or Steel, Add</i>	28.35	
		<i>For Window Top >10' Above Finished Floor, Add</i>	14.17	
12 24 13 00-0096	EA	10' High x 3' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	227.13	10.70
		<i>For Installation In Concrete Or Steel, Add</i>	10.63	
		<i>For Window Top >10' Above Finished Floor, Add</i>	5.32	
12 24 13 00-0097	EA	10' High x 4' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	310.51	14.26
		<i>For Installation In Concrete Or Steel, Add</i>	14.18	
		<i>For Window Top >10' Above Finished Floor, Add</i>	7.09	
12 24 13 00-0098	EA	10' High x 5' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	346.68	17.82
		<i>For Installation In Concrete Or Steel, Add</i>	17.72	
		<i>For Window Top >10' Above Finished Floor, Add</i>	8.86	
12 24 13 00-0099	EA	10' High x 6' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade.....	369.53	21.38
		<i>For Installation In Concrete Or Steel, Add</i>	21.26	
		<i>For Window Top >10' Above Finished Floor, Add</i>	10.63	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
12 24	13 00-0100	EA	10' High x 7' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	475.92 24.81 12.40	24.94	
12 24	13 00-0101	EA	10' High x 8' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	547.18 28.35 14.17	28.51	
12 24	13 00-0102	EA	11' High x 3' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	247.71 10.63 5.32	10.70	
12 24	13 00-0103	EA	11' High x 4' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	332.30 14.18 7.09	14.26	
12 24	13 00-0104	EA	11' High x 5' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	375.72 17.72 8.86	17.82	
12 24	13 00-0105	EA	11' High x 6' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	401.00 21.26 10.63	21.38	
12 24	13 00-0106	EA	11' High x 7' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	521.91 24.81 12.40	24.94	
12 24	13 00-0107	EA	11' High x 8' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	593.17 28.35 14.17	28.51	
12 24	13 00-0108	EA	12' High x 3' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	300.96 10.63 5.32	10.70	
12 24	13 00-0109	EA	12' High x 4' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	354.08 14.18 7.09	14.26	
12 24	13 00-0110	EA	12' High x 5' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	402.35 17.72 8.86	17.82	
12 24	13 00-0111	EA	12' High x 6' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	427.63 21.26 10.63	21.38	
12 24	13 00-0112	EA	12' High x 7' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	544.90 24.81 12.40	24.94	
12 24	13 00-0113	EA	12' High x 8' Wide, 0 To 1% Openness Factor, ThermoVeil 0900 And 3000 Series Shade..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	619.80 28.35 14.17	28.51	
12 24	13 00-0114	EuroVeil 5100, 5200 And 5300 Series Shade <small>(12 24 13 00-0011)</small>				
12 24	13 00-0115	EA	3' High x 3' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	160.56 10.63 5.32	10.70	
12 24	13 00-0116	EA	3' High x 4' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	174.96 14.18 7.09	14.26	
12 24	13 00-0117	EA	3' High x 5' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	201.44 17.72 8.86	17.82	
12 24	13 00-0118	EA	3' High x 6' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	238.82 21.26 10.63	21.38	
12 24	13 00-0119	EA	3' High x 7' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	267.74 24.81 12.40	24.94	
12 24	13 00-0120	EA	3' High x 8' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	294.23 28.35 14.17	28.51	
12 24	13 00-0121	EA	4' High x 3' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	172.67 10.63 5.32	10.70	
12 24	13 00-0122	EA	4' High x 4' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	187.06 14.18 7.09	14.26	
12 24	13 00-0123	EA	4' High x 5' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	219.60 17.72 8.86	17.82	
12 24	13 00-0124	EA	4' High x 6' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	264.23 21.26 10.63	21.38	
12 24	13 00-0125	EA	4' High x 7' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	293.16 24.81 12.40	24.94	
12 24	13 00-0126	EA	4' High x 8' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	306.33 28.35 14.17	28.51	
12 24	13 00-0127	EA	5' High x 3' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	184.77 10.63 5.32	10.70	

12	Furnishings
12 20	Window Treatments
12 24	Window Shades



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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12 24 13 00-0128	EA 5' High x 4' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	197.95	14.26
	<i>For Installation In Concrete Or Steel, Add</i>	14.18	
	<i>For Window Top >10' Above Finished Floor, Add</i>	7.09	
12 24 13 00-0129	EA 5' High x 5' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	236.54	17.82
	<i>For Installation In Concrete Or Steel, Add</i>	17.72	
	<i>For Window Top >10' Above Finished Floor, Add</i>	8.86	
12 24 13 00-0130	EA 5' High x 6' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	289.65	21.38
	<i>For Installation In Concrete Or Steel, Add</i>	21.26	
	<i>For Window Top >10' Above Finished Floor, Add</i>	10.63	
12 24 13 00-0131	EA 5' High x 7' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	318.58	24.94
	<i>For Installation In Concrete Or Steel, Add</i>	24.81	
	<i>For Window Top >10' Above Finished Floor, Add</i>	12.40	
12 24 13 00-0132	EA 5' High x 8' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	331.75	28.51
	<i>For Installation In Concrete Or Steel, Add</i>	28.35	
	<i>For Window Top >10' Above Finished Floor, Add</i>	14.17	
12 24 13 00-0133	EA 6' High x 3' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	198.08	10.70
	<i>For Installation In Concrete Or Steel, Add</i>	10.63	
	<i>For Window Top >10' Above Finished Floor, Add</i>	5.32	
12 24 13 00-0134	EA 6' High x 4' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	211.27	14.26
	<i>For Installation In Concrete Or Steel, Add</i>	14.18	
	<i>For Window Top >10' Above Finished Floor, Add</i>	7.09	
12 24 13 00-0135	EA 6' High x 5' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	253.48	17.82
	<i>For Installation In Concrete Or Steel, Add</i>	17.72	
	<i>For Window Top >10' Above Finished Floor, Add</i>	8.86	
12 24 13 00-0136	EA 6' High x 6' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	315.07	21.38
	<i>For Installation In Concrete Or Steel, Add</i>	21.26	
	<i>For Window Top >10' Above Finished Floor, Add</i>	10.63	
12 24 13 00-0137	EA 6' High x 7' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	343.99	24.94
	<i>For Installation In Concrete Or Steel, Add</i>	24.81	
	<i>For Window Top >10' Above Finished Floor, Add</i>	12.40	
12 24 13 00-0138	EA 6' High x 8' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	421.31	28.51
	<i>For Installation In Concrete Or Steel, Add</i>	28.35	
	<i>For Window Top >10' Above Finished Floor, Add</i>	14.17	
12 24 13 00-0139	EA 7' High x 3' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	210.19	10.70
	<i>For Installation In Concrete Or Steel, Add</i>	10.63	
	<i>For Window Top >10' Above Finished Floor, Add</i>	5.32	
12 24 13 00-0140	EA 7' High x 4' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	223.37	14.26
	<i>For Installation In Concrete Or Steel, Add</i>	14.18	
	<i>For Window Top >10' Above Finished Floor, Add</i>	7.09	
12 24 13 00-0141	EA 7' High x 5' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	269.22	17.82
	<i>For Installation In Concrete Or Steel, Add</i>	17.72	
	<i>For Window Top >10' Above Finished Floor, Add</i>	8.86	
12 24 13 00-0142	EA 7' High x 6' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	340.48	21.38
	<i>For Installation In Concrete Or Steel, Add</i>	21.26	
	<i>For Window Top >10' Above Finished Floor, Add</i>	10.63	
12 24 13 00-0143	EA 7' High x 7' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	369.41	24.94
	<i>For Installation In Concrete Or Steel, Add</i>	24.81	
	<i>For Window Top >10' Above Finished Floor, Add</i>	12.40	
12 24 13 00-0144	EA 7' High x 8' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	446.73	28.51
	<i>For Installation In Concrete Or Steel, Add</i>	28.35	
	<i>For Window Top >10' Above Finished Floor, Add</i>	14.17	
12 24 13 00-0145	EA 8' High x 3' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	223.50	10.70
	<i>For Installation In Concrete Or Steel, Add</i>	10.63	
	<i>For Window Top >10' Above Finished Floor, Add</i>	5.32	
12 24 13 00-0146	EA 8' High x 4' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	236.68	14.26
	<i>For Installation In Concrete Or Steel, Add</i>	14.18	
	<i>For Window Top >10' Above Finished Floor, Add</i>	7.09	
12 24 13 00-0147	EA 8' High x 5' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	287.37	17.82
	<i>For Installation In Concrete Or Steel, Add</i>	17.72	
	<i>For Window Top >10' Above Finished Floor, Add</i>	8.86	
12 24 13 00-0148	EA 8' High x 6' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	365.90	21.38
	<i>For Installation In Concrete Or Steel, Add</i>	21.26	
	<i>For Window Top >10' Above Finished Floor, Add</i>	10.63	
12 24 13 00-0149	EA 8' High x 7' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	404.51	24.94
	<i>For Installation In Concrete Or Steel, Add</i>	24.81	
	<i>For Window Top >10' Above Finished Floor, Add</i>	12.40	
12 24 13 00-0150	EA 8' High x 8' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	468.51	28.51
	<i>For Installation In Concrete Or Steel, Add</i>	28.35	
	<i>For Window Top >10' Above Finished Floor, Add</i>	14.17	
12 24 13 00-0151	EA 9' High x 3' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	235.60	10.70
	<i>For Installation In Concrete Or Steel, Add</i>	10.63	
	<i>For Window Top >10' Above Finished Floor, Add</i>	5.32	
12 24 13 00-0152	EA 9' High x 4' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	247.57	14.26
	<i>For Installation In Concrete Or Steel, Add</i>	14.18	
	<i>For Window Top >10' Above Finished Floor, Add</i>	7.09	
12 24 13 00-0153	EA 9' High x 5' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	305.53	17.82
	<i>For Installation In Concrete Or Steel, Add</i>	17.72	
	<i>For Window Top >10' Above Finished Floor, Add</i>	8.86	
12 24 13 00-0154	EA 9' High x 6' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	396.16	21.38
	<i>For Installation In Concrete Or Steel, Add</i>	21.26	
	<i>For Window Top >10' Above Finished Floor, Add</i>	10.63	
12 24 13 00-0155	EA 9' High x 7' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade.....	425.08	24.94
	<i>For Installation In Concrete Or Steel, Add</i>	24.81	
	<i>For Window Top >10' Above Finished Floor, Add</i>	12.40	



Furnishings	12
Window Treatments	12 20
Window Shades	12 24

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
12 24	13 00-0156	EA	9' High x 8' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	493.93 28.35 14.17	28.51	
12 24	13 00-0157	EA	10' High x 3' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	247.71 10.63 5.32	10.70	
12 24	13 00-0158	EA	10' High x 4' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	260.89 14.18 7.09	14.26	
12 24	13 00-0159	EA	10' High x 5' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	321.26 17.72 8.86	17.82	
12 24	13 00-0160	EA	10' High x 6' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	417.94 21.26 10.63	21.38	
12 24	13 00-0161	EA	10' High x 7' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	448.08 24.81 12.40	24.94	
12 24	13 00-0162	EA	10' High x 8' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	529.03 28.35 14.17	28.51	
12 24	13 00-0163	EA	11' High x 3' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	277.96 10.63 5.32	10.70	
12 24	13 00-0164	EA	11' High x 4' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	291.15 14.18 7.09	14.26	
12 24	13 00-0165	EA	11' High x 5' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	362.41 17.72 8.86	17.82	
12 24	13 00-0166	EA	11' High x 6' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	457.88 21.26 10.63	21.38	
12 24	13 00-0167	EA	11' High x 7' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	492.86 24.81 12.40	24.94	
12 24	13 00-0168	EA	11' High x 8' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	568.97 28.35 14.17	28.51	
12 24	13 00-0169	EA	12' High x 3' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	326.38 10.63 5.32	10.70	
12 24	13 00-0170	EA	12' High x 4' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	304.46 14.18 7.09	14.26	
12 24	13 00-0171	EA	12' High x 5' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	381.78 17.72 8.86	17.82	
12 24	13 00-0172	EA	12' High x 6' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	483.30 21.26 10.63	21.38	
12 24	13 00-0173	EA	12' High x 7' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	519.49 24.81 12.40	24.94	
12 24	13 00-0174	EA	12' High x 8' Wide, 5 To 6% Openness Factor, EuroVeil 5100, 5200 And 5300 Series Shade <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	594.38 28.35 14.17	28.51	
12 24	13 00-0175	Snaplock Fascia (12 24 13 00-0011)				
12 24	13 00-0176	EA	3' Wide Mecho Slimline, Regular Snaplock Fascia <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	19.29 1.77 0.89	1.78	
12 24	13 00-0177	EA	4' Wide Mecho Slimline, Regular Snaplock Fascia <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	25.33 2.36 1.18	2.37	
12 24	13 00-0178	EA	5' Wide Mecho Slimline, Regular Snaplock Fascia <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	31.35 2.95 1.48	2.97	
12 24	13 00-0179	EA	6' Wide Mecho Slimline, Regular Snaplock Fascia <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	39.80 3.54 1.77	3.56	
12 24	13 00-0180	EA	7' Wide Mecho Slimline, Regular Snaplock Fascia <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	44.62 4.13 2.07	4.15	
12 24	13 00-0181	EA	8' Wide Mecho Slimline, Regular Snaplock Fascia <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	51.86 4.73 2.36	4.75	
12 24	13 00-0182	EA	9' Wide Mecho Slimline, Regular Snaplock Fascia <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	59.10 5.32 2.66	5.34	
12 24	13 00-0183	EA	10' Wide Mecho Slimline, Regular Snaplock Fascia <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	65.13 5.91 2.95	5.93	

12 Furnishings

12 20 Window Treatments

12 24 Window Shades



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 24 13 00-0184 EA 11' Wide Mecho Slimline, Regular Snaplock Fascia	71.15	6.53
For Installation In Concrete Or Steel, Add	6.50	
For Window Top >10' Above Finished Floor, Add	3.25	
12 24 13 00-0185 EA 12' Wide Mecho Slimline, Regular Snaplock Fascia	112.28	7.12
For Installation In Concrete Or Steel, Add	7.09	
For Window Top >10' Above Finished Floor, Add	3.54	
12 24 13 00-0186 EA 3' Wide Mecho Extended, Regular Snaplock Fascia.....	35.03	1.78
For Installation In Concrete Or Steel, Add	1.77	
For Window Top >10' Above Finished Floor, Add	0.89	
12 24 13 00-0187 EA 4' Wide Mecho Extended, Regular Snaplock Fascia.....	47.11	2.37
For Installation In Concrete Or Steel, Add	2.36	
For Window Top >10' Above Finished Floor, Add	1.18	
12 24 13 00-0188 EA 5' Wide Mecho Extended, Regular Snaplock Fascia.....	57.97	2.97
For Installation In Concrete Or Steel, Add	2.95	
For Window Top >10' Above Finished Floor, Add	1.48	
12 24 13 00-0189 EA 6' Wide Mecho Extended, Regular Snaplock Fascia.....	68.85	3.56
For Installation In Concrete Or Steel, Add	3.54	
For Window Top >10' Above Finished Floor, Add	1.77	
12 24 13 00-0190 EA 7' Wide Mecho Extended, Regular Snaplock Fascia.....	80.93	4.15
For Installation In Concrete Or Steel, Add	4.13	
For Window Top >10' Above Finished Floor, Add	2.07	
12 24 13 00-0191 EA 8' Wide Mecho Extended, Regular Snaplock Fascia.....	91.80	4.75
For Installation In Concrete Or Steel, Add	4.73	
For Window Top >10' Above Finished Floor, Add	2.36	
12 24 13 00-0192 EA 9' Wide Mecho Extended, Regular Snaplock Fascia.....	103.88	5.34
For Installation In Concrete Or Steel, Add	5.32	
For Window Top >10' Above Finished Floor, Add	2.66	
12 24 13 00-0193 EA 10' Wide Mecho Extended, Regular Snaplock Fascia.....	117.18	5.93
For Installation In Concrete Or Steel, Add	5.91	
For Window Top >10' Above Finished Floor, Add	2.95	
12 24 13 00-0194 EA 11' Wide Mecho Extended, Regular Snaplock Fascia.....	126.83	6.53
For Installation In Concrete Or Steel, Add	6.50	
For Window Top >10' Above Finished Floor, Add	3.25	
12 24 13 00-0195 EA 12' Wide Mecho Extended, Regular Snaplock Fascia.....	206.69	7.12
For Installation In Concrete Or Steel, Add	7.09	
For Window Top >10' Above Finished Floor, Add	3.54	
12 24 13 00-0196 Room Darkening Sill And Side Channel (12 24 13 00-0011)		
12 24 13 00-0197 EA 36" Wide, 1-15/16" Single Mecho Room Darkening Sill And Side Channel	27.63	5.34
For Installation In Concrete Or Steel, Add	5.32	
For Window Top >10' Above Finished Floor, Add	2.66	
12 24 13 00-0198 EA 48" Wide, 1-15/16" Single Mecho Room Darkening Sill And Side Channel	36.04	7.12
For Installation In Concrete Or Steel, Add	7.09	
For Window Top >10' Above Finished Floor, Add	3.54	
12 24 13 00-0199 EA 60" Wide, 1-15/16" Single Mecho Room Darkening Sill And Side Channel	46.87	8.91
For Installation In Concrete Or Steel, Add	8.86	
For Window Top >10' Above Finished Floor, Add	4.43	
12 24 13 00-0200 EA 72" Wide, 1-15/16" Single Mecho Room Darkening Sill And Side Channel	56.48	10.70
For Installation In Concrete Or Steel, Add	10.63	
For Window Top >10' Above Finished Floor, Add	5.32	
12 24 13 00-0201 EA 84" Wide, 1-15/16" Single Mecho Room Darkening Sill And Side Channel	64.88	12.48
For Installation In Concrete Or Steel, Add	12.40	
For Window Top >10' Above Finished Floor, Add	6.20	
12 24 13 00-0202 EA 96" Wide, 1-15/16" Single Mecho Room Darkening Sill And Side Channel	74.50	14.26
For Installation In Concrete Or Steel, Add	14.18	
For Window Top >10' Above Finished Floor, Add	7.09	
12 24 13 00-0203 EA 108" Wide, 1-15/16" Single Mecho Room Darkening Sill And Side Channel	84.11	16.04
For Installation In Concrete Or Steel, Add	15.95	
For Window Top >10' Above Finished Floor, Add	7.97	
12 24 13 00-0204 EA 120" Wide, 1-15/16" Single Mecho Room Darkening Sill And Side Channel	92.51	17.82
For Installation In Concrete Or Steel, Add	17.72	
For Window Top >10' Above Finished Floor, Add	8.86	
12 24 13 00-0205 EA 132" Wide, 1-15/16" Single Mecho Room Darkening Sill And Side Channel	100.92	19.60
For Installation In Concrete Or Steel, Add	19.49	
For Window Top >10' Above Finished Floor, Add	9.74	
12 24 13 00-0206 EA 144" Wide, 1-15/16" Single Mecho Room Darkening Sill And Side Channel	110.53	21.38
For Installation In Concrete Or Steel, Add	21.26	
For Window Top >10' Above Finished Floor, Add	10.63	
12 24 13 00-0207 EA 36" Wide, 2-5/8" Double Mecho Room Darkening Sill And Side Channel.....	27.63	5.34
For Installation In Concrete Or Steel, Add	5.32	
For Window Top >10' Above Finished Floor, Add	2.66	
12 24 13 00-0208 EA 48" Wide, 2-5/8" Double Mecho Room Darkening Sill And Side Channel.....	56.61	7.12
For Installation In Concrete Or Steel, Add	7.09	
For Window Top >10' Above Finished Floor, Add	3.54	
12 24 13 00-0209 EA 60" Wide, 2-5/8" Double Mecho Room Darkening Sill And Side Channel.....	71.07	8.91
For Installation In Concrete Or Steel, Add	8.86	
For Window Top >10' Above Finished Floor, Add	4.43	
12 24 13 00-0210 EA 72" Wide, 2-5/8" Double Mecho Room Darkening Sill And Side Channel.....	83.11	10.70
For Installation In Concrete Or Steel, Add	10.63	
For Window Top >10' Above Finished Floor, Add	5.32	
12 24 13 00-0211 EA 84" Wide, 2-5/8" Double Mecho Room Darkening Sill And Side Channel.....	98.77	12.48
For Installation In Concrete Or Steel, Add	12.40	
For Window Top >10' Above Finished Floor, Add	6.20	



Furnishings	12
Window Treatments	12 20
Window Shades	12 24

12

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 24	13 00-0212	EA	96" Wide, 2-5/8" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	112.02 14.18 7.09	14.26
12 24	13 00-0213	EA	108" Wide, 2-5/8" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	132.52 15.95 7.97	16.04
12 24	13 00-0214	EA	120" Wide, 2-5/8" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	146.98 17.72 8.86	17.82
12 24	13 00-0215	EA	132" Wide, 2-5/8" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	162.64 19.49 9.74	19.60
12 24	13 00-0216	EA	144" Wide, 2-5/8" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	175.88 21.26 10.63	21.38
12 24	13 00-0217	EA	36" Wide, 2-1/2" Single Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	34.90 5.32 2.66	5.34
12 24	13 00-0218	EA	48" Wide, 2-1/2" Single Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	48.14 7.09 3.54	7.12
12 24	13 00-0219	EA	60" Wide, 2-1/2" Single Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	60.18 8.86 4.43	8.91
12 24	13 00-0220	EA	72" Wide, 2-1/2" Single Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	72.21 10.63 5.32	10.70
12 24	13 00-0221	EA	84" Wide, 2-1/2" Single Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	83.03 12.40 6.20	12.48
12 24	13 00-0222	EA	96" Wide, 2-1/2" Single Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	95.08 14.18 7.09	14.26
12 24	13 00-0223	EA	108" Wide, 2-1/2" Single Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	107.11 15.95 7.97	16.04
12 24	13 00-0224	EA	120" Wide, 2-1/2" Single Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	117.93 17.72 8.86	17.82
12 24	13 00-0225	EA	132" Wide, 2-1/2" Single Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	129.96 19.49 9.74	19.60
12 24	13 00-0226	EA	144" Wide, 2-1/2" Single Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	143.20 21.26 10.63	21.38
12 24	13 00-0227	EA	36" Wide, 5" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	60.31 5.32 2.66	5.34
12 24	13 00-0228	EA	48" Wide, 5" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	78.40 7.09 3.54	7.12
12 24	13 00-0229	EA	60" Wide, 5" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	97.70 8.86 4.43	8.91
12 24	13 00-0230	EA	72" Wide, 5" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	119.41 10.63 5.32	10.70
12 24	13 00-0231	EA	84" Wide, 5" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	137.50 12.40 6.20	12.48
12 24	13 00-0232	EA	96" Wide, 5" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	158.01 14.18 7.09	14.26
12 24	13 00-0233	EA	108" Wide, 5" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	177.31 15.95 7.97	16.04
12 24	13 00-0234	EA	120" Wide, 5" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	197.81 17.72 8.86	17.82
12 24	13 00-0235	EA	132" Wide, 5" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	215.89 19.49 9.74	19.60
12 24	13 00-0236	EA	144" Wide, 5" Double Mecho Room Darkening Sill And Side Channel..... <i>For Installation In Concrete Or Steel, Add</i> <i>For Window Top >10' Above Finished Floor, Add</i>	235.19 21.26 10.63	21.38

12 30 Casework⁽¹²⁾

12 31 Manufactured Metal Casework^(12 30)

12 31 16 Manufactured Metal Sandwich Panel Casework^(12 31)

12 31 16 00-0001 34-1/2" High x 24" Deep, Stainless Steel Cabinets^(12 31 16)

12	Furnishings
12 30	Casework
12 31	Manufactured Metal Casework



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

12 31 16 00-0002	18 Gauge, #4 Finish, 304 Stainless Steel Base Cabinets (12 31 16 00-0001)		
12 31 16 00-0003	18" Stainless Steel Base Cabinet (12 31 16 00-0002)		
12 31 16 00-0004	EA 18" Stainless Steel Base Cabinet, No Doors Or Drawers	1,477.21	196.80
	For 16 Gauge Stainless Steel, Add	232.95	
	For >5 To 9, Deduct	-56.88	
	For >9, Deduct	-113.77	
12 31 16 00-0005	EA 18" Stainless Steel Base Cabinet, With 4 Drawers	2,397.50	196.80
	For 16 Gauge Stainless Steel, Add	430.81	
	For >5 To 9, Deduct	-105.20	
	For >9, Deduct	-210.40	
12 31 16 00-0006	EA 18" Stainless Steel Base Cabinet, With 3 Drawers	2,223.84	196.80
	For 16 Gauge Stainless Steel, Add	393.48	
	For >5 To 9, Deduct	-96.08	
	For >9, Deduct	-192.16	
12 31 16 00-0007	EA 18" Stainless Steel Base Cabinet, With 2 Drawers	2,050.19	196.80
	For 16 Gauge Stainless Steel, Add	356.14	
	For >5 To 9, Deduct	-86.97	
	For >9, Deduct	-173.93	
12 31 16 00-0008	EA 18" Stainless Steel Base Cabinet, With Doors And Drawers	1,991.26	196.80
	For 16 Gauge Stainless Steel, Add	343.47	
	For >5 To 9, Deduct	-83.87	
	For >9, Deduct	-167.74	
12 31 16 00-0009	24" Stainless Steel Base Cabinet (12 31 16 00-0002)		
12 31 16 00-0010	EA 24" Stainless Steel Base Cabinet, With Doors And Locks	2,133.97	212.70
	For 16 Gauge Stainless Steel, Add	367.28	
	For >5 To 9, Deduct	-89.68	
	For >9, Deduct	-179.37	
12 31 16 00-0011	EA 24" Stainless Steel Base Cabinet, With Door, No Locks	1,922.08	212.70
	For 16 Gauge Stainless Steel, Add	321.72	
	For >5 To 9, Deduct	-78.56	
	For >9, Deduct	-157.12	
12 31 16 00-0012	EA 24" Stainless Steel Base Cabinet, With Two Doors, No Locks	1,968.47	212.70
	For 16 Gauge Stainless Steel, Add	331.69	
	For >5 To 9, Deduct	-80.99	
	For >9, Deduct	-161.99	
12 31 16 00-0013	EA 24" Stainless Steel Base Cabinet, No Doors, 2 Drawers	2,184.13	212.70
	For 16 Gauge Stainless Steel, Add	378.06	
	For >5 To 9, Deduct	-92.32	
	For >9, Deduct	-184.63	
12 31 16 00-0014	EA 24" Stainless Steel Base Cabinet, With Doors And Drawers, No Locks	2,837.98	212.70
	For 16 Gauge Stainless Steel, Add	518.64	
	For >5 To 9, Deduct	-126.64	
	For >9, Deduct	-253.29	
12 31 16 00-0015	EA 24" Stainless Steel Base Cabinet, With Doors And Drawers, With Locks	3,118.21	212.70
	For 16 Gauge Stainless Steel, Add	578.89	
	For >5 To 9, Deduct	-141.36	
	For >9, Deduct	-282.71	
12 31 16 00-0016	30" Stainless Steel Base Cabinet (12 31 16 00-0002)		
12 31 16 00-0017	EA 30" Stainless Steel Base Cabinet, No Doors, No Drawers	1,878.85	224.13
	For 16 Gauge Stainless Steel, Add	307.61	
	For >5 To 9, Deduct	-75.11	
	For >9, Deduct	-150.23	
12 31 16 00-0018	EA 30" Stainless Steel Base Cabinet, With 4 Full Size Drawers	2,728.93	224.13
	For 16 Gauge Stainless Steel, Add	490.38	
	For >5 To 9, Deduct	-119.74	
	For >9, Deduct	-239.49	
12 31 16 00-0019	EA 30" Stainless Steel Base Cabinet, With Doors, Drawers And Locks	3,510.67	224.13
	For 16 Gauge Stainless Steel, Add	658.45	
	For >5 To 9, Deduct	-160.78	
	For >9, Deduct	-321.57	
12 31 16 00-0020	EA 30" Stainless Steel Base Cabinet, With Doors And Drawers, No Locks	3,230.45	224.13
	For 16 Gauge Stainless Steel, Add	598.20	
	For >5 To 9, Deduct	-146.07	
	For >9, Deduct	-292.15	
12 31 16 00-0021	EA 30" Stainless Steel Base Cabinet, With Doors And One Full Size Drawer	3,056.80	224.13
	For 16 Gauge Stainless Steel, Add	560.87	
	For >5 To 9, Deduct	-136.96	
	For >9, Deduct	-273.91	
12 31 16 00-0022	EA 30" Stainless Steel Base Cabinet, With Doors, No Locks	2,352.16	224.13
	For 16 Gauge Stainless Steel, Add	409.37	
	For >5 To 9, Deduct	-99.96	
	For >9, Deduct	-199.93	
12 31 16 00-0023	EA 30" Stainless Steel Base Cabinet, With Doors And Locks	2,330.85	224.13
	For 16 Gauge Stainless Steel, Add	404.79	
	For >5 To 9, Deduct	-98.84	
	For >9, Deduct	-197.69	
12 31 16 00-0024	36" Stainless Steel Base Cabinet (12 31 16 00-0002)		



		Furnishings	12
		Casework	12 30
		Manufactured Metal Casework	12 31

12

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 31 16 00-0025	EA		36" Stainless Steel Base Cabinet, No Doors, No Drawers..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	2,075.38 345.90 -84.46 -168.93	233.03
12 31 16 00-0026	EA		36" Stainless Steel Base Cabinet, With Doors And Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	2,528.00 443.22 -108.23 -216.45	233.03
12 31 16 00-0027	EA		36" Stainless Steel Base Cabinet, With Door, No Lock..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	2,361.25 407.36 -99.47 -198.95	233.03
12 31 16 00-0028	EA		36" Stainless Steel Base Cabinet, With Doors, Drawers And Lock..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	3,705.32 696.34 -170.04 -340.07	233.03
12 31 16 00-0029	EA		36" Stainless Steel Base Cabinet, With Doors, Drawers, No Locks..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	3,425.72 636.23 -155.36 -310.71	233.03
12 31 16 00-0030			42" Stainless Steel Base Cabinet (12 31 16 00-0002)		
12 31 16 00-0031	EA		42" Stainless Steel Base Cabinet, No Doors, No Drawers..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	2,178.70 361.92 -88.37 -176.75	247.66
12 31 16 00-0032	EA		42" Stainless Steel Base Cabinet, With Doors, Drawers And Lock..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	3,908.32 733.78 -179.18 -358.36	247.66
12 31 16 00-0033	EA		42" Stainless Steel Base Cabinet, With Doors, Drawers, No Lock..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	3,628.10 673.54 -164.47 -328.94	247.66
12 31 16 00-0034	EA		42" Stainless Steel Base Cabinet, No Doors, 2 Drawers <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	3,337.84 611.13 -149.23 -298.46	247.66
12 31 16 00-0035	EA		42" Stainless Steel Base Cabinet, With Doors, No Lock..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	2,564.87 444.94 -108.65 -217.30	247.66
12 31 16 00-0036	EA		42" Stainless Steel Base Cabinet, With Doors And Lock..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	2,729.12 480.26 -117.27 -234.54	247.66
12 31 16 00-0037			48" Stainless Steel Base Cabinet (12 31 16 00-0002)		
12 31 16 00-0038	EA		48" Stainless Steel Base Cabinet, With Doors, Drawers And Lock..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	4,098.82 772.37 -188.60 -377.20	253.38
12 31 16 00-0039	EA		48" Stainless Steel Base Cabinet, With Doors, Drawers, No Lock..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	3,819.22 712.25 -173.92 -347.85	253.38
12 31 16 00-0040	EA		48" Stainless Steel Base Cabinet, No Doors, No Drawers..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	2,369.20 400.50 -97.80 -195.59	253.38
12 31 16 00-0041	EA		48" Stainless Steel Base Cabinet, No Doors, 2 Drawers <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	3,528.96 649.85 -158.68 -317.37	253.38
12 31 16 00-0042	EA		48" Stainless Steel Base Cabinet, With Doors, And Lock..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	2,921.50 519.24 -126.79 -253.58	253.38
12 31 16 00-0043	EA		48" Stainless Steel Base Cabinet, With Doors, No Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	2,876.36 509.54 -124.42 -248.84	253.38
12 31 16 00-0044			60" Stainless Steel Base Cabinet (12 31 16 00-0002)		
12 31 16 00-0045	EA		24" Deep x 60" Wide Stainless Steel Sink Base Cabinet..... <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	2,846.21 499.72 -122.02 -244.05	261.10
12 31 16 00-0046			18 Gauge, #4 Finish, 304 Stainless Steel Wall Cabinets (12 31 16 00-0001)		

12 Furnishings**12 30 Casework****12 31 Manufactured Metal Casework**

SAN BERNARDINO
COUNTY

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 31 16 00-0047			12" Wide Stainless Steel Wall Cabinets (12 31 16 00-0046)		
12 31 16 00-0048	EA		12"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors And Locks	1,142.92	74.93
			For 16 Gauge Stainless Steel, Add	213.51	
			For >5 To 9, Deduct	-52.14	
			For >9, Deduct	-104.27	
12 31 16 00-0049	EA		12"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors, No Locks	1,138.62	79.47
			For 16 Gauge Stainless Steel, Add	210.63	
			For >5 To 9, Deduct	-51.43	
			For >9, Deduct	-102.86	
12 31 16 00-0050			18" Wide Stainless Steel Wall Cabinets (12 31 16 00-0046)		
12 31 16 00-0051	EA		18"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors And Locks	1,198.18	80.56
			For 16 Gauge Stainless Steel, Add	222.95	
			For >5 To 9, Deduct	-54.44	
			For >9, Deduct	-108.88	
12 31 16 00-0052	EA		18"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors, No Locks	1,129.85	80.56
			For 16 Gauge Stainless Steel, Add	208.26	
			For >5 To 9, Deduct	-50.85	
			For >9, Deduct	-101.71	
12 31 16 00-0053	EA		18"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors And Locks	1,325.22	87.63
			For 16 Gauge Stainless Steel, Add	247.23	
			For >5 To 9, Deduct	-60.37	
			For >9, Deduct	-120.74	
12 31 16 00-0054	EA		18"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors, No Locks	1,283.22	87.63
			For 16 Gauge Stainless Steel, Add	238.20	
			For >5 To 9, Deduct	-58.16	
			For >9, Deduct	-116.33	
12 31 16 00-0055			24" Wide Stainless Steel Wall Cabinets (12 31 16 00-0046)		
12 31 16 00-0056	EA		24"W x 12"D x 36"H Stainless Steel Wall Cabinet, No Door	995.26	89.18
			For 16 Gauge Stainless Steel, Add	175.64	
			For >5 To 9, Deduct	-42.89	
			For >9, Deduct	-85.78	
12 31 16 00-0057	EA		24"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors And Locks	1,352.59	89.18
			For 16 Gauge Stainless Steel, Add	252.47	
			For >5 To 9, Deduct	-61.65	
			For >9, Deduct	-123.30	
12 31 16 00-0058	EA		24"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors, No Locks	1,284.89	89.18
			For 16 Gauge Stainless Steel, Add	237.91	
			For >5 To 9, Deduct	-58.10	
			For >9, Deduct	-116.19	
12 31 16 00-0059	EA		24"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors And Locks	1,273.38	83.27
			For 16 Gauge Stainless Steel, Add	237.93	
			For >5 To 9, Deduct	-58.10	
			For >9, Deduct	-116.20	
12 31 16 00-0060	EA		24"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors, No Locks	1,201.29	83.27
			For 16 Gauge Stainless Steel, Add	222.43	
			For >5 To 9, Deduct	-54.31	
			For >9, Deduct	-108.63	
12 31 16 00-0061	EA		24"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Glass Door, No Lock	1,539.19	83.27
			For 16 Gauge Stainless Steel, Add	295.08	
			For >5 To 9, Deduct	-72.05	
			For >9, Deduct	-144.11	
12 31 16 00-0062	EA		24"W x 12"D x 24"H Stainless Steel Wall Cabinet, No Doors	911.66	83.27
			For 16 Gauge Stainless Steel, Add	160.16	
			For >5 To 9, Deduct	-39.11	
			For >9, Deduct	-78.22	
12 31 16 00-0063	EA		24"W x 12"D x 18"H Stainless Steel Wall Cabinet, No Doors	858.40	79.47
			For 16 Gauge Stainless Steel, Add	150.38	
			For >5 To 9, Deduct	-36.72	
			For >9, Deduct	-73.44	
12 31 16 00-0064			30" Wide Stainless Steel Wall Cabinets (12 31 16 00-0046)		
12 31 16 00-0065	EA		30"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors And Locks	1,755.04	94.72
			For 16 Gauge Stainless Steel, Add	336.60	
			For >5 To 9, Deduct	-82.19	
			For >9, Deduct	-164.39	
12 31 16 00-0066	EA		30"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors, No Locks	1,590.79	94.72
			For 16 Gauge Stainless Steel, Add	301.29	
			For >5 To 9, Deduct	-73.57	
			For >9, Deduct	-147.14	
12 31 16 00-0067	EA		30"W x 12"D x 36"H Stainless Steel Wall Cabinet, No Doors	1,068.59	94.72
			For 16 Gauge Stainless Steel, Add	189.01	
			For >5 To 9, Deduct	-46.15	
			For >9, Deduct	-92.31	
12 31 16 00-0068	EA		30"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors And Locks	1,669.50	87.18
			For 16 Gauge Stainless Steel, Add	321.44	
			For >5 To 9, Deduct	-78.49	
			For >9, Deduct	-156.98	



Furnishings	12
Casework	12 30
Manufactured Metal Casework	12 31

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 31 16 00-0069	EA		30"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors, No Lock <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,505.25 286.13 -69.87 -139.74	87.18
12 31 16 00-0070	EA		30"W x 12"D x 24"H Stainless Steel Wall Cabinet, No Doors <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	983.05 173.86 -42.45 -84.91	87.18
12 31 16 00-0071	EA		30"W x 12"D x 18"H Stainless Steel Wall Cabinet, No Doors <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	929.50 164.12 -40.08 -80.15	83.09
12 31 16 00-0072			36" Wide Stainless Steel Wall Cabinets <small>(12 31 16 00-0046)</small>		
12 31 16 00-0073	EA		36"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors And Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,825.17 350.51 -85.59 -171.18	97.45
12 31 16 00-0074	EA		36"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors, No Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,657.17 314.39 -76.77 -153.54	97.45
12 31 16 00-0075	EA		36"W x 12"D x 36"H Stainless Steel Wall Cabinet, No Doors <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,138.72 202.92 -49.55 -99.10	97.45
12 31 16 00-0076	EA		36"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors And Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,738.76 335.50 -81.92 -163.85	89.18
12 31 16 00-0077	EA		36"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors, No Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,575.14 300.32 -73.33 -146.67	89.18
12 31 16 00-0078	EA		36"W x 12"D x 24"H Stainless Steel Wall Cabinet, No Doors <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,052.31 187.91 -45.89 -91.77	89.18
12 31 16 00-0079	EA		36"W x 12"D x 18"H Stainless Steel Wall Cabinet, With Doors, No Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	999.92 178.46 -43.58 -87.16	84.92
12 31 16 00-0080			42" Wide Stainless Steel Wall Cabinets <small>(12 31 16 00-0046)</small>		
12 31 16 00-0081	EA		42"W x 12"D x 42"H Stainless Steel Wall Cabinet, With Doors, No Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,912.22 358.45 -87.53 -175.06	122.61
12 31 16 00-0082	EA		42"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors And Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,915.80 362.17 -88.44 -176.87	115.70
12 31 16 00-0083	EA		42"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors, No Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,749.05 326.32 -79.68 -159.37	115.70
12 31 16 00-0084	EA		42"W x 12"D x 36"H Stainless Steel Wall Cabinet, No Doors <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,228.09 214.31 -52.33 -104.67	115.70
12 31 16 00-0085	EA		42"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors And Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,806.68 346.66 -84.65 -169.30	97.18
12 31 16 00-0086	EA		42"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors, No Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,641.18 311.07 -75.96 -151.92	97.18
12 31 16 00-0087	EA		42"W x 12"D x 24"H Stainless Steel Wall Cabinet, No Doors <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,120.22 199.07 -48.61 -97.22	97.18
12 31 16 00-0088			48" Wide Stainless Steel Wall Cabinets <small>(12 31 16 00-0046)</small>		
12 31 16 00-0089	EA		48"W x 12"D x 42"H Stainless Steel Wall Cabinet, No Doors, No Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,682.41 307.98 -75.20 -150.41	122.61
12 31 16 00-0090	EA		48"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors And Locks <i>For 16 Gauge Stainless Steel, Add</i> <i>For >5 To 9, Deduct</i> <i>For >9, Deduct</i>	1,984.56 375.83 -91.77 -183.55	118.25

12	Furnishings
12 30	Casework
12 31	Manufactured Metal Casework



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 31 16 00-0091 EA 48"W x 12"D x 36"H Stainless Steel Wall Cabinet, With Doors, No Locks.....	1,820.32	118.25
For 16 Gauge Stainless Steel, Add	340.52	
For >5 To 9, Deduct	-83.15	
For >9, Deduct	-166.30	
12 31 16 00-0092 EA 48"W x 12"D x 36"H Stainless Steel Wall Cabinet, No Doors.....	1,298.11	118.25
For 16 Gauge Stainless Steel, Add	228.24	
For >5 To 9, Deduct	-55.73	
For >9, Deduct	-111.47	
12 31 16 00-0093 EA 48"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors And Locks.....	1,874.86	98.08
For 16 Gauge Stainless Steel, Add	360.89	
For >5 To 9, Deduct	-88.12	
For >9, Deduct	-176.25	
12 31 16 00-0094 EA 48"W x 12"D x 24"H Stainless Steel Wall Cabinet, With Doors, No Locks.....	1,711.24	98.08
For 16 Gauge Stainless Steel, Add	325.71	
For >5 To 9, Deduct	-79.53	
For >9, Deduct	-159.07	
12 31 16 00-0095 EA 48"W x 12"D x 24"H Stainless Steel Wall Cabinet, No Doors.....	1,188.40	98.08
For 16 Gauge Stainless Steel, Add	213.30	
For >5 To 9, Deduct	-52.09	
For >9, Deduct	-104.17	
12 31 16 00-0096 Accessories (12 31 16 00-0001)		
12 31 16 00-0097 Stainless Steel Countertops (12 31 16 00-0096)		
Note: Includes all finishes, finished ends and all edge types such as straight, bullnose, eased, marine, etc. Excludes sinks.		
12 31 16 00-0098 SF 16 Gauge Stainless Steel Countertop With Backsplash.....	80.37	4.99
For 14 Gauge Stainless Steel, Add	15.55	
12 31 16 00-0099 SF 16 Gauge Stainless Steel Countertop Without Backsplash.....	73.78	4.99
For 14 Gauge Stainless Steel, Add	14.10	
12 31 16 00-0100 EA Cutout For Sink And/Or Faucet In Stainless Steel Countertop.....	132.92	
12 31 16 00-0101 Stainless Steel Wall Panels (12 31 16 00-0096)		
12 31 16 00-0102 SF 20 Gauge Stainless Steel Wall Panel.....	29.00	7.45
For 18 Gauge Stainless Steel, Add	3.83	
For 16 Gauge Stainless Steel, Add	7.38	
12 31 16 00-0103 Pedestal Legs (12 31 16 00-0096)		
12 31 16 00-0104 EA Type #304 Stainless Steel Pedestal Leg.....	249.23	11.36
12 31 16 00-0105 Stainless Steel Slanted Cabinet Top Enclosure (12 31 16 00-0096)		
12 31 16 00-0106 EA Stainless Steel Slanted Cabinet Top Enclosure, 5' Sections.....	273.94	22.16
12 35 Specialty Casework (12 30)		
12 35 70 Healthcare Casework (12 35)		
12 35 70 13 Hospital Casework (12 35 70)		
12 35 70 13-0001 Modular Casework (12 35 70 13)		
Note: Midmark.		
12 35 70 13-0002 EA 36" High, 2 Doors, Base Sink Unit (Midmark MC-SBS005-243624).....	557.42	79.13
12 35 70 13-0003 EA 36" High, 2 Doors, Base Sink Unit (Midmark MC-SBS005-363624).....	691.67	98.91
12 35 70 13-0004 EA 36" High, 2 Doors, Base Sink Unit With Tap Master Valve (Midmark MC-SBS009-243624).....	949.46	79.13
12 35 70 13-0005 EA 36" High Base Sink Unit, 2 Doors With Tap Master Valve; Midmark MC-SBS009-363624.....	1,093.12	98.91
12 35 70 13-0006 EA 36" High Base Storage Unit, 1 Door; Midmark MC-SBP006-243624.....	627.20	79.13
12 35 70 13-0007 EA 36" High Base Storage Unit, 2 Doors; Midmark MC-SBP007-363624.....	840.65	98.91
12 35 70 13-0008 EA 36" High Base Storage Unit, 1 1/4" Drawer, 1 Door; Midmark MC-SBP012-153624.....	629.55	79.13
12 35 70 13-0009 EA 36" High Base Storage Unit, 1 1/4" Drawer, 1 Door; Midmark MC-SBP012-183624.....	675.81	79.13
12 35 70 13-0010 EA 36" High Base Storage Unit, 1 1/4" Drawer, 1 Door; Midmark MC-SBP012-213624.....	715.80	79.13
12 35 70 13-0011 EA 36" High Base Storage Unit, 1 1/4" Drawer, 2 Doors; Midmark MC-SBP013-303624.....	894.75	98.91
12 35 70 13-0012 EA 36" High Base Storage Unit, 1 1/4" Drawer, 2 Doors; Midmark MC-SBP013-363624.....	908.08	98.91
12 35 70 13-0013 EA 36" High Base Storage Unit, 2 1/4" Drawer, 2 Doors; Midmark MC-SBP020-243624.....	835.77	79.13
12 35 70 13-0014 EA 36" High Base Storage Unit, 2 1/4" Drawer, 2 Doors; Midmark MC-SBP020-303624.....	973.16	98.91
12 35 70 13-0015 EA 36" High Base Storage Unit, 2 1/4" Drawer, 2 Doors; Midmark MC-SBP032-213624.....	1,002.17	98.91
12 35 70 13-0016 EA 36" High Base Storage Unit, 1 1/4" Drawer, 2 8" Drawers; Midmark MC-SBP024-123624.....	734.62	79.13
12 35 70 13-0017 EA 36" High Base Storage Unit, 1 1/4" Drawer, 2 8" Drawers; Midmark MC-SBP024-153624.....	755.01	79.13
12 35 70 13-0018 EA 36" High Base Storage Unit, 1 1/4" Drawer, 2 8" Drawers; Midmark MC-SBP024-183624.....	807.54	79.13
12 35 70 13-0019 EA 36" High Base Storage Unit, 2 1/4" Drawer, 2 8" Drawers; Midmark MC-SBP025-303624.....	1,334.62	98.91
12 35 70 13-0020 EA 36" High Base Storage Unit, 2 1/4" Drawer, 2 8" Drawers; Midmark MC-SBP025-363624.....	1,408.32	98.91
12 35 70 13-0021 EA 36" High Base Storage Unit, 5 1/4" Drawer; Midmark MC-SBP032-153624.....	940.05	79.13
12 35 70 13-0022 EA 36" High Base Storage Unit, 5 1/4" Drawer; Midmark MC-SBP032-183624.....	994.15	79.13
12 35 70 13-0023 EA 36" High Base Storage Unit, 5 1/4" Drawer; Midmark MC-SBP032-213624.....	1,087.46	79.13
12 35 70 13-0024 EA 84" High Tall Storage Unit, 2 Doors; Midmark MC-STP032-368424.....	1,937.28	237.39
12 35 70 13-0025 EA 84" High Tall Storage Unit, Open Upper With Pull Out Shelf, 1 1/4" Drawer, 2 Doors; Midmark MC-STP081-248424.....	1,785.95	237.39
12 35 70 13-0026 EA Desk Filler Panel; Midmark MC-SDA003-060501.....	76.23	19.78
12 35 70 13-0027 EA 30" High Overhead Unit, 1 Door; Midmark MC-SOHO41-123014.....	413.15	79.13
12 35 70 13-0028 EA 30" High Overhead Unit, 1 Door; Midmark MC-SOHO41-153014.....	406.09	79.13



Furnishings	12
Casework	12 30
Specialty Casework	12 35

12

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 35 70 13-0029 EA 30" High Overhead Unit, 1 Door; Midmark MC-SOHO41-183014.....	431.18	79.13
12 35 70 13-0030 EA 30" High Overhead Unit, 1 Door; Midmark MC-SOHO41-213014.....	464.90	79.13
12 35 70 13-0031 EA 30" High Overhead Unit, 2 Doors; Midmark MC-SOHO42-243014.....	503.32	79.13
12 35 70 13-0032 EA 30" High Overhead Unit, 2 Doors; Midmark MC-SOHO42-303014.....	578.77	98.91
12 35 70 13-0033 EA 30" High Overhead Unit, 2 Doors; Midmark MC-SOHO42-363014.....	625.03	98.91
12 35 70 13-0034 EA 30" High Overhead Unit, 2 Window Doors; Midmark MC-SOHO44-303014.....	759.89	98.91
12 35 70 13-0035 EA 30" High Overhead Unit, 2 Window Doors; Midmark MC-SOHO44-363014.....	841.43	98.91
12 35 70 13-0036 LF 19" Self Edge Laminate Countertop With Backsplash.....	103.47	13.30
12 35 70 13-0037 LF 25" Self Edge Laminate Countertop With Backsplash.....	200.67	17.72
12 35 70 13-0038 SF Melamine Wall Cabinet Inner Soffit.....	28.26	11.08
Note: Includes blocking		

12 35 70 19 Exam Room Casework (12 35 70)

12 35 70 19-0001	Medical Exam Room Cabinetwork	(12 35 70 19)		
12 35 70 19-0002	Medical Exam Room Wall Cabinets	(12 35 70 19-0001)		
12 35 70 19-0003	Medical Exam Room Wall Cabinets (Clinton Industries®)	(12 35 70 19-0002)		
Note: Include all laminate construction, chip resistant PVC edges, hinges, one shelf behind doors, mounting hardware, door pulls and flush-face doors.				
12 35 70 19-0004	EA 24" Width, 12" Height, 12" Depth, 2 Doors, Medical Exam Room Wall Cabinet (Clinton Industries® 8212).....		316.20	27.47
	For Additional Shelf, Add		27.16	
	For Lock And Inside Latch Combo For Double Doors, Add		63.17	
12 35 70 19-0005	EA 24" Width, 24" Height, 12" Depth, 2 Doors, Medical Exam Room Wall Cabinet (Clinton Industries® 8224).....		343.37	27.47
	For Additional Shelf, Add		27.16	
	For Lock And Inside Latch Combo For Double Doors, Add		63.17	
12 35 70 19-0006	EA 36" Width, 24" Height, 12" Depth, 2 Doors, Medical Exam Room Wall Cabinet (Clinton Industries® 8236).....		554.21	35.89
	For Additional Shelf, Add		27.16	
	For Lock And Inside Latch Combo For Double Doors, Add		63.51	
12 35 70 19-0007	EA 42" Width, 24" Height, 12" Depth, 2 Doors, Medical Exam Room Wall Cabinet (Clinton Industries® 8242).....		603.03	37.66
	For Additional Shelf, Add		27.16	
	For Lock And Inside Latch Combo For Double Doors, Add		63.58	
12 35 70 19-0008	EA 48" Width, 24" Height, 12" Depth, 2 Doors, Medical Exam Room Wall Cabinet (Clinton Industries® 8248).....		665.25	40.32
	For Additional Shelf, Add		27.16	
	For Lock And Inside Latch Combo For Double Doors, Add		63.68	
12 35 70 19-0009	EA 54" Width, 24" Height, 12" Depth, 3 Doors, Medical Exam Room Wall Cabinet (Clinton Industries® 8254).....		750.76	42.97
	For Additional Shelf, Add		27.16	
	For Lock For Single Door/Drawer, Add		43.10	
	For Lock And Inside Latch Combo For Double Doors, Add		63.79	
12 35 70 19-0010	EA 66" Width, 24" Height, 12" Depth, 3 Doors, Medical Exam Room Wall Cabinet (Clinton Industries® 8266).....		863.02	46.08
	For Additional Shelf, Add		27.16	
	For Lock For Single Door/Drawer, Add		43.22	
	For Lock And Inside Latch Combo For Double Doors, Add		63.91	
12 35 70 19-0011	EA 72" Width, 24" Height, 12" Depth, 3 Doors, Medical Exam Room Wall Cabinet (Clinton Industries® 8272).....		913.60	48.74
	For Additional Shelf, Add		27.16	
	For Lock For Single Door/Drawer, Add		43.33	
	For Lock And Inside Latch Combo For Double Doors, Add		64.02	
12 35 70 19-0012	Medical Exam Room Base Cabinets	(12 35 70 19-0001)		
12 35 70 19-0013	Medical Exam Room Base Cabinets (Ritter®)	(12 35 70 19-0012)		
Note: Include polymer covered drawers and door fronts, hinges, mounting hardware, door pulls, flush-face doors, Pebble Grey Kydex top.				
12 35 70 19-0014	EA 24" Width, 36" Height, 18" Depth, 2 Doors And 1 Drawer, Medical Exam Room Base Cabinet (Ritter® 2060).....		1,047.42	67.79
	For Lock For Single Door/Drawer, Add		44.09	
	For Soft Edge Top, Add		316.88	
12 35 70 19-0015	EA 24" Width, 36" Height, 18" Depth, 2 Doors And 2 Drawers, Medical Exam Room Base Cabinet (Ritter® 2061-001).....		1,082.34	67.79
	For Lock For Single Door/Drawer, Add		44.09	
	For Soft Edge Top, Add		316.88	
12 35 70 19-0016	EA 24" Width, 36" Height, 18" Depth, 5 Drawers, Medical Exam Room Base Cabinet (Ritter® 2062-001).....		1,211.68	67.79
	For Lock For Single Door/Drawer, Add		44.09	
	For Soft Edge Top, Add		316.88	
12 35 70 19-0017	EA 24" Width, 36" Height, 24" Depth, 2 Doors And 2 Drawers, Medical Exam Room Base Cabinet (Ritter® 2061-002).....		1,222.03	67.79
	For Lock For Single Door/Drawer, Add		44.09	
	For Soft Edge Top, Add		316.88	
12 35 70 19-0018	EA 24" Width, 36" Height, 24" Depth, 5 Drawers, Medical Exam Room Base Cabinet (Ritter® 2062-002).....		1,377.23	67.79
	For Lock For Single Door/Drawer, Add		44.09	
	For Soft Edge Top, Add		316.88	
12 35 70 19-0019	Medical Exam Room Base Cabinets (Clinton Industries®)	(12 35 70 19-0012)		
Note: Include all laminate construction, chip resistant PVC edges, hinges, one shelf behind doors, mounting hardware, door pulls, flush-face doors and countertop.				
12 35 70 19-0020	EA 24" Width, 35" Height, 18" Depth, 2 Doors, Medical Exam Room Base Cabinet With Sink And Desk (Clinton Industries® 76).....		577.21	110.77
Note: Includes stainless steel sink and faucet.				
	For Additional Shelf, Add		27.16	
	For Lock For Single Door/Drawer, Add		45.80	
	For Lock And Inside Latch Combo For Double Doors, Add		66.49	

12 Furnishings

12 30 Casework

12 35 Specialty Casework



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 35 70	19-0021	EA	24" Width, 35" Height, 18" Depth, 2 Doors And 1 Drawer, Medical Exam Room Base Cabinet (Clinton Industries® 8024).....	743.47	67.79
			<i>For Additional Shelf, Add</i>	27.16	
			<i>For Lock For Single Door/Drawer, Add</i>	44.09	
			<i>For Lock And Inside Latch Combo For Double Doors, Add</i>	64.78	
12 35 70	19-0022	EA	36" Width, 35" Height, 18" Depth, 2 Doors And 2 Drawers, Medical Exam Room Base Cabinet (Clinton Industries® 8036).....	1,064.25	76.21
			<i>For Additional Shelf, Add</i>	27.16	
			<i>For Lock For Single Door/Drawer, Add</i>	44.42	
			<i>For Lock And Inside Latch Combo For Double Doors, Add</i>	65.11	
12 35 70	19-0023	EA	42" Width, 35" Height, 18" Depth, 3 Doors And 2 Drawers, Medical Exam Room Base Cabinet (Clinton Industries® 8042).....	1,151.68	82.41
			<i>For Additional Shelf, Add</i>	27.16	
			<i>For Lock For Single Door/Drawer, Add</i>	44.67	
			<i>For Lock And Inside Latch Combo For Double Doors, Add</i>	65.36	
12 35 70	19-0024	EA	48" Width, 35" Height, 18" Depth, 4 Doors And 2 Drawers, Medical Exam Room Base Cabinet (Clinton Industries® 8048).....	1,258.31	93.05
			<i>For Additional Shelf, Add</i>	27.16	
			<i>For Lock For Single Door/Drawer, Add</i>	45.09	
			<i>For Lock And Inside Latch Combo For Double Doors, Add</i>	65.78	
12 35 70	19-0025	EA	54" Width, 35" Height, 18" Depth, 3 Doors And 3 Drawers, Medical Exam Room Base Cabinet (Clinton Industries® 8054).....	1,509.58	99.69
			<i>For Additional Shelf, Add</i>	27.16	
			<i>For Lock For Single Door/Drawer, Add</i>	45.36	
			<i>For Lock And Inside Latch Combo For Double Doors, Add</i>	66.05	
12 35 70	19-0026	EA	66" Width, 35" Height, 18" Depth, 3 Doors And 3 Drawers, Medical Exam Room Base Cabinet (Clinton Industries® 8066).....	1,666.44	106.33
			<i>For Additional Shelf, Add</i>	27.16	
			<i>For Lock For Single Door/Drawer, Add</i>	45.62	
			<i>For Lock And Inside Latch Combo For Double Doors, Add</i>	66.31	
12 35 70	19-0027	EA	66" Width, 35" Height, 18" Depth, 3 Doors And 3 Drawers, Medical Exam Room Base Cabinet With Sink And Desk (Clinton Industries® 8042-99).....	1,792.36	155.08
			Note: Includes stainless steel sink and faucet.		
			<i>For Additional Shelf, Add</i>	27.16	
			<i>For Lock For Single Door/Drawer, Add</i>	47.56	
			<i>For Lock And Inside Latch Combo For Double Doors, Add</i>	68.25	
12 35 70	19-0028	EA	72" Width, 35" Height, 18" Depth, 6 Doors And 3 Drawers, Medical Exam Room Base Cabinet (Clinton Industries® 8072).....	1,776.74	112.98
			<i>For Additional Shelf, Add</i>	27.16	
			<i>For Lock For Single Door/Drawer, Add</i>	45.88	
			<i>For Lock And Inside Latch Combo For Double Doors, Add</i>	66.57	
12 35 70	19-0029	EA	72" Width, 35" Height, 18" Depth, 2 Doors And 6 Drawers, Medical Exam Room Base Cabinet With Sink And Desk (Clinton Industries® 8048-99).....	2,048.08	163.94
			Note: Includes stainless steel sink and faucet.		
			<i>For Additional Shelf, Add</i>	27.16	
			<i>For Lock For Single Door/Drawer, Add</i>	47.91	
			<i>For Lock And Inside Latch Combo For Double Doors, Add</i>	68.60	
12 35 70	19-0030		Medical Exam Room Cabinet Combinations (12 35 70 19-0001)		
12 35 70	19-0031		Medical Exam Room Cabinet Combinations (Ritter®) (12 35 70 19-0030)		
			Note: Includes base cabinet and overhead cabinet, powder coated steel shell, polymer covered drawers and door fronts, hinges, mounting hardware, door pulls, flush-face doors and laminate countertop.		
12 35 70	19-0032	EA	48" Width, 36" Height, 18" Depth, 1 Door And 1 Drawer, Medical Exam Room Base Cabinet With Overhead Cabinet (Ritter® Basic).....	1,709.26	132.92
			<i>For Locks On Single Drawer And All Doors, Add</i>	412.76	
12 35 70	19-0033	EA	48" Width, 36" Height, 18" Depth, 2 Doors And 1 Drawer, Medical Exam Room Base Cabinet With Overhead Cabinet (Ritter® Basic).....	1,759.71	132.92
			<i>For Locks On Single Drawer And All Doors, Add</i>	412.76	
12 35 70	19-0034	EA	48" Width, 36" Height, 18" Depth, 1 Door And 1 Drawer, Medical Exam Room Base Cabinet With Sink And Overhead Cabinet (Ritter® Basic).....	2,141.01	168.36
			Note: Includes stainless steel sink and faucet.		
			<i>For Locks On Single Drawer And All Doors, Add</i>	414.87	
12 35 70	19-0035	EA	48" Width, 36" Height, 18" Depth, 2 Doors And 1 Drawer, Medical Exam Room Base Cabinet With Sink And Overhead Cabinet (Ritter® Basic).....	2,213.44	168.36
			Note: Includes stainless steel sink and faucet.		
			<i>For Locks On Single Drawer And All Doors, Add</i>	414.87	
12 35 70	19-0036	EA	48" Width, 36" Height, 18" Depth, 1 Door And 2 Drawers, Medical Exam Room Base Cabinet With Overhead Cabinet (Ritter® Basic Value).....	1,966.65	132.92
			<i>For Locks On Single Drawer And All Doors, Add</i>	412.76	
12 35 70	19-0037	EA	48" Width, 36" Height, 18" Depth, 2 Doors And 2 Drawers, Medical Exam Room Base Cabinet With Overhead Cabinet (Ritter® Basic Value).....	2,018.38	132.92
			<i>For Locks On Single Drawer And All Doors, Add</i>	412.76	
12 35 70	19-0038	EA	48" Width, 36" Height, 18" Depth, 1 Door And 2 Drawers, Medical Exam Room Base Cabinet With Sink And Overhead Cabinet (Ritter® Basic Value).....	2,552.31	168.36
			Note: Includes stainless steel sink and faucet.		
			<i>For Locks On Single Drawer And All Doors, Add</i>	414.87	
12 35 70	19-0039	EA	48" Width, 36" Height, 18" Depth, 2 Doors And 2 Drawers, Medical Exam Room Base Cabinet With Sink And Overhead Cabinet (Ritter® Basic Value).....	2,601.46	168.36
			Note: Includes stainless steel sink and faucet.		
			<i>For Locks On Single Drawer And All Doors, Add</i>	414.87	
12 35 70	19-0040	EA	48" Width, 36" Height, 18" Depth, 1 Door And 4 Drawers, Medical Exam Room Base Cabinet With Overhead Cabinet (Ritter® Managed Care).....	2,222.74	132.92
			<i>For Locks On Single Drawer And All Doors, Add</i>	412.76	



		Furnishings	12
		Casework	12 30
		Specialty Casework	12 35

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 35 70	19-0041	EA	48" Width, 36" Height, 18" Depth, 2 Doors And 4 Drawers, Medical Exam Room Base Cabinet With Overhead Cabinet (Ritter® Managed Care).....	2,277.06	132.92
			<i>For Locks On Single Drawer And All Doors, Add</i>	412.76	
12 35 70	19-0042	EA	48" Width, 36" Height, 18" Depth, 1 Door And 4 Drawers, Medical Exam Room Base Cabinet With Sink And Overhead Cabinet (Ritter® Managed Care).....	2,809.69	168.36
			Note: Includes stainless steel sink and faucet.		
			<i>For Locks On Single Drawer And All Doors, Add</i>	414.87	
12 35 70	19-0043	EA	48" Width, 36" Height, 18" Depth, 2 Doors And 4 Drawers, Medical Exam Room Base Cabinet With Sink And Overhead Cabinet (Ritter® Managed Care).....	2,862.72	168.36
			Note: Includes stainless steel sink and faucet.		
			<i>For Locks On Single Drawer And All Doors, Add</i>	414.87	
12 35 70	19-0044	EA	48" Width, 36" Height, 18" Depth, 1 Door And 4 Drawers, Medical Exam Room Base Cabinet With Desk And Overhead Cabinet (Ritter® Traditional).....	2,516.86	150.64
			<i>For Locks On Single Drawer And All Doors, Add</i>	413.82	
12 35 70	19-0045	EA	48" Width, 36" Height, 18" Depth, 2 Doors And 4 Drawers, Medical Exam Room Base Cabinet With Desk And Overhead Cabinet (Ritter® Traditional).....	2,566.01	150.64
			<i>For Locks On Single Drawer And All Doors, Add</i>	413.82	
12 35 70	19-0046	EA	48" Width, 36" Height, 18" Depth, 1 Door And 4 Drawers, Medical Exam Room Base Cabinet With Sink, Desk And Overhead Cabinet (Ritter® Traditional).....	3,102.52	186.09
			Note: Includes stainless steel sink and faucet.		
			<i>For Locks On Single Drawer And All Doors, Add</i>	415.93	
12 35 70	19-0047	EA	48" Width, 36" Height, 18" Depth, 2 Doors And 4 Drawers, Medical Exam Room Base Cabinet With Sink, Desk And Overhead Cabinet (Ritter® Traditional).....	3,160.72	186.09
			Note: Includes stainless steel sink and faucet.		
			<i>For Locks On Single Drawer And All Doors, Add</i>	415.93	

12 36 Countertops (12 30)

12 36 23 Plastic Countertops (12 36)

12 36 23 13 Plastic-Laminate-Clad Countertops (12 36 23)

12 36 23 13-0001 Plastic Laminate Countertops (12 36 23 13)

Note: Includes plywood, medium-density fiberboard (MDF), or particleboard substrates, finished ends, and all edge types such as bullnose, ogee, roundover, bevel, etc.

12 36 23 13-0002	SF	Plastic Laminate Countertop Without Backsplash.....	14.54	8.86
12 36 23 13-0003	SF	Plastic Laminate Countertop With 4" Backsplash.....	19.16	8.86
12 36 23 13-0004	LF	Plastic Laminate End Splash For Plastic Laminate Countertops.....	19.66	2.66
12 36 23 13-0005	EA	Cutout For Sink And/Or Faucet In Plastic Laminate Countertop.....	73.85	

12 36 53 Laboratory Countertops (12 36)

12 36 53 00-0001 Epoxy Resin Laboratory Countertops (12 36 53)

Note: Includes all finish edge types, and all holes for faucets, fixtures, outlets, etc. Excludes cut out for sinks.

12 36 53 00-0002	SF	3/4" Thick, Black Epoxy Resin Laboratory Countertop Without Backsplash, Machined Bevel Or Radius Edges.....	36.98	4.44
12 36 53 00-0003	SF	1" Thick, Black Epoxy Resin Laboratory Countertop Without Backsplash, Machined Bevel Or Radius Edges.....	38.12	4.44
12 36 53 00-0004	SF	1-1/4" Thick, Black Epoxy Resin Laboratory Countertop Without Backsplash, Machined Bevel Or Radius Edges.....	45.98	4.44
12 36 53 00-0005	LF	4" x 3/4" Thick, Black Epoxy Resin Backsplash For Laboratory Countertop.....	14.49	2.66
12 36 53 00-0006	LF	6" x 3/4" Thick, Black Epoxy Resin Backsplash For Laboratory Countertop.....	19.08	2.66

12 36 53 00-0007 Epoxy Resin Laboratory Sinks (12 36 53)

Note: Includes cut out for sinks, and sink strainer assembly set.

12 36 53 00-0008 Epoxy Resin Laboratory Undermount Sink (12 36 53 00-0007)

12 36 53 00-0009	EA	12" Length x 8" Width x 6" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	431.22	94.97
12 36 53 00-0010	EA	12" Length x 8" Width x 7" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	436.94	94.97
12 36 53 00-0011	EA	12" Length x 12" Width x 8" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	498.10	94.97
12 36 53 00-0012	EA	14" Length x 10" Width x 6" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	436.94	94.97
12 36 53 00-0013	EA	16" Length x 8" Width x 7" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	464.94	102.96
12 36 53 00-0014	EA	16" Length x 12" Width x 8" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	485.32	102.96
12 36 53 00-0015	EA	16" Length x 16" Width x 12" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	908.86	102.96
12 36 53 00-0016	EA	18" Length x 15" Width x 11" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	531.91	102.96
12 36 53 00-0017	EA	24" Length x 16" Width x 8" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	554.11	110.06
12 36 53 00-0018	EA	24" Length x 16" Width x 10" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	659.22	110.06
12 36 53 00-0019	EA	24" Length x 16" Width x 12" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	771.32	110.06
12 36 53 00-0020	EA	30" Length x 18" Width x 18" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	1,571.41	110.06
12 36 53 00-0021	EA	31" Length x 21" Width x 12" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	853.65	110.06
12 36 53 00-0022	EA	36" Length x 20" Width x 16" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	1,681.09	110.06
12 36 53 00-0023	EA	42" Length x 20" Width x 10" Depth, Black Epoxy Resin Laboratory Undermount Sink.....	2,268.86	112.72

12 36 53 00-0024 Epoxy Resin Laboratory Drop-in Sink (12 36 53 00-0007)

12 36 53 00-0025	EA	9" Length x 6" Width x 6" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	430.36	94.97
12 36 53 00-0026	EA	12" Length x 8" Width x 6" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	431.21	94.97
12 36 53 00-0027	EA	12" Length x 12" Width x 12" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	489.84	94.97
12 36 53 00-0028	EA	14" Length x 10" Width x 6" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	436.94	94.97
12 36 53 00-0029	EA	15" Length x 8" Width x 6" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	456.01	94.97
12 36 53 00-0030	EA	15" Length x 8" Width x 11" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	456.01	94.97
12 36 53 00-0031	EA	16" Length x 8" Width x 7" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	464.94	102.96
12 36 53 00-0032	EA	16" Length x 12" Width x 8" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	485.32	102.96
12 36 53 00-0033	EA	16" Length x 16" Width x 9-5/8" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	497.00	102.96

12 Furnishings**12 30 Casework****12 36 Countertops**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 36 53 00-0034	EA		18" Length x 15" Width x 8" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	499.91	102.96
12 36 53 00-0035	EA		18" Length x 15" Width x 11" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	570.36	102.96
12 36 53 00-0036	EA		24" Length x 16" Width x 8" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	592.56	110.06
12 36 53 00-0037	EA		25" Length x 15" Width x 8" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	603.41	110.06
12 36 53 00-0038	EA		25" Length x 15" Width x 10" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	607.09	110.06
12 36 53 00-0039	EA		30" Length x 16" Width x 10" Depth, Black Epoxy Resin Laboratory Drop-in Sink.....	850.82	110.06
12 36 53 00-0040	EA		10" Diameter x 7.8" Depth, Black Round Epoxy Resin Laboratory Drop-in Sink.....	434.63	94.08
12 36 53 00-0041	EA		12" Diameter x 7.8" Depth, Black Round Epoxy Resin Laboratory Drop-in Sink.....	444.51	94.08
12 36 53 00-0042			Epoxy Resin Laboratory ADA Drop-in Sink (12 36 53 00-0007)		
12 36 53 00-0043	EA		14" Length x 10" Width x 5" Depth, Black Epoxy Resin Laboratory ADA Drop-in Sink.....	432.50	94.08
12 36 53 00-0044	EA		14" Length x 14" Width x 5" Depth, Black Epoxy Resin Laboratory ADA Drop-in Sink.....	459.49	94.08
12 36 53 00-0045	EA		14" Length x 15" Width x 5" Depth, Black Epoxy Resin Laboratory ADA Drop-in Sink.....	473.29	94.08
12 36 53 00-0046	EA		25" Length x 15" Width x 5" Depth, Black Epoxy Resin Laboratory ADA Drop-in Sink.....	607.09	110.06
12 36 53 00-0047			Epoxy Resin Laboratory Cup Sink (12 36 53 00-0007)		
12 36 53 00-0048	EA		6" Length x 3" Width x 4" Depth, Black Oval Epoxy Resin Laboratory Cup Sink.....	304.66	76.33
12 36 53 00-0049			Polypropylene Laboratory Countertops (12 36 53)		
			Note: Includes all finish edge types, and all holes for faucets, fixtures, outlets, etc. Excludes cut out for sinks.		
12 36 53 00-0050	SF		3/4" Thick, Black Polypropylene Laboratory Countertop Without Backsplash, Machined Bevel Or Radius Edges.....	17.90	4.44
12 36 53 00-0051	SF		1" Thick, Black Polypropylene Laboratory Countertop Without Backsplash, Machined Bevel Or Radius Edges.....	19.58	4.44
12 36 53 00-0052	SF		1-1/4" Thick, Black Polypropylene Laboratory Countertop Without Backsplash, Machined Bevel Or Radius Edges.....	21.74	4.44
12 36 53 00-0053	LF		4" x 3/4" Thick, Black Polypropylene Backsplash For Laboratory Countertop.....	8.13	2.66
12 36 53 00-0054	LF		6" x 3/4" Thick, Black Polypropylene Backsplash For Laboratory Countertop.....	9.53	2.66
12 36 53 00-0055			Polypropylene Laboratory Sinks (12 36 53)		
			Note: Includes cut out for sinks, and sink strainer assembly set.		
12 36 53 00-0056			Polypropylene Laboratory Undermount Sink (12 36 53 00-0055)		
12 36 53 00-0057	EA		12" Length x 8" Width x 8" Depth, Black Polypropylene Laboratory Undermount Sink.....	454.00	94.97
12 36 53 00-0058	EA		12" Length x 12" Width x 8" Depth, Black Polypropylene Laboratory Undermount Sink.....	473.37	94.97
12 36 53 00-0059	EA		14" Length x 10" Width x 6" Depth, Black Polypropylene Laboratory Undermount Sink.....	468.61	94.97
12 36 53 00-0060	EA		16" Length x 8" Width x 7" Depth, Black Polypropylene Laboratory Undermount Sink.....	495.55	102.96
12 36 53 00-0061	EA		16" Length x 13" Width x 6" Depth, Black Polypropylene Laboratory Undermount Sink.....	588.04	102.96
12 36 53 00-0062	EA		17" Length x 17" Width x 12" Depth, Black Polypropylene Laboratory Undermount Sink.....	592.87	102.96
12 36 53 00-0063	EA		18" Length x 15" Width x 12" Depth, Black Polypropylene Laboratory Undermount Sink.....	592.87	102.96
12 36 53 00-0064	EA		24" Length x 16" Width x 8" Depth, Black Polypropylene Laboratory Undermount Sink.....	634.56	110.06
12 36 53 00-0065	EA		25" Length x 15" Width x 10" Depth, Black Polypropylene Laboratory Undermount Sink.....	659.01	110.06
12 36 53 00-0066	EA		23" Length x 17" Width x 11-1/2" Depth, Black Polypropylene Laboratory Undermount Sink.....	634.56	110.06
12 36 53 00-0067	EA		30" Length x 18" Width x 18" Depth, Black Polypropylene Laboratory Undermount Sink.....	926.66	110.06
12 36 53 00-0068	EA		31" Length x 20.5" Width x 11-1/2" Depth, Black Polypropylene Laboratory Undermount Sink.....	922.32	110.06
12 36 53 00-0069	EA		42" Length x 18" Width x 16" Depth, Black Polypropylene Laboratory Undermount Sink.....	1,538.08	112.72
12 36 53 00-0070			Polypropylene Laboratory Drop-in Sink (12 36 53 00-0055)		
12 36 53 00-0071	EA		11" Length x 11" Width x 7" Depth, Black Polypropylene Laboratory Drop-in Sink.....	405.34	94.97
12 36 53 00-0072	EA		12" Length x 8" Width x 8" Depth, Black Polypropylene Laboratory Drop-in Sink.....	589.14	94.97
12 36 53 00-0073	EA		12" Length x 12" Width x 8" Depth, Black Polypropylene Laboratory Drop-in Sink.....	424.69	94.97
12 36 53 00-0074	EA		14" Length x 10" Width x 6" Depth, Black Polypropylene Laboratory Drop-in Sink.....	419.94	94.97
12 36 53 00-0075	EA		17" Length x 17" Width x 12" Depth, Black Polypropylene Laboratory Drop-in Sink.....	544.20	102.96
12 36 53 00-0076	EA		16" Length x 8" Width x 7" Depth, Black Polypropylene Laboratory Drop-in Sink.....	446.87	102.96
12 36 53 00-0077	EA		18" Length x 12" Width x 8" Depth, Black Polypropylene Laboratory Drop-in Sink.....	544.20	102.96
12 36 53 00-0078	EA		16" Length x 16" Width x 8" Depth, Black Polypropylene Laboratory Drop-in Sink.....	534.42	102.96
12 36 53 00-0079	EA		18" Length x 15" Width x 8" Depth, Black Polypropylene Laboratory Drop-in Sink.....	524.91	102.96
12 36 53 00-0080	EA		18" Length x 15" Width x 12" Depth, Black Polypropylene Laboratory Drop-in Sink.....	544.20	102.96
12 36 53 00-0081	EA		24" Length x 16" Width x 8" Depth, Black Polypropylene Laboratory Drop-in Sink.....	585.89	110.06
12 36 53 00-0082	EA		25" Length x 15" Width x 10" Depth, Black Polypropylene Laboratory Drop-in Sink.....	610.33	110.06
12 36 53 00-0083	EA		31" Length x 17" Width x 10" Depth, Black Polypropylene Laboratory Drop-in Sink.....	849.06	110.06
12 36 53 00-0084	EA		12" Diameter x 7.8" Depth, Black Round Polypropylene Laboratory Drop-in Sink.....	383.89	94.08
12 36 53 00-0085			Polypropylene Laboratory ADA Drop-in Sink (12 36 53 00-0055)		
12 36 53 00-0086	EA		16" Length x 16" Width x 5.5" Depth, Black Polypropylene Laboratory ADA Drop-in Sink.....	524.91	102.96
12 36 53 00-0087	EA		25" Length x 15" Width x 5.5" Depth, Black Polypropylene Laboratory ADA Drop-in Sink.....	599.38	110.06
12 36 53 00-0088			Polypropylene Laboratory Cup Sink (12 36 53 00-0055)		
12 36 53 00-0089	EA		6" Length x 3" Width x 4" Depth, Black Oval Polypropylene Laboratory Cup Sink.....	322.86	94.08
12 36 53 00-0090			Phenolic Resin Laboratory Countertops (12 36 53)		
			Note: Includes all finish edge types, and all holes for faucets, fixtures, outlets, etc. Excludes cut out for sinks.		
12 36 53 00-0091	SF		3/4" Thick, Black Phenolic Resin Laboratory Countertop Without Backsplash, Machined Bevel Or Radius Edges.....	26.88	4.44
12 36 53 00-0092	SF		1" Thick, Black Phenolic Resin Laboratory Countertop Without Backsplash, Machined Bevel Or Radius Edges.....	29.98	4.44
12 36 53 00-0093	SF		1-1/4" Thick, Black Phenolic Resin Laboratory Countertop Without Backsplash, Machined Bevel Or Radius Edges.....	32.14	4.44



Furnishings	12
Casework	12 30
Countertops	12 36

12

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 36 53 00-0094	LF		4" x 3/4" Thick, Black Phenolic Resin Backsplash For Laboratory Countertop	10.79	2.66
12 36 53 00-0095	LF		6" x 3/4" Thick, Black Phenolic Resin Backsplash For Laboratory Countertop	13.49	2.66
12 36 53 00-0096			High Pressure Laminate Laboratory Countertops (12 36 53) Note: Includes all finish edge types, and all holes for faucets, fixtures, outlets, etc. Excludes cut out for sinks.		
12 36 53 00-0097	SF		3/4" Thick, High Pressure Laminate Laboratory Countertop Without Backsplash, Machined Bevel Edges	16.85	4.44
12 36 53 00-0098	SF		1" Thick, High Pressure Laminate Laboratory Countertop Without Backsplash, Machined Bevel Edges	17.56	4.44
12 36 53 00-0099	SF		1-1/4" Thick, High Pressure Laminate Laboratory Countertop Without Backsplash, Machined Bevel Edges	17.56	4.44
12 36 53 00-0100	LF		4" x 3/4" Thick, High Pressure Laminate Backsplash For Laboratory Countertop	9.37	2.66
12 36 53 00-0101	LF		6" x 3/4" Thick, High Pressure Laminate Backsplash For Laboratory Countertop	9.37	2.66
12 36 61			Simulated Stone Countertops (12 36)		
12 36 61 16			Solid Surfacing Countertops (12 36 61)		
12 36 61 16-0001			Solid Surface Countertops (12 36 61 16)		
12 36 61 16-0002			Solid Surface Countertops (12 36 61 16-0001) Note: Includes finished ends and all edge types such as bullnose, ogee, roundover, bevel, etc.		
12 36 61 16-0003	SF		1/4" Thick, Solid Color, Solid Surface Backsplash	31.39	5.91
			Note: Quantity based on area of backsplash. Excludes backing material such as cement or water resistant gypsum board.		
			For Up To 50, Add	10.23	
			For >50 To 100, Add	5.95	
12 36 61 16-0004	SF		1/2" Thick, Solid Color, Solid Surface Countertop Without Backsplash	50.76	8.86
			Note: Quantity based on area of counter, backsplash and apron. Includes drilling holes for fixtures and 1-1/2" drop edge with 1/8" radius edges (when apron not used).		
			For Up To 50, Add	16.26	
			For >50 To 100, Add	9.74	
			For Integral 16-7/16" x 13" x 5-1/4" Depth Lavatory Sink (Corian 810), Add	143.62	
			For Integral 20-7/16" x 14-7/16" x 6-1/8" Depth Lavatory Sink (Corian 815), Add	181.60	
			For Integral 17-3/8" x 10-13/16" x 5-1/2" Depth Lavatory Sink (Corian 816), Add	132.57	
			For Integral 14-3/4" x 10-1/2" x 5-1/2" Depth Lavatory Sink (Corian 820), Add	126.36	
			For Integral 18-7/8" x 13-3/4" x 5-7/8" Depth Lavatory Sink (Corian 830), Add	181.60	
			For Integral 20" x 13-3/8" x 6-1/4" Depth Lavatory Sink (Corian 831), Add	181.60	
			For Integral 19-3/4" x 14-1/4" x 5-7/8" Depth Lavatory Sink (Corian 835), Add	181.60	
			For Integral 17" x 14" x 6" Depth Lavatory Sink (Corian 837), Add	181.60	
			For Up To 1.5 SF Integral Single Basin Kitchen Sink, Add	163.64	
			Note: Single or double bowl.		
			For >1.5 To 2.25 SF Integral Single Basin Kitchen Sink, Add	284.48	
			Note: Single or double bowl.		
			For >2.25 To 3 SF Integral Single Basin Kitchen Sink, Add	381.14	
			Note: Single or double bowl.		
			For >3 SF Integral Single Basin Kitchen Sink, Add	412.91	
			Note: Single or double bowl.		
			For >3 SF Integral Double Basin Kitchen Sink, Add	412.91	
12 36 61 16-0005	SF		1/2" Thick, Solid Color, Solid Surface Countertop With 4" Backsplash	56.07	8.86
			For Up To 50, Add	17.85	
			For >50 To 100, Add	10.80	
			For Integral 16-7/16" x 13" x 5-1/4" Depth Lavatory Sink (Corian 810), Add	143.62	
			For Integral 20-7/16" x 14-7/16" x 6-1/8" Depth Lavatory Sink (Corian 815), Add	181.60	
			For Integral 17-3/8" x 10-13/16" x 5-1/2" Depth Lavatory Sink (Corian 816), Add	132.57	
			For Integral 14-3/4" x 10-1/2" x 5-1/2" Depth Lavatory Sink (Corian 820), Add	126.36	
			For Integral 18-7/8" x 13-3/4" x 5-7/8" Depth Lavatory Sink (Corian 830), Add	181.60	
			For Integral 20" x 13-3/8" x 6-1/4" Depth Lavatory Sink (Corian 831), Add	181.60	
			For Integral 19-3/4" x 14-1/4" x 5-7/8" Depth Lavatory Sink (Corian 835), Add	181.60	
			For Integral 17" x 14" x 6" Depth Lavatory Sink (Corian 837), Add	181.60	
			For Up To 1.5 SF Integral Single Basin Kitchen Sink, Add	163.64	
			Note: Single or double bowl.		
			For >1.5 To 2.25 SF Integral Single Basin Kitchen Sink, Add	284.48	
			Note: Single or double bowl.		
			For >2.25 To 3 SF Integral Single Basin Kitchen Sink, Add	381.14	
			Note: Single or double bowl.		
			For >3 SF Integral Single Basin Kitchen Sink, Add	412.91	
			Note: Single or double bowl.		
			For >3 SF Integral Double Basin Kitchen Sink, Add	412.91	
12 36 61 16-0006	LF		1/2" Thick, Solid Color, Solid Surface End Splash For Solid Surface Countertops	17.85	3.76
12 36 61 16-0007	EA		Cutout For Undercounter Sink In Solid Surface Countertop	132.92	
			Note: Not including integral seamed sinks		
12 36 61 16-0008			Integral Seamless Solid Surface Lavatory (12 36 61 16-0001) Note: Includes sink cutout and hard seam of lavatory to countertop See CSI section 12 36 61 16-0002 for Solid Surface Countertops.		
12 36 61 16-0009	EA		16-1/2" x 13-1/8" x 5-1/2" Depth, Integral Solid Surface Lavatory Sink (Corian 810)	173.75	
12 36 61 16-0010	EA		20-7/16" x 14-7/16" x 6-1/8" Depth, Integral Solid Surface Lavatory Sink (Corian 815)	211.73	
12 36 61 16-0011	EA		17-3/8" x 10-13/16" x 5-1/2" Depth, Integral Solid Surface Lavatory Sink (Corian 816)	162.70	
12 36 61 16-0012	EA		14-3/4" x 10-1/2" x 5-1/2" Depth, Integral Solid Surface Lavatory Sink (Corian 820)	156.49	
12 36 61 16-0013	EA		18-7/8" x 13-3/4" x 5-7/8" Depth, Integral Solid Surface Lavatory Sink (Corian 830)	211.73	
12 36 61 16-0014	EA		20" x 13-3/8" x 6-1/4" Depth, Integral Solid Surface Lavatory Sink (Corian 831)	211.73	
12 36 61 16-0015	EA		19-3/4" x 14-1/4" x 5-7/8" Depth, Integral Solid Surface Lavatory Sink (Corian 835)	211.73	
12 36 61 16-0016	EA		17" x 14" x 6" Depth, Integral Solid Surface Lavatory Sink (Corian 837)	211.73	

12	12	Furnishings
	12 30	Casework
	12 36	Countertops



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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12 36 61 16-0017	Integral Seamless Solid Surface Kitchen Sink <small>(12 36 61 16-0001)</small>		
	<small>Note: Includes sink cutout and hard seam of sink to countertop See CSI section 12 36 61 16-0002 for Solid Surface Countertops.</small>		
12 36 61 16-0018	EA Up To 1.5 SF, Single Basin, Integral Solid Surface Kitchen Sink	234.53	
12 36 61 16-0019	EA >1.5 To 2.25 SF, Single Basin, Integral Solid Surface Kitchen Sink	355.37	
12 36 61 16-0020	EA >2.25 To 3.0 SF, Single Basin, Integral Solid Surface Kitchen Sink	452.03	
12 36 61 16-0021	EA >3.0 SF, Single Basin, Integral Solid Surface Kitchen Sink.....	483.80	
12 36 61 16-0022	EA >3.0 SF, Double Basin, Integral Solid Surface Kitchen Sink	483.80	

12 36 61 19 Quartz Agglomerate Countertops (12 36 61)

12 36 61 19-0001	Quartz Agglomerate Countertops <small>(12 36 61 19)</small>		
	<small>Note: Includes finished ends and all edge types such as bullnose, ogee, roundover, bevel, etc.</small>		
12 36 61 19-0002	SF 3/4" Thick, Quartz Agglomerate Countertop Without Backsplash	75.36	19.49
12 36 61 19-0003	SF 1-1/4" Thick, Quartz Agglomerate Countertop Without Backsplash	89.71	19.49
12 36 61 19-0004	SF 3/4" Thick, Quartz Agglomerate Countertop With Backsplash	84.58	22.70
12 36 61 19-0005	SF 1-1/4" Thick, Quartz Agglomerate Countertop With Backsplash	98.92	22.70
12 36 61 19-0006	LF Quartz Agglomerate Countertop End Splash For Quartz Agglomerate Countertops	13.69	3.76
12 36 61 19-0007	EA Cutout For Sink And/Or Faucet In Quartz Agglomerate Countertop	132.92	

12 40 Furnishings And Accessories (12)

12 41 Office Accessories (12 40)

12 41 11 Office Accessories (12 41)

12 41 11 00-0001	Wall Mounted Office Accessories <small>(12 41 11)</small>		
12 41 11 00-0002	EA Manual Pencil Sharpener, Wall Mounted (Bostitch® BOSMPS1BLK)	16.01	3.00
12 41 11 00-0003	EA Wall Mounted Flag	12.21	3.00

12 48 Rugs And Mats (12 40)

12 48 13 Entrance Floor Mats And Frames (12 48)

12 48 13 13 Entrance Floor Mats (12 48 13)

12 48 13 13-0001	Floor Mats <small>(12 48 13 13)</small>		
12 48 13 13-0002	SF 3/8" Thick Solid Recessable Floor Mat.....	12.62	2.09
	<small>For Colors, Add</small>	1.69	
12 48 13 13-0003	SF 1/2" Thick Solid Recessable Floor Mat.....	15.22	2.09
	<small>For Colors, Add</small>	2.21	
12 48 13 13-0004	SF 3/8" Thick Perforated Recessable Floor Mat.....	13.27	2.09
	<small>For Colors, Add</small>	1.82	
12 48 13 13-0005	SF 1/2" Thick Perforated Recessable Floor Mat.....	15.87	2.09
	<small>For Colors, Add</small>	2.34	

12 48 13 13-0006 Link Mats (12 48 13 13)

	<small>Note: Includes nosing.</small>		
12 48 13 13-0007	SF 3/8" Link Mats, Aluminum.....	29.99	2.09
12 48 13 13-0008	SF Black Rubber Link Mats With Galvanized Tie Rods.....	13.11	2.09
12 48 13 13-0009	SF 3/8" Thick, Galvanized Steel Link Mats.....	13.67	2.09
12 48 13 13-0010	SF Vinyl Link Mats, Color	14.07	2.09
12 48 13 13-0011	LF Rubber Nosing	4.12	0.92

12 48 13 13-0012 Duckboard (12 48 13 13)

12 48 13 13-0013	SF Aluminum Slats	42.91	2.30
12 48 13 13-0014	SF Hardwood Strips On Rubber Base	13.23	2.30
12 48 13 13-0015	SF Assembled With Brass Rods And Vinyl Spacers.....	14.50	2.30
12 48 13 13-0016	SF Tire Fabric, 3/4" Thick	14.61	2.30
12 48 13 13-0017	SF Vinyl, 36" Wide, Hollow Top And Bottom	7.10	2.30
12 48 13 13-0018	SF Vinyl, 36" Wide, Solid Top And Bottom	9.08	2.30

12 48 13 16 Entrance Floor Mat Frames (12 48 13)

12 48 13 16-0001	Recessed Frames <small>(12 48 13 16)</small>		
12 48 13 16-0002	LF Aluminum Recessed Embedded Frame.....	19.25	3.54
12 48 13 16-0003	LF Bronze Recessed Embedded Frame	16.40	3.54

12 50 Furniture (12)

12 55 Detention Furniture (12 50)

12 55 13 Detention Bunks (12 55)



		Furnishings	12
		Furniture	12 50
		Detention Furniture	12 55

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 55 13 00-0001 Wall Mounted Single Bunks <small>(12 55 13)</small>		
Note: 14 Gauge center pan, 7 gauge bracket, painted.		
12 55 13 00-0002 EA 27" Wide x 80" Long x 12" High Wall Mounted Bunk	322.60	70.12
12 55 13 00-0003 EA 32" Wide x 80" Long x 12" High Wall Mounted Bunk	360.99	70.12
12 55 13 00-0004 EA 38" Wide x 80" Long x 12" High Wall Mounted Bunk	387.85	70.12
12 55 13 00-0005 Floor Supported Single Bunks <small>(12 55 13)</small>		
Note: 14 Gauge center pan, 10 gauge steel brackets, 10 gauge formed steel legs, painted.		
12 55 13 00-0006 EA 27" Wide x 80" Long x 12" High Floor Mounted Bunk	322.60	70.12
12 55 13 00-0007 EA 32" Wide x 80" Long x 12" High Floor Mounted Bunk	360.99	70.12
12 55 13 00-0008 EA 38" Wide x 80" Long x 12" High Floor Mounted Bunk	387.85	70.12
12 55 13 00-0009 EA Up To 20, Floor Mounted Single Bunk, 75" x 27" x 16" High.....	624.26	96.46
12 55 13 00-0010 EA >20, Floor Mounted Single Bunk, 75" x 27" x 16" High	537.99	96.46
12 55 13 00-0011 Floor Mounted Single Bunks <small>(12 55 13)</small>		
Note: 14 Gauge center pan, 10 gauge formed steel legs, painted.		
12 55 13 00-0012 EA 27" Wide x 80" Long x 16" High Floor Mounted Bunk	322.60	70.12
12 55 13 00-0013 EA 32" Wide x 80" Long x 16" High Floor Mounted Bunk	360.99	70.12
12 55 13 00-0014 EA 38" Wide x 80" Long x 16" High Floor Mounted Bunk	387.85	70.12
12 55 13 00-0015 Single Stackable Bunks <small>(12 55 13)</small>		
Note: One piece, 10 gauge formed pan, 10 gauge formed steel legs, painted.		
12 55 13 00-0016 EA 26" Wide x 76" Long x 32" High Stackable Bunk	330.28	70.12
12 55 13 00-0017 EA 31" Wide x 76" Long x 32" High Stackable Bunk	341.80	70.12
12 55 13 00-0018 Double Bunks <small>(12 55 13)</small>		
Note: 14 Gauge center pans, 10 gauge formed steel legs, painted.		
12 55 13 00-0019 EA 27" Wide x 80" Long x 52" High Double Bunk.....	561.26	93.49
12 55 13 00-0020 EA 32" Wide x 80" Long x 52" High Double Bunk.....	568.94	93.49
12 55 13 00-0021 EA 38" Wide x 80" Long x 52" High Double Bunk.....	601.56	93.49
12 55 13 00-0022 EA Double Bunk Bed, 75" x 27", Up To 20	979.54	144.68
12 55 13 00-0023 EA Double Bunk Bed, 75" x 27", Over 20	893.27	144.68
12 55 13 00-0024 Non-Removable Storage Drawers For Bunks/ Beds <small>(12 55 13)</small>		
Note: 14 Gauge drawer with 10 gauge formed steel guides, painted.		
12 55 13 00-0025 EA 16" Long x 15" Wide x 7.75" Deep Non Removable Storage Drawer	144.96	35.06
12 55 13 00-0026 EA 24" Long x 23" Wide x 10" Deep Non Removable Storage Drawer	226.40	37.40
12 55 13 00-0027 Expanded Metal Convertible Beds <small>(12 55 13)</small>		
Note: 1/2" #13 Flattened expanded metal pans, welded inside 2" x 1-1/2" x 3/16" angle iron frames, 10 gauge formed steel legs with floor mount, 1-1/2" 10 gauge bracing between leg assembly and frame.		
12 55 13 00-0028 EA 27" Wide x 80" Long x 24" High Expanded Metal Convertible Bed	331.13	70.12
12 55 13 00-0029 EA 32" Wide x 80" Long x 24" High Expanded Metal Convertible Bed	347.05	70.12
12 55 13 00-0030 EA 38" Wide x 80" Long x 24" High Expanded Metal Convertible Bed	362.96	70.12
12 55 13 00-0031 EA Adapter Kit For Converting Single Bed To Double Deck.....	47.23	
12 55 16 Detention Desks <small>(12 55)</small>		
12 55 16 00-0001 Heavy Duty Desk With Swing Arm Seat <small>(12 55 16)</small>		
Note: Includes 12" diameter 11 gauge stainless steel seat, cast iron swing arm, 10 gauge shelves, stainless steel towel bar, 10 gauge steel foot rest, painted.		
12 55 16 00-0002 EA 36.5" Long x 15.5" Deep x 30" High Desk With Swing Arm Seat, 10 Gauge Steel Top	780.60	74.79
12 55 16 00-0003 EA 36.5" Long x 15.5" Deep x 30" High Desk With Swing Arm Seat, 11 Gauge Stainless Steel Top.....	984.55	74.79
12 55 16 00-0004 Institutional Desk And Seat <small>(12 55 16)</small>		
12 55 16 00-0005 EA Institutional Desk And Seat, Up To 20	796.80	96.46
12 55 16 00-0006 EA Institutional Desk And Seat, Over 20	710.53	96.46
12 55 16 00-0007 EA Institutional Desk, Up To 20	710.53	96.46
12 55 16 00-0008 EA Institutional Desk, Over 20	624.26	96.46
12 55 19 Detention Stools <small>(12 55)</small>		
12 55 19 00-0001 Heavy Duty Steel Bench <small>(12 55 19)</small>		
Note: 10 Gauge formed steel seat with rounded corners and edges, painted.		
12 55 19 00-0002 EA 48" Long x 18" High x 12" Wide Steel Bench	302.25	56.10
12 55 19 00-0003 EA 72" Long x 18" High x 12" Wide Steel Bench	361.50	60.77
12 55 19 00-0004 EA 96" Long x 18" High x 12" Wide Steel Bench	399.54	65.45
12 55 19 00-0005 Stationary Stools <small>(12 55 19)</small>		
Note: 12" Diameter 11 gauge stainless steel seat, 18" high, 2" schedule 40 steel pipe with welded 6" x 6" 10 gauge steel base plate bolted to floor.		

12 Furnishings**12 50 Furniture****12 55 Detention Furniture**

MINOR			TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
12 55 19 00-0006	EA	12" Diameter Stainless Steel Stationary Stool, 18" High	237.91	56.10
12 55 19 00-0007	EA	Floor Mounted Stool, 8" x 8" x 20"H, Up To 20	219.00	38.58
12 55 19 00-0008	EA	Floor Mounted Stool, 8" x 8" x 20"H, Over 20	232.89	38.58
12 55 19 00-0009	EA	Wall Mounted Swivel Stool, Up To 20	303.51	48.23
12 55 19 00-0010	EA	Wall Mounted Swivel Stool, Over 20	251.75	48.23
12 55 19 00-0011		Cell Bench ^(12 55 19)		
		Note: 1-3/4" Thick red oak bench top, polyurethane finish.		
12 55 19 00-0012	EA	48" Long x 12" Wide Cell Bench, Red Oak	243.74	56.19
12 55 19 00-0013	EA	72" Long x 12" Wide Cell Bench, Red Oak	287.62	60.77
12 55 19 00-0014	EA	96" Long x 12" Wide Cell Bench, Red Oak	316.80	65.45
12 55 23		Detention Tables ^(12 55)		
12 55 23 00-0001		Wall Mounted Table And Seat Set ^(12 55 23)		
		Note: 7 Gauge steel, painted.		
12 55 23 00-0002	EA	18" x 12" Wall Mounted Table And Seat Set	206.79	39.73
12 55 23 00-0003		Heavy Duty Picnic Style Table ^(12 55 23)		
		Note: 10 Gauge steel, painted.		
12 55 23 00-0004	EA	48" Long x 50" Wide x 30" High Steel Picnic - Style Table	764.00	70.12
12 55 23 00-0005	EA	72" Long x 50" Wide x 30" High Steel Picnic - Style Table	965.26	74.79
12 55 23 00-0006	EA	96" Long x 50" Wide x 30" High Steel Picnic - Style Table	1,075.25	81.81
12 55 23 00-0007	EA	Picnic Table, 72" x 24" Up To 20	1,463.40	130.22
12 55 23 00-0008	EA	Picnic Table, 72" x 24" Over 20	1,290.86	130.22
12 55 23 00-0009		Heavy Duty Picnic Style Table ^(12 55 23)		
		Note: 11 Gauge stainless steel top and benches with 10 gauge steel table base parts, painted.		
12 55 23 00-0010	EA	48" Long x 50" Wide x 30" High Stainless Steel Picnic - Style Table	1,291.75	70.12
12 55 23 00-0011	EA	72" Long x 50" Wide x 30" High Stainless Steel Picnic - Style Table	1,828.85	74.79
12 55 23 00-0012	EA	96" Long x 50" Wide x 30" High Stainless Steel Picnic - Style Table	1,938.84	81.81
12 55 23 00-0013		Heavy Duty Pedestal Style Table ^(12 55 23)		
		Note: 10 Gauge steel table top with 11 gauge stainless steel, 12" diameter table seats, painted.		
12 55 23 00-0014	EA	24" Long x 59" Wide x 30" High Steel Pedestal Table	673.41	58.43
12 55 23 00-0015	EA	65" Long x 65" Wide x 30" High Steel Pedestal Table	1,076.16	63.11
12 55 23 00-0016	EA	65" Long x 87" Wide x 30" High Steel Pedestal Table	1,579.61	70.12
12 55 23 00-0017	EA	12" Diameter Stainless Steel Replacement Seat	55.22	9.35
12 55 23 00-0018		Heavy Duty Pedestal Style Table ^(12 55 23)		
		Note: 11 Gauge stainless steel table top with 11 gauge stainless steel, 12" diameter table seats, painted.		
12 55 23 00-0019	EA	24" Long x 59" Wide x 30" High Stainless Steel Pedestal Table	836.53	58.43
12 55 23 00-0020	EA	65" Long x 65" Wide x 30" High Stainless Steel Pedestal Table	1,421.60	63.11
12 55 23 00-0021	EA	65" Long x 87" Wide x 30" High Stainless Steel Pedestal Table	2,049.79	70.12
12 55 23 00-0022	EA	12" Diameter Gray-Primed Steel Replacement Seats	40.89	9.35
12 55 23 00-0023	EA	4-MFIN, Pedestal Table, 39-1/2" x 39-1/2" Stainless Steel Table Top, Up To 20	1,252.27	110.92
12 55 23 00-0024	EA	4-MFIN, Pedestal Table, 39-1/2" x 39-1/2" Stainless Steel Table Top, Over 20	1,079.73	110.92
12 55 23 00-0025	EA	6-MRN, Pedestal Table, 63-1/2" x 39-1/2" Stainless Steel Table Top, Up To 20	1,616.64	120.57
12 55 23 00-0026	EA	6-MRN, Pedestal Table, 63-1/2" x 39-1/2" Stainless Steel Table Top, Over 20	1,444.10	120.57
12 55 23 00-0027	EA	8-MON, Pedestal Table, 87-1/2" x 39-1/2" Stainless Steel Table Top, Up To 20	2,326.10	130.22
12 55 23 00-0028	EA	8-MON, Pedestal Table, 87-1/2" x 39-1/2" Stainless Steel Table Top, Up To 20	1,981.02	130.22
12 55 26		Detention Safety Clothes Hooks ^(12 55)		
12 55 26 00-0001	EA	Collapsible Clothes Hook, Screw Type	53.08	18.16
12 55 26 00-0002	EA	Collapsible Clothes Hook, Weld-On Type	52.23	18.70
12 55 26 00-0003	EA	8" x 18" Storage Shelf	225.99	37.40
		Note: With four collapsible clothes hooks on 11" x 18" back plate, welded steel plates, anchors.		
12 55 26 00-0004	EA	Shelf With Safety Clothes Hook, 16"Wx8"Deep, Up To 20	249.70	38.58
12 55 26 00-0005	EA	Shelf With Safety Clothes Hook, 16"Wx8"Deep, Over 20	206.56	38.58
12 55 26 00-0006	EA	Safety Clothes Hook, Up To 20	103.80	21.70
12 55 26 00-0007	EA	Safety Clothes Hook, Over 20	120.97	21.70
12 55 86		Detention Control Room Furniture ^(12 55)		
12 55 86 00-0001	EA	TV Wall Mount, 22-1/4" Wide x 13-1/2" Deep Tray, Single-Arm	218.51	68.11
12 55 86 00-0002	EA	Wall Mounted TV Shelf, 24"W x 24"Deep, Up To 20	489.76	72.34
12 55 86 00-0003	EA	Wall Mounted TV Shelf, 24"W x 24"Deep, Over 20	446.62	72.34
12 55 86 00-0004	EA	Speaking Device With 6" Diameter Stainless Steel Cover Plates	1,093.11	28.94
		Note: Includes neoprene gaskets, baffle, wire cloth and security screws.		
12 55 86 00-0005	EA	1" Diameter, 3/16" Thick, Stainless Steel Shower Curtain Rod With 12 Gauge Hooks	479.58	24.11
12 55 86 00-0006	LF	20" Depth, 10 Gauge Steel, Wall Mounted Bench	235.99	14.47
12 55 86 00-0007	LF	20" Depth, 10 Gauge Steel, Floor Mounted Bench	282.92	12.06



Furnishings		12
Furniture		12 50
Institutional Furniture		12 56

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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12 56 Institutional Furniture (12 56)

12 56 39 Lecterns (12 56)

12 56 39 00-0001 Lectern (12 56 39)

12 56 39 00-0002 EA CON 1500-32 Van Oak Lectern.....	3,559.65	38.85
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12 56 53 Laboratory Furniture (12 56)

12 56 53 00-0001 Steel Laboratory Furniture (12 56 53)

12 56 53 00-0002 Modular Steel Laboratory Cabinets (12 56 53 00-0001)

12 56 53 00-0003 29-3/8" High x 21-5/8" Deep, Modular Steel Laboratory Base Cabinets (12 56 53 00-0002)

12 56 53 00-0004 EA 15" Wide x 29-3/8" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	779.00	76.59
12 56 53 00-0005 EA 18" Wide x 29-3/8" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	777.45	76.59
12 56 53 00-0006 EA 21" Wide x 29-3/8" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	820.14	83.59
12 56 53 00-0007 EA 24" Wide x 29-3/8" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	808.42	83.59
12 56 53 00-0008 EA 30" Wide x 29-3/8" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	959.81	94.32
12 56 53 00-0009 EA 36" Wide x 29-3/8" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	990.59	97.42
12 56 53 00-0010 EA 42" Wide x 29-3/8" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	1,092.53	107.44
12 56 53 00-0011 EA 48" Wide x 29-3/8" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	1,134.86	111.60
12 56 53 00-0012 EA 15" Wide x 29-3/8" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,102.15	108.32
12 56 53 00-0013 EA 18" Wide x 29-3/8" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,106.01	108.76
12 56 53 00-0014 EA 21" Wide x 29-3/8" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,169.47	114.97
12 56 53 00-0015 EA 24" Wide x 29-3/8" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,144.44	112.49
12 56 53 00-0016 EA 30" Wide x 29-3/8" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,529.21	150.34
12 56 53 00-0017 EA 36" Wide x 29-3/8" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,557.79	153.18
12 56 53 00-0018 EA 42" Wide x 29-3/8" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,719.58	169.05
12 56 53 00-0019 EA 48" Wide x 29-3/8" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,746.71	171.70
12 56 53 00-0020 EA 18" Wide x 29-3/8" High x 21-5/8" Deep, 2 Drawer, Modular Steel Laboratory Base Cabinet.....	1,600.48	157.34
12 56 53 00-0021 EA 21" Wide x 29-3/8" High x 21-5/8" Deep, 2 Drawer, Modular Steel Laboratory Base Cabinet.....	1,781.05	175.16
12 56 53 00-0022 EA 24" Wide x 29-3/8" High x 21-5/8" Deep, 2 Drawer, Modular Steel Laboratory Base Cabinet.....	1,728.51	175.16
12 56 53 00-0023 EA 15" Wide x 29-3/8" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	1,617.10	158.67
12 56 53 00-0024 EA 18" Wide x 29-3/8" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	1,603.19	158.67
12 56 53 00-0025 EA 21" Wide x 29-3/8" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	1,731.13	170.20
12 56 53 00-0026 EA 24" Wide x 29-3/8" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	1,718.82	169.93
12 56 53 00-0027 EA 30" Wide x 29-3/8" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	1,880.66	184.74
12 56 53 00-0028 EA 36" Wide x 29-3/8" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	1,936.90	190.41
12 56 53 00-0029 EA 42" Wide x 29-3/8" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	2,119.48	208.31
12 56 53 00-0030 EA 48" Wide x 29-3/8" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	2,169.28	213.28
12 56 53 00-0031 EA 15" Wide x 29-3/8" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	1,810.02	177.91
12 56 53 00-0032 EA 18" Wide x 29-3/8" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	1,702.30	167.36
12 56 53 00-0033 EA 21" Wide x 29-3/8" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	1,923.48	189.08
12 56 53 00-0034 EA 24" Wide x 29-3/8" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	1,829.22	179.86
12 56 53 00-0035 EA 15" Wide x 29-3/8" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,052.50	201.75
12 56 53 00-0036 EA 18" Wide x 29-3/8" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,052.50	201.75
12 56 53 00-0037 EA 21" Wide x 29-3/8" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,246.37	220.82
12 56 53 00-0038 EA 24" Wide x 29-3/8" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,165.86	212.93
12 56 53 00-0039 EA 30" Wide x 29-3/8" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,515.92	247.32
12 56 53 00-0040 EA 36" Wide x 29-3/8" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,525.19	247.41
12 56 53 00-0041 EA 42" Wide x 29-3/8" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,742.93	269.66
12 56 53 00-0042 EA 48" Wide x 29-3/8" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,769.86	272.32
12 56 53 00-0043 EA 24" Wide x 29-3/8" High x 21-5/8" Deep, 8 Drawer, Modular Steel Laboratory Base Cabinet.....	3,079.53	302.72
12 56 53 00-0044 EA 30" Wide x 29-3/8" High x 21-5/8" Deep, 8 Drawer, Modular Steel Laboratory Base Cabinet.....	3,175.72	312.20
12 56 53 00-0045 EA 36" Wide x 29-3/8" High x 21-5/8" Deep, 8 Drawer, Modular Steel Laboratory Base Cabinet.....	3,014.49	312.03
12 56 53 00-0046 EA 42" Wide x 29-3/8" High x 21-5/8" Deep, 8 Drawer, Modular Steel Laboratory Base Cabinet.....	3,366.00	330.91
12 56 53 00-0047 EA 48" Wide x 29-3/8" High x 21-5/8" Deep, 8 Drawer, Modular Steel Laboratory Base Cabinet.....	3,289.12	323.37
12 56 53 00-0048 EA 15" Wide x 29-3/8" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	1,461.83	143.69
12 56 53 00-0049 EA 18" Wide x 29-3/8" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	1,423.20	144.04
12 56 53 00-0050 EA 21" Wide x 29-3/8" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	1,525.30	149.90
12 56 53 00-0051 EA 24" Wide x 29-3/8" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	1,486.67	149.90
12 56 53 00-0052 EA 32-7/8" Wide x 29-3/8" High x 21-5/8" Deep, Standard Corner, Modular Steel Laboratory Base Cabinet.....	2,048.45	201.40
12 56 53 00-0053 EA 32-7/8" Wide x 29-3/8" High x 21-5/8" Deep, Hexagon Corner, Modular Steel Laboratory Base Cabinet.....	1,771.50	174.10

12 56 53 00-0054 35-1/4" High x 21-5/8" Deep, Modular Steel Laboratory Base Cabinets (12 56 53 00-0002)

12 56 53 00-0055 EA 15" Wide x 35-1/4" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	815.55	80.22
12 56 53 00-0056 EA 18" Wide x 35-1/4" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	810.91	80.22
12 56 53 00-0057 EA 21" Wide x 35-1/4" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	861.73	84.75
12 56 53 00-0058 EA 24" Wide x 35-1/4" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	832.87	81.99
12 56 53 00-0059 EA 30" Wide x 35-1/4" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	986.74	97.06
12 56 53 00-0060 EA 36" Wide x 35-1/4" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	1,034.83	101.50
12 56 53 00-0061 EA 42" Wide x 35-1/4" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	1,104.07	108.59
12 56 53 00-0062 EA 48" Wide x 35-1/4" High x 21-5/8" Deep, Open, Modular Steel Laboratory Base Cabinet.....	1,146.39	113.02
12 56 53 00-0063 EA 15" Wide x 35-1/4" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,156.02	113.46
12 56 53 00-0064 EA 18" Wide x 35-1/4" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,156.02	113.46
12 56 53 00-0065 EA 21" Wide x 35-1/4" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,227.18	120.55
12 56 53 00-0066 EA 24" Wide x 35-1/4" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,212.42	122.33

12 Furnishings

12 50 Furniture

12 56 Institutional Furniture

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 56 53 00-0067 EA 30" Wide x 35-1/4" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,602.25	157.34
12 56 53 00-0068 EA 36" Wide x 35-1/4" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,644.56	161.33
12 56 53 00-0069 EA 42" Wide x 35-1/4" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,767.70	173.74
12 56 53 00-0070 EA 48" Wide x 35-1/4" High x 21-5/8" Deep, Door Cabinet With Shelf, Modular Steel Laboratory Base Cabinet.....	1,808.06	177.74
12 56 53 00-0071 EA 18" Wide x 35-1/4" High x 21-5/8" Deep, Tilt-Out Door With Removable Bin, Modular Steel Laboratory Base Cabinet.....	1,781.16	175.07
12 56 53 00-0072 EA 24" Wide x 35-1/4" High x 21-5/8" Deep, Tilt-Out Door With Removable Bin, Modular Steel Laboratory Base Cabinet.....	1,831.18	179.95
12 56 53 00-0073 EA 18" Wide x 35-1/4" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	1,954.10	191.91
12 56 53 00-0074 EA 21" Wide x 35-1/4" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	2,111.74	207.43
12 56 53 00-0075 EA 24" Wide x 35-1/4" High x 21-5/8" Deep, 3 Drawer, Modular Steel Laboratory Base Cabinet.....	2,098.06	207.43
12 56 53 00-0076 EA 15" Wide x 35-1/4" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	1,921.54	188.37
12 56 53 00-0077 EA 18" Wide x 35-1/4" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	1,061.60	189.26
12 56 53 00-0078 EA 21" Wide x 35-1/4" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	2,019.65	198.56
12 56 53 00-0079 EA 24" Wide x 35-1/4" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	1,987.19	198.56
12 56 53 00-0080 EA 30" Wide x 35-1/4" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	2,225.45	218.77
12 56 53 00-0081 EA 36" Wide x 35-1/4" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	2,313.96	227.47
12 56 53 00-0082 EA 42" Wide x 35-1/4" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	2,457.71	241.64
12 56 53 00-0083 EA 48" Wide x 35-1/4" High x 21-5/8" Deep, 4 Drawer, Modular Steel Laboratory Base Cabinet.....	2,515.92	247.32
12 56 53 00-0084 EA 15" Wide x 35-1/4" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,048.67	201.23
12 56 53 00-0085 EA 18" Wide x 35-1/4" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,188.86	214.96
12 56 53 00-0086 EA 21" Wide x 35-1/4" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,202.21	216.29
12 56 53 00-0087 EA 24" Wide x 35-1/4" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,286.97	224.71
12 56 53 00-0088 EA 30" Wide x 35-1/4" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,640.94	259.73
12 56 53 00-0089 EA 36" Wide x 35-1/4" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,731.31	268.59
12 56 53 00-0090 EA 42" Wide x 35-1/4" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,867.80	281.89
12 56 53 00-0091 EA 48" Wide x 35-1/4" High x 21-5/8" Deep, 5 Drawer, Modular Steel Laboratory Base Cabinet.....	2,869.92	281.89
12 56 53 00-0092 EA 24" Wide x 35-1/4" High x 21-5/8" Deep, 8 Drawer, Modular Steel Laboratory Base Cabinet.....	3,208.40	315.58
12 56 53 00-0093 EA 30" Wide x 35-1/4" High x 21-5/8" Deep, 8 Drawer, Modular Steel Laboratory Base Cabinet.....	3,235.09	317.79
12 56 53 00-0094 EA 36" Wide x 35-1/4" High x 21-5/8" Deep, 8 Drawer, Modular Steel Laboratory Base Cabinet.....	3,301.06	324.44
12 56 53 00-0095 EA 42" Wide x 35-1/4" High x 21-5/8" Deep, 8 Drawer, Modular Steel Laboratory Base Cabinet.....	3,481.19	342.61
12 56 53 00-0096 EA 48" Wide x 35-1/4" High x 21-5/8" Deep, 8 Drawer, Modular Steel Laboratory Base Cabinet.....	3,492.36	343.50
12 56 53 00-0097 EA 24" Wide x 35-1/4" High x 21-5/8" Deep, 10 Drawer, Modular Steel Laboratory Base Cabinet.....	3,543.11	348.28
12 56 53 00-0098 EA 30" Wide x 35-1/4" High x 21-5/8" Deep, 10 Drawer, Modular Steel Laboratory Base Cabinet.....	3,710.35	364.77
12 56 53 00-0099 EA 36" Wide x 35-1/4" High x 21-5/8" Deep, 10 Drawer, Modular Steel Laboratory Base Cabinet.....	3,781.47	371.77
12 56 53 00-0100 EA 42" Wide x 35-1/4" High x 21-5/8" Deep, 10 Drawer, Modular Steel Laboratory Base Cabinet.....	3,877.67	381.17
12 56 53 00-0101 EA 48" Wide x 35-1/4" High x 21-5/8" Deep, 10 Drawer, Modular Steel Laboratory Base Cabinet.....	3,983.67	391.63
12 56 53 00-0102 EA 15" Wide x 35-1/4" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	1,492.67	146.71
12 56 53 00-0103 EA 18" Wide x 35-1/4" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	1,519.45	149.37
12 56 53 00-0104 EA 21" Wide x 35-1/4" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	1,525.30	149.81
12 56 53 00-0105 EA 24" Wide x 35-1/4" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	1,559.76	153.35
12 56 53 00-0106 EA 30" Wide x 35-1/4" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	2,052.50	201.75
12 56 53 00-0107 EA 36" Wide x 35-1/4" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	2,114.07	207.79
12 56 53 00-0108 EA 42" Wide x 35-1/4" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	2,263.82	222.59
12 56 53 00-0109 EA 48" Wide x 35-1/4" High x 21-5/8" Deep, 1 Drawer Over Cupboard, Modular Steel Laboratory Base Cabinet.....	2,296.44	225.60
12 56 53 00-0110 EA 32-7/8" Wide x 35-1/4" High x 21-5/8" Deep, Standard Corner, Modular Steel Laboratory Base Cabinet.....	2,129.58	209.21
12 56 53 00-0111 EA 32-7/8" Wide x 35-1/4" High x 21-5/8" Deep, Hexagon Corner, Modular Steel Laboratory Base Cabinet.....	1,975.81	194.14
12 56 53 00-0112 EA 15" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	1,048.29	103.09
12 56 53 00-0113 EA 18" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	1,061.76	104.34
12 56 53 00-0114 EA 21" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	1,106.01	108.59
12 56 53 00-0115 EA 24" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	1,109.85	109.03
12 56 53 00-0116 EA 30" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	1,452.24	142.81
12 56 53 00-0117 EA 36" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	1,484.95	146.00
12 56 53 00-0118 EA 42" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	1,582.99	155.57
12 56 53 00-0119 EA 48" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	1,588.77	156.19
12 56 53 00-0120 EA 52" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	1,834.98	180.39
12 56 53 00-0121 EA 58" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	2,019.65	198.56
12 56 53 00-0122 EA 60" Wide x 35-1/4" High x 21-5/8" Deep, Sink, Modular Steel Laboratory Base Cabinet.....	2,111.97	207.61
12 56 53 00-0123 25-3/16" High x 16" Deep, Modular Steel Laboratory Wall Cabinets (12 56 53 00-0002)		
12 56 53 00-0124 EA 15" Wide x 25-3/16" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	775.17	76.24
12 56 53 00-0125 EA 18" Wide x 25-3/16" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	800.15	78.63
12 56 53 00-0126 EA 21" Wide x 25-3/16" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	805.93	79.25
12 56 53 00-0127 EA 24" Wide x 25-3/16" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	827.10	81.29
12 56 53 00-0128 EA 30" Wide x 25-3/16" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	865.57	85.10
12 56 53 00-0129 EA 36" Wide x 25-3/16" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	884.80	86.96
12 56 53 00-0130 EA 42" Wide x 25-3/16" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	963.66	94.76
12 56 53 00-0131 EA 48" Wide x 25-3/16" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	975.21	95.83
12 56 53 00-0132 EA 15" Wide x 25-3/16" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,146.39	112.67
12 56 53 00-0133 EA 18" Wide x 25-3/16" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,175.24	115.50
12 56 53 00-0134 EA 21" Wide x 25-3/16" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,202.17	118.16
12 56 53 00-0135 EA 24" Wide x 25-3/16" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,227.18	120.64
12 56 53 00-0136 EA 30" Wide x 25-3/16" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,492.63	146.71
12 56 53 00-0137 EA 36" Wide x 25-3/16" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,511.88	148.65
12 56 53 00-0138 EA 42" Wide x 25-3/16" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,648.41	162.04
12 56 53 00-0139 EA 48" Wide x 25-3/16" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,654.19	162.67
12 56 53 00-0140 EA 15" Wide x 25-3/16" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,340.64	131.81
12 56 53 00-0141 EA 18" Wide x 25-3/16" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,384.91	136.16
12 56 53 00-0142 EA 21" Wide x 25-3/16" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,407.96	138.37
12 56 53 00-0143 EA 24" Wide x 25-3/16" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,432.98	140.86



		Furnishings	12
		Furniture	12 50
		Institutional Furniture	12 56

12

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 56 53 00-0144 EA 30" Wide x 25-3/16" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,008.11	197.42
12 56 53 00-0145 EA 36" Wide x 25-3/16" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,048.53	201.40
12 56 53 00-0146 EA 42" Wide x 25-3/16" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,167.73	213.10
12 56 53 00-0147 EA 48" Wide x 25-3/16" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,206.22	216.91
12 56 53 00-0148 EA 25-23/32" Wide x 25-3/16" High x 16" Deep, Corner 18" Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,834.98	180.39
12 56 53 00-0149 EA 28-23/32" Wide x 25-3/16" High x 16" Deep, Corner 18" Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,031.21	199.72
12 56 53 00-0150 EA 30" Wide x 25-3/16" High x 16" Deep, Solid Sliding Door, Modular Steel Laboratory Wall Cabinet.....	1,546.59	146.71
12 56 53 00-0151 EA 36" Wide x 25-3/16" High x 16" Deep, Solid Sliding Door, Modular Steel Laboratory Wall Cabinet.....	1,566.53	148.65
12 56 53 00-0152 EA 42" Wide x 25-3/16" High x 16" Deep, Solid Sliding Door, Modular Steel Laboratory Wall Cabinet.....	1,708.01	162.04
12 56 53 00-0153 EA 48" Wide x 25-3/16" High x 16" Deep, Solid Sliding Door, Modular Steel Laboratory Wall Cabinet.....	1,713.99	162.58
12 56 53 00-0154 EA 30" Wide x 25-3/16" High x 16" Deep, Glass Sliding Door, Modular Steel Laboratory Wall Cabinet.....	2,080.71	197.42
12 56 53 00-0155 EA 36" Wide x 25-3/16" High x 16" Deep, Glass Sliding Door, Modular Steel Laboratory Wall Cabinet.....	2,122.59	201.40
12 56 53 00-0156 EA 42" Wide x 25-3/16" High x 16" Deep, Glass Sliding Door, Modular Steel Laboratory Wall Cabinet.....	2,246.10	213.10
12 56 53 00-0157 EA 48" Wide x 25-3/16" High x 16" Deep, Glass Sliding Door, Modular Steel Laboratory Wall Cabinet.....	2,285.98	216.91
12 56 53 00-0158 31" High x 16" Deep, Modular Steel Laboratory Wall Cabinets (12 56 53 00-0002)		
12 56 53 00-0159 EA 15" Wide x 31" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	846.33	83.33
12 56 53 00-0160 EA 18" Wide x 31" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	871.34	85.54
12 56 53 00-0161 EA 21" Wide x 31" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	875.18	85.99
12 56 53 00-0162 EA 24" Wide x 31" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	884.80	86.87
12 56 53 00-0163 EA 30" Wide x 31" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	940.59	92.64
12 56 53 00-0164 EA 36" Wide x 31" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	967.51	94.85
12 56 53 00-0165 EA 42" Wide x 31" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	1,148.31	113.02
12 56 53 00-0166 EA 48" Wide x 31" High x 16" Deep, Open, Modular Steel Laboratory Wall Cabinet.....	1,173.34	115.24
12 56 53 00-0167 EA 15" Wide x 31" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,194.49	117.46
12 56 53 00-0168 EA 18" Wide x 31" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,225.25	120.55
12 56 53 00-0169 EA 21" Wide x 31" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,246.41	122.78
12 56 53 00-0170 EA 24" Wide x 31" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,306.05	128.09
12 56 53 00-0171 EA 30" Wide x 31" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,613.83	158.67
12 56 53 00-0172 EA 36" Wide x 31" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,636.88	160.89
12 56 53 00-0173 EA 42" Wide x 31" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,819.58	179.07
12 56 53 00-0174 EA 48" Wide x 31" High x 16" Deep, Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,856.12	182.61
12 56 53 00-0175 EA 15" Wide x 31" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,421.44	139.62
12 56 53 00-0176 EA 18" Wide x 31" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,463.78	143.60
12 56 53 00-0177 EA 21" Wide x 31" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,484.91	145.82
12 56 53 00-0178 EA 24" Wide x 31" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	1,523.40	149.81
12 56 53 00-0179 EA 30" Wide x 31" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,073.51	203.44
12 56 53 00-0180 EA 36" Wide x 31" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,133.14	209.65
12 56 53 00-0181 EA 42" Wide x 31" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,485.09	244.22
12 56 53 00-0182 EA 48" Wide x 31" High x 16" Deep, Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,359.20	216.73
12 56 53 00-0183 EA 25-23/32" Wide x 31" High x 16" Deep, Corner 18" Solid Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,031.14	199.89
12 56 53 00-0184 EA 25-23/32" Wide x 31" High x 16" Deep, Corner 18" Glass Swinging Door, Modular Steel Laboratory Wall Cabinet.....	2,417.79	238.01
12 56 53 00-0185 EA 30" Wide x 31" High x 16" Deep, Solid Sliding Door, Modular Steel Laboratory Wall Cabinet.....	1,672.17	158.67
12 56 53 00-0186 EA 36" Wide x 31" High x 16" Deep, Solid Sliding Door, Modular Steel Laboratory Wall Cabinet.....	1,696.06	160.89
12 56 53 00-0187 EA 42" Wide x 31" High x 16" Deep, Solid Sliding Door, Modular Steel Laboratory Wall Cabinet.....	1,885.37	178.88
12 56 53 00-0188 EA 48" Wide x 31" High x 16" Deep, Solid Sliding Door, Modular Steel Laboratory Wall Cabinet.....	1,923.23	182.44
12 56 53 00-0189 EA 30" Wide x 31" High x 16" Deep, Glass Sliding Door, Modular Steel Laboratory Wall Cabinet.....	2,148.48	203.88
12 56 53 00-0190 EA 36" Wide x 31" High x 16" Deep, Glass Sliding Door, Modular Steel Laboratory Wall Cabinet.....	2,210.26	209.73
12 56 53 00-0191 EA 42" Wide x 31" High x 16" Deep, Glass Sliding Door, Modular Steel Laboratory Wall Cabinet.....	2,574.93	244.31
12 56 53 00-0192 EA 48" Wide Glass Sliding Door Cases.....	2,445.85	216.91
12 56 53 00-0193 Wood Laboratory Furniture (12 56 53)		
Note: Laboratory Grade with chemical resistant finish, premium quality mill-made modular units, prefinished with solid 3/4" hardwood face frames, solid 3/4" hardwood door frames and drawer fronts, hardwood veneer on raised door panels (front and back), glued mortise, dowel, and dado joint construction, full backs, mitered corners and solid wood drawer bodies with steel guides and ball bearings. Includes self-closing hinges, door and drawer pulls, mounting hardware and adjustable shelves.		
12 56 53 00-0194 Wood Laboratory Cabinets (12 56 53 00-0193)		
12 56 53 00-0195 28-1/2" High x 21-1/2" Deep, Wood Laboratory Base Cabinets (12 56 53 00-0194)		
12 56 53 00-0196 EA 15" Wide x 28-1/2" High x 21-1/2" Deep, Open, Wood Laboratory Base Cabinet.....	358.29	70.03
12 56 53 00-0197 EA 18" Wide x 28-1/2" High x 21-1/2" Deep, Open, Wood Laboratory Base Cabinet.....	369.92	72.24
12 56 53 00-0198 EA 21" Wide x 28-1/2" High x 21-1/2" Deep, Open, Wood Laboratory Base Cabinet.....	381.52	74.46
12 56 53 00-0199 EA 24" Wide x 28-1/2" High x 21-1/2" Deep, Open, Wood Laboratory Base Cabinet.....	393.13	77.12
12 56 53 00-0200 EA 30" Wide x 28-1/2" High x 21-1/2" Deep, Open, Wood Laboratory Base Cabinet.....	436.74	85.54
12 56 53 00-0201 EA 36" Wide x 28-1/2" High x 21-1/2" Deep, Open, Wood Laboratory Base Cabinet.....	465.79	90.87
12 56 53 00-0202 EA 42" Wide x 28-1/2" High x 21-1/2" Deep, Open, Wood Laboratory Base Cabinet.....	487.09	94.85
12 56 53 00-0203 EA 48" Wide x 28-1/2" High x 21-1/2" Deep, Open, Wood Laboratory Base Cabinet.....	513.25	100.17
12 56 53 00-0204 EA 15" Wide x 28-1/2" High x 21-1/2" Deep, Door Cabinet With Shelf, Wood Laboratory Base Cabinet.....	435.77	85.10
12 56 53 00-0205 EA 18" Wide x 28-1/2" High x 21-1/2" Deep, Door Cabinet With Shelf, Wood Laboratory Base Cabinet.....	451.26	88.20
12 56 53 00-0206 EA 21" Wide x 28-1/2" High x 21-1/2" Deep, Door Cabinet With Shelf, Wood Laboratory Base Cabinet.....	460.95	89.97
12 56 53 00-0207 EA 24" Wide x 28-1/2" High x 21-1/2" Deep, Door Cabinet With Shelf, Wood Laboratory Base Cabinet.....	473.52	92.64
12 56 53 00-0208 EA 30" Wide x 28-1/2" High x 21-1/2" Deep, Door Cabinet With Shelf, Wood Laboratory Base Cabinet.....	609.15	118.78
12 56 53 00-0209 EA 36" Wide x 28-1/2" High x 21-1/2" Deep, Door Cabinet With Shelf, Wood Laboratory Base Cabinet.....	646.69	126.32
12 56 53 00-0210 EA 42" Wide x 28-1/2" High x 21-1/2" Deep, Door Cabinet With Shelf, Wood Laboratory Base Cabinet.....	668.18	130.31
12 56 53 00-0211 EA 48" Wide x 28-1/2" High x 21-1/2" Deep, Door Cabinet With Shelf, Wood Laboratory Base Cabinet.....	694.49	135.62
12 56 53 00-0212 EA 15" Wide x 28-1/2" High x 21-1/2" Deep, 3 Drawer, Wood Laboratory Base Cabinet.....	639.96	124.99

12 Furnishings

12 50 Furniture

12 56 Institutional Furniture



SAN BERNARDINO
COUNTY

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

12 56 53 00-0213	EA	18" Wide x 28-1/2" High x 21-1/2" Deep, 3 Drawer, Wood Laboratory Base Cabinet.....	662.53	129.42
12 56 53 00-0214	EA	21" Wide x 28-1/2" High x 21-1/2" Deep, 3 Drawer, Wood Laboratory Base Cabinet.....	679.81	132.97
12 56 53 00-0215	EA	24" Wide x 28-1/2" High x 21-1/2" Deep, 3 Drawer, Wood Laboratory Base Cabinet.....	703.10	136.95
12 56 53 00-0216	EA	15" Wide x 28-1/2" High x 21-1/2" Deep, 4 Drawer, Wood Laboratory Base Cabinet.....	650.77	126.76
12 56 53 00-0217	EA	18" Wide x 28-1/2" High x 21-1/2" Deep, 4 Drawer, Wood Laboratory Base Cabinet.....	676.91	132.53
12 56 53 00-0218	EA	21" Wide x 28-1/2" High x 21-1/2" Deep, 4 Drawer, Wood Laboratory Base Cabinet.....	696.26	136.07
12 56 53 00-0219	EA	24" Wide x 28-1/2" High x 21-1/2" Deep, 4 Drawer, Wood Laboratory Base Cabinet.....	718.56	140.50
12 56 53 00-0220	EA	30" Wide x 28-1/2" High x 21-1/2" Deep, 6 Drawer, Wood Laboratory Base Cabinet.....	1,017.81	198.56
12 56 53 00-0221	EA	36" Wide x 28-1/2" High x 21-1/2" Deep, 6 Drawer, Wood Laboratory Base Cabinet.....	1,078.72	210.53
12 56 53 00-0222	EA	42" Wide x 28-1/2" High x 21-1/2" Deep, 6 Drawer, Wood Laboratory Base Cabinet.....	1,100.96	214.96
12 56 53 00-0223	EA	48" Wide x 28-1/2" High x 21-1/2" Deep, 6 Drawer, Wood Laboratory Base Cabinet.....	1,144.59	223.38
12 56 53 00-0224	EA	30" Wide x 28-1/2" High x 21-1/2" Deep, 8 Drawer, Wood Laboratory Base Cabinet.....	1,165.93	227.38
12 56 53 00-0225	EA	36" Wide x 28-1/2" High x 21-1/2" Deep, 8 Drawer, Wood Laboratory Base Cabinet.....	1,220.13	238.45
12 56 53 00-0226	EA	42" Wide x 28-1/2" High x 21-1/2" Deep, 8 Drawer, Wood Laboratory Base Cabinet.....	1,255.89	245.54
12 56 53 00-0227	EA	48" Wide x 28-1/2" High x 21-1/2" Deep, 8 Drawer, Wood Laboratory Base Cabinet.....	1,299.52	253.97
12 56 53 00-0228	EA	15" Wide x 28-1/2" High x 21-1/2" Deep, 1 Drawer Over Cupboard, Wood Laboratory Base Cabinet.....	482.24	94.41
12 56 53 00-0229	EA	18" Wide x 28-1/2" High x 21-1/2" Deep, 1 Drawer Over Cupboard, Wood Laboratory Base Cabinet.....	499.67	97.95
12 56 53 00-0230	EA	21" Wide x 28-1/2" High x 21-1/2" Deep, 1 Drawer Over Cupboard, Wood Laboratory Base Cabinet.....	510.33	99.73
12 56 53 00-0231	EA	24" Wide x 28-1/2" High x 21-1/2" Deep, 1 Drawer Over Cupboard, Wood Laboratory Base Cabinet.....	524.86	102.38
12 56 53 00-0232	EA	30" Wide x 28-1/2" High x 21-1/2" Deep, Double Drawer Over Cupboard, Wood Laboratory Base.....	778.56	152.02
12 56 53 00-0233	EA	36" Wide x 28-1/2" High x 21-1/2" Deep, Double Drawer Over Cupboard, Wood Laboratory Base.....	814.40	159.03
12 56 53 00-0234	EA	42" Wide x 28-1/2" High x 21-1/2" Deep, Double Drawer Over Cupboard, Wood Laboratory Base.....	837.62	163.55
12 56 53 00-0235	EA	48" Wide x 28-1/2" High x 21-1/2" Deep, Double Drawer Over Cupboard, Wood Laboratory Base.....	867.67	169.40
12 56 53 00-0236	EA	35" Wide x 28-1/2" High x 21-1/2" Deep, Diagonal Corner, Wood Laboratory Base Cabinet.....	1,016.79	198.56
12 56 53 00-0237	EA	35" Wide x 28-1/2" High x 21-1/2" Deep, Diagonal Corner With Lazy Susan, Wood Laboratory Base Cabinet.....	1,127.13	220.28
12 56 53 00-0238	EA	15" Wide x 28-1/2" High x 21-1/2" Deep, Sink, Wood Laboratory Base Cabinet.....	397.03	77.57
12 56 53 00-0239	EA	18" Wide x 28-1/2" High x 21-1/2" Deep, Sink, Wood Laboratory Base Cabinet.....	409.61	79.96
12 56 53 00-0240	EA	21" Wide x 28-1/2" High x 21-1/2" Deep, Sink, Wood Laboratory Base Cabinet.....	417.37	81.47
12 56 53 00-0241	EA	24" Wide x 28-1/2" High x 21-1/2" Deep, Sink, Wood Laboratory Base Cabinet.....	427.04	83.41
12 56 53 00-0242	EA	30" Wide x 28-1/2" High x 21-1/2" Deep, Sink, Wood Laboratory Base Cabinet.....	547.12	106.82
12 56 53 00-0243	EA	36" Wide x 28-1/2" High x 21-1/2" Deep, Sink, Wood Laboratory Base Cabinet.....	575.20	112.31
12 56 53 00-0244	EA	42" Wide x 28-1/2" High x 21-1/2" Deep, Sink, Wood Laboratory Base Cabinet.....	591.67	115.50
12 56 53 00-0245	EA	48" Wide x 28-1/2" High x 21-1/2" Deep, Sink, Wood Laboratory Base Cabinet.....	609.10	118.96

12 56 53 00-0246 35-3/4" High x 22" Deep, Wood Laboratory Base Cabinets (12 56 53 00-0194)

12 56 53 00-0247	EA	24" Wide x 35-3/4" High x 22" Deep, 2 Swinging Door, Wood Laboratory Base Cabinet.....	627.71	122.56
12 56 53 00-0248	EA	30" Wide x 35-3/4" High x 22" Deep, 2 Swinging Door, Wood Laboratory Base Cabinet.....	812.67	158.47
12 56 53 00-0249	EA	36" Wide x 35-3/4" High x 22" Deep, 2 Swinging Door, Wood Laboratory Base Cabinet.....	818.71	159.84
12 56 53 00-0250	EA	48" Wide x 35-3/4" High x 22" Deep, 2 Swinging Door, Wood Laboratory Base Cabinet.....	944.25	184.37
12 56 53 00-0251	EA	24" Wide x 35-3/4" High x 22" Deep, 4 Drawer, Wood Laboratory Base Cabinet.....	1,029.02	200.92
12 56 53 00-0252	EA	30" Wide x 35-3/4" High x 22" Deep, 4 Drawer, Wood Laboratory Base Cabinet.....	1,154.57	225.42
12 56 53 00-0253	EA	36" Wide x 35-3/4" High x 22" Deep, 4 Drawer, Wood Laboratory Base Cabinet.....	1,235.06	241.14
12 56 53 00-0254	EA	48" Wide x 35-3/4" High x 22" Deep, 4 Drawer, Wood Laboratory Base Cabinet.....	1,462.52	285.55
12 56 53 00-0255	EA	24" Wide x 35-3/4" High x 22" Deep, Combination Door/Drawer, Wood Laboratory Base Cabinet.....	756.47	147.32
12 56 53 00-0256	EA	30" Wide x 35-3/4" High x 22" Deep, Combination Door/Drawer, Wood Laboratory Base Cabinet.....	1,041.88	203.42
12 56 53 00-0257	EA	36" Wide x 35-3/4" High x 22" Deep, Combination Door/Drawer, Wood Laboratory Base Cabinet.....	1,083.74	211.59
12 56 53 00-0258	EA	48" Wide Base Cabinet With Combination Door/Drawer.....	1,211.44	236.53

12 56 53 00-0259 30-5/8" High x 13" Deep, Wood Laboratory Wall Cabinets (12 56 53 00-0194)

12 56 53 00-0260	EA	15" Wide x 30-5/8" High x 13" Deep, Open, Wood Laboratory Wall Cabinet.....	426.09	83.33
		For 36" Height Cabinet, Add	48.04	
12 56 53 00-0261	EA	18" Wide x 30-5/8" High x 13" Deep, Open, Wood Laboratory Wall Cabinet.....	442.55	85.99
		For 36" Height Cabinet, Add	49.90	
12 56 53 00-0262	EA	21" Wide x 30-5/8" High x 13" Deep, Open, Wood Laboratory Wall Cabinet.....	454.17	88.64
		For 36" Height Cabinet, Add	51.21	
12 56 53 00-0263	EA	24" Wide x 30-5/8" High x 13" Deep, Open, Wood Laboratory Wall Cabinet.....	414.46	80.66
		For 36" Height Cabinet, Add	46.73	
12 56 53 00-0264	EA	30" Wide x 30-5/8" High x 13" Deep, Open, Wood Laboratory Wall Cabinet.....	476.45	93.08
		For 36" Height Cabinet, Add	53.72	
12 56 53 00-0265	EA	36" Wide x 30-5/8" High x 13" Deep, Open, Wood Laboratory Wall Cabinet.....	516.15	100.61
		For 36" Height Cabinet, Add	58.20	
12 56 53 00-0266	EA	42" Wide x 30-5/8" High x 13" Deep, Open, Wood Laboratory Wall Cabinet.....	539.37	105.48
		For 36" Height Cabinet, Add	60.82	
12 56 53 00-0267	EA	48" Wide x 30-5/8" High x 13" Deep, Open, Wood Laboratory Wall Cabinet.....	571.35	111.25
		For 36" Height Cabinet, Add	64.42	
12 56 53 00-0268	EA	15" Wide x 30-5/8" High x 13" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	467.74	91.31
		For 36" Height Cabinet, Add	52.74	
12 56 53 00-0269	EA	18" Wide x 30-5/8" High x 13" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	489.03	95.73
		For 36" Height Cabinet, Add	55.14	
12 56 53 00-0270	EA	21" Wide x 30-5/8" High x 13" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	2,031.33	1,001.69
		For 36" Height Cabinet, Add	5.78	
12 56 53 00-0271	EA	24" Wide x 30-5/8" High x 13" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	525.83	102.38
		For 36" Height Cabinet, Add	59.29	
12 56 53 00-0272	EA	30" Wide x 30-5/8" High x 13" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	687.56	134.30
		For 36" Height Cabinet, Add	77.52	
12 56 53 00-0273	EA	36" Wide x 30-5/8" High x 13" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	740.81	144.49
		For 36" Height Cabinet, Add	83.53	
12 56 53 00-0274	EA	42" Wide x 30-5/8" High x 13" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	774.70	151.58
		For 36" Height Cabinet, Add	87.35	



		Furnishings	12
		Furniture	12 50
		Institutional Furniture	12 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 56 53 00-0275	EA		48" Wide x 30-5/8" High x 13" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	815.36	159.12
			<i>For 36" Height Cabinet, Add</i>	91.94	
12 56 53 00-0276	EA		15" Wide x 30-5/8" High x 13" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	523.89	102.38
			<i>For 36" Height Cabinet, Add</i>	59.07	
12 56 53 00-0277	EA		18" Wide x 30-5/8" High x 13" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	544.23	106.37
			<i>For 36" Height Cabinet, Add</i>	61.36	
12 56 53 00-0278	EA		21" Wide x 30-5/8" High x 13" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	559.71	109.03
			<i>For 36" Height Cabinet, Add</i>	63.11	
12 56 53 00-0279	EA		24" Wide x 30-5/8" High x 13" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	581.02	113.46
			<i>For 36" Height Cabinet, Add</i>	65.51	
12 56 53 00-0280	EA		30" Wide x 30-5/8" High x 13" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	800.85	156.46
			<i>For 36" Height Cabinet, Add</i>	90.30	
12 56 53 00-0281	EA		36" Wide x 30-5/8" High x 13" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	852.18	166.21
			<i>For 36" Height Cabinet, Add</i>	96.09	
12 56 53 00-0282	EA		42" Wide x 30-5/8" High x 13" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	875.37	171.09
			<i>For 36" Height Cabinet, Add</i>	98.70	
12 56 53 00-0283	EA		48" Wide x 30-5/8" High x 13" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	928.65	181.28
			<i>For 36" Height Cabinet, Add</i>	104.71	
12 56 53 00-0284	EA		30" Wide x 30-5/8" High x 13" Deep, Solid Sliding Door, Wood Laboratory Wall Cabinet	716.63	139.62
			<i>For 36" Height Cabinet, Add</i>	80.80	
12 56 53 00-0285	EA		36" Wide x 30-5/8" High x 13" Deep, Solid Sliding Door, Wood Laboratory Wall Cabinet	773.53	151.14
			<i>For 36" Height Cabinet, Add</i>	87.24	
12 56 53 00-0286	EA		42" Wide x 30-5/8" High x 13" Deep, Solid Sliding Door, Wood Laboratory Wall Cabinet	825.93	161.33
			<i>For 36" Height Cabinet, Add</i>	93.14	
12 56 53 00-0287	EA		48" Wide x 30-5/8" High x 13" Deep, Solid Sliding Door, Wood Laboratory Wall Cabinet	884.04	172.86
			<i>For 36" Height Cabinet, Add</i>	99.69	
12 56 53 00-0288	EA		30" Wide x 30-5/8" High x 13" Deep, Glass Sliding Door, Wood Laboratory Wall Cabinet	865.93	168.86
			<i>For 36" Height Cabinet, Add</i>	97.61	
12 56 53 00-0289	EA		36" Wide x 30-5/8" High x 13" Deep, Glass Sliding Door, Wood Laboratory Wall Cabinet	920.10	179.51
			<i>For 36" Height Cabinet, Add</i>	103.73	
12 56 53 00-0290	EA		42" Wide x 30-5/8" High x 13" Deep, Glass Sliding Door, Wood Laboratory Wall Cabinet	948.99	185.26
			<i>For 36" Height Cabinet, Add</i>	107.00	
12 56 53 00-0291	EA		48" Wide x 30-5/8" High x 13" Deep, Glass Sliding Door, Wood Laboratory Wall Cabinet	1,001.26	195.46
			<i>For 36" Height Cabinet, Add</i>	112.90	
12 56 53 00-0292	EA		23-1/2" Wide x 30-5/8" High x 13" Deep, Corner With Solid Swinging Door, Wood Laboratory Wall Cabinet	1,055.70	206.10
			<i>For 36" Height Cabinet, Add</i>	119.01	
12 56 53 00-0293	EA		23-1/2" Wide x 30-5/8" High x 13" Deep, Corner With Glass Swinging Door, Wood Laboratory Wall Cabinet	1,099.03	214.96
			<i>For 36" Height Cabinet, Add</i>	123.93	
12 56 53 00-0294			30-5/8" High x 16" Deep, Wood Laboratory Wall Cabinets <small>(12 56 53 00-0194)</small>		
12 56 53 00-0295	EA		30" Wide x 30-5/8" High x 16" Deep, Open, Wood Laboratory Wall Cabinet.....	526.80	102.83
			<i>For 36" Height Cabinet, Add</i>	59.40	
12 56 53 00-0296	EA		36" Wide x 30-5/8" High x 16" Deep, Open, Wood Laboratory Wall Cabinet	577.15	112.58
			<i>For 36" Height Cabinet, Add</i>	65.08	
12 56 53 00-0297	EA		42" Wide x 30-5/8" High x 16" Deep, Open, Wood Laboratory Wall Cabinet	605.24	118.34
			<i>For 36" Height Cabinet, Add</i>	68.24	
12 56 53 00-0298	EA		48" Wide x 30-5/8" High x 16" Deep, Open, Wood Laboratory Wall Cabinet.....	643.01	124.99
			<i>For 36" Height Cabinet, Add</i>	72.50	
12 56 53 00-0299	EA		15" Wide x 30-5/8" High x 16" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	490.00	95.73
			<i>For 36" Height Cabinet, Add</i>	55.25	
12 56 53 00-0300	EA		18" Wide x 30-5/8" High x 16" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	516.15	101.06
			<i>For 36" Height Cabinet, Add</i>	58.20	
12 56 53 00-0301	EA		21" Wide x 30-5/8" High x 16" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	531.60	104.16
			<i>For 36" Height Cabinet, Add</i>	59.94	
12 56 53 00-0302	EA		24" Wide x 30-5/8" High x 16" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	553.90	107.71
			<i>For 36" Height Cabinet, Add</i>	62.45	
12 56 53 00-0303	EA		30" Wide x 30-5/8" High x 16" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	727.29	141.83
			<i>For 36" Height Cabinet, Add</i>	82.00	
12 56 53 00-0304	EA		36" Wide x 30-5/8" High x 16" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	789.23	153.80
			<i>For 36" Height Cabinet, Add</i>	88.99	
12 56 53 00-0305	EA		42" Wide x 30-5/8" High x 16" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	824.09	161.33
			<i>For 36" Height Cabinet, Add</i>	92.92	
12 56 53 00-0306	EA		48" Wide x 30-5/8" High x 16" Deep, Solid Swinging Door, Wood Laboratory Wall Cabinet.....	870.54	169.76
			<i>For 36" Height Cabinet, Add</i>	98.16	
12 56 53 00-0307	EA		15" Wide x 30-5/8" High x 16" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	548.09	107.26
			<i>For 36" Height Cabinet, Add</i>	61.80	
12 56 53 00-0308	EA		18" Wide x 30-5/8" High x 16" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	564.57	110.36
			<i>For 36" Height Cabinet, Add</i>	63.66	
12 56 53 00-0309	EA		21" Wide x 30-5/8" High x 16" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	582.95	113.46
			<i>For 36" Height Cabinet, Add</i>	65.73	
12 56 53 00-0310	EA		24" Wide x 30-5/8" High x 16" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	612.98	119.67
			<i>For 36" Height Cabinet, Add</i>	69.12	
12 56 53 00-0311	EA		30" Wide x 30-5/8" High x 16" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	835.72	163.11
			<i>For 36" Height Cabinet, Add</i>	94.23	
12 56 53 00-0312	EA		36" Wide x 30-5/8" High x 16" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	901.58	175.96
			<i>For 36" Height Cabinet, Add</i>	101.65	
12 56 53 00-0313	EA		42" Wide x 30-5/8" High x 16" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	929.59	181.72
			<i>For 36" Height Cabinet, Add</i>	104.82	
12 56 53 00-0314	EA		48" Wide x 30-5/8" High x 16" Deep, Glass Swinging Door, Wood Laboratory Wall Cabinet	989.68	193.24
			<i>For 36" Height Cabinet, Add</i>	111.59	
12 56 53 00-0315	EA		30" Wide x 30-5/8" High x 16" Deep, Solid Sliding Door, Wood Laboratory Wall Cabinet	750.55	146.27
			<i>For 36" Height Cabinet, Add</i>	84.62	

12 Furnishings

12 50 Furniture

12 56 Institutional Furniture



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 56 53 00-0316 EA 36" Wide x 30-5/8" High x 16" Deep, Solid Sliding Door, Wood Laboratory Wall Cabinet..... <i>For 36" Height Cabinet, Add</i>	829.69 93.57	162.22
12 56 53 00-0317 EA 42" Wide x 30-5/8" High x 16" Deep, Solid Sliding Door, Wood Laboratory Wall Cabinet..... <i>For 36" Height Cabinet, Add</i>	871.44 98.27	170.20
12 56 53 00-0318 EA 48" Wide x 30-5/8" High x 16" Deep, Solid Sliding Door, Wood Laboratory Wall Cabinet..... <i>For 36" Height Cabinet, Add</i>	931.67 105.04	182.16
12 56 53 00-0319 EA 30" Wide x 30-5/8" High x 16" Deep, Glass Sliding Door, Wood Laboratory Wall Cabinet..... <i>For 36" Height Cabinet, Add</i>	904.70 101.98	176.40
12 56 53 00-0320 EA 36" Wide x 30-5/8" High x 16" Deep, Glass Sliding Door, Wood Laboratory Wall Cabinet..... <i>For 36" Height Cabinet, Add</i>	961.75 108.42	187.49
12 56 53 00-0321 EA 42" Wide x 30-5/8" High x 16" Deep, Glass Sliding Door, Wood Laboratory Wall Cabinet..... <i>For 36" Height Cabinet, Add</i>	1,000.33 112.79	195.46
12 56 53 00-0322 EA 48" Wide x 30-5/8" High x 16" Deep, Glass Sliding Door, Wood Laboratory Wall Cabinet..... <i>For 36" Height Cabinet, Add</i>	1,054.49 118.91	205.66
12 56 53 00-0323 EA 26-1/2" Wide x 30-5/8" High x 16" Deep, Corner With Solid Swinging Door, Wood Laboratory Wall Cabinet..... <i>For 36" Height Cabinet, Add</i>	1,105.07 124.58	215.85
12 56 53 00-0324 EA 26-1/2" Wide x 30-5/8" High x 16" Deep, Corner With Glass Swinging Door, Wood Laboratory Wall Cabinet..... <i>For 36" Height Cabinet, Add</i>	1,140.62 128.62	222.94
12 56 53 00-0325 Plastic Laminate Laboratory Furniture (12 56 53)		
12 56 53 00-0326 Plastic Laminate Laboratory Cabinets (12 56 53 00-0325)		
12 56 53 00-0327 28-1/2" High x 22.3" Deep, Plastic Laminate Laboratory Base Cabinet (12 56 53 00-0326)		
12 56 53 00-0328 EA 15" Wide x 28-1/2" High x 22.3" Deep, Open, Plastic Laminate Laboratory Base Cabinet.....	597.33	69.94
12 56 53 00-0329 EA 18" Wide x 28-1/2" High x 22.3" Deep, Open, Plastic Laminate Laboratory Base Cabinet.....	616.70	72.24
12 56 53 00-0330 EA 21" Wide x 28-1/2" High x 22.3" Deep, Open, Plastic Laminate Laboratory Base Cabinet.....	636.06	74.46
12 56 53 00-0331 EA 24" Wide x 28-1/2" High x 22.3" Deep, Open, Plastic Laminate Laboratory Base Cabinet.....	655.42	76.77
12 56 53 00-0332 EA 30" Wide x 28-1/2" High x 22.3" Deep, Open, Plastic Laminate Laboratory Base Cabinet.....	728.10	85.27
12 56 53 00-0333 EA 36" Wide x 28-1/2" High x 22.3" Deep, Open, Plastic Laminate Laboratory Base Cabinet.....	776.53	90.95
12 56 53 00-0334 EA 42" Wide x 28-1/2" High x 22.3" Deep, Open, Plastic Laminate Laboratory Base Cabinet.....	812.05	95.11
12 56 53 00-0335 EA 48" Wide x 28-1/2" High x 22.3" Deep, Open, Plastic Laminate Laboratory Base Cabinet.....	855.65	100.26
12 56 53 00-0336 EA 15" Wide x 28-1/2" High x 22.3" Deep, Door Cabinet With Shelf, Plastic Laminate Laboratory Base Cabinet.....	726.49	85.10
12 56 53 00-0337 EA 18" Wide x 28-1/2" High x 22.3" Deep, Door Cabinet With Shelf, Plastic Laminate Laboratory Base Cabinet.....	752.32	88.11
12 56 53 00-0338 EA 21" Wide x 28-1/2" High x 22.3" Deep, Door Cabinet With Shelf, Plastic Laminate Laboratory Base Cabinet.....	768.46	89.97
12 56 53 00-0339 EA 24" Wide x 28-1/2" High x 22.3" Deep, Door Cabinet With Shelf, Plastic Laminate Laboratory Base Cabinet.....	789.43	92.46
12 56 53 00-0340 EA 30" Wide x 28-1/2" High x 22.3" Deep, Door Cabinet With Shelf, Plastic Laminate Laboratory Base Cabinet.....	1,015.51	118.96
12 56 53 00-0341 EA 36" Wide x 28-1/2" High x 22.3" Deep, Door Cabinet With Shelf, Plastic Laminate Laboratory Base Cabinet.....	1,078.25	126.23
12 56 53 00-0342 EA 42" Wide x 28-1/2" High x 22.3" Deep, Door Cabinet With Shelf, Plastic Laminate Laboratory Base Cabinet.....	1,113.95	130.48
12 56 53 00-0343 EA 48" Wide x 28-1/2" High x 22.3" Deep, Door Cabinet With Shelf, Plastic Laminate Laboratory Base Cabinet.....	1,157.70	135.62
12 56 53 00-0344 EA 15" Wide x 28-1/2" High x 22.3" Deep, 3 Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,066.99	124.90
12 56 53 00-0345 EA 18" Wide x 28-1/2" High x 22.3" Deep, 3 Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,104.42	129.42
12 56 53 00-0346 EA 21" Wide x 28-1/2" High x 22.3" Deep, 3 Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,133.33	132.79
12 56 53 00-0347 EA 24" Wide x 28-1/2" High x 22.3" Deep, 3 Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,172.12	137.31
12 56 53 00-0348 EA 15" Wide x 28-1/2" High x 22.3" Deep, 4 Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,084.90	127.03
12 56 53 00-0349 EA 18" Wide x 28-1/2" High x 22.3" Deep, 4 Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,128.49	132.17
12 56 53 00-0350 EA 21" Wide x 28-1/2" High x 22.3" Deep, 4 Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,160.77	135.98
12 56 53 00-0351 EA 24" Wide x 28-1/2" High x 22.3" Deep, 4 Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,197.92	140.32
12 56 53 00-0352 EA 15" Wide x 28-1/2" High x 22.3" Deep, Combination Door/Drawer, Plastic Laminate Laboratory Base Cabinet.....	864.85	85.10
12 56 53 00-0353 EA 18" Wide x 28-1/2" High x 22.3" Deep, Combination Door/Drawer, Plastic Laminate Laboratory Base Cabinet.....	896.39	88.20
12 56 53 00-0354 EA 21" Wide x 28-1/2" High x 22.3" Deep, Combination Door/Drawer, Plastic Laminate Laboratory Base Cabinet.....	915.53	89.97
12 56 53 00-0355 EA 24" Wide x 28-1/2" High x 22.3" Deep, Combination Door/Drawer, Plastic Laminate Laboratory Base Cabinet.....	940.43	92.64
12 56 53 00-0356 EA 30" Wide x 28-1/2" High x 22.3" Deep, Combination Door/Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,373.63	160.89
12 56 53 00-0357 EA 36" Wide x 28-1/2" High x 22.3" Deep, Combination Door/Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,475.60	172.86
12 56 53 00-0358 EA 42" Wide x 28-1/2" High x 22.3" Deep, Combination Door/Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,512.26	177.28
12 56 53 00-0359 EA 48" Wide x 28-1/2" High x 22.3" Deep, Combination Door/Drawer, Plastic Laminate Laboratory Base Cabinet.....	1,585.20	185.72
12 56 53 00-0360 EA 15" Wide Cabinet, 1 Drawer Over Cupboard.....	803.97	94.15
12 56 53 00-0361 EA 18" Wide x 28-1/2" High x 22.3" Deep, 1 Drawer Over Cupboard, Plastic Laminate Laboratory Base Cabinets.....	833.03	97.60
12 56 53 00-0362 EA 21" Wide x 28-1/2" High x 22.3" Deep, 1 Drawer Over Cupboard, Plastic Laminate Laboratory Base Cabinet.....	850.79	99.64
12 56 53 00-0363 EA 24" Wide x 28-1/2" High x 22.3" Deep, 1 Drawer Over Cupboard, Plastic Laminate Laboratory Base Cabinet.....	875.01	102.48
12 56 53 00-0364 EA 30" Wide x 28-1/2" High x 22.3" Deep, Double Drawer Over Cupboard, Plastic Laminate Laboratory Base Cabinet.....	1,297.98	152.02
12 56 53 00-0365 EA 36" Wide x 28-1/2" High x 22.3" Deep, Double Drawer Over Cupboard, Plastic Laminate Laboratory Base Cabinet.....	1,357.72	159.03
12 56 53 00-0366 EA 42" Wide x 28-1/2" High x 22.3" Deep, Double Drawer Over Cupboard, Plastic Laminate Laboratory Base Cabinet.....	1,396.45	163.55
12 56 53 00-0367 EA 48" Wide x 28-1/2" High x 22.3" Deep, Double Drawer Over Cupboard, Plastic Laminate Laboratory Base Cabinet.....	1,446.52	169.40
12 56 53 00-0368 EA 22.3" Wide x 28-1/2" High x 22.3" Deep, Diagonal Corner, Plastic Laminate Laboratory Base Cabinet.....	1,695.20	198.56
12 56 53 00-0369 EA 22.3" Wide x 28-1/2" High x 22.3" Deep, Diagonal Corner With Lazy Susan, Plastic Laminate Laboratory Base Cabinet.....	1,879.12	220.10
12 56 53 00-0370 EA 15" Wide x 28-1/2" High x 22.3" Deep, Sink, Plastic Laminate Laboratory Base Cabinet.....	661.91	77.57
12 56 53 00-0371 EA 18" Wide x 28-1/2" High x 22.3" Deep, Sink, Plastic Laminate Laboratory Base Cabinet.....	682.89	79.96
12 56 53 00-0372 EA 21" Wide x 28-1/2" High x 22.3" Deep, Sink, Plastic Laminate Laboratory Base Cabinet.....	695.81	81.47
12 56 53 00-0373 EA 24" Wide x 28-1/2" High x 22.3" Deep, Sink, Plastic Laminate Laboratory Base Cabinet.....	711.94	83.41
12 56 53 00-0374 EA 30" Wide x 28-1/2" High x 22.3" Deep, Sink, Plastic Laminate Laboratory Base Cabinet.....	912.14	106.82
12 56 53 00-0375 EA 36" Wide x 28-1/2" High x 22.3" Deep, Sink, Plastic Laminate Laboratory Base Cabinet.....	958.95	112.31
12 56 53 00-0376 EA 42" Wide x 28-1/2" High x 22.3" Deep, Sink, Plastic Laminate Laboratory Base Cabinet.....	986.40	115.50
12 56 53 00-0377 EA 48" Wide x 28-1/2" High x 22.3" Deep, Sink, Plastic Laminate Laboratory Base Cabinet.....	1,015.46	118.96
12 56 53 00-0378 30.6" High x 12" Deep, Plastic Laminate Laboratory Wall Cabinet (12 56 53 00-0326)		
12 56 53 00-0379 EA 15" Wide x 30.6" High x 12" Deep, Open, Plastic Laminate Laboratory Wall Cabinet..... <i>For 36" Height Cabinet, Add</i>	710.35 100.63	83.24



		Furnishings	12
		Furniture	12 50
		Institutional Furniture	12 56

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 56 53 00-0380	EA		18" Wide x 30.6" High x 12" Deep, Open, Plastic Laminate Laboratory Wall Cabinet	737.79	86.43
			<i>For 36" Height Cabinet, Add</i>	104.52	
12 56 53 00-0381	EA		21" Wide x 30.6" High x 12" Deep, Open, Plastic Laminate Laboratory Wall Cabinet	757.17	88.64
			<i>For 36" Height Cabinet, Add</i>	107.26	
12 56 53 00-0382	EA		24" Wide x 30.6" High x 12" Deep, Open, Plastic Laminate Laboratory Wall Cabinet	690.96	80.94
			<i>For 36" Height Cabinet, Add</i>	97.89	
12 56 53 00-0383	EA		30" Wide x 30.6" High x 12" Deep, Open, Plastic Laminate Laboratory Wall Cabinet	794.30	93.08
			<i>For 36" Height Cabinet, Add</i>	112.52	
12 56 53 00-0384	EA		36" Wide x 30.6" High x 12" Deep, Open, Plastic Laminate Laboratory Wall Cabinet	860.49	100.79
			<i>For 36" Height Cabinet, Add</i>	121.90	
12 56 53 00-0385	EA		42" Wide x 30.6" High x 12" Deep, Open, Plastic Laminate Laboratory Wall Cabinet	899.22	105.31
			<i>For 36" Height Cabinet, Add</i>	127.39	
12 56 53 00-0386	EA		48" Wide x 30.6" High x 12" Deep, Open, Plastic Laminate Laboratory Wall Cabinet	952.51	111.60
			<i>For 36" Height Cabinet, Add</i>	134.94	
12 56 53 00-0387	EA		15" Wide x 30.6" High x 12" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	779.77	91.31
			<i>For 36" Height Cabinet, Add</i>	110.46	
12 56 53 00-0388	EA		18" Wide x 30.6" High x 12" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	815.28	95.47
			<i>For 36" Height Cabinet, Add</i>	115.50	
12 56 53 00-0389	EA		21" Wide x 30.6" High x 12" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	2,065.51	1,000.09
			<i>For 36" Height Cabinet, Add</i>	12.10	
12 56 53 00-0390	EA		24" Wide x 30.6" High x 12" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	876.63	102.65
			<i>For 36" Height Cabinet, Add</i>	124.19	
12 56 53 00-0391	EA		30" Wide x 30.6" High x 12" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,146.25	134.30
			<i>For 36" Height Cabinet, Add</i>	162.38	
12 56 53 00-0392	EA		36" Wide x 30.6" High x 12" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,235.03	144.67
			<i>For 36" Height Cabinet, Add</i>	174.96	
12 56 53 00-0393	EA		42" Wide x 30.6" High x 12" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,291.53	151.23
			<i>For 36" Height Cabinet, Add</i>	182.96	
12 56 53 00-0394	EA		48" Wide x 30.6" High x 12" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,359.32	159.21
			<i>For 36" Height Cabinet, Add</i>	192.57	
12 56 53 00-0395	EA		15" Wide x 30.6" High x 12" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	873.40	102.29
			<i>For 36" Height Cabinet, Add</i>	123.73	
12 56 53 00-0396	EA		18" Wide x 30.6" High x 12" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	907.31	106.29
			<i>For 36" Height Cabinet, Add</i>	128.53	
12 56 53 00-0397	EA		21" Wide x 30.6" High x 12" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	933.12	109.30
			<i>For 36" Height Cabinet, Add</i>	132.19	
12 56 53 00-0398	EA		24" Wide x 30.6" High x 12" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	968.64	113.46
			<i>For 36" Height Cabinet, Add</i>	137.22	
12 56 53 00-0399	EA		30" Wide x 30.6" High x 12" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,335.12	156.37
			<i>For 36" Height Cabinet, Add</i>	189.14	
12 56 53 00-0400	EA		36" Wide x 30.6" High x 12" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,420.69	166.39
			<i>For 36" Height Cabinet, Add</i>	201.26	
12 56 53 00-0401	EA		42" Wide x 30.6" High x 12" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,459.39	170.91
			<i>For 36" Height Cabinet, Add</i>	206.75	
12 56 53 00-0402	EA		48" Wide x 30.6" High x 12" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,548.20	181.37
			<i>For 36" Height Cabinet, Add</i>	219.33	
12 56 53 00-0403	EA		30" Wide x 30.6" High x 12" Deep, Solid Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,194.70	139.97
			<i>For 36" Height Cabinet, Add</i>	169.24	
12 56 53 00-0404	EA		36" Wide x 30.6" High x 12" Deep, Solid Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,289.72	150.97
			<i>For 36" Height Cabinet, Add</i>	182.74	
12 56 53 00-0405	EA		42" Wide x 30.6" High x 12" Deep, Solid Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,377.00	161.25
			<i>For 36" Height Cabinet, Add</i>	195.08	
12 56 53 00-0406	EA		48" Wide x 30.6" High x 12" Deep, Solid Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,473.88	172.77
			<i>For 36" Height Cabinet, Add</i>	208.81	
12 56 53 00-0407	EA		30" Wide x 30.6" High x 12" Deep, Glass Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,443.49	169.14
			<i>For 36" Height Cabinet, Add</i>	204.46	
12 56 53 00-0408	EA		36" Wide x 30.6" High x 12" Deep, Glass Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,533.84	179.68
			<i>For 36" Height Cabinet, Add</i>	217.27	
12 56 53 00-0409	EA		42" Wide x 30.6" High x 12" Deep, Glass Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,582.11	185.26
			<i>For 36" Height Cabinet, Add</i>	224.13	
12 56 53 00-0410	EA		48" Wide x 30.6" High x 12" Deep, Glass Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,669.26	195.46
			<i>For 36" Height Cabinet, Add</i>	236.48	
12 56 53 00-0411			30.6" High x 16" Deep, Plastic Laminate Laboratory Wall Cabinet (12 56 53 00-0326)		
12 56 53 00-0412	EA		15" Wide x 30.6" High x 16" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	816.90	95.64
			<i>For 36" Height Cabinet, Add</i>	115.72	
12 56 53 00-0413	EA		18" Wide x 30.6" High x 16" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	860.49	100.79
			<i>For 36" Height Cabinet, Add</i>	121.90	
12 56 53 00-0414	EA		21" Wide x 30.6" High x 16" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	886.28	103.80
			<i>For 36" Height Cabinet, Add</i>	125.56	
12 56 53 00-0415	EA		24" Wide x 30.6" High x 16" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	923.44	108.15
			<i>For 36" Height Cabinet, Add</i>	130.82	
12 56 53 00-0416	EA		30" Wide x 30.6" High x 16" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,212.47	142.01
			<i>For 36" Height Cabinet, Add</i>	171.76	
12 56 53 00-0417	EA		36" Wide x 30.6" High x 16" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,315.76	154.16
			<i>For 36" Height Cabinet, Add</i>	186.39	
12 56 53 00-0418	EA		42" Wide x 30.6" High x 16" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,373.87	160.89
			<i>For 36" Height Cabinet, Add</i>	194.63	
12 56 53 00-0419	EA		48" Wide x 30.6" High x 16" Deep, Solid Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,451.33	169.93
			<i>For 36" Height Cabinet, Add</i>	205.61	
12 56 53 00-0420	EA		15" Wide x 30.6" High x 16" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	913.75	106.99
			<i>For 36" Height Cabinet, Add</i>	129.45	

12 Furnishings**12 50 Furniture****12 56 Institutional Furniture**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 56 53 00-0421	EA		18" Wide x 30.6" High x 16" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	941.21	110.27
			<i>For 36" Height Cabinet, Add</i>	133.34	
12 56 53 00-0422	EA		21" Wide x 30.6" High x 16" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	971.87	113.82
			<i>For 36" Height Cabinet, Add</i>	137.68	
12 56 53 00-0423	EA		24" Wide x 30.6" High x 16" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,021.92	119.67
			<i>For 36" Height Cabinet, Add</i>	144.77	
12 56 53 00-0424	EA		30" Wide x 30.6" High x 16" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,393.26	163.19
			<i>For 36" Height Cabinet, Add</i>	197.37	
12 56 53 00-0425	EA		36" Wide x 30.6" High x 16" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,503.04	176.05
			<i>For 36" Height Cabinet, Add</i>	212.92	
12 56 53 00-0426	EA		42" Wide x 30.6" High x 16" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,549.79	181.46
			<i>For 36" Height Cabinet, Add</i>	219.56	
12 56 53 00-0427	EA		48" Wide x 30.6" High x 16" Deep, Glass Swinging Door, Plastic Laminate Laboratory Wall Cabinet.....	1,649.93	193.24
			<i>For 36" Height Cabinet, Add</i>	233.74	
12 56 53 00-0428	EA		30" Wide x 30.6" High x 16" Deep, Solid Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,251.23	146.53
			<i>For 36" Height Cabinet, Add</i>	177.25	
12 56 53 00-0429	EA		36" Wide x 30.6" High x 16" Deep, Solid Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,383.35	161.95
			<i>For 36" Height Cabinet, Add</i>	196.00	
12 56 53 00-0430	EA		42" Wide x 30.6" High x 16" Deep, Solid Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,452.88	170.11
			<i>For 36" Height Cabinet, Add</i>	205.83	
12 56 53 00-0431	EA		48" Wide x 30.6" High x 16" Deep, Solid Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,553.16	181.98
			<i>For 36" Height Cabinet, Add</i>	220.01	
12 56 53 00-0432	EA		30" Wide x 30.6" High x 16" Deep, Glass Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,508.10	176.76
			<i>For 36" Height Cabinet, Add</i>	213.61	
12 56 53 00-0433	EA		36" Wide x 30.6" High x 16" Deep, Glass Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,603.27	187.84
			<i>For 36" Height Cabinet, Add</i>	227.10	
12 56 53 00-0434	EA		42" Wide x 30.6" High x 16" Deep, Glass Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,667.69	195.28
			<i>For 36" Height Cabinet, Add</i>	236.25	
12 56 53 00-0435	EA		48" Wide x 30.6" High x 16" Deep, Glass Sliding Door, Plastic Laminate Laboratory Wall Cabinet.....	1,758.03	205.93
			<i>For 36" Height Cabinet, Add</i>	249.06	

12 59 Systems Furniture (12 50)**12 59 13 Panel-Hung Component System Furniture** (12 59)**12 59 13 00-0001 Open Office Systems Furniture Components** (12 59 13)

Note: Excludes electrical wire and wiring devices.

12 59 13 00-0002	EA		34H 24W Fabric Covered Panel - Component Systems Furniture.....	190.29	21.37
			<i>For Tackable Acoustical Barrier Panel, Add</i>	31.49	
			<i>For Acoustical Panel, Add</i>	34.23	
			<i>For Enameled Surface, Deduct</i>	-13.69	
12 59 13 00-0003	EA		34H 30W Fabric Covered Panel - Component Systems Furniture.....	211.50	23.78
			<i>For Tackable Acoustical Barrier Panel, Add</i>	34.99	
			<i>For Acoustical Panel, Add</i>	38.04	
			<i>For Enameled Surface, Deduct</i>	-15.22	
12 59 13 00-0004	EA		34H 36W Fabric Covered Panel - Component Systems Furniture.....	226.14	25.33
			<i>For Tackable Acoustical Barrier Panel, Add</i>	37.42	
			<i>For Acoustical Panel, Add</i>	40.67	
			<i>For Enameled Surface, Deduct</i>	-16.27	
12 59 13 00-0005	EA		34H 48W Fabric Covered Panel - Component Systems Furniture.....	253.39	28.44
			<i>For Tackable Acoustical Barrier Panel, Add</i>	41.93	
			<i>For Acoustical Panel, Add</i>	45.58	
			<i>For Enameled Surface, Deduct</i>	-18.23	
12 59 13 00-0006	EA		42H 24W Fabric Covered Panel - Component Systems Furniture.....	193.32	21.68
			<i>For Tackable Acoustical Barrier Panel, Add</i>	31.99	
			<i>For Acoustical Panel, Add</i>	34.77	
			<i>For Enameled Surface, Deduct</i>	-13.91	
12 59 13 00-0007	EA		42H 30W Fabric Covered Panel - Component Systems Furniture.....	218.54	24.48
			<i>For Tackable Acoustical Barrier Panel, Add</i>	36.16	
			<i>For Acoustical Panel, Add</i>	39.31	
			<i>For Enameled Surface, Deduct</i>	-15.72	
12 59 13 00-0008	EA		42H 36W Fabric Covered Panel - Component Systems Furniture.....	244.79	27.51
			<i>For Tackable Acoustical Barrier Panel, Add</i>	40.51	
			<i>For Acoustical Panel, Add</i>	44.03	
			<i>For Enameled Surface, Deduct</i>	-17.61	
12 59 13 00-0009	EA		42H 48W Fabric Covered Panel - Component Systems Furniture.....	287.71	32.25
			<i>For Tackable Acoustical Barrier Panel, Add</i>	47.61	
			<i>For Acoustical Panel, Add</i>	51.75	
			<i>For Enameled Surface, Deduct</i>	-20.70	
12 59 13 00-0010	EA		62H 12W Fabric Covered Panel - Component Systems Furniture.....	186.25	20.91
			<i>For Tackable Acoustical Barrier Panel, Add</i>	30.82	
			<i>For Acoustical Panel, Add</i>	33.50	
			<i>For Enameled Surface, Deduct</i>	-13.40	
12 59 13 00-0011	EA		62H 24W Fabric Covered Panel - Component Systems Furniture.....	229.16	25.72
			<i>For Tackable Acoustical Barrier Panel, Add</i>	37.92	
			<i>For Acoustical Panel, Add</i>	41.22	
			<i>For Enameled Surface, Deduct</i>	-16.49	
12 59 13 00-0012	EA		62H 36W Fabric Covered Panel - Component Systems Furniture.....	286.72	32.17
			<i>For Tackable Acoustical Barrier Panel, Add</i>	47.44	
			<i>For Acoustical Panel, Add</i>	51.57	
			<i>For Enameled Surface, Deduct</i>	-20.63	



		Furnishings	12
		Furniture	12 50
		Systems Furniture	12 59

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 59 13 00-0013	EA		62H 48W Fabric Covered Panel - Component Systems Furniture..... <i>For Tackable Acoustical Barrier Panel, Add</i> <i>For Acoustical Panel, Add</i> <i>For Enameled Surface, Deduct</i>	343.22 56.80 61.74 -24.69	38.47
12 59 13 00-0014	EA		34" Draw Rod Panel Connector Hardware.....	10.40	1.16
12 59 13 00-0015	EA		42" Draw Rod Panel Connector Hardware.....	10.40	1.16
12 59 13 00-0016	EA		62" Draw Rod Panel Connector Hardware.....	11.09	1.24
12 59 13 00-0017	EA		34" Two-Way 90 Degree Panel Connector Hardware.....	47.80	5.37
12 59 13 00-0018	EA		42" Two-Way 90 Degree Panel Connector Hardware.....	55.42	6.22
12 59 13 00-0019	EA		62" Two-Way 90 Degree Panel Connector Hardware.....	63.74	7.15
12 59 13 00-0020	EA		34" Three-Way 90 Degree Panel Connector Hardware.....	74.13	8.31
12 59 13 00-0021	EA		42" Three-Way 90 Degree Panel Connector Hardware.....	85.91	9.64
12 59 13 00-0022	EA		62" Three-Way 90 Degree Panel Connector Hardware.....	99.76	11.19
12 59 13 00-0023	EA		34" Four-Way 90 Degree Panel Connector Hardware.....	93.53	10.49
12 59 13 00-0024	EA		42" Four-Way 90 Degree Panel Connector Hardware.....	109.47	12.27
12 59 13 00-0025	EA		62" Four-Way 90 Degree Panel Connector Hardware.....	131.63	14.76
12 59 13 00-0026	EA		34" Panel End Cap Hardware.....	15.93	1.78
12 59 13 00-0027	EA		42" Panel End Cap Hardware.....	18.01	2.02
12 59 13 00-0028	EA		62" Panel End Cap Hardware.....	19.41	2.18
12 59 13 00-0029	EA		28" Variable Height Panel End Filler..... Note: Field cut to appropriate length.	17.58	2.02
12 59 13 00-0030	EA		Two-Way Trim Cover For Cable Management Raceway.....	9.05	1.01
12 59 13 00-0031	EA		Three-Way Trim Cover For Cable Management Raceway.....	9.54	1.08
12 59 13 00-0032	EA		Four-Way Trim Cover For Cable Management Raceway.....	11.05	1.24
12 59 13 00-0033	EA		Finished End Trim Cover For Cable Management Raceway.....	9.05	1.01
12 59 13 00-0034	EA		12" Cable Management Raceway Assembly..... Note: Includes base plate, two side covers, and 2 side cover fillers.	18.58	2.10
12 59 13 00-0035	EA		24" Cable Management Raceway Assembly..... Note: Includes base plate, two side covers, and 2 side cover fillers.	21.10	2.33
12 59 13 00-0036	EA		30" Cable Management Raceway Assembly..... Note: Includes base plate, two side covers, and 2 side cover fillers.	21.60	2.41
12 59 13 00-0037	EA		36" Cable Management Raceway Assembly..... Note: Includes base plate, two side covers, and 2 side cover fillers.	24.12	2.72
12 59 13 00-0038	EA		48" Cable Management Raceway Assembly..... Note: Includes base plate, two side covers, and 2 side cover fillers.	27.12	3.03
12 59 13 00-0039	EA		24" x 36" Radiused Edge Rectangular Hanging Work Surface.....	145.86	16.32
12 59 13 00-0040	EA		30" x 36" Radiused Edge Rectangular Hanging Work Surface.....	179.69	20.13
12 59 13 00-0041	EA		24" x 48" Radiused Edge Rectangular Hanging Work Surface.....	169.60	19.04
12 59 13 00-0042	EA		30" x 48" Radiused Edge Rectangular Hanging Work Surface.....	212.01	23.78
12 59 13 00-0043	EA		24" x 60" Radiused Edge Rectangular Hanging Work Surface.....	214.01	24.02
12 59 13 00-0044	EA		30" x 60" Radiused Edge Rectangular Hanging Work Surface.....	269.55	30.30
12 59 13 00-0045	EA		24" x 72" Radiused Edge Rectangular Hanging Work Surface.....	259.94	29.14
12 59 13 00-0046	EA		30" x 72" Radiused Edge Rectangular Hanging Work Surface.....	326.55	36.60
12 59 13 00-0047	EA		30" x 60" Radiused Edge Table.....	580.10	65.12
12 59 13 00-0048	EA		30" x 72" Radiused Edge Table.....	633.96	71.19
12 59 13 00-0049	EA		14" x 24" Radiused Edge Transaction Surface.....	69.65	7.85
12 59 13 00-0050	EA		14" x 36" Radiused Edge Transaction Surface.....	79.24	8.85
12 59 13 00-0051	EA		14" x 48" Radiused Edge Transaction Surface.....	88.83	9.95
12 59 13 00-0052	EA		14" x 60" Radiused Edge Transaction Surface.....	110.53	12.43
12 59 13 00-0053	EA		14" x 72" Radiused Edge Transaction Surface.....	132.74	14.92
12 59 13 00-0054	EA		14" Right Angle Corner Transaction Surface.....	232.20	26.03
12 59 13 00-0055	EA		Transaction Surface Support.....	18.38	2.06
12 59 13 00-0056	EA		Plastic Pencil Drawer.....	19.94	2.02
12 59 13 00-0057	EA		15-1/2" x 24" Hanging Shelf.....	67.81	7.61
12 59 13 00-0058	EA		15-1/2" x 36" Hanging Shelf.....	73.84	8.23
12 59 13 00-0059	EA		15-1/2" x 48" Hanging Shelf.....	78.86	8.85
12 59 13 00-0060	EA		24" Flipper Door - Top And Front Closure..... Note: Used with hanging shelf.	117.02	13.14
12 59 13 00-0061	EA		36" Flipper Door - Top And Front Closure..... Note: Used with hanging shelf.	136.62	15.38
12 59 13 00-0062	EA		48" Flipper Door - Top And Front Closure..... Note: Used with hanging shelf.	156.71	17.56
12 59 13 00-0063	EA		24" Suspended Lateral File, Lockable.....	403.36	45.04
12 59 13 00-0064	EA		30" Suspended Lateral File, Lockable.....	426.02	47.56
12 59 13 00-0065	EA		36" Suspended Lateral File, Lockable.....	449.51	50.19
12 59 13 00-0066	EA		48" Suspended Lateral File, Lockable.....	491.65	54.89
12 59 13 00-0067	EA		Fully Adjustable Vinyl Keyboard Tray.....	182.84	20.52
12 59 13 00-0068	EA		Palm Rest For Vinyl Keyboard Tray.....	28.62	3.26
12 59 13 00-0069	EA		24" x 36" Radiused Edge Corner Work Surface.....	230.99	25.95
12 59 13 00-0070	EA		File Drawer Organizer.....	74.35	8.31
12 59 13 00-0071	EA		Suspended Lateral File Converter Bracket.....	16.07	1.78
12 59 13 00-0072	EA		Utility Task Light.....	80.36	9.02
12 59 13 00-0073			Disassemble And Store Systems Furniture Components (12 59 13)		
12 59 13 00-0074	EA		Disassemble And Store 34H 24W Fabric Covered Panel.....	26.70	
12 59 13 00-0075	EA		Disassemble And Store 34H 30W Fabric Covered Panel.....	29.68	
12 59 13 00-0076	EA		Disassemble And Store 34H 36W Fabric Covered Panel.....	31.74	
12 59 13 00-0077	EA		Disassemble And Store 34H 48W Fabric Covered Panel.....	35.56	
12 59 13 00-0078	EA		Disassemble And Store 42H 24W Fabric Covered Panel.....	27.13	
12 59 13 00-0079	EA		Disassemble And Store 42H 30W Fabric Covered Panel.....	30.68	
12 59 13 00-0080	EA		Disassemble And Store 42H 36W Fabric Covered Panel.....	34.36	

12 Furnishings**12 50 Furniture****12 59 Systems Furniture**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

12 59 13 00-0081	EA	Disassemble And Store 42H 48W Fabric Covered Panel	40.38
12 59 13 00-0082	EA	Disassemble And Store 62H 12W Fabric Covered Panel	26.14
12 59 13 00-0083	EA	Disassemble And Store 62H 24W Fabric Covered Panel	32.16
12 59 13 00-0084	EA	Disassemble And Store 62H 36W Fabric Covered Panel	40.24
12 59 13 00-0085	EA	Disassemble And Store 62H 48W Fabric Covered Panel	48.18
12 59 13 00-0086	EA	Disassemble And Store 34" Draw Rod Panel Connector Hardware	1.45
12 59 13 00-0087	EA	Disassemble And Store 42" Draw Rod Panel Connector Hardware	1.45
12 59 13 00-0088	EA	Disassemble And Store 62" Draw Rod Panel Connector Hardware	1.55
12 59 13 00-0089	EA	Disassemble And Store 34" Two-Way 90 Degree Panel Connector Hardware	6.71
12 59 13 00-0090	EA	Disassemble And Store 42" Two-Way 90 Degree Panel Connector Hardware	7.78
12 59 13 00-0091	EA	Disassemble And Store 62" Two-Way 90 Degree Panel Connector Hardware	8.95
12 59 13 00-0092	EA	Disassemble And Store 34" Three-Way 90 Degree Panel Connector Hardware	10.40
12 59 13 00-0093	EA	Disassemble And Store 42" Three-Way 90 Degree Panel Connector Hardware	12.05
12 59 13 00-0094	EA	Disassemble And Store 62" Three-Way 90 Degree Panel Connector Hardware	14.00
12 59 13 00-0095	EA	Disassemble And Store 34" Four-Way 90 Degree Panel Connector Hardware	13.13
12 59 13 00-0096	EA	Disassemble And Store 42" Four-Way 90 Degree Panel Connector Hardware	15.36
12 59 13 00-0097	EA	Disassemble And Store 62" Four-Way 90 Degree Panel Connector Hardware	18.47
12 59 13 00-0098	EA	Disassemble And Store 34" Panel End Cap Hardware	2.24
12 59 13 00-0099	EA	Disassemble And Store 42" Panel End Cap Hardware	2.53
12 59 13 00-0100	EA	Disassemble And Store 62" Panel End Cap Hardware	2.72
12 59 13 00-0101	EA	Disassemble And Store Variable Height Panel End Filler	2.47
12 59 13 00-0102	EA	Disassemble And Store Two-Way Trim Cover For Cable Management Raceway	1.27
12 59 13 00-0103	EA	Disassemble And Store Three-Way Trim Cover For Cable Management Raceway	1.34
12 59 13 00-0104	EA	Disassemble And Store Four-Way Trim Cover For Cable Management Raceway	1.55
12 59 13 00-0105	EA	Disassemble And Store Finished End Trim Cover For Cable Management Raceway	1.27
12 59 13 00-0106	EA	Disassemble And Store 12" Cable Management Raceway Assembly	2.61
12 59 13 00-0107	EA	Disassemble And Store 24" Cable Management Raceway Assembly	2.96
12 59 13 00-0108	EA	Disassemble And Store 30" Cable Management Raceway Assembly	3.03
12 59 13 00-0109	EA	Disassemble And Store 36" Cable Management Raceway Assembly	3.38
12 59 13 00-0110	EA	Disassemble And Store 48" Cable Management Raceway Assembly	3.81
12 59 13 00-0111	EA	Disassemble And Store 24" x 36" Radiused Edge Rectangular Hanging Work Surface	20.47
12 59 13 00-0112	EA	Disassemble And Store 30" x 36" Radiused Edge Rectangular Hanging Work Surface	25.22
12 59 13 00-0113	EA	Disassemble And Store 24" x 48" Radiused Edge Rectangular Hanging Work Surface	23.81
12 59 13 00-0114	EA	Disassemble And Store 30" x 48" Radiused Edge Rectangular Hanging Work Surface	29.75
12 59 13 00-0115	EA	Disassemble And Store 24" x 60" Radiused Edge Rectangular Hanging Work Surface	30.03
12 59 13 00-0116	EA	Disassemble And Store 30" x 60" Radiused Edge Rectangular Hanging Work Surface	37.83
12 59 13 00-0117	EA	Disassemble And Store 24" x 72" Radiused Edge Rectangular Hanging Work Surface	36.48
12 59 13 00-0118	EA	Disassemble And Store 30" x 72" Radiused Edge Rectangular Hanging Work Surface	45.84
12 59 13 00-0119	EA	Disassemble And Store 30" x 60" Radiused Edge Table	70.78
12 59 13 00-0120	EA	Disassemble And Store 30" x 72" Radiused Edge Table	88.95
12 59 13 00-0121	EA	Disassemble And Store 14" x 24" Radiused Edge Transaction Surface	9.78
12 59 13 00-0122	EA	Disassemble And Store 14" x 36" Radiused Edge Transaction Surface	11.12
12 59 13 00-0123	EA	Disassemble And Store 14" x 48" Radiused Edge Transaction Surface	12.46
12 59 13 00-0124	EA	Disassemble And Store 14" x 60" Radiused Edge Transaction Surface	15.51
12 59 13 00-0125	EA	Disassemble And Store 14" x 72" Radiused Edge Transaction Surface	18.63
12 59 13 00-0126	EA	Disassemble And Store 14" Right Angle Corner Transaction Surface	32.59
12 59 13 00-0127	EA	Disassemble And Store Transaction Surface Support	2.58
12 59 13 00-0128	EA	Disassemble And Store Plastic Pencil Drawer	2.54
12 59 13 00-0129	EA	Disassemble And Store 15-1/2" x 24" Hanging Shelf	9.52
12 59 13 00-0130	EA	Disassemble And Store 15-1/2" x 36" Hanging Shelf	10.36
12 59 13 00-0131	EA	Disassemble And Store 15-1/2" x 48" Hanging Shelf	11.07
12 59 13 00-0132	EA	Disassemble And Store 24" Flipper Door And Shelf	16.43
12 59 13 00-0133	EA	Disassemble And Store 36" Flipper Door And Shelf	19.17
12 59 13 00-0134	EA	Disassemble And Store 48" Flipper Door And Shelf	21.99
12 59 13 00-0135	EA	Disassemble And Store 24" Suspended Lateral File	56.30
12 59 13 00-0136	EA	Disassemble And Store 30" Suspended Lateral File	59.46
12 59 13 00-0137	EA	Disassemble And Store 36" Suspended Lateral File	62.74
12 59 13 00-0138	EA	Disassemble And Store 48" Suspended Lateral File	68.61
12 59 13 00-0139	EA	Disassemble And Store Fully Adjustable Vinyl Keyboard Tray	25.66
12 59 13 00-0140	EA	Disassemble And Store 24" x 36" Radiused Edge Corner Work Surface	32.42
12 59 13 00-0141	EA	Disassemble And Store Utility Task Light	11.28

12 59 13 00-0142 Reconfigure Systems Furniture Components (12 59 13)

12 59 13 00-0143	EA	Reconfigure 34H 24W Fabric Covered Panel	28.48
12 59 13 00-0144	EA	Reconfigure 34H 30W Fabric Covered Panel	31.65
12 59 13 00-0145	EA	Reconfigure 34H 36W Fabric Covered Panel	33.83
12 59 13 00-0146	EA	Reconfigure 34H 48W Fabric Covered Panel	37.92
12 59 13 00-0147	EA	Reconfigure 42H 24W Fabric Covered Panel	28.92
12 59 13 00-0148	EA	Reconfigure 42H 30W Fabric Covered Panel	32.70
12 59 13 00-0149	EA	Reconfigure 42H 36W Fabric Covered Panel	36.63
12 59 13 00-0150	EA	Reconfigure 42H 48W Fabric Covered Panel	43.05
12 59 13 00-0151	EA	Reconfigure 62H 12W Fabric Covered Panel	27.87
12 59 13 00-0152	EA	Reconfigure 62H 24W Fabric Covered Panel	34.29
12 59 13 00-0153	EA	Reconfigure 62H 36W Fabric Covered Panel	42.90
12 59 13 00-0154	EA	Reconfigure 62H 48W Fabric Covered Panel	51.35
12 59 13 00-0155	EA	Reconfigure 34" Draw Rod Panel Connector Hardware	1.55
12 59 13 00-0156	EA	Reconfigure 42" Draw Rod Panel Connector Hardware	1.55
12 59 13 00-0157	EA	Reconfigure 62" Draw Rod Panel Connector Hardware	1.65
12 59 13 00-0158	EA	Reconfigure 34" Two-Way 90 Degree Panel Connector Hardware	7.15
12 59 13 00-0159	EA	Reconfigure 42" Two-Way 90 Degree Panel Connector Hardware	8.29



Furnishings	12	
Furniture	12 50	12
Systems Furniture	12 59	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 59 13 00-0160 EA Reconfigure 62" Two-Way 90 Degree Panel Connector Hardware.....	9.54	
12 59 13 00-0161 EA Reconfigure 34" Three-Way 90 Degree Panel Connector Hardware.....	11.09	
12 59 13 00-0162 EA Reconfigure 42" Three-Way 90 Degree Panel Connector Hardware.....	12.86	
12 59 13 00-0163 EA Reconfigure 62" Three-Way 90 Degree Panel Connector Hardware.....	14.93	
12 59 13 00-0164 EA Reconfigure 34" Four-Way 90 Degree Panel Connector Hardware.....	14.00	
12 59 13 00-0165 EA Reconfigure 42" Four-Way 90 Degree Panel Connector Hardware.....	16.38	
12 59 13 00-0166 EA Reconfigure 62" Four-Way 90 Degree Panel Connector Hardware.....	19.70	
12 59 13 00-0167 EA Reconfigure 34" Panel End Cap Hardware.....	2.39	
12 59 13 00-0168 EA Reconfigure 42" Panel End Cap Hardware.....	2.70	
12 59 13 00-0169 EA Reconfigure 62" Panel End Cap Hardware.....	2.90	
12 59 13 00-0170 EA Reconfigure Variable Height Panel End Filler.....	2.63	
12 59 13 00-0171 EA Reconfigure Two-Way Trim Cover For Cable Management Raceway.....	1.35	
12 59 13 00-0172 EA Reconfigure Three-Way Trim Cover For Cable Management Raceway.....	1.42	
12 59 13 00-0173 EA Reconfigure Four-Way Trim Cover For Cable Management Raceway.....	1.65	
12 59 13 00-0174 EA Reconfigure Finished End Trim Cover For Cable Management Raceway.....	1.35	
12 59 13 00-0175 EA Reconfigure 12" Cable Management Raceway Assembly.....	2.78	
12 59 13 00-0176 EA Reconfigure 24" Cable Management Raceway Assembly.....	3.16	
12 59 13 00-0177 EA Reconfigure 30" Cable Management Raceway Assembly.....	3.23	
12 59 13 00-0178 EA Reconfigure 36" Cable Management Raceway Assembly.....	3.61	
12 59 13 00-0179 EA Reconfigure 48" Cable Management Raceway Assembly.....	4.06	
12 59 13 00-0180 EA Reconfigure 24" x 36" Radiused Edge Rectangular Hanging Work Surface.....	21.83	
12 59 13 00-0181 EA Reconfigure 30" x 36" Radiused Edge Rectangular Hanging Work Surface.....	26.89	
12 59 13 00-0182 EA Reconfigure 24" x 48" Radiused Edge Rectangular Hanging Work Surface.....	25.38	
12 59 13 00-0183 EA Reconfigure 30" x 48" Radiused Edge Rectangular Hanging Work Surface.....	31.72	
12 59 13 00-0184 EA Reconfigure 24" x 60" Radiused Edge Rectangular Hanging Work Surface.....	32.02	
12 59 13 00-0185 EA Reconfigure 30" x 60" Radiused Edge Rectangular Hanging Work Surface.....	40.33	
12 59 13 00-0186 EA Reconfigure 24" x 72" Radiused Edge Rectangular Hanging Work Surface.....	38.90	
12 59 13 00-0187 EA Reconfigure 30" x 72" Radiused Edge Rectangular Hanging Work Surface.....	48.87	
12 59 13 00-0188 EA Reconfigure 30" x 60" Radiused Edge Table.....	86.81	
12 59 13 00-0189 EA Reconfigure 30" x 72" Radiused Edge Table.....	94.87	
12 59 13 00-0190 EA Reconfigure 14" x 24" Radiused Edge Transaction Surface.....	10.42	
12 59 13 00-0191 EA Reconfigure 14" x 36" Radiused Edge Transaction Surface.....	11.85	
12 59 13 00-0192 EA Reconfigure 14" x 48" Radiused Edge Transaction Surface.....	13.30	
12 59 13 00-0193 EA Reconfigure 14" x 60" Radiused Edge Transaction Surface.....	16.54	
12 59 13 00-0194 EA Reconfigure 14" x 72" Radiused Edge Transaction Surface.....	19.87	
12 59 13 00-0195 EA Reconfigure 14" Right Angle Corner Transaction Surface.....	34.75	
12 59 13 00-0196 EA Reconfigure Transaction Surface Support.....	2.75	
12 59 13 00-0197 EA Reconfigure 15-1/2" x 24" Hanging Shelf.....	10.15	
12 59 13 00-0198 EA Reconfigure 15-1/2" x 36" Hanging Shelf.....	11.05	
12 59 13 00-0199 EA Reconfigure 15-1/2" x 48" Hanging Shelf.....	11.80	
12 59 13 00-0200 EA Reconfigure 24" Flipper Door And Shelf.....	17.51	
12 59 13 00-0201 EA Reconfigure 36" Flipper Door And Shelf.....	20.45	
12 59 13 00-0202 EA Reconfigure 48" Flipper Door And Shelf.....	23.45	
12 59 13 00-0203 EA Reconfigure 24" Suspended Lateral File.....	60.05	
12 59 13 00-0204 EA Reconfigure 30" Suspended Lateral File.....	63.42	
12 59 13 00-0205 EA Reconfigure 36" Suspended Lateral File.....	66.92	
12 59 13 00-0206 EA Reconfigure 48" Suspended Lateral File.....	73.20	
12 59 13 00-0207 EA Reconfigure 24" x 36" Radiused Edge Corner Work Surface.....	34.57	

12 60 Multiple Seating (12)

12 61 Fixed Audience Seating (12 60)

12 61 13 Upholstered Audience Seating (12 61)

12 61 13 00-0001 Fixed Back Upholstered Audience Seating (12 61 13)

12 61 13 00-0002 EA 31" Seat Height, Polypropylene, Fixed Back Upholstered Audience Seating (Irwin Marquee 51.12.10.4).....	511.18	38.35
Note: Polypropylene surfaced back and seat with plywood backed upholstered panels. Comfort curved wood armrests. Powdered coated steel chair platform.		

For <25, Add	115.51	
For >100, Deduct	-69.39	
For Table Arm Attachment, Add	56.36	
For Aisle Panel, Add	99.37	
For Epoxy Anchoring, Add	16.68	

12 61 13 00-0003 EA 36" Seat Height, Polypropylene, Fixed Back Upholstered Audience Seating (Irwin Saturn 22.12.00.4).....	631.98	38.35
Note: Polypropylene surfaced back and seat with plywood backed upholstered panels. Comfort curved polymer armrests. Powdered coated steel chair platform.		

For <25, Add	148.12	
For >100, Deduct	-88.98	
For Table Arm Attachment, Add	56.36	
For Aisle Panel, Add	99.37	
For Epoxy Anchoring, Add	16.68	

12 61 16 Molded-Plastic Audience Seating (12 61)

12 61 16 00-0001 Fixed Back Molded-Plastic Audience Seating (12 61 16)

12	12	Furnishings
	12 60	Multiple Seating
	12 61	Fixed Audience Seating



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
12 61 16 00-0002 EA Fixed Back Molded-Plastic Audience Seating (Irwin Patriot 30.52.36.30).....	362.35	38.35
Note: Impact resistant textured polypropylene seat and back. Laminate surfaced armrests. Powder coated steel chair platform.		
For <25, Add	75.32	
For >100, Deduct	-45.25	
For Table Arm Attachment, Add	56.36	
For Aisle Panel, Add	99.37	
For Epoxy Anchoring, Add	16.68	
12 61 19 Plywood/Hardwood Audience Seating (12 61)		
12 61 19 00-0001 Fixed Back Plywood/Hardwood Audience Seating (12 61 19)		
12 61 19 00-0002 EA Fixed Back Plywood/Hardwood Audience Seating (Irwin Crusader 1.14.86.4).....	537.37	38.35
Note: Stained hardwood armrests, veneered plywood seat, and veneered plywood back. Powder coated steel chair platform.		
For <25, Add	122.58	
For >100, Deduct	-73.64	
For Table Arm Attachment, Add	56.36	
For Aisle Panel, Add	99.37	
For Epoxy Anchoring, Add	16.68	
12 62 Portable-Audience Seating (12 60)		
12 62 23 Portable Bleachers (12 62)		
12 62 23 00-0001 Metal Bleachers, Outdoor, Portable (12 62 23)		
Note: Average seating is 18".		
12 62 23 00-0002 Non-Elevated Portable Aluminum Bleacher (12 62 23 00-0001)		
12 62 23 00-0003 SEA 2 To 5 Rows, Non Elevated Portable Aluminum Bleacher Price Per Seat.....	57.91	3.66
For Each "Tip and Roll" Set (Includes Two Fixed Wheels), Add To Total Structure		
For Each "Flip and Roll" Set (Includes Four Wheels), Add To Total Structure	165.00	
	335.00	
12 62 23 00-0004 Non-Elevated Portable Aluminum Bleacher (12 62 23 00-0001)		
Note: Includes side and back fence.		
12 62 23 00-0005 SEA 5 Rows, Non Elevated Portable Aluminum Bleacher.....	73.35	3.66
Note: Including side and back fence.		
For Elevated Structure (Includes Additional Front Rail, A Front Walkway With Stairways On Either Side, Double Foot Boards Between Rows), Add		
	35.00	
12 62 23 00-0006 SEA 6 To 10 Rows, Non Elevated Portable Aluminum Bleacher.....	82.83	3.85
Note: Including side and back fence.		
For Elevated Structure (Includes Additional Front Rail, A Front Walkway With Stairways On Either Side, Double Foot Boards Between Rows), Add		
	35.00	
12 62 23 00-0007 SEA 10 To 15 Rows, Non Elevated Portable Aluminum Bleacher.....	86.50	4.03
Note: Including side and back fence.		
For Elevated Structure (Includes Additional Front Rail, A Front Walkway With Stairways On Either Side, Double Foot Boards Between Rows), Add		
	35.00	
12 62 23 00-0008 Non-Elevated Portable Aluminum Bleacher (12 62 23 00-0001)		
Note: Includes side and back fence and center aisle with rails.		
12 62 23 00-0009 SEA 5 Rows, Non Elevated Portable Aluminum Bleacher.....	110.18	4.12
Note: Including side and back fence and center aisle with hand rails.		
For Elevated Structure (Includes Additional Front Rail, A Front Walkway With Stairways On Either Side, Double Foot Boards Between Rows), Add		
	35.00	
12 62 23 00-0010 SEA 6 To 10 Rows, Non Elevated Portable Aluminum Bleacher.....	125.12	4.33
Note: Including side and back fence and center aisle with hand rails.		
For Elevated Structure (Includes Additional Front Rail, A Front Walkway With Stairways On Either Side, Double Foot Boards Between Rows), Add		
	35.00	
12 62 23 00-0011 SEA 11 To 15 Rows, Non Elevated Portable Aluminum Bleacher.....	135.39	4.58
Note: Including side and back fence and center aisle with hand rails.		
For Elevated Structure (Includes Additional Front Rail, A Front Walkway With Stairways On Either Side, Double Foot Boards Between Rows), Add		
	35.00	

END OF SECTION 12



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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13 Special Construction

13 01 Operation And Maintenance Of Special Construction ⁽¹³⁾

13 01 10 Operation And Maintenance Of Special Facility Components ^(13 01)

13 01 11 Operation And Maintenance Of Swimming Pools ^(13 01 10)

13 01 11 11 Operation And Maintenance Of Swimming Pools ^(13 01 11)

13 01 11 11-0001 Pool Restoration Items ^(13 01 11 11)

13 01 11 11-0002	LF	Saw Cutting Pool Floor	12.12	
13 01 11 11-0003	SF	Demolish Pool Floor.....	22.04	
13 01 11 11-0004	LF	Demolish Pool Gutter Lip	30.85	
13 01 11 11-0005	LF	Demolish Pool Coping.....	18.36	
13 01 11 11-0006	SF	Demolish Up To 1" Thick Pool Plaster	9.89	
13 01 11 11-0007	LF	Install Pool Coping	69.85	
13 01 11 11-0008	EA	Coring For Pool Pipe Penetrations.....	514.24	
13 01 11 11-0009	EA	Coring For Pool Wall Inlets	176.31	
13 01 11 11-0010	EA	Coring For Pool Gutter Outlets.....	293.86	
13 01 11 11-0011	EA	Core And Demolish Pool Light Fixture	587.70	
13 01 11 11-0012	EA	12 Volt, LED Pool Light.....	550.01	
13 01 11 11-0013	EA	Bond/Set Pool Anchors.....	144.75	
13 01 11 11-0014	EA	Core/Install Pool Cup Anchors	402.01	
13 01 11 11-0015	LF	Form Pool Gutter	20.57	
13 01 11 11-0016	LF	Float Pool Gutter Lip	30.85	
13 01 11 11-0017	LF	Theroseal Pool Gutter.....	10.00	
13 01 11 11-0018	SF	Theroseal Pool Surge Tank	8.00	
13 01 11 11-0019	EA	Pool Start-up.....	8,917.98	
13 01 11 11-0020	SF	Up To 1/2" Thick Troweled Pool Plaster	5.10	
		For Radius Or Irregular Surface, Add	1.56	
		For Up To 25, Add	1.10	
		For >25 To 50, Add	0.65	
		For >50 To 150, Add	0.29	
13 01 11 11-0021	SF	>1/2" To 1" Thick Troweled Pool Plaster.....	7.23	
		For Radius Or Irregular Surface, Add	2.26	
		For Up To 25, Add	1.57	
		For >25 To 50, Add	0.93	
		For >50 To 150, Add	0.42	
13 01 11 11-0022	SF	1" x 1" Glass Pool Tile Sheet	12.61	1.39
13 01 11 11-0023	SF	2" x 2" Porcelain Mosaic Pool Tile Sheet.....	15.05	1.39
13 01 11 11-0024	SF	6" x 6" Porcelain Pool Tile.....	18.12	1.39

13 01 11 11-0025 Swimming Pool Plaster Restoration ^(13 01 11 11)

13 01 11 11-0026	SF	Chip, Clean And Repair Plaster Up To 10 SF On Swimming Pool.....	29.56	
13 01 11 11-0027	SF	Chip, Clean And Repair Plaster >10 To 50 SF On Swimming Pool	21.37	
13 01 11 11-0028	SF	Chip, Clean And Repair Plaster >50 To 250 SF On Swimming Pool	15.64	
13 01 11 11-0029	SF	Chip, Clean And Repair Plaster >250 To 1,000 SF On Swimming Pool	12.37	
13 01 11 11-0030	SF	Chip, Clean And Repair Plaster >1,000 SF On Swimming Pool	9.09	

13 10 Special Facility Components ⁽¹³⁾

13 11 Swimming Pools ^(13 10)

13 11 46 Swimming Pool Accessories ^(13 11)

See CSI section 22 51 19 00-0043 for diatomite type filter system.

13 11 46 00-0001 Heavy Duty Ladders ^(13 11 46)

13 11 46 00-0002	EA	Ladders, 2 Tread, Stainless Steel Swimming Pool Equipment	1,423.29	126.76
13 11 46 00-0003	EA	Ladders, 4 Tread, Stainless Steel Swimming Pool Equipment	1,747.21	146.27

13 11 46 00-0004 Underwater Lights ^(13 11 46)

13 11 46 00-0005	EA	Lights, Underwater, 12 Volt, With Transformer Swimming Pool Equipment.....	467.93	99.00
13 11 46 00-0006	EA	Lights, Underwater, 110 Volt, Swimming Pool Equipment	455.53	99.00

13 11 46 00-0007 Pool Covers ^(13 11 46)

Note: Includes cover straps and tension springs.

13 11 46 00-0008	SF	Pool Covers, Reinforced Polyethylene.....	12.42	5.44
13 11 46 00-0009	SF	Pool Cover, Vinyl Water Tube.....	12.54	5.44

13 11 46 00-0010 Pool Equipment And Accessories ^(13 11 46)

13 11 46 00-0011	EA	Swim Lift, Vertical, Stainless Steel, In Pool Mount.....	4,493.46	
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Note: Spectrum #5030.

13 Special Construction
13 10 Special Facility Components
 13 11 Swimming Pools



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 11 46 00-0012 EA Swim Lift, With Arm, Stainless Steel, Deck Mount Note: Spectrum Traveler XRC #26705.	6,608.47	
13 11 46 00-0013 EA Lifeguard Chair, Stainless Steel, 4 SF Platform, 3' High Note: Paragon #37-164 "Lookout Dual Side Mount".	5,195.66	332.42
13 11 46 00-0014 EA Lifeguard Chair, Stainless Steel, 40" x 60" Platform, 3' High Note: Paragon #37-164 "Lookout Platform".	8,531.70	354.58
13 11 46 00-0015 EA Lifeguard Chair, Stainless Steel, 6' High Note: Paragon #38-005 "OSHA Guard Chair".	5,590.42	354.58
13 11 46 00-0016 EA Lifeguard Chair, Stainless Steel, 6' High Note: Paragon #38-010 "Ultraflyte Guard Chair".	4,802.77	354.58
13 11 46 00-0017 PR Grab Rail, Stainless Steel, 1.90" O.D Tubing x .109" Thickness..... Note: Requires four anchors sockets and escutcheons. Paragon #36-070.	963.94	88.64
13 11 46 00-0018 PR Grab Rail, Stainless Steel, 1.90" O.D Tubing x .145" Thickness..... Note: Requires four anchors sockets and escutcheons. Paragon #36-075.	1,079.87	88.64
13 11 46 00-0019 EA Bronze Anchor Socket, 4" Deep For 1.90" Outside Diameter Tube	175.42	
13 11 46 00-0020 EA Stainless Steel Escutcheon For 1.90" Outside Diameter Tube	30.72	
13 11 46 00-0021 EA Rope Anchor	27.25	
13 11 46 00-0022 EA Stanchion Post Socket	154.65	
13 11 46 00-0023 EA 48" Long 2-Bend Stair Handrail, 1.90" Outside Diameter x .109" Thickness..... Note: Requires two anchors sockets and escutcheons.	492.40	44.33
For 3-Bend Handrail, Add	14.13	
13 11 46 00-0024 EA 48" Long 2-Bend Stair Handrail, 1.90" Outside Diameter x .145" Thickness..... Note: Requires two anchors sockets and escutcheons.	571.90	44.33
For 3-Bend Handrail, Add	16.91	
13 11 46 00-0025 EA 60" Long 2-Bend Stair Handrail, 1.90" Outside Diameter x .109" Thickness..... Note: Requires two anchors sockets and escutcheons.	525.53	44.33
For 3-Bend Handrail, Add	15.29	
13 11 46 00-0026 EA 60" Long 2-Bend Stair Handrail, 1.90" Outside Diameter x .145" Thickness..... Note: Requires two anchors sockets and escutcheons.	614.96	44.33
For 3-Bend Handrail, Add	18.42	
13 11 46 00-0027 EA 72" Long 2-Bend Stair Handrail, 1.90" Outside Diameter x .109" Thickness..... Note: Requires two anchors sockets and escutcheons.	563.29	44.33
For 3-Bend Handrail, Add	16.61	
13 11 46 00-0028 EA 72" Long 2-Bend Stair Handrail, 1.90" Outside Diameter x .145" Thickness..... Note: Requires two anchors sockets and escutcheons.	656.69	44.33
For 3-Bend Handrail, Add	19.88	
13 11 46 00-0029 EA 1 Meter High Aluminum Diving Stand With Stainless Steel Handrail Note: Requires deck anchor set and diving board.	11,075.35	886.44
13 11 46 00-0030 EA 3 Meter High Aluminum Diving Stand With Stainless Steel Handrail Note: Requires deck anchor set and diving board.	21,838.35	1,772.90
13 11 46 00-0031 SET Bronze Deck Anchor (Set of 8).....	676.33	
13 11 46 00-0032 EA 16" Duraflex Diving Board.....	3,870.11	88.64
13 11 46 00-0033 EA Pool Tube Slide, Stainless Steel Frame, 27" Polyethylene Flume Note: Includes 6' tower deck height, 4' x 4' top platform, 26" wide stair assembly, non-slip deck and step treads, and observation deck clear bubble.	24,394.60	1,772.90

13 12 Fountains (13 10)

13 12 13 Exterior Fountains (13 12)

13 12 13 00-0001 Fountains/Aerators (13 12 13)

13 12 13 00-0002 EA 1/2 HP Pump, Single Phase With 100' Cord	2,269.08	140.33
13 12 13 00-0003 EA 3/4 HP Pump, Single Phase With 100' Cord	2,513.63	143.42
13 12 13 00-0004 EA 1 HP Pump, Single Phase With 100' Cord.....	2,545.94	146.89
13 12 13 00-0005 EA 1-1/2 HP Pump, Single Phase With 100' Cord	2,673.06	150.36
13 12 13 00-0006 EA 2 HP Pump, Single Phase With 100' Cord	2,801.09	154.21
13 12 13 00-0007 EA 5 HP Pump, Three Phase With 200' Cord.....	6,078.82	158.07
13 12 13 00-0008 EA 7-1/2 HP Pump, Three Phase With 200' Cord.....	6,965.70	162.30
13 12 13 00-0009 EA 10 HP Pump, Three Phase With 200' Cord.....	7,734.19	166.55
13 12 13 00-0010 EA 15 HP Pump, Three Phase With 200' Cord.....	9,806.06	171.17
13 12 13 00-0011 EA Aerator Nozzle	554.01	77.11

13 20 Special Purpose Rooms (13)

13 21 Controlled Environment Rooms (13 20)

13 21 26 Cold Storage Rooms (13 21)

13 21 26 13 Walk-in Coolers (13 21 26)

See CSI section 11 41 23 00-0000 for walk-in coolers.

13 30 Special Structures (13)

13 34 Fabricated Engineered Structures (13 30)

13 34 16 Grandstands And Bleachers (13 34)

13 34 16 13 Grandstands (13 34 16)

13 34 16 13-0001 Permanent Grandstands, Wood Seat, Steel Frame (13 34 16 13)		
13 34 16 13-0002 3 To 15 Tiers (13 34 16 13-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 16 13-0003 SEA 3-15 Tier Permanent Grandstand Price Per Seat	67.15	7.33
13 34 16 13-0004 16 To 30 Tiers <small>(13 34 16 13-0001)</small>		
13 34 16 13-0005 SEA 16-30 Tier Permanent Grandstand Price Per Seat	101.68	8.25
13 34 19 Metal Building Systems <small>(13 34)</small>		
<small>Note: Includes material, delivery to site, factory design analysis with report, engineered foundation design, shop drawings, and assembly of building on site.</small>		
13 34 19 00-0001 Pre-Engineered Metal Buildings <small>(13 34 19)</small>		
<small>Note: Free standing base buildings have a live load of 12 PSF and a wind load of 16.4 PSF (80 MPH). Includes anchoring and fasteners to concrete foundation. Includes design for foundation footings and piers. Includes a prime coated structural frame, painted steel wall panels 26 gauge, standing seam roof panels 26 gauge, roof 1 in 12 slope. Includes material, delivery to site, lifting equipment (crane) for erection, factory design analysis with report, engineered foundation design, shop drawings, and assembly of building on site. Eave height is measured from the top of slab to the underside of the roof deck. Excludes foundations and slab. See CSI section 03 31 13 00-0001 for concrete slab, 03 31 13 00-0010 for concrete foundations, 13 34 19 00-0109 for metal building options.</small>		
13 34 19 00-0002 Clear Span Rigid Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0001)</small>		
<small>Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.</small>		
13 34 19 00-0003 20' To 30' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0002)</small>		
13 34 19 00-0004 GSF 10' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	22.86	6.27
<i>For 30' To 49' In Length Only, Add</i>	2.03	
<i>For 50' To 69' In Length Only, Add</i>	1.11	
<i>For 70' To 99' In Length Only, Add</i>	0.46	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.69	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	1.14	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.71	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	2.23	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	2.74	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	4.34	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	5.49	
<i>For Single Slope Frame Roof, Add</i>	1.27	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.66	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.89	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	
13 34 19 00-0005 GSF 12' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	24.53	6.88
<i>For 30' To 49' In Length Only, Add</i>	2.09	
<i>For 50' To 69' In Length Only, Add</i>	1.14	
<i>For 70' To 99' In Length Only, Add</i>	0.47	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.74	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	1.23	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.84	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	2.39	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	2.94	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	4.66	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	5.89	
<i>For Single Slope Frame Roof, Add</i>	1.31	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.70	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.97	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	
13 34 19 00-0006 GSF 14' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	26.40	7.59
<i>For 30' To 49' In Length Only, Add</i>	2.15	
<i>For 50' To 69' In Length Only, Add</i>	1.17	
<i>For 70' To 99' In Length Only, Add</i>	0.48	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.79	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	1.32	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.98	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	2.57	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	3.17	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	5.02	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	6.34	
<i>For Single Slope Frame Roof, Add</i>	1.34	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.75	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	1.06	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	

13 Special Construction
13 30 Special Structures
13 34 Fabricated Engineered Structures



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
13 34 19 00-0007	GSF 16' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	28.46	8.31
	For 30' To 49' In Length Only, Add	2.25	
	For 50' To 69' In Length Only, Add	1.23	
	For 70' To 99' In Length Only, Add	0.51	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.85	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.42	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.13	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.77	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.42	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.41	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.83	
	For Single Slope Frame Roof, Add	1.41	
	For Each SF Of 24 Gauge Wall Panel, Add	0.81	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.15	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0008	GSF 18' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	30.58	9.02
	For 30' To 49' In Length Only, Add	2.36	
	For 50' To 69' In Length Only, Add	1.29	
	For 70' To 99' In Length Only, Add	0.53	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.92	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.53	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.29	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.98	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.67	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.81	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.34	
	For Single Slope Frame Roof, Add	1.48	
	For Each SF Of 24 Gauge Wall Panel, Add	0.86	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.24	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0009	GSF 20' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	32.59	9.68
	For 30' To 49' In Length Only, Add	2.48	
	For 50' To 69' In Length Only, Add	1.35	
	For 70' To 99' In Length Only, Add	0.56	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.98	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.63	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.44	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.18	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.91	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.19	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.82	
	For Single Slope Frame Roof, Add	1.55	
	For Each SF Of 24 Gauge Wall Panel, Add	0.92	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.32	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0010	GSF 24' Eave Height, Up To 30' Long, 20' To 30' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	36.65	11.10
	For 30' To 49' In Length Only, Add	2.70	
	For 50' To 69' In Length Only, Add	1.47	
	For 70' To 99' In Length Only, Add	0.61	
	For >1 In 12 Slope To 3 In 12 Slope, Add	1.10	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.83	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.75	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	3.57	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.40	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	6.96	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	8.80	
	For Single Slope Frame Roof, Add	1.69	
	For Each SF Of 24 Gauge Wall Panel, Add	1.03	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.50	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0011 >30' To 50' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings
(13 34 19 00-0002)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0012 GSF 10' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	19.35	4.99
For 30' To 49' In Length Only, Add	1.90	
For 50' To 69' In Length Only, Add	1.03	
For 70' To 99' In Length Only, Add	0.43	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.58	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.97	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.45	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.89	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.32	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.68	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.64	
For Single Slope Frame Roof, Add	1.19	
For Each SF Of 24 Gauge Wall Panel, Add	0.56	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.73	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0013 GSF 12' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	20.68	5.44
For 30' To 49' In Length Only, Add	1.95	
For 50' To 69' In Length Only, Add	1.07	
For 70' To 99' In Length Only, Add	0.44	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.62	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.03	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.55	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.02	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.48	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.93	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.96	
For Single Slope Frame Roof, Add	1.22	
For Each SF Of 24 Gauge Wall Panel, Add	0.60	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.79	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0014 GSF 14' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	21.83	5.89
For 30' To 49' In Length Only, Add	1.99	
For 50' To 69' In Length Only, Add	1.09	
For 70' To 99' In Length Only, Add	0.45	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.65	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.09	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.64	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.13	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.62	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.15	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.24	
For Single Slope Frame Roof, Add	1.25	
For Each SF Of 24 Gauge Wall Panel, Add	0.63	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.84	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0015 GSF 16' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	23.46	6.41
For 30' To 49' In Length Only, Add	2.10	
For 50' To 69' In Length Only, Add	1.14	
For 70' To 99' In Length Only, Add	0.47	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.70	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.17	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.76	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.29	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.82	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.46	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.63	
For Single Slope Frame Roof, Add	1.31	
For Each SF Of 24 Gauge Wall Panel, Add	0.67	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.91	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0016 GSF 18' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	25.41	6.88
For 30' To 49' In Length Only, Add	2.30	
For 50' To 69' In Length Only, Add	1.26	
For 70' To 99' In Length Only, Add	0.52	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.76	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.27	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.91	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.48	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.05	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.83	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.10	
For Single Slope Frame Roof, Add	1.44	
For Each SF Of 24 Gauge Wall Panel, Add	0.73	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.97	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 Special Construction

13 30 Special Structures

13 34 Fabricated Engineered Structures



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

13 34 19 00-0017	GSF 20' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	27.20	7.35
	For 30' To 49' In Length Only, Add	2.45	
	For 50' To 69' In Length Only, Add	1.33	
	For 70' To 99' In Length Only, Add	0.55	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.82	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.36	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.04	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.65	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.26	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.17	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.53	
	For Single Slope Frame Roof, Add	1.53	
	For Each SF Of 24 Gauge Wall Panel, Add	0.78	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.04	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0018	GSF 24' Eave Height, Up To 30' Long, >30' To 50' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	29.86	8.31
	For 30' To 49' In Length Only, Add	2.58	
	For 50' To 69' In Length Only, Add	1.41	
	For 70' To 99' In Length Only, Add	0.58	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.90	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.49	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.24	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.91	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.58	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.67	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	7.17	
	For Single Slope Frame Roof, Add	1.62	
	For Each SF Of 24 Gauge Wall Panel, Add	0.85	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.15	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0019	>50' To 100' Wide Clear Span Rigid Frame Pre-Engineered Metal Buildings		
13 34 19 00-0020	GSF 10' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	14.87	3.46
	For 30' To 49' In Length Only, Add	1.66	
	For 50' To 69' In Length Only, Add	0.91	
	For 70' To 99' In Length Only, Add	0.37	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.45	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.74	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.12	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.45	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.78	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.83	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.57	
	For Single Slope Frame Roof, Add	1.04	
	For Each SF Of 24 Gauge Wall Panel, Add	0.44	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.54	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0021	GSF 12' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding.....	15.49	3.65
	For 30' To 49' In Length Only, Add	1.71	
	For 50' To 69' In Length Only, Add	0.93	
	For 70' To 99' In Length Only, Add	0.39	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.46	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.77	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.16	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.51	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.86	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.94	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.72	
	For Single Slope Frame Roof, Add	1.07	
	For Each SF Of 24 Gauge Wall Panel, Add	0.46	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.56	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0022 GSF 14' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	16.11	3.81
For 30' To 49' In Length Only, Add	1.76	
For 50' To 69' In Length Only, Add	0.96	
For 70' To 99' In Length Only, Add	0.40	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.48	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.81	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.21	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.57	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.93	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.06	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.87	
For Single Slope Frame Roof, Add	1.10	
For Each SF Of 24 Gauge Wall Panel, Add	0.48	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.58	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0023 GSF 16' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	17.89	4.42
For 30' To 49' In Length Only, Add	1.86	
For 50' To 69' In Length Only, Add	1.02	
For 70' To 99' In Length Only, Add	0.42	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.54	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.89	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.34	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.74	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.15	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.40	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.29	
For Single Slope Frame Roof, Add	1.16	
For Each SF Of 24 Gauge Wall Panel, Add	0.52	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.66	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0024 GSF 18' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	19.32	4.91
For 30' To 49' In Length Only, Add	1.93	
For 50' To 69' In Length Only, Add	1.05	
For 70' To 99' In Length Only, Add	0.43	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.58	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.97	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.45	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.88	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.32	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.67	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.64	
For Single Slope Frame Roof, Add	1.20	
For Each SF Of 24 Gauge Wall Panel, Add	0.56	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.72	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0025 GSF 20' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	20.67	5.41
For 30' To 49' In Length Only, Add	1.98	
For 50' To 69' In Length Only, Add	1.08	
For 70' To 99' In Length Only, Add	0.44	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.62	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.03	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.55	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.02	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.48	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.93	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.96	
For Single Slope Frame Roof, Add	1.24	
For Each SF Of 24 Gauge Wall Panel, Add	0.60	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.78	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0026 GSF 24' Eave Height, Up To 30' Long, >50' To 100' Wide Clear Span Rigid Frame Building With 26 Gauge Roofing And Siding	23.10	6.13
For 30' To 49' In Length Only, Add	2.17	
For 50' To 69' In Length Only, Add	1.18	
For 70' To 99' In Length Only, Add	0.49	
For >1 In 12 Slope To 3 In 12 Slope, Add	0.69	
For >3 In 12 Slope To 5 In 12 Slope, Add	1.16	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.73	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.25	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.77	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.39	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.54	
For Single Slope Frame Roof, Add	1.35	
For Each SF Of 24 Gauge Wall Panel, Add	0.67	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.87	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 Special Construction

13 30 Special Structures

13 34 Fabricated Engineered Structures



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

13 34 19 00-0027	Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0001)</small>		
Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.			
13 34 19 00-0028	Up To 30' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0027)</small>		
13 34 19 00-0029	GSF 10' Eave Height, Up To 30' Long, Up To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	19.60	4.99
	For 30' To 49' In Length Only, Add	1.96	
	For 50' To 69' In Length Only, Add	1.07	
	For 70' To 99' In Length Only, Add	0.44	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.59	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.98	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.47	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.91	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.35	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.72	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.70	
	For Each SF Of 24 Gauge Wall Panel, Add	0.57	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.73	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0030	GSF 12' Eave Height, Up To 30' Long, Up To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	21.09	5.44
	For 30' To 49' In Length Only, Add	2.06	
	For 50' To 69' In Length Only, Add	1.13	
	For 70' To 99' In Length Only, Add	0.46	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.63	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.05	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.58	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.06	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.53	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.01	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.06	
	For Each SF Of 24 Gauge Wall Panel, Add	0.61	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.79	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0031	GSF 14' Eave Height, Up To 30' Long, Up To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	22.57	5.89
	For 30' To 49' In Length Only, Add	2.17	
	For 50' To 69' In Length Only, Add	1.18	
	For 70' To 99' In Length Only, Add	0.49	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.68	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.13	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.69	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.20	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.71	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.29	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.42	
	For Each SF Of 24 Gauge Wall Panel, Add	0.65	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.84	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0032	GSF 16' Eave Height, Up To 30' Long, Up To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	24.43	6.41
	For 30' To 49' In Length Only, Add	2.33	
	For 50' To 69' In Length Only, Add	1.27	
	For 70' To 99' In Length Only, Add	0.52	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.73	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.22	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.83	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.38	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.93	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.64	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.86	
	For Each SF Of 24 Gauge Wall Panel, Add	0.71	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.91	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0033	GSF 18' Eave Height, Up To 30' Long, Up To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	26.10	6.90
	For 30' To 49' In Length Only, Add	2.46	
	For 50' To 69' In Length Only, Add	1.34	
	For 70' To 99' In Length Only, Add	0.55	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.78	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.31	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.96	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.54	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.13	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.96	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.26	
	For Each SF Of 24 Gauge Wall Panel, Add	0.75	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.97	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0034	GSF 20' Eave Height, Up To 30' Long, Up To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding		27.74	7.41
	For 30' To 49' In Length Only, Add		2.58	
	For 50' To 69' In Length Only, Add		1.41	
	For 70' To 99' In Length Only, Add		0.58	
	For >1 In 12 Slope To 3 In 12 Slope, Add		0.83	
	For >3 In 12 Slope To 5 In 12 Slope, Add		1.39	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add		2.08	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add		2.70	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add		3.33	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add		5.27	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add		6.66	
	For Each SF Of 24 Gauge Wall Panel, Add		0.80	
	For Each SF Of Lap Roof, Deduct		-0.76	
	For Each SF Of Hip Roof, Add		1.04	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)		-1.97	
13 34 19 00-0035	GSF 24' Eave Height, Up To 30' Long, Up To 30' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding		31.17	8.45
	For 30' To 49' In Length Only, Add		2.82	
	For 50' To 69' In Length Only, Add		1.54	
	For 70' To 99' In Length Only, Add		0.63	
	For >1 In 12 Slope To 3 In 12 Slope, Add		0.94	
	For >3 In 12 Slope To 5 In 12 Slope, Add		1.56	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add		2.34	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add		3.04	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add		3.74	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add		5.92	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add		7.48	
	For Each SF Of 24 Gauge Wall Panel, Add		0.90	
	For Each SF Of Lap Roof, Deduct		-0.76	
	For Each SF Of Hip Roof, Add		1.17	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)		-1.97	
13 34 19 00-0036	>30' To 40' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0027)			
13 34 19 00-0037	GSF 10' Eave Height, Up To 30' Long, >30' To 40' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding		17.63	4.42
	For 30' To 49' In Length Only, Add		1.80	
	For 50' To 69' In Length Only, Add		0.98	
	For 70' To 99' In Length Only, Add		0.40	
	For >1 In 12 Slope To 3 In 12 Slope, Add		0.53	
	For >3 In 12 Slope To 5 In 12 Slope, Add		0.88	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add		1.32	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add		1.72	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add		2.12	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add		3.35	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add		4.23	
	For Each SF Of 24 Gauge Wall Panel, Add		0.52	
	For Each SF Of Lap Roof, Deduct		-0.76	
	For Each SF Of Hip Roof, Add		0.66	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)		-1.97	
13 34 19 00-0038	GSF 12' Eave Height, Up To 30' Long, >30' To 40' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding		18.87	4.82
	For 30' To 49' In Length Only, Add		1.87	
	For 50' To 69' In Length Only, Add		1.02	
	For 70' To 99' In Length Only, Add		0.42	
	For >1 In 12 Slope To 3 In 12 Slope, Add		0.57	
	For >3 In 12 Slope To 5 In 12 Slope, Add		0.94	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add		1.42	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add		1.84	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add		2.26	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add		3.59	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add		4.53	
	For Each SF Of 24 Gauge Wall Panel, Add		0.55	
	For Each SF Of Lap Roof, Deduct		-0.76	
	For Each SF Of Hip Roof, Add		0.71	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)		-1.97	
13 34 19 00-0039	GSF 14' Eave Height, Up To 30' Long, >30' To 40' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding		20.10	5.22
	For 30' To 49' In Length Only, Add		1.94	
	For 50' To 69' In Length Only, Add		1.06	
	For 70' To 99' In Length Only, Add		0.44	
	For >1 In 12 Slope To 3 In 12 Slope, Add		0.60	
	For >3 In 12 Slope To 5 In 12 Slope, Add		1.01	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add		1.51	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add		1.96	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add		2.41	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add		3.82	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add		4.82	
	For Each SF Of 24 Gauge Wall Panel, Add		0.58	
	For Each SF Of Lap Roof, Deduct		-0.76	
	For Each SF Of Hip Roof, Add		0.76	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)		-1.97	

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

13 34 19 00-0040	GSF 16' Eave Height, Up To 30' Long, >30' To 40' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	21.40	5.60
	For 30' To 49' In Length Only, Add	2.05	
	For 50' To 69' In Length Only, Add	1.12	
	For 70' To 99' In Length Only, Add	0.46	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.64	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.07	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.61	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.09	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.57	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.07	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.14	
	For Each SF Of 24 Gauge Wall Panel, Add	0.62	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.81	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0041	GSF 18' Eave Height, Up To 30' Long, >30' To 40' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	22.73	6.01
	For 30' To 49' In Length Only, Add	2.14	
	For 50' To 69' In Length Only, Add	1.17	
	For 70' To 99' In Length Only, Add	0.48	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.68	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.14	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.70	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.22	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.73	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.32	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.46	
	For Each SF Of 24 Gauge Wall Panel, Add	0.66	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.86	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0042	GSF 20' Eave Height, Up To 30' Long, >30' To 40' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	24.03	6.41
	For 30' To 49' In Length Only, Add	2.23	
	For 50' To 69' In Length Only, Add	1.22	
	For 70' To 99' In Length Only, Add	0.50	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.72	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.20	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.80	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.34	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.88	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.57	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.77	
	For Each SF Of 24 Gauge Wall Panel, Add	0.69	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.91	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0043	GSF 24' Eave Height, Up To 30' Long, >30' To 40' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	26.99	7.31
	For 30' To 49' In Length Only, Add	2.45	
	For 50' To 69' In Length Only, Add	1.33	
	For 70' To 99' In Length Only, Add	0.55	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.81	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.35	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	2.02	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.63	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.24	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	5.13	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	6.48	
	For Each SF Of 24 Gauge Wall Panel, Add	0.78	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	1.02	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0044	>40' To 80' Wide Clear Span Tapered Beam Frame Pre-Engineered Metal Buildings (13 34 19 00-0027)		
13 34 19 00-0045	GSF 10' Eave Height, Up To 30' Long, >40' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	15.11	3.46
	For 30' To 49' In Length Only, Add	1.72	
	For 50' To 69' In Length Only, Add	0.94	
	For 70' To 99' In Length Only, Add	0.39	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.45	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.76	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.13	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.47	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.81	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.87	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.63	
	For Each SF Of 24 Gauge Wall Panel, Add	0.45	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.54	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0046 GSF 12' Eave Height, Up To 30' Long, >40' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	15.96	3.70
<i>For 30' To 49' In Length Only, Add</i>	1.79	
<i>For 50' To 69' In Length Only, Add</i>	0.98	
<i>For 70' To 99' In Length Only, Add</i>	0.40	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.48	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	0.80	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.20	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	1.56	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	1.92	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	3.03	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	3.83	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.47	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.57	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	
13 34 19 00-0047 GSF 14' Eave Height, Up To 30' Long, >40' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	16.78	3.93
<i>For 30' To 49' In Length Only, Add</i>	1.86	
<i>For 50' To 69' In Length Only, Add</i>	1.01	
<i>For 70' To 99' In Length Only, Add</i>	0.42	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.50	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	0.84	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.26	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	1.64	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	2.01	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	3.19	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	4.03	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.50	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.60	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	
13 34 19 00-0048 GSF 16' Eave Height, Up To 30' Long, >40' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	17.66	4.18
<i>For 30' To 49' In Length Only, Add</i>	1.93	
<i>For 50' To 69' In Length Only, Add</i>	1.06	
<i>For 70' To 99' In Length Only, Add</i>	0.44	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.53	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	0.88	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.32	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	1.72	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	2.12	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	3.36	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	4.24	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.52	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.63	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	
13 34 19 00-0049 GSF 18' Eave Height, Up To 30' Long, >40' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	18.76	4.46
<i>For 30' To 49' In Length Only, Add</i>	2.04	
<i>For 50' To 69' In Length Only, Add</i>	1.11	
<i>For 70' To 99' In Length Only, Add</i>	0.46	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.56	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	0.94	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.41	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	1.83	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	2.25	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	3.56	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	4.50	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.55	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.66	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	
13 34 19 00-0050 GSF 20' Eave Height, Up To 30' Long, >40' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	19.74	4.70
<i>For 30' To 49' In Length Only, Add</i>	2.15	
<i>For 50' To 69' In Length Only, Add</i>	1.17	
<i>For 70' To 99' In Length Only, Add</i>	0.48	
<i>For >1 In 12 Slope To 3 In 12 Slope, Add</i>	0.59	
<i>For >3 In 12 Slope To 5 In 12 Slope, Add</i>	0.99	
<i>For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add</i>	1.48	
<i>For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add</i>	1.92	
<i>For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	2.37	
<i>For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add</i>	3.75	
<i>For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add</i>	4.74	
<i>For Each SF Of 24 Gauge Wall Panel, Add</i>	0.58	
<i>For Each SF Of Lap Roof, Deduct</i>	-0.76	
<i>For Each SF Of Hip Roof, Add</i>	0.69	
<i>For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)</i>	-1.97	

13 Special Construction

13 30 Special Structures

13 34 Fabricated Engineered Structures



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

13 34 19 00-0051	GSF 24' Eave Height, Up To 30' Long, >40' To 80' Wide Clear Span Tapered Beam Frame Building With 26 Gauge Roofing And Siding	22.09	5.34
	For 30' To 49' In Length Only, Add	2.36	
	For 50' To 69' In Length Only, Add	1.29	
	For 70' To 99' In Length Only, Add	0.53	
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.66	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.10	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.66	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.15	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.65	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	4.20	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	5.30	
	For Each SF Of 24 Gauge Wall Panel, Add	0.65	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.77	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0052 Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0001)

Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.

13 34 19 00-0053 Up To 60' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings

(13 34 19 00-0052)

13 34 19 00-0054	GSF 14' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	16.07	4.08
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.48	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.80	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.21	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.57	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.93	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.05	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.86	
	For Each SF Of 24 Gauge Wall Panel, Add	0.47	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.62	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0055	GSF 16' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	17.17	4.36
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.52	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.86	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.29	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.67	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.06	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.26	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.12	
	For Each SF Of 24 Gauge Wall Panel, Add	0.50	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.65	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0056	GSF 18' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	18.03	4.60
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.54	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.90	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.35	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.76	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.16	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.43	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.33	
	For Each SF Of 24 Gauge Wall Panel, Add	0.53	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.68	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0057	GSF 20' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	18.89	4.84
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.57	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.94	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.42	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.84	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.27	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.59	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.53	
	For Each SF Of 24 Gauge Wall Panel, Add	0.55	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.71	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0058	GSF 24' Eave Height, Up To 60' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	20.47	5.26
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.61	
	For >3 In 12 Slope To 5 In 12 Slope, Add	1.02	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.54	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	2.00	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.46	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.89	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.91	
	For Each SF Of 24 Gauge Wall Panel, Add	0.60	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.76	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 34 19 00-0059 >60' To 80' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0052)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0060 GSF 14' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	14.80	3.61
For >1 In 12 Slope To 3 In 12 Slope, Add	0.44	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.74	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.11	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.44	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.78	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.81	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.55	
For Each SF Of 24 Gauge Wall Panel, Add	0.44	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.56	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0061 GSF 16' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	15.76	3.85
For >1 In 12 Slope To 3 In 12 Slope, Add	0.47	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.79	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.18	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.54	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.89	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.99	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.78	
For Each SF Of 24 Gauge Wall Panel, Add	0.46	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.59	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0062 GSF 18' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	16.63	4.08
For >1 In 12 Slope To 3 In 12 Slope, Add	0.50	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.83	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.25	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.62	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.00	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.16	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.99	
For Each SF Of 24 Gauge Wall Panel, Add	0.49	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.62	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0063 GSF 20' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	17.37	4.27
For >1 In 12 Slope To 3 In 12 Slope, Add	0.52	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.87	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.30	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.69	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.08	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.30	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.17	
For Each SF Of 24 Gauge Wall Panel, Add	0.51	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.64	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0064 GSF 24' Eave Height, >60' To 80' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	18.83	4.65
For >1 In 12 Slope To 3 In 12 Slope, Add	0.56	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.94	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.41	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.84	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.26	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.58	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.52	
For Each SF Of 24 Gauge Wall Panel, Add	0.55	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.69	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0065 >80' To 100' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0052)		
13 34 19 00-0066 GSF 14' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	13.63	3.18
For >1 In 12 Slope To 3 In 12 Slope, Add	0.41	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.68	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.02	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.33	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.64	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.59	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.27	
For Each SF Of 24 Gauge Wall Panel, Add	0.40	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.50	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 Special Construction

13 30 Special Structures

13 34 Fabricated Engineered Structures



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
13 34 19 00-0067	GSF 16' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	14.28	3.32
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.43	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.71	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.07	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.39	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.71	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.71	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.43	
	For Each SF Of 24 Gauge Wall Panel, Add	0.42	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.52	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0068	GSF 18' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	15.04	3.51
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.45	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.75	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.13	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.47	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.80	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.86	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.61	
	For Each SF Of 24 Gauge Wall Panel, Add	0.45	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.54	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0069	GSF 20' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	15.68	3.65
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.47	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.78	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.18	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.53	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.88	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.98	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.76	
	For Each SF Of 24 Gauge Wall Panel, Add	0.46	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.56	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0070	GSF 24' Eave Height, >80' To 100' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	17.00	3.99
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.51	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.85	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.28	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.66	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.04	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.23	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	4.08	
	For Each SF Of 24 Gauge Wall Panel, Add	0.50	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.60	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0071	>100' To 120' Wide Single Post 2-Span Frame Pre-Engineered Metal Buildings (13.34 19 00-0052)		
13 34 19 00-0072	GSF 14' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	13.24	3.04
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.40	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.66	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.99	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.29	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.59	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.52	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.18	
	For Each SF Of 24 Gauge Wall Panel, Add	0.39	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.48	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0073	GSF 16' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	13.79	3.18
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.41	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.69	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.03	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.34	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.65	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.62	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.31	
	For Each SF Of 24 Gauge Wall Panel, Add	0.41	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.50	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0074 GSF 18' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	14.42	3.32
For >1 In 12 Slope To 3 In 12 Slope, Add	0.43	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.72	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.08	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.41	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.73	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.74	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.46	
For Each SF Of 24 Gauge Wall Panel, Add	0.43	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.52	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0075 GSF 20' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	15.03	3.46
For >1 In 12 Slope To 3 In 12 Slope, Add	0.45	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.75	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.13	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.47	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.80	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.86	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.61	
For Each SF Of 24 Gauge Wall Panel, Add	0.45	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.54	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0076 GSF 24' Eave Height, >100' To 120' Wide, Single Post 2-Span Frame Building With 26 Gauge Roofing And Siding	16.29	3.75
For >1 In 12 Slope To 3 In 12 Slope, Add	0.49	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.81	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.22	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.59	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.95	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.10	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.91	
For Each SF Of 24 Gauge Wall Panel, Add	0.48	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.57	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0077 Double Post 3-Span Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0001)</small>		
Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.		
13 34 19 00-0078 Up To 120' Wide Double Post 3-Span Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0077)</small>		
13 34 19 00-0079 GSF 14' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	13.23	3.18
For >1 In 12 Slope To 3 In 12 Slope, Add	0.40	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.66	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.99	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.29	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.59	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.51	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.18	
For Each SF Of 24 Gauge Wall Panel, Add	0.39	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.50	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0080 GSF 16' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	13.76	3.32
For >1 In 12 Slope To 3 In 12 Slope, Add	0.41	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.69	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.03	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.34	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.65	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.61	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.30	
For Each SF Of 24 Gauge Wall Panel, Add	0.41	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.52	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0081 GSF 18' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	13.77	3.22
For >1 In 12 Slope To 3 In 12 Slope, Add	0.41	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.69	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.03	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.34	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.65	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.62	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.30	
For Each SF Of 24 Gauge Wall Panel, Add	0.41	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.51	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	

13 Special Construction

13 30 Special Structures

13 34 Fabricated Engineered Structures



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0082	GSF		20' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	14.32	3.36
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.43	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.72	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.07	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.40	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.72	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.72	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.44	
			For Each SF Of 24 Gauge Wall Panel, Add	0.42	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.53	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0083	GSF		24' Eave Height, Up To 120' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	15.98	3.61
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.48	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.80	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.20	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.56	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.92	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	3.04	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.84	
			For Each SF Of 24 Gauge Wall Panel, Add	0.48	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.56	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0084			>120' To 150' Wide Double Post 3-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0077)		
13 34 19 00-0085	GSF		14' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	12.43	2.89
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.37	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.62	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.93	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.21	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.49	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.36	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	2.98	
			For Each SF Of 24 Gauge Wall Panel, Add	0.37	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.47	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0086	GSF		16' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	12.86	2.99
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.39	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.64	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.96	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.25	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.54	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.44	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.09	
			For Each SF Of 24 Gauge Wall Panel, Add	0.38	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.48	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0087	GSF		18' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	13.34	3.11
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.40	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.67	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.00	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.30	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.60	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.53	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.20	
			For Each SF Of 24 Gauge Wall Panel, Add	0.40	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.49	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0088	GSF		20' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding	13.83	3.22
			For >1 In 12 Slope To 3 In 12 Slope, Add	0.41	
			For >3 In 12 Slope To 5 In 12 Slope, Add	0.69	
			For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.04	
			For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.35	
			For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.66	
			For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.63	
			For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.32	
			For Each SF Of 24 Gauge Wall Panel, Add	0.41	
			For Each SF Of Lap Roof, Deduct	-0.76	
			For Each SF Of Hip Roof, Add	0.51	
			For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



Special Construction	13
Special Structures	13 30
Fabricated Engineered Structures	13 34

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0089 GSF 24' Eave Height, >120' To 150' Wide, Double Post 3-Span Frame Building With 26 Gauge Roofing And Siding.....	15.47	3.46
For >1 In 12 Slope To 3 In 12 Slope, Add	0.46	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.77	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.16	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.51	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.86	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.94	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.71	
For Each SF Of 24 Gauge Wall Panel, Add	0.46	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.54	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0090 Triple Post 4-Span Frame Pre-Engineered Metal Buildings <small>(13 34 19 00-0001)</small>		
Note: Includes a primer coated structural frame, a painted 26 gauge exterior wall and roof.		
13 34 19 00-0091 Up To 160' Wide Triple Post 4-Span Frame Pre-Engineered Metal Building		
<small>(13 34 19 00-0090)</small>		
13 34 19 00-0092 GSF 14' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	11.92	2.75
For >1 In 12 Slope To 3 In 12 Slope, Add	0.36	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.60	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.89	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.16	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.43	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.26	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	2.86	
For Each SF Of 24 Gauge Wall Panel, Add	0.35	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.45	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0093 GSF 16' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	12.41	2.85
For >1 In 12 Slope To 3 In 12 Slope, Add	0.37	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.62	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.93	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.21	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.49	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.36	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	2.98	
For Each SF Of 24 Gauge Wall Panel, Add	0.37	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.46	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0094 GSF 18' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	12.83	2.94
For >1 In 12 Slope To 3 In 12 Slope, Add	0.38	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.64	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.96	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.25	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.54	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.44	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.08	
For Each SF Of 24 Gauge Wall Panel, Add	0.38	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.47	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0095 GSF 20' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	13.23	3.04
For >1 In 12 Slope To 3 In 12 Slope, Add	0.40	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.66	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.99	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.29	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.59	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.51	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.18	
For Each SF Of 24 Gauge Wall Panel, Add	0.39	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.48	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0096 GSF 24' Eave Height, Up To 160' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	14.91	3.32
For >1 In 12 Slope To 3 In 12 Slope, Add	0.45	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.75	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.12	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.45	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.79	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.83	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.58	
For Each SF Of 24 Gauge Wall Panel, Add	0.45	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.52	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0097 >160' To 180' Wide Triple Post 4-Span Frame Pre-Engineered Metal Building <small>(13 34 19 00-0090)</small>		

13 Special Construction

13 30 Special Structures

13 34 Fabricated Engineered Structures



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
13 34 19 00-0098	GSF 14' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	11.72	2.65
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.35	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.59	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.88	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.14	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.41	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.23	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	2.81	
	For Each SF Of 24 Gauge Wall Panel, Add	0.35	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.44	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0099	GSF 16' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	12.14	2.75
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.36	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.61	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.91	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.18	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.46	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.31	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	2.91	
	For Each SF Of 24 Gauge Wall Panel, Add	0.36	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.45	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0100	GSF 18' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	12.60	2.85
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.38	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.63	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.95	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.23	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.51	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.39	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.02	
	For Each SF Of 24 Gauge Wall Panel, Add	0.38	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.46	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0101	GSF 20' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	13.01	2.94
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.39	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.65	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.98	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.27	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.56	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.47	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.12	
	For Each SF Of 24 Gauge Wall Panel, Add	0.39	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.47	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0102	GSF 24' Eave Height, 160' To 180' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	14.59	3.18
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.44	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.73	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.09	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.42	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.75	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.77	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.50	
	For Each SF Of 24 Gauge Wall Panel, Add	0.44	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.50	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0103	>180' To 200' Wide Triple Post 4-Span Frame Pre-Engineered Metal Buildings (13 34 19 00-0090)		
13 34 19 00-0104	GSF 14' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	11.54	2.56
	For >1 In 12 Slope To 3 In 12 Slope, Add	0.35	
	For >3 In 12 Slope To 5 In 12 Slope, Add	0.58	
	For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.87	
	For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.13	
	For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.38	
	For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.19	
	For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	2.77	
	For Each SF Of 24 Gauge Wall Panel, Add	0.35	
	For Each SF Of Lap Roof, Deduct	-0.76	
	For Each SF Of Hip Roof, Add	0.42	
	For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0105 GSF 16' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	11.89	2.65
For >1 In 12 Slope To 3 In 12 Slope, Add	0.36	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.59	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.89	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.16	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.43	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.26	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	2.85	
For Each SF Of 24 Gauge Wall Panel, Add	0.36	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.44	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0106 GSF 18' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	12.34	2.75
For >1 In 12 Slope To 3 In 12 Slope, Add	0.37	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.62	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.93	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.20	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.48	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.34	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	2.96	
For Each SF Of 24 Gauge Wall Panel, Add	0.37	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.45	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0107 GSF 20' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	12.80	2.85
For >1 In 12 Slope To 3 In 12 Slope, Add	0.38	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.64	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	0.96	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.25	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.54	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.43	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.07	
For Each SF Of 24 Gauge Wall Panel, Add	0.38	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.46	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0108 GSF 24' Eave Height, 180' To 200' Wide, Triple Post 4-Span Frame Building With 26 Gauge Roofing And Siding	14.38	3.08
For >1 In 12 Slope To 3 In 12 Slope, Add	0.43	
For >3 In 12 Slope To 5 In 12 Slope, Add	0.72	
For 20 PSF Live Load And 20 PSF (90 MPH) Wind Load, Add	1.08	
For 20 PSF Live Load And 25 PSF (100 MPH) Wind Load, Add	1.40	
For 20 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	1.73	
For 30 PSF Live Load And 30 PSF (110 MPH) Wind Load, Add	2.73	
For 30 PSF Live Load And 35 PSF (120 MPH) Wind Load, Add	3.45	
For Each SF Of 24 Gauge Wall Panel, Add	0.43	
For Each SF Of Lap Roof, Deduct	-0.76	
For Each SF Of Hip Roof, Add	0.49	
For Each SF Of Wall With No Girts And Wall Panels, Deduct (For use where different wall systems are desired)	-1.97	
13 34 19 00-0109 Metal Building Options (13 34 19 00-0001)		
Note: For use with metal buildings only. See CSI section 08 36 13 00-0013 for sectional doors, 08 51 13 00-0065 for sliding windows.		
13 34 19 00-0110 Metal Framing For Rough Openings (13 34 19 00-0109)		
Note: Excludes doors See CSI section 08 13 00 00-0000 for metal doors, 08 14 00 00-0000 for wood doors, 08 33 23 00-0000 for overhead coiling doors.		
13 34 19 00-0111 EA Single Door, Metal Frame Rough Opening	413.42	106.30
13 34 19 00-0112 EA Double Door, Metal Frame Rough Opening	627.63	137.63
13 34 19 00-0113 EA 10' x 10' Overhead Door, Metal Frame Rough Opening	739.85	130.50
13 34 19 00-0114 EA 12' x 12' Overhead Door, Metal Frame Rough Opening	798.56	132.88
13 34 19 00-0115 EA 14' x 14' Overhead Door, Metal Frame Rough Opening	847.68	137.63
13 34 19 00-0116 EA Up To 12 SF, Window Opening, Metal Frame Rough Opening	397.97	106.30
13 34 19 00-0117 EA >12 To 18 SF, Window Opening, Metal Frame Rough Opening	447.01	120.83
13 34 19 00-0118 LF Additional Girts	10.18	
13 34 19 00-0119 Wall Panel Options For Metal Buildings (13 34 19 00-0109)		
Note: Upgrade from 26 gauge wall panels.		
13 34 19 00-0120 SF Upgrade To 2" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	8.98	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0121 SF Upgrade To 2-1/2" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	11.01	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0122 SF Upgrade To 3" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	12.84	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	
13 34 19 00-0123 SF Upgrade To 4" Thick Insulated Wall Panel, Metal-Span CF Mesa Profile	14.99	
Note: 24 gauge exterior and 24 gauge interior panels.		
For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
For Premium Exterior Colors, Add	0.12	

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0124			Roofing Options For Metal Buildings (13 34 19 00-0109) Note: Upgrade from 26 gauge standing seam roof panels.		
13 34 19 00-0125	SF		Upgrade To 24 Gauge Galvanized Steel Standing Seam Roof	0.88	
13 34 19 00-0126	SF		Upgrade To 4" Thick Insulated Roof Panel, Metal-Span III, CFR-42	15.22	
			Note: 24 gauge exterior and 24 gauge interior panels.		
			For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
			For Premium Exterior Colors, Add	0.12	
13 34 19 00-0127	SF		Upgrade To 5" Thick Insulated Roof Panel, Metal-Span III, CFR-42	16.28	
			Note: 24 gauge exterior and 24 gauge interior panels.		
			For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
			For Premium Exterior Colors, Add	0.12	
13 34 19 00-0128	SF		Upgrade To 6" Thick Insulated Roof Panel, Metal-Span III, CFR-42	17.14	
			Note: 24 gauge exterior and 24 gauge interior panels.		
			For AZ-50 Aluminum-Zinc Coated Exterior, Add	0.24	
			For Premium Exterior Colors, Add	0.12	
13 34 19 00-0129	EA		3' x 10' Translucent Fiberglass Panels	140.10	40.81
13 34 19 00-0130	LF		Vented Ridge Vent For Standing Seam Roof	19.39	
13 34 19 00-0131			Insulation For Metal Buildings (13 34 19 00-0109)		
13 34 19 00-0132	SF		1-1/2" Thick, R-5.5, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	0.95	0.24
13 34 19 00-0133	SF		2-1/2" Thick, R-8, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.06	0.24
13 34 19 00-0134	SF		3-1/2" Thick, R-11, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.21	0.33
13 34 19 00-0135	SF		3-1/2" Thick, R-13, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.41	0.33
13 34 19 00-0136	SF		6" Thick, R-19, Foil/Scrim/Kraft (FSK), Faced Metal Building Insulation	1.79	0.33
13 34 19 00-0137	SF		1-1/2" Thick, R-5.5, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.18	0.24
13 34 19 00-0138	SF		2-1/2" Thick, R-8, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.29	0.24
13 34 19 00-0139	SF		3-1/2" Thick, R-11, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.40	0.33
13 34 19 00-0140	SF		3-1/2" Thick, R-13, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.55	0.33
13 34 19 00-0141	SF		6" Thick, R-19, Polyester/Scrim/Kraft (PSK), Faced Metal Building Insulation	1.86	0.33
13 34 19 00-0142	SF		1-1/2" Thick, R-5.5, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation	1.11	0.24
13 34 19 00-0143	SF		2-1/2" Thick, R-8, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation	1.24	0.24
13 34 19 00-0144	SF		3-1/2" Thick, R-11, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation	1.49	0.33
13 34 19 00-0145	SF		3-1/2" Thick, R-13, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation	1.64	0.33
13 34 19 00-0146	SF		6" Thick, R-19, Vinyl/Scrim/Kraft (VSK), Faced Metal Building Insulation	1.93	0.33
13 34 19 00-0147	SF		2" Thick, R-6.5, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.03	0.24
13 34 19 00-0148	SF		3" Thick, R-10, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.09	0.24
13 34 19 00-0149	SF		4" Thick, R-13, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.24	0.33
13 34 19 00-0150	SF		6" Thick, R-19, Polypropylene/Scrim/Kraft, Faced Metal Building Insulation	1.55	0.33
13 34 19 00-0151	SF		2" Thick, R-6.5, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation	1.04	0.24
13 34 19 00-0152	SF		3" Thick, R-10, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation	1.11	0.24
13 34 19 00-0153	SF		4" Thick, R-13, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation	1.26	0.33
13 34 19 00-0154	SF		6" Thick, R-19, Polypropylene/Scrim/Metalized Polyester, Faced Metal Building Insulation	1.59	0.33
13 34 19 00-0155	SF		2" Thick, R-6.5, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	1.41	0.24
13 34 19 00-0156	SF		3" Thick, R-10, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	1.51	0.24
13 34 19 00-0157	SF		4" Thick, R-13, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	1.66	0.33
13 34 19 00-0158	SF		6" Thick, R-19, Black Matte Polypropylene/Fiberglass Polyester Blend Fabric, Faced Metal Building Insulation	1.99	0.33
13 34 19 00-0159			Eave And Overhang Options For Metal Buildings (13 34 19 00-0109)		
13 34 19 00-0160	LF		2' End Wall Roof Overhang And 26 Gauge Soffit	30.22	7.41
13 34 19 00-0161	LF		4' End Wall Roof Overhang And 26 Gauge Soffit	45.39	5.32
13 34 19 00-0162	SF		Up To 20 SF, Prefinished Aluminum, Wall Hung Canopy	59.97	11.87
			Note: Up to 7' projection from wall. Includes finished underside and edges.		
			For End Braced (Up To 16' Wall Projection), Add	13.81	
			For Overhead Braced (Up To 10' Wall Projection), Add	7.81	
13 34 19 00-0163	SF		>20 To 50 SF, Prefinished Aluminum, Wall Hung Canopy	50.13	9.96
			Note: Up to 7' projection from wall. Includes finished underside and edges.		
			For End Braced (Up To 16' Wall Projection), Add	11.54	
			For Overhead Braced (Up To 10' Wall Projection), Add	6.52	
13 34 19 00-0164	SF		>50 SF, Prefinished Aluminum, Wall Hung Canopy	38.59	8.54
			Note: Up to 7' projection from wall. Includes finished underside and edges.		
			For End Braced (Up To 16' Wall Projection), Add	8.79	
			For Overhead Braced (Up To 10' Wall Projection), Add	4.93	
13 34 19 00-0165	SF		Up To 50 SF, Prefinished Aluminum, Free Standing Canopy	75.25	18.04
			Note: Includes finished underside and edges.		
13 34 19 00-0166	SF		>50 SF, Prefinished Aluminum, Free Standing Canopy	49.87	10.92
			Note: Includes finished underside and edges.		
13 34 19 00-0167	LF		1' Standard Eave Overhang Without Soffit	28.94	
13 34 19 00-0168	LF		2' Standard Eave Overhang Without Soffit	36.17	
13 34 19 00-0169	LF		3' Standard Eave Overhang Without Soffit	43.64	
13 34 19 00-0170	LF		4' Standard Eave Overhang Without Soffit	51.00	
13 34 19 00-0171	LF		6' Standard Eave Overhang Without Soffit	65.08	
13 34 19 00-0172	LF		1' Standard Eave Overhang And 26 Gauge Soffit	38.33	
			For 24 Gauge, Add	3.93	
13 34 19 00-0173	LF		2' Standard Eave Overhang And 26 Gauge Soffit	47.82	
			For 24 Gauge, Add	4.95	
13 34 19 00-0174	LF		3' Standard Eave Overhang And 26 Gauge Soffit	57.59	
			For 24 Gauge, Add	5.94	
13 34 19 00-0175	LF		4' Standard Eave Overhang And 26 Gauge Soffit	67.34	
			For 24 Gauge, Add	6.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 34 19 00-0176 LF 6' Standard Eave Overhang And 26 Gauge Soffit..... <i>For 24 Gauge, Add</i>	85.96 8.91	
13 34 19 00-0177 Louvers And Vents For Metal Buildings (13 34 19 00-0109)		
13 34 19 00-0178 EA 4' x 3' Fixed Louver	490.61	148.07
13 34 19 00-0179 EA 12" Rotary Vent With Damper	300.40	94.92
13 34 19 00-0180 EA 20" Rotary Vent With Damper	508.78	126.71
13 34 19 00-0181 EA 24" Rotary Vent With Damper	661.04	142.37
13 34 19 00-0182 EA Gravity Ridge Ventilator With Birdscreen, 9" Throat x 10'	771.30	189.82
13 34 19 00-0183 EA Gravity Ridge Ventilator With Birdscreen, 12" Throat x 10'	815.88	189.82
13 34 19 00-0184 EA Ridge Ventilator - 9" Throat X 10 Ft, Manually Operated Damper With Birdscreen	932.57	189.82
13 34 19 00-0185 EA Ridge Ventilator - 12" Throat X 10 Ft, Manually Operated Damper With Birdscreen	1,009.37	189.82
13 34 19 00-0186 EA Ridge Ventilator - 15" Throat X 10 Ft, Manually Operated Damper With Birdscreen	1,093.84	189.82
13 34 19 00-0187 EA Ridge Ventilator - 18" Throat X 10 Ft, Manually Operated Damper With Birdscreen	1,178.32	189.82
13 34 19 00-0188 EA Ridge Ventilator - 9" Throat X 10 Ft, Motor Operated Damper With Birdscreen	1,542.02	237.28
13 34 19 00-0189 EA Ridge Ventilator - 12" Throat X 10 Ft, Motor Operated Damper With Birdscreen	1,680.25	237.28
13 34 19 00-0190 Gutters And Downspouts For Metal Buildings (13 34 19 00-0109)		
13 34 19 00-0191 LF Pre-Engineered Standard Type Gutter, Painted	8.51	2.38
<i>For Galvanized Instead Of Painted, Deduct</i>	-0.94	
13 34 19 00-0192 LF Pre-Engineered Standard Type Downspout, Painted	8.14	3.32
<i>For Galvanized Instead Of Painted, Deduct</i>	-0.38	
13 34 23 Fabricated Structures (13 34)		
13 34 23 13 Portable And Mobile Buildings (13 34 23)		
Note: Includes material, delivery to site, factory design analysis and report, shop drawings and assembly of building on site. Tie down with hurricane anchors on approved foundation. Excludes utility hook-ups and foundation.		
13 34 23 13-0001 Prefabricated Signal, Communication Or Electrical Building (13 34 23 13)		
Note: Complete, includes door, roof, lights and wiring, insulation, painted.		
13 34 23 13-0002 SF 15 SF To 29 SF Prefabricated Signal, Communication Or Electrical Building	369.23	
13 34 23 13-0003 SF 30 SF To 49 SF Prefabricated Signal, Communication Or Electrical Building	316.76	
13 34 23 13-0004 SF 50 SF To 79 SF Prefabricated Signal, Communication Or Electrical Building	253.56	
13 34 23 13-0005 SF 80 SF To 99 SF Prefabricated Signal, Communication Or Electrical Building	200.61	
13 34 23 13-0006 SF 100 SF To 144 SF Prefabricated Signal, Communication Or Electrical Building	179.26	
13 34 23 13-0007 Temporary Trailers 1 To 6 Years Life (13 34 23 13)		
Note: Includes cost to set-up, underpin, tie-downs, HVAC unit, lights, outlets, phone jacks, two wooden landings, stairs, and handrails. Trailers shall have a 12' x 12' office area and 6' x 8' bathroom with sink, mirror, and water closet. Minimum of two pedestrian doors and a tinted/insulated 3' x 4' single hung window per 20 SF of wall area. Excludes connection of utilities.		
13 34 23 13-0008 SF Single Trailer Up To 14' x 73'	38.86	
<i>For Each Delivery And Set-Up (Block And Level), Add</i>	1,236.13	
<i>For Each Knock-Down And Pick-Up, Add</i>	956.13	
<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	110.00	
13 34 23 13-0009 SF Modular Trailers, Connected	54.41	
<i>For Each Anchoring Into Asphalt Or Concrete, Add</i>	110.00	
<i>For Each Delivery And Set-Up (Block And Level), Add</i>	2,732.54	
<i>For Each Knock-Down And Pick-Up, Add</i>	2,082.54	
13 34 23 13-0010 EA Add Per Additional Exterior Door With Frame And Hardware	582.96	
13 34 23 13-0011 Accessories (13 34 23 13)		
13 34 23 13-0012 Skirting (13 34 23 13-0011)		
Note: Includes 2" x 4" wood framing 16" on center.		
13 34 23 13-0013 Vinyl Covered, Exterior Only (13 34 23 13-0012)		
13 34 23 13-0014 SF 1'-8" High Vinyl Covered Skirt	3.66	1.51
13 34 23 13-0015 SF 3' High Vinyl Covered Skirt	5.49	2.49
13 34 23 13-0016 Fiberglass, Exterior Only (13 34 23 13-0012)		
13 34 23 13-0017 SF 1'-8" High Fiberglass Skirt	6.94	2.85
13 34 23 13-0018 SF 3' High Fiberglass Skirt	8.11	3.48
13 34 23 13-0019 Plywood, Exterior Only (13 34 23 13-0012)		
13 34 23 13-0020 SF 1'-8" High 5/8" Plywood Skirt	6.49	3.03
13 34 23 13-0021 SF 3' High 5/8" Plywood Skirt	7.69	3.65
13 34 23 13-0022 Steel, Painted, Exterior Only (13 34 23 13-0012)		
13 34 23 13-0023 SF 1'-8" High 26 Gauge Steel Skirt	7.18	2.85
13 34 23 13-0024 SF 3' High 26 Gauge Steel Skirt	8.40	3.48

13 Special Construction**13 30 Special Structures****13 34 Fabricated Engineered Structures**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

13 34 23 13-0025	14" x 14" Access Hatch <small>(13 34 23 13-0011)</small>		
	Note: Simple design.		
13 34 23 13-0026	EA 14" x 14" Vinyl Covered Access Hatch.....	179.99	66.97
13 34 23 13-0027	EA 14" x 14" Fiberglass Access Hatch	164.18	66.97
13 34 23 13-0028	EA 14" x 14" Plywood Access Hatch	178.89	66.97
13 34 23 13-0029	EA 14" x 14" 26 Gauge Steel Access Hatch	179.79	66.97

13 34 23 13-0030	Pole Anchor <small>(13 34 23 13-0011)</small>		
	Note: Joslyn.		
13 34 23 13-0031	EA Pole Anchor, 4" Helix, 3/4" x 54" Shaft.....	58.27	
13 34 23 13-0032	EA Pole Anchor, 6" Helix, 3/4" x 66" Shaft.....	63.65	
13 34 23 13-0033	EA Pole Anchor, 8" Helix, 1" x 66" Shaft.....	76.32	
13 34 23 13-0034	EA Pole Anchor, 10" Helix, 1-1/4" x 66" Shaft.....	98.52	
13 34 23 13-0035	EA Pole Anchor, 10" Helix, 1-1/4" x 8' Shaft.....	127.84	
13 34 23 13-0036	EA Pole Anchor, 16" Helix, 1-1/4" x 8' Shaft.....	176.59	

13 34 23 13-0037	Aluminum Modular Access Ramp <small>(13 34 23 13-0011)</small>		
	Note: Includes picketed guardrails, inside grabrails, legs and hardware.		
13 34 23 13-0038	EA 72" Long x 52-1/4" Wide Ramp Section, Aluminum Modular Access Ramp	2,139.82	22.28
13 34 23 13-0039	EA 60-1/4" Long x 61-3/4" Wide Door Landing Section, Aluminum Modular Access Ramp	2,166.57	28.96
13 34 23 13-0040	EA 60-1/4" Long x 123-1/2" Wide Switchback Landing Section, Aluminum Modular Access Ramp	4,448.67	44.57
13 34 23 13-0041	EA 110-3/4" Long x 72" Wide Switchback Landing Section, Aluminum Modular Access Ramp	4,790.99	44.57
13 34 23 13-0042	EA 60-1/4" Long x 61-3/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp	2,252.15	28.96
13 34 23 13-0043	EA 71-3/4" Long x 52-1/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp	2,225.40	22.28
13 34 23 13-0044	EA 84-1/2" Long x 61-3/4" Wide Intermediate Landing Section, Aluminum Modular Access Ramp	3,105.80	28.96
13 34 23 13-0045	EA 30" High x 82" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	2,210.43	28.96
13 34 23 13-0046	EA 35" High x 96" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	2,210.43	28.96
13 34 23 13-0047	EA 42" High x 110" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	2,513.17	28.96
13 34 23 13-0048	EA 49" High x 124" Long x 52-3/8" Wide Step Section, Aluminum Modular Access Ramp	2,813.76	28.96

13 34 23 14 Fabricated Classroom Buildings (13 34 23)

13 34 23 14-0001	Semi Permanent Modular Transportable Buildings <small>(13 34 23 14)</small>		
13 34 23 14-0002	SF Portable Classrooms, Complete With Doors, Windows, Fixtures, Toilets And Workroom	57.91	
	For Each Anchoring Into Asphalt Or Concrete, Add	110.00	
	For Each Delivery And Set-Up (Block And Level), Add	2,732.54	
	For Each Knock-Down And Pick-Up, Add	2,082.54	
13 34 23 14-0003	SF Modular Classroom, Connected, Complete With Doors, Windows, Fixtures, Toilets And Teachers Work Room	59.62	
	For Each Anchoring Into Asphalt Or Concrete, Add	110.00	
	For Each Delivery And Set-Up (Block And Level), Add	2,732.54	
	For Each Knock-Down And Pick-Up, Add	2,082.54	

13 34 23 16 Fabricated Control Booths (13 34 23)

13 34 23 16-0001	Fabricated Parking Attendant Booths <small>(13 34 23 16)</small>		
	Note: Excludes foundations and slab.		
13 34 23 16-0002	EA Parking Booth For Attendant.....	1,051.00	

13 34 23 31 Fabricated Pavilion Style Buildings (13 34 23)

13 34 23 31-0001	Pavilion Style Metal Shelter Structures <small>(13 34 23 31)</small>		
	Note: Prefabricated open structure system, complete with all necessary hardware. Hip roof, steel structural rafters and columns, urethane/polyester (TGIC) powder finish, aluminum roof decking, 8' height at perimeter. Excludes foundations and slab. Americana or equal.		
13 34 23 31-0002	EA 12' x 12' Pavilion Style Metal Shelter Structure.....	9,793.25	1,820.05
13 34 23 31-0003	EA 16' x 16' Pavilion Style Metal Shelter Structure.....	11,526.11	1,899.21
13 34 23 31-0004	EA 16' x 32' Pavilion Style Metal Shelter Structure.....	14,743.81	2,025.83
13 34 23 31-0005	EA 20' x 20' Pavilion Style Metal Shelter Structure.....	13,842.27	1,962.52
13 34 23 31-0006	EA 20' x 30' Pavilion Style Metal Shelter Structure.....	17,154.40	2,152.44
13 34 23 31-0007	EA 20' x 40' Pavilion Style Metal Shelter Structure.....	20,479.18	2,215.75
13 34 23 31-0008	EA 24' x 24' Pavilion Style Metal Shelter Structure.....	16,964.16	2,025.83
13 34 23 31-0009	EA 24' x 48' Pavilion Style Metal Shelter Structure.....	23,981.48	2,532.29
13 34 23 31-0010	EA 30' x 30' Pavilion Style Metal Shelter Structure.....	23,043.47	2,532.29
13 34 23 31-0011	EA 30' x 60' Pavilion Style Metal Shelter Structure.....	46,044.08	3,165.36
13 34 23 31-0012	EA 40' x 40' Pavilion Style Metal Shelter Structure.....	42,502.46	3,955.98
13 34 23 31-0013	EA 40' x 60' Pavilion Style Metal Shelter Structure.....	61,708.47	4,431.50

13 40 Integrated Construction (13)**13 42 Building Modules** (13 40)**13 42 63 Detention Cell Modules** (13 42)**13 42 63 16 Steel Detention Cell Modules** (13 42 63)

13 42 63 16-0001	EA Bar Front, Rolling, 7/8" Bars, 4" On Center, 7' High, 5' Wide	13,836.77	739.62
	Note: With hardware.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 42 63 16-0002 EA Cells, Prefabricated, 5'-6" Wide, 7'-8" High, Bar Front, Cot.....	18,708.11	990.37
Note: Not including plumbing.		
13 42 63 16-0003 SF Temporary Holding Cell, 1/4" Woven Rod Panels On 2" Centers.....	81.06	7.01
Note: Includes 12 gauge steel frame and concealment plates.		
13 42 63 16-0004 SF Solid Security Ceiling, 14 Gauge Formed Steel Channels.....	61.85	7.01
Note: 20" wide, 14 gauge galvanized steel face sheet, 10 gauge steel wall angle, backed polyester powder finish.		
13 42 63 16-0005 SF Perforated Metal Crime Shield.....	57.41	2.89
13 47 Facility Protection (13 40)		
13 47 13 Cathodic Protection (13 47)		
13 47 13 13 Cathodic Protection for Underground and Submerged Piping (13 47 13)		
13 47 13 13-0001 Anodes (13 47 13 13)		
13 47 13 13-0002 Magnesium Type, Conventional (13 47 13 13-0001)		
13 47 13 13-0003 EA 9 LB Magnesium Type Anodes.....	263.67	113.10
13 47 13 13-0004 EA 17 LB Magnesium Type Anodes.....	392.55	163.47
13 47 13 13-0005 EA 32 LB Magnesium Type Anode.....	539.94	210.31
13 47 13 13-0006 EA 48 LB Magnesium Type Anode.....	770.34	294.25
13 47 13 13-0007 Graphite Type (13 47 13 13-0001)		
Note: Includes epoxy cap.		
13 47 13 13-0008 EA 3" x 60" (32 LB) Graphite Type Anodes With Epoxy Cap.....	400.61	160.29
13 47 13 13-0009 EA 4" x 80" (68 LB) Graphite Type Anodes With Epoxy Cap.....	632.36	223.82
13 47 13 13-0010 EA 6" x 36" (45 LB) Graphite Type Anodes With Epoxy Cap.....	485.04	140.08
13 47 13 13-0011 EA 6" x 72" (80 LB) Graphite Type Anodes With Epoxy Cap.....	752.29	187.00
13 47 13 13-0012 Rectifiers (13 47 13 13)		
13 47 13 13-0013 Air Cooled, Silicon Type (13 47 13 13-0012)		
13 47 13 13-0014 EA Air Cooled Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	1,338.32	227.71
13 47 13 13-0015 EA Air Cooled Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	1,448.48	227.71
13 47 13 13-0016 Oil Immersed, Silicon Type (13 47 13 13-0012)		
13 47 13 13-0017 EA Oil Immersed Rectifiers, 28 Volt, 10 Amperes, Silicon Type.....	2,020.84	263.30
13 47 13 13-0018 EA Oil Immersed Rectifiers, 20 Volt / 20 Amperes, Silicon Type.....	2,138.87	263.30
13 47 13 13-0019 Anode Backfill (13 47 13 13)		
13 47 13 13-0020 LB Anode Backfill, Coke Breeze.....	0.77	0.29
13 47 13 13-0021 Cathodic Protection Cable (13 47 13 13)		
13 47 13 13-0022 MLF Cathodic Protection Cable, OR2 - No 8.....	1,461.24	560.29
13 47 13 13-0023 MLF Cathodic Protection Cable, OR2 - No 6.....	1,612.21	560.29
13 47 13 13-0024 MLF Cathodic Protection Cable, OR2 - No 4.....	1,838.67	560.29
13 47 13 13-0025 MLF Cathodic Protection Cable, OR2 - No 2.....	2,216.11	560.29
13 47 13 13-0026 MLF Cathodic Protection Cable, OR2 - No 1.....	2,742.23	617.33
13 47 13 13-0027 MLF Cathodic Protection Cable, OR2-No 1/0.....	3,025.31	617.33
13 47 13 13-0028 MLF Cathodic Protection Cable, OR2-No 2/0.....	3,497.10	617.33
13 47 13 13-0029 MLF Cathodic Protection Cable, OR2-No 4/0.....	4,740.12	672.92
13 47 13 13-0030 Cathodic Test Stations (13 47 13 13)		
13 47 13 13-0031 Flush Curb Box Type With Lockable Cover And Terminal Box (13 47 13 13-0030)		
13 47 13 13-0032 EA Cathodic Test Station, Flush Curb Type With Lockable Cover.....	211.28	65.62
13 47 13 16 Cathodic Protection For Underground Storage Tanks (13 47 13)		
See CSI section 13 47 13 13-0000 for cathodic protection for tanks.		
13 48 Sound, Vibration, And Seismic Control (13 40)		
13 48 63 Fabricated Seismic Control Assemblies (13 48)		
13 48 63 00-0001 Seismic Bracing Assembly (13 48 63)		
13 48 63 00-0002 EA 4-Bolt Deck Anchor Connection For Seismic Brace.....	120.53	
Note: Includes drilling into concrete, bolts, anchor plate, seismic bracket attached with bolt, nut and washer.		
13 48 63 00-0003 EA 2 Cable Seismic Brace With Center Threaded Rod Stiffener.....	116.45	
Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0004 EA 3 Cable Seismic Brace With Center Threaded Rod Stiffener.....	173.88	
Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.		
13 48 63 00-0005 EA 4 Cable Seismic Brace With Center Threaded Rod Stiffener.....	224.62	
Note: Includes seismic bracket, bolts, and cable for attachment to ceiling anchor. Excludes deck anchors.		

13 Special Construction**13 40 Integrated Construction****13 48 Sound, Vibration, And Seismic Control**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
13 48 63 00-0006	EA	2 Channel Seismic Brace With Center Threaded Rod Stiffener..... Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.	208.23	
13 48 63 00-0007	EA	3 Channel Seismic Brace With Center Threaded Rod Stiffener..... Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.	308.21	
13 48 63 00-0008	EA	4 Channel Seismic Brace With Center Threaded Rod Stiffener..... Note: Includes seismic bracket, bolts, and channel for attachment to ceiling anchor. Excludes deck anchors.	408.18	
13 48 63 00-0009	EA	2 Rod Seismic Brace With Center Threaded Rod Stiffener..... Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.	146.54	
13 48 63 00-0010	EA	3 Rod Seismic Brace With Center Threaded Rod Stiffener..... Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.	215.68	
13 48 63 00-0011	EA	4 Rod Seismic Brace With Center Threaded Rod Stiffener..... Note: Includes seismic bracket, bolts, and rod for attachment to ceiling anchor. Excludes deck anchors.	284.80	
13 48 63 00-0012		Seismic Brace Components <small>(13 48 63)</small>		
13 48 63 00-0013	EA	1/8" Cable Diameter Seismic Cable Brace Swivel Anchor; Mason SCB-1..... Note: To be used with 7x19 stranded cable.	22.82	
13 48 63 00-0014	EA	3/16" Cable Diameter Seismic Cable Brace Swivel Anchor; Mason SCB-2..... Note: To be used with 7x19 stranded cable.	30.40	
13 48 63 00-0015	EA	1/4" Cable Diameter Seismic Cable Brace Swivel Anchor; Mason SCB-3..... Note: To be used with 7x19 stranded cable.	39.50	
13 48 63 00-0016	EA	3/8" Cable Diameter Seismic Cable Brace Swivel Anchor; Mason SCB-4..... Note: To be used with 7x19 stranded cable.	53.13	
13 48 63 00-0017	EA	Seismic Solid Brace Swivel Anchor; Mason SSB-1..... Note: To be used with angle or channel.	21.58	
13 48 63 00-0018	EA	Seismic Solid Brace Swivel Anchor; Mason SSB-2..... Note: To be used with angle or channel.	28.25	
13 48 63 00-0019	EA	Seismic Solid Brace Swivel Anchor; Mason SSB-3..... Note: To be used with angle or channel.	36.35	
13 48 63 00-0020	EA	Seismic Solid Brace Swivel Anchor; Mason SSB-4..... Note: To be used with angle or channel.	48.27	
13 48 63 00-0021	EA	1/8" Cable Diameter Seismic Cable Brace Hook Anchor; Mason SCBH-1..... Note: To be used with 7x19 stranded cable.	25.63	
13 48 63 00-0022	EA	3/16" Cable Diameter Seismic Cable Brace Hook Anchor; Mason SCBH-2..... Note: To be used with 7x19 stranded cable.	33.02	
13 48 63 00-0023	EA	1/4" Cable Diameter Seismic Cable Brace Hook Anchor; Mason SCBH-3..... Note: To be used with 7x19 stranded cable.	44.93	
13 48 63 00-0024	EA	1/8" Cable Diameter Seismic Cable Brace Vise Anchor; Mason SCBV-1..... Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.	43.03	
13 48 63 00-0025	EA	3/16" Cable Diameter Seismic Cable Brace Vise Anchor; Mason SCBV-2..... Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.	59.47	
13 48 63 00-0026	EA	1/4" Cable Diameter Seismic Cable Brace Vise Anchor; Mason SCBV-3..... Note: Can be used with either SCB or SCBH on the other end. To be used with 7x19 stranded cable.	80.20	
13 48 63 00-0027	EA	Seismic Rod Clamp; Mason SRC-1..... Note: To be used on 3/8" through 5/8" rod. 1" x 1" x 1/4" Angle or Stiffener not included.	18.67	
13 48 63 00-0028	EA	Seismic Rod Clamp; Mason SRC-1 1/2..... Note: To be used on 3/8" through 1" rod. 1-1/2" x 1-1/2" x 1/4" Angle or Stiffener not included.	22.48	
13 48 63 00-0029	EA	Seismic Rod Clamp; Mason SRC-2..... Note: To be used on 3/8" through 1-1/4" rod. 2" x 2" x 1/4" Angle or Stiffener not included.	27.72	

END OF SECTION 13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 Conveying Equipment

14 01 Operation And Maintenance Of Conveying Equipment ⁽¹⁴⁾

14 01 20 Operation And Maintenance Of Elevators ^(14 01)

14 01 20 71 Elevator Rehabilitation ^(14 01 20)

14 01 20 71-0001 Elevator Maintenance ^(14 01 20 71)

14 01 20 71-0002	EA	Regular Routine Elevator Inspection, Traction Up to 10 floors (Sufficient for Issue of Certificate/Permit)	307.98	
14 01 20 71-0003	EA	Regular Routine Elevator Inspection, Traction Over 10 floors (Sufficient for Issue of Certificate/Permit)	461.97	
14 01 20 71-0004	EA	Regular Routine Elevator Inspection, Hydraulic (Sufficient for Issue of Certificate/Permit)	307.98	
14 01 20 71-0005	EA	Regular Routine Elevator Inspection, Roped Hydraulic (Sufficient for Issue of Certificate/Permit)	307.98	
14 01 20 71-0006	EA	Regular Routine Elevator Inspection, Dumbwaiter/Cart Lifts (Sufficient for Issue of Certificate/Permit)	307.98	
14 01 20 71-0007	HR	Elevator Servicing - Hydraulic, Labor Only	146.22	
14 01 20 71-0008	HR	Elevator Servicing - Traction, Labor Only	292.45	
14 01 20 71-0009	EA	Annual Category 1 Test for Traction Up to 10 floors	1,083.89	
14 01 20 71-0010	EA	Annual Category 1 Test for Traction Over 10 floors	1,083.89	
14 01 20 71-0011	EA	Annual Category 1 Test for Hydraulic Elevator	1,083.89	
14 01 20 71-0012	EA	Annual Category 1 Test for Roped Hydraulic Elevator	1,083.89	
14 01 20 71-0013	EA	Annual Category 1 Test for Dumbwaiter/Cart Lifts	812.91	
14 01 20 71-0014	EA	Full Load Test for Traction Up to 10 floors	2,167.76	
14 01 20 71-0015	EA	Full Load Test for Traction Over 10 floors	2,167.76	
14 01 20 71-0016	EA	Full Load Test for Hydraulic Elevator	2,167.76	
14 01 20 71-0017	EA	Full Load Test for Roped Hydraulic Elevator	2,167.76	
14 01 20 71-0018	EA	Full Load Test for Dumbwaiter/Cart Lifts	1,625.82	
14 01 20 71-0019	EA	Acceptance Test for Traction Up to 10 floors	1,671.75	
14 01 20 71-0020	EA	Acceptance Test for Traction Over 10 floors	1,671.75	
14 01 20 71-0021	EA	Acceptance Test for Hydraulic Elevator	1,671.75	
14 01 20 71-0022	EA	Acceptance Test for Roped Hydraulic Elevator	1,671.75	
14 01 20 71-0023	EA	Acceptance Test for Dumbwaiter/Cart Lifts	1,671.75	

14 01 20 71-0024 Elevator Modernization ^(14 01 20 71)

14 01 20 71-0025	EA	5" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM)	23,362.13	6,626.69
		Note: Includes replacing existing piston/cylinder, 10 3/4" Sealed PVC, pit channel and buffers.		
		For Union-Guard Cathodic Protection, Add	5,989.43	
		Note: Includes Pump.		
		For An Additional Stop, Add	6,972.24	
		Note: Includes Removal.		
14 01 20 71-0026	EA	6" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM)	26,399.47	8,007.25
		Note: Includes replacing existing piston/cylinder, 10 3/4" Sealed PVC, pit channel and buffers.		
		For Union-Guard Cathodic Protection, Add	6,043.43	
		Note: Includes Pump.		
		For An Additional Stop, Add	7,355.24	
		Note: Includes Removal.		
14 01 20 71-0027	EA	8" Piston Replacement (Hydraulic) Unit Up To 3 Stories (2,000 LB x 50 FPM)	34,840.64	11,044.48
		Note: Includes replacing existing piston/cylinder, 12 3/4" Sealed PVC, pit channel and buffers.		
		For Union-Guard Cathodic Protection, Add	6,907.51	
		Note: Includes Pump.		
		For An Additional Stop, Add	9,218.24	
		Note: Includes Removal.		
14 01 20 71-0028	EA	Removal And Replacement Of Multi-Port Controller Valve	3,836.90	
14 01 20 71-0029	EA	5 Gallon Container Of Hydraulic Oil For Elevator Modernization	34.29	
14 01 20 71-0030	EA	55 Gallon Container Of Hydraulic Oil For Elevator Modernization	339.96	
14 01 20 71-0031	SET	Car Roller Guide Assembly, Set Of Four	2,773.49	552.23
		Note: Includes cover plate.		
14 01 20 71-0032	SET	CWT Roller Guide Assembly, Set Of Four	2,423.54	552.23
		Note: Includes cover plate.		
14 01 20 71-0033	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Single Slide Door With Baked Enamel Finish	5,636.15	
		Note: Excludes buildback.		
14 01 20 71-0034	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Single Slide Door With Satin Stainless Finish	6,068.19	
		Note: Excludes buildback.		
14 01 20 71-0035	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Center Opening With Baked Enamel Finish	5,913.74	
		Note: Excludes buildback.		
14 01 20 71-0036	EA	8" Wide New Entrance With Frame, Header, Doors, And Hangers - Center Opening With Satin Stainless Finish	6,345.78	
		Note: Excludes buildback.		
14 01 20 71-0037	SF	Cab Flooring, Epoxy Aggregate	63.54	15.78
		Note: SF cost not applicable for partial cab flooring.		
14 01 20 71-0038	SF	Cab Flooring, Aluminum Diamond Plate	55.87	15.78
		Note: SF cost not applicable for partial cab flooring.		
14 01 20 71-0039	EA	Solid State Starting (Soft Start)	4,356.92	552.23
14 01 20 71-0040	EA	Pump Unit (Tank, Valve, Oil, Motor And Victaulic Fittings)	15,844.06	2,761.12
14 01 20 71-0041	EA	Hoistway Door Hanger Set (Rollers, Eccentrics And Track), Single Speed Side Slide (GAL)	1,794.92	552.23
14 01 20 71-0042	EA	Hoistway Door Closer Set (Spring Closer), Single Speed Side Slide (GAL)	358.20	276.11
14 01 20 71-0043	EA	Hoistway Door Closer Set (Spirator Closer), Single Speed Side Slide (GAL)	324.71	276.11
14 01 20 71-0044	EA	Hoistway Door Interlock Set, Single Speed Side Slide (GAL)	431.64	276.11
14 01 20 71-0045	EA	Hoistway Door Hanger Set (Rollers, Eccentrics And Track), Single Speed Center Opening (GAL)	1,964.50	552.23
14 01 20 71-0046	EA	Hoistway Door Closer Set (Spring Closer), Single Speed Center Opening (GAL)	440.29	276.11
14 01 20 71-0047	EA	Hoistway Door Closer Set (Spirator Closer), Single Speed Center Opening (GAL)	324.71	276.11

14 Conveying Equipment
14 01 Operation And Maintenance Of Conveying Equipment
14 01 20 Operation And Maintenance Of Elevators



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 01 20 71-0048 EA Hoistway Door Interlock Set, Single Speed Center Opening (GAL).....	508.33	276.11
14 01 20 71-0049 EA Fire Service Key Switch Controller.....	2,639.56	552.23
14 01 20 71-0050 EA ADA Telephone (Rath Microtech).....	1,265.77	276.11
14 01 20 71-0051 EA Car Door Operator With ADA Buzzer, Single Speed Side Slide (GAL).....	5,873.19	1,104.45
14 01 20 71-0052 EA Car Door Operator With ADA Buzzer, Single Speed Center Opening (GAL).....	6,013.60	1,104.45
14 01 20 71-0053 EA Car Door Safety Edge (Infrared Proximity Type Edge).....	1,310.05	276.11
14 01 20 71-0054 EA Car Operating Panel (ADA, Fire, Position, Chime).....	5,905.59	1,104.45
14 01 20 71-0055 EA Car Position LED Indicator And Cover Plate, Stainless Steel.....	1,638.41	276.11
14 01 20 71-0056 EA Car Traveling Lanterns With Audible Signal.....	1,152.36	276.11
14 01 20 71-0057 EA Hoistway Door Jamb Floor Tags (Braille).....	176.93	138.05
14 01 20 71-0058 EA Lobby Vandal Resistant Call Station.....	1,098.35	276.11
14 01 20 71-0059 LF Traveling Cable (4 - #14 AWG, 69 - #18 AWG, 1 Shielded Pair, 2 Co-Axial).....	12.49	
Note: Excludes Removal and Replacement of Material. See CSI section 14 01 20 71-0060 for Removal and Replacement of Traveling Cable.		
14 01 20 71-0060 EA Removal And Replacement Of Traveling Cable (4 - #14 AWG, 69 - #18 AWG, 1 Shielded Pair, 2 Co-Axial).....	4,417.80	2,208.89
Note: Excludes Traveling Cable material. See CSI section 14 01 20 71-0059 for Traveling Cable material.		
14 01 20 71-0061 LF Governor Cable.....	0.97	
Note: Removal and Replacement of Governor Cable is part of Traveling Cable Removal and Replacement.		
14 01 20 71-0062 EA Cab Wall Coverings (3,500 Lb. Capacity: 6'-8" x 5'-5" Cab), Plastic Laminate - Hang On Panels).....	3,816.87	552.23
14 01 20 71-0063 EA Cab Wall Coverings (3,500 Lb. Capacity: 6'-8" x 5'-5" Cab), Rigid Stainless Steel - Hang On Panels).....	5,761.05	552.23
14 01 20 71-0064 EA Removal And Replacement Of Governor.....	3,622.45	552.23
14 01 20 71-0065 EA Removal And Replacement Of Car Station.....	5,905.59	1,104.45
14 01 20 71-0066 EA Removal And Replacement Of Telephone.....	1,265.77	276.11
14 01 20 71-0067 EA Removal And Replacement Of Lanterns (Hall).....	1,206.37	276.11
14 01 20 71-0068 EA Hall Call Buttons, Vandal Resistant.....	1,044.35	276.11
14 01 20 71-0069 EA Hall Traveling Lanterns With Audible Signal.....	1,206.37	276.11
14 01 20 71-0070 EA Add Raised Character (Braille) Signage To Control Panel.....	150.69	138.05
14 01 20 71-0071 EA New Microprocessor Based Controller (Non-Proprietary).....	27,148.59	4,417.80
14 01 20 71-0072 EA New Steel Shell And Canopy (Plastic Panels Not Included), For 5' x 7' Cab.....	17,427.69	4,417.80
14 01 20 71-0073 EA New Steel Shell, Canopy And Platform (Plastic Laminate Not Included), For 5' x 7' Cab.....	27,245.98	4,417.80
14 01 20 71-0074 EA Removal And Replacement Of Elevator/Hoistway Doors (Single Slide Door Arrangement), Baked Enamel.....	2,304.73	
14 01 20 71-0075 EA Removal And Replacement Of Elevator/Hoistway Doors (Center Opening Door Arrangement), Baked Enamel.....	2,412.74	
14 01 20 71-0076 EA Removal And Replacement Of Elevator/Hoistway Doors (Single Slide Door Arrangement), Stainless Steel.....	2,531.55	
14 01 20 71-0077 EA Removal And Replacement Of Elevator/Hoistway Doors (Center Opening Door Arrangement), Stainless Steel.....	2,661.16	
14 01 20 71-0078 EA Elevator Pit Ladder, Steel.....	1,368.38	276.11
Note: Labor cost is for bolting to concrete pit wall.		
14 01 20 71-0079 EA New Steel Shell, Canopy, Platform, Standard Cab Plastic Laminate, For 5' x 7' Cab.....	33,775.29	4,417.80
14 01 20 71-0080 LF Remove And Replacement Of Hoisting Cable, 3/8" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 4.5, EHS Traction Steel - 5.5.....	111.41	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0081 LF Removal And Replacement Of Hoisting Cable, 1/2" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 6.0, EHS Traction Steel - 9.7.....	111.79	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0082 LF Removal And Replacement Of Hoisting Cable, 5/8" - Liftpac, Bethlehem Wire Rope Minimum Breaking Strength (Tons): Traction Steel - 12.7, EHS Traction Steel - 15.4.....	112.14	
Note: Labor cost is for replacement of set of 4 ropes and rise of 40 feet.		
14 01 20 71-0083 EA Hydraulic Leak Detector And Alarm in Elevator Pit (Stancor Oil Minder - 0.5 HP).....	6,007.31	552.23
14 01 20 71-0084 EA 6" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	2,628.76	552.23
Note: Cladding typically done by metal company.		
14 01 20 71-0085 EA 8" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	2,682.77	552.23
Note: Cladding typically done by metal company.		
14 01 20 71-0086 EA 10" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	2,736.77	552.23
Note: Cladding typically done by metal company.		
14 01 20 71-0087 EA 12" Wide Elevator Door Jamb And Header Wrapped With 0.030" Stainless Steel (42" x 84" Opening).....	2,801.58	552.23
Note: Cladding typically done by metal company.		
14 01 20 71-0088 EA "Rope Gripper" With Pumping Unit For Use On 4-7/8" Maximum Out to Out Of Cable.....	5,437.02	552.23
14 01 20 71-0089 EA "Rope Gripper" With Pumping Unit For Use On 6" Maximum Out to Out Of Cable.....	5,437.02	552.23
14 01 20 71-0090 EA "Rope Gripper" With Pumping Unit For Use On 10" Maximum Out to Out Of Cable.....	7,597.22	552.23
14 01 20 71-0091 EA "Rope Gripper" With Pumping Unit For Use On 11-1/2" Maximum Out to Out Of Cable.....	8,677.32	552.23
14 01 20 71-0092 EA 60 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	3,088.38	139.16
14 01 20 71-0093 EA 100 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	3,242.21	166.99
14 01 20 71-0094 EA 200 Amperes, Elevator Disconnect Switch, 3 Phase, 480 - 120 Volt, Firesafety Interface Relay, Mechanical Interlock.....	4,323.86	194.83
14 01 20 71-0095 EA Aluminum Handrail Spacers With Set Screw.....	160.48	138.05
14 01 20 71-0096 EA Bronze Handrail Spacers With Set Screw.....	163.48	138.05
14 01 20 71-0097 LF 1/2" x 2" Round Stainless Steel Elevator Handrail.....	104.39	32.49
14 01 20 71-0098 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish.....	100.87	32.49
14 01 20 71-0099 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Brushed Finish.....	117.33	32.49
14 01 20 71-0100 LF 3/8" x 2" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish.....	128.48	32.49
14 01 20 71-0101 LF 3/8" x 3" Flat Bar Stainless Steel Elevator Handrail, Mirror Finish.....	145.07	32.49
14 01 20 71-0102 LF 3/8" x 2" Flat Bar Bronze Steel Elevator Handrail, Brushed Finish.....	119.41	32.49
14 01 20 71-0103 LF 3/8" x 3" Flat Bar Bronze Steel Elevator Handrail, Brushed Finish.....	134.05	32.49
14 01 20 71-0104 LF 3/8" x 2" Flat Bar Bronze Steel Elevator Handrail, Mirror Finish.....	201.26	32.49
14 01 20 71-0105 LF 3/8" x 3" Flat Bar Bronze Steel Elevator Handrail, Mirror Finish.....	224.50	32.49
14 01 20 71-0106 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	100.31	32.49
14 01 20 71-0107 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	101.21	32.49
14 01 20 71-0108 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Brushed Finish.....	125.54	32.49
14 01 20 71-0109 LF 3/8" x 1-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	118.37	32.49
14 01 20 71-0110 LF 3/8" x 2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	126.02	32.49
14 01 20 71-0111 LF 3/8" x 2-1/2" Diameter Tubular Stainless Steel Elevator Handrail, Mirror Finish.....	154.54	32.49
14 01 20 71-0112 LF 3/8" x 1-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish.....	122.00	32.49



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 01 20 71-0113 LF 3/8" x 2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish	124.46	32.49
14 01 20 71-0114 LF 3/8" x 2-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Brushed Finish	199.51	32.49
14 01 20 71-0115 LF 3/8" x 1-1/2" Diameter Tubular Bronze Steel Elevator Handrail, Mirror Finish	135.48	32.49
14 01 20 71-0116 LF 3/8" x 2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish	199.98	32.49
14 01 20 71-0117 LF 3/8" x 2-1/2" Diameter Tubular Bronze Elevator Handrail, Mirror Finish	224.50	32.49

14 01 30 Operation And Maintenance Of Escalators And Moving Walks

14 01 30 71 Escalators and Moving Walks Rehabilitation (14 01 30)

14 01 30 71-0001 Maintenance <small>(14 01 30 71)</small>		
14 01 30 71-0002 EA Regular Escalator Inspection (Sufficient For Issue Of Certificate/Permit)	616.79	
14 01 30 71-0003 HR Escalator Servicing, Labor Only	146.22	
14 01 30 71-0004 EA Acceptance Test Of Escalators And Moving Walks	3,392.33	
14 01 30 71-0005 Modernization <small>(14 01 30 71)</small>		
14 01 30 71-0006 EA Removal And Replacement Of 28" Wide Escalator Stair Tread	1,600.16	
14 01 30 71-0007 EA Removal And Replacement Of 36" Wide Escalator Stair Tread	1,716.84	
14 01 30 71-0008 EA Removal And Replacement Of 48" Wide Escalator Stair Tread	1,803.17	
14 01 30 71-0009 EA Removal And Replacement Of 54" Wide Escalator Stair Tread	1,945.92	
14 01 30 71-0010 LF Removal And Replacement Of Sliding Handrail	149.48	

14 20 Elevators (14)

Note: Excludes final electrical work or shaft walls.

14 21 Electric Traction Elevators (14 20)

14 21 13 Electric Traction Freight Elevators (14 21)

14 21 13 00-0001 Electric Traction Freight Elevators (14 21 13)

Note: Painted metal shaft doors and steel painted cab. Unit prices based on a shaft of 6 stops (12 feet floor to floor) and 6 openings with power doors.

14 21 13 00-0002 EA Electric Traction Freight Elevator, 4,000 LB x 200 FPM	332,404.72	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Elevator With Manual Door, Deduct	-10,000.00	
For Class "C-2" Loading, Add	2,000.00	
For Removal Of Existing Stop, Add	6,856.60	
For Each Additional Stop, Add	31,141.51	
For Each Floor < 6 Stops, Deduct	-26,856.12	
For Each Additional 50 FPM, Add	6,000.00	
For Removal Of Existing Elevator, Add	34,283.01	
14 21 13 00-0003 EA Electric Traction Freight Elevator, 6,000 LB x 200 FPM	377,231.03	
For Elevator With Manual Door, Deduct	-10,000.00	
For Class "C-2" Loading, Add	4,000.00	
For Custom Plastic Laminated Cab Interiors, Add	5,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	7,000.00	
For Stainless Steel Cab Interior, Add	9,000.00	
For Removal Of Existing Stop, Add	6,856.60	
For Each Additional Stop, Add	32,141.51	
For Each Additional 50 FPM, Add	6,000.00	
For Each Opening With Bonderized Steel Door, Add	300.00	
For Each Opening With Stainless Steel Doors, Add	600.00	
For Each Opening With Two Speed Doors, Add	700.00	
For Removal Of Existing Elevator, Add	34,283.01	
For Each Floor < 6 Stops, Deduct	-27,856.12	
14 21 13 00-0004 EA Electric Traction Freight Elevator, 8,000 LB x 200 FPM	401,154.49	
For Elevator With Manual Door, Deduct	-10,000.00	
For Each Additional 50 FPM, Add	10,000.00	
For Class "C-2" Loading, Add	8,000.00	
For Removal Of Existing Stop, Add	6,856.60	
For Each Additional Stop, Add	32,141.51	
For Each Opening With Bonderized Steel Door, Add	400.00	
For Each Opening With Stainless Steel Doors, Add	700.00	
For Each Opening With Two Speed Doors, Add	800.00	
For Custom Plastic Laminated Cab Interiors, Add	6,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	8,000.00	
For Stainless Steel Cab Interior, Add	10,000.00	
For Removal Of Existing Elevator, Add	34,283.01	
For Each Floor < 6 Stops, Deduct	-27,856.12	

14 21 23 Electric Traction Passenger Elevators (14 21)

14 21 23 13 Machine Room Electric Traction Passenger Elevators (14 21 23)

14 Conveying Equipment**14 20 Elevators****14 21 Electric Traction Elevators**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

14 21 23 13-0001	Electric Traction Passenger Elevators ^(14 21 23 13) Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 6 stops (12 feet floor to floor) and 6 openings.	
14 21 23 13-0002	EA Electric Traction Passenger Elevator, 2,500 LB x 200 FPM.....	271,846.16
	For Each Opening With Bonderized Steel Door, Add	200.00
	For Each Opening With Stainless Steel Doors, Add	500.00
	For Custom Plastic Laminated Cab Interiors, Add	4,000.00
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00
	For Stainless Steel Cab Interior, Add	8,000.00
	For Each Additional 50 FPM, Add	1,000.00
	For Removal Of Existing Stop, Add	3,428.30
	For Each Additional Stop, Add	31,141.51
	For Each Floor < 6 Stops, Deduct	-18,570.73
	For Removal Of Existing Elevator, Add	25,712.26
14 21 23 13-0003	EA Electric Traction Passenger Elevator, 3,000 LB x 200 FPM.....	273,443.63
	For Each Opening With Bonderized Steel Door, Add	200.00
	For Each Opening With Stainless Steel Doors, Add	500.00
	For Custom Plastic Laminated Cab Interiors, Add	4,000.00
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00
	For Stainless Steel Cab Interior, Add	8,000.00
	For Each Additional 50 FPM, Add	1,000.00
	For Removal Of Existing Stop, Add	3,428.30
	For Each Additional Stop, Add	31,141.51
	For Each Floor < 6 Stops, Deduct	-18,570.73
	For Removal Of Existing Elevator, Add	25,712.26
14 21 23 13-0004	EA Electric Traction Passenger Elevator, 3,500 LB x 200 FPM.....	274,996.81
	For Each Opening With Bonderized Steel Door, Add	200.00
	For Each Opening With Stainless Steel Doors, Add	500.00
	For Custom Plastic Laminated Cab Interiors, Add	4,000.00
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00
	For Stainless Steel Cab Interior, Add	8,000.00
	For Each Additional 50 FPM, Add	1,000.00
	For Removal Of Existing Stop, Add	3,428.30
	For Each Additional Stop, Add	31,141.51
	For Each Floor < 6 Stops, Deduct	-18,570.73
	For Removal Of Existing Elevator, Add	25,712.26

14 24 Hydraulic Elevators ^(14 20)

Note: Prices are for a complete operating elevator including all standard controls, hydraulic motor and devices based on unit with cab sized 5' by 8' with galvanized primed shaft door with cab allowances as listed below.

14 24 13 Hydraulic Freight Elevators ^(14 24)

14 24 13 00-0001	Hydraulic Freight Elevators ^(14 24 13) Note: Painted metal shaft doors and steel painted cab. Unit prices based on a shaft of 3 stops (15 feet floor to floor) and 3 openings with power doors.	
14 24 13 00-0002	EA Hydraulic Freight Elevator, 4,000 LB x 50 FPM.....	175,445.48
	For Each Additional Stop, Add	17,428.30
	For < 3 Stops, Deduct	-14,000.00
	Note: Would be holeless hydraulic at 2 stops.	
	For Each Opening With Bonderized Steel Door, Add	200.00
	For Each Opening With Stainless Steel Doors, Add	500.00
	For Each Opening With Two Speed Doors, Add	500.00
	For Custom Plastic Laminated Cab Interiors, Add	4,000.00
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00
	For Stainless Steel Cab Interior, Add	8,000.00
	For Each Additional 50 FPM, Add	2,000.00
	For Elevator With Manual Door, Deduct	-10,000.00
	For Class "C-2" Loading, Add	2,000.00
	For Well Hole Drilling (12" Diameter Hole), Add	170.00
	Note: Includes Labor and Equipment.	
	For 12" Steel Liner, Add	90.00
	Note: Liner for Hydraulic Elevator Well Hole if necessary.	
	For Removal Of Existing Stop, Add	6,856.60
14 24 13 00-0003	EA Hydraulic Freight Elevator, 5,000 LB x 50 FPM.....	179,765.88
	For Each Opening With Bonderized Steel Door, Add	200.00
	For Each Opening With Stainless Steel Doors, Add	500.00
	For Each Opening With Two Speed Doors, Add	500.00
	For Custom Plastic Laminated Cab Interiors, Add	4,000.00
	For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00
	For Stainless Steel Cab Interior, Add	8,000.00
	For Each Additional 50 FPM, Add	2,000.00
	For Elevator With Manual Door, Deduct	-10,000.00
	For Each Additional Stop, Add	18,428.30
	For < 3 Stops, Deduct	-15,000.00
	Note: Would be holeless hydraulic at 2 stops.	
	For Class "C-2" Loading, Add	4,000.00
	For Well Hole Drilling (12" Diameter Hole), Add	170.00
	Note: Includes Labor and Equipment.	
	For 12" Steel Liner, Add	90.00
	Note: Liner for Hydraulic Elevator Well Hole if necessary.	
	For Removal Of Existing Stop, Add	6,856.60



		Conveying Equipment	14
		Elevators	14 20
		Hydraulic Elevators	14 24

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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14 24	13 00-0004	EA	Hydraulic Freight Elevator, 6,000 LB x 50 FPM For Each Opening With Bonderized Steel Door, Add For Each Opening With Stainless Steel Doors, Add For Each Opening With Two Speed Doors, Add For Custom Plastic Laminated Cab Interiors, Add For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add For Stainless Steel Cab Interior, Add For Elevator With Manual Door, Deduct For Each Additional Stop, Add For < 3 Stops, Deduct Note: Would be holeless hydraulic at 2 stops. For Each Additional 50 FPM, Add For Class "C-2" Loading, Add For Well Hole Drilling (12" Diameter Hole), Add Note: Includes Labor and Equipment. For 12" Steel Liner, Add Note: Liner for Hydraulic Elevator Well Hole if necessary. For Removal Of Existing Stop, Add	190,119.58 200.00 500.00 500.00 4,000.00 6,000.00 8,000.00 -10,000.00 18,428.30 -15,000.00 10,000.00 8,000.00 170.00 90.00 6,856.60	
14 24	13 00-0005	EA	Hydraulic Freight Elevator, 8,000 LB x 50 FPM For Each Opening With Bonderized Steel Door, Add For Each Opening With Stainless Steel Doors, Add For Each Opening With Two Speed Doors, Add For Elevator With Manual Door, Deduct For Each Additional Stop, Add For < 3 Stops, Deduct Note: Would be holeless hydraulic at 2 stops. For Custom Plastic Laminated Cab Interiors, Add For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add For Stainless Steel Cab Interior, Add For Each Additional 50 FPM, Add For Class "C-2" Loading, Add For Well Hole Drilling (12" Diameter Hole), Add Note: Includes Labor and Equipment. For 12" Steel Liner, Add Note: Liner for Hydraulic Elevator Well Hole if necessary. For Removal Of Existing Stop, Add	202,633.46 200.00 500.00 500.00 -10,000.00 18,428.30 -15,000.00 5,000.00 7,000.00 9,000.00 11,000.00 10,000.00 170.00 90.00 6,856.60	
14 24	13 00-0006		Hydraulic Elevators Piston Drilling (14 24 13)		
14 24	13 00-0007	VLF	Up To 6" Diameter Piston Drilling Note: Includes casing.	67.64	
14 24	13 00-0008	VLF	8" To 10" Diameter Piston Drilling Note: Includes casing.	80.39	

14 24 23 Hydraulic Passenger Elevators (14 24)

14 24	23 00-0001		Hydraulic Passenger Elevators (14 24 23) Note: Baked enamel shaft doors and plastic laminate trimmed cab, allowance of \$7,500. Unit prices based on a shaft of 3 stops (15 feet floor to floor) and 3 openings.		
14 24	23 00-0002	EA	Hydraulic Passenger Elevator, 2,100 LB x 100 FPM For Each Additional Stop, Add For Each Opening With Bonderized Steel Door, Add For Each Opening With Stainless Steel Doors, Add For Custom Plastic Laminated Cab Interiors, Add For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add For Stainless Steel Cab Interior, Add For Well Hole Drilling (12" Diameter Hole), Add Note: Includes Labor and Equipment. For 12" Steel Liner, Add Note: Liner for Hydraulic Elevator Well Hole if necessary. For Each Additional 50 FPM, Add For Removal Of Existing Elevator, Add For Removal Of Existing Stop, Add For < 3 Stops, Deduct Note: Would be holeless hydraulic at 2 stops.	116,345.40 17,428.30 200.00 500.00 4,000.00 6,000.00 8,000.00 170.00 90.00 1,000.00 17,141.51 3,428.30 -10,000.00	
14 24	23 00-0003	EA	Hydraulic Passenger Elevator, 2,500 LB x 100 FPM For Each Additional Stop, Add For Each Opening With Bonderized Steel Door, Add For Each Opening With Stainless Steel Doors, Add For Custom Plastic Laminated Cab Interiors, Add For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add For Stainless Steel Cab Interior, Add For Well Hole Drilling (12" Diameter Hole), Add Note: Includes Labor and Equipment. For 12" Steel Liner, Add Note: Liner for Hydraulic Elevator Well Hole if necessary. For Each Additional 50 FPM, Add For Removal Of Existing Elevator, Add For Removal Of Existing Stop, Add For < 3 Stops, Deduct Note: Would be holeless hydraulic at 2 stops.	118,505.60 17,428.30 200.00 500.00 4,000.00 6,000.00 8,000.00 170.00 90.00 1,000.00 17,141.51 3,428.30 -10,000.00	

14 Conveying Equipment

14 20 Elevators

14 24 Hydraulic Elevators



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 24 23 00-0004 EA Hydraulic Passenger Elevator, 3,500 LB x 100 FPM	125,618.98	
For Each Additional Stop, Add	17,428.30	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	17,141.51	
For Removal Of Existing Stop, Add	3,428.30	
For < 3 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		
14 24 23 00-0005 EA Hydraulic Passenger Elevator, 5,000 LB x 100 FPM	128,840.19	
For Each Additional Stop, Add	17,428.30	
For Each Opening With Bonderized Steel Door, Add	200.00	
For Each Opening With Stainless Steel Doors, Add	500.00	
For Each Opening With Two Speed Doors, Add	500.00	
For Custom Plastic Laminated Cab Interiors, Add	4,000.00	
For Custom Half Plastic Laminate And Half Stainless Steel Interior, Add	6,000.00	
For Stainless Steel Cab Interior, Add	8,000.00	
For Well Hole Drilling (12" Diameter Hole), Add	170.00	
Note: Includes Labor and Equipment.		
For 12" Steel Liner, Add	90.00	
Note: Liner for Hydraulic Elevator Well Hole if necessary.		
For Each Additional 50 FPM, Add	1,000.00	
For Removal Of Existing Elevator, Add	17,141.51	
For Removal Of Existing Stop, Add	3,428.30	
For < 3 Stops, Deduct	-10,000.00	
Note: Would be holeless hydraulic at 2 stops.		
14 24 23 00-0006 Twin Jack Holeless Hydraulic Passenger Elevator ^(14 24 23)		
Note: Baked enamel shaft doors and plastic laminated trimmed cab. Excludes flooring, shaft construction/alterations, pit or mechanical room construction. Connect to established utilities.		
14 24 23 00-0007 EA Hydraulic Passenger Elevator, 2,000 LB, 80 FPM, 3 Stops, 3 Openings	64,601.54	7,911.40
14 24 23 00-0008 EA Hydraulic Passenger Elevator, 2,000 LB, 80 FPM, 2 Stops, 2 Openings	48,991.60	6,759.47
14 26 Limited-Use/Limited-Application Elevators ^(14 20)		
14 26 00 00-0001 Small Elevators (LULA) ^(14 26)		
14 26 00 00-0002 EA Small Elevators (LULA), 1,400 LB x 30 FPM	58,786.39	
Note: 3 phase, automatic operation, includes cab interior, telephone box and telephone. 2 stops and 12 feet of rise.		
For Each Additional Stop, Add	16,142.45	
For Removal Of Existing Elevator, Add	5,142.45	
14 30 Escalators And Moving Walks ⁽¹⁴⁾		
14 31 Escalators ^(14 30)		
14 31 00 00-0001 Escalators Stainless Steel Construction ^(14 31)		
Note: Prices are medians and are based on each moving stairway. Complete, includes all standard accessories and single microprocessor controlled electronic display sign packages, LED.		
14 31 00 00-0002 EA Escalators Stainless Steel, 32" Wide x 12' Floor To Floor Height	131,317.70	10,326.97
14 31 00 00-0003 EA Escalators Stainless Steel, 32" Wide x 15' Floor To Floor Height	145,229.18	12,204.60
14 31 00 00-0004 EA Escalators Stainless Steel, 32" Wide x 18' Floor To Floor Height	158,105.18	14,082.24
14 31 00 00-0005 EA Escalators Stainless Steel, 32" Wide x 22' Floor To Floor Height	174,557.49	16,898.68
14 31 00 00-0006 EA Escalators Stainless Steel, 32" Wide x 25' Floor To Floor Height	192,808.27	18,776.31
14 31 00 00-0007 EA Escalators Stainless Steel, 36" Wide x 12' Floor To Floor Height	138,911.93	10,984.15
14 31 00 00-0008 EA Escalators Stainless Steel, 36" Wide x 15' Floor To Floor Height	153,888.86	13,143.41
14 31 00 00-0009 EA Escalators Stainless Steel, 36" Wide x 18' Floor To Floor Height	166,739.21	15,021.05
14 31 00 00-0010 EA Escalators Stainless Steel, 36" Wide x 22' Floor To Floor Height	187,605.87	18,870.19
14 31 00 00-0011 EA Escalators Stainless Steel, 36" Wide x 25' Floor To Floor Height	202,281.69	20,278.41
14 31 00 00-0012 EA Escalators Stainless Steel, 48" Wide x 12' Floor To Floor Height	146,803.06	11,641.31
14 31 00 00-0013 EA Escalators Stainless Steel, 48" Wide x 15' Floor To Floor Height	163,097.45	14,082.24
14 31 00 00-0014 EA Escalators Stainless Steel, 48" Wide x 18' Floor To Floor Height	175,563.46	15,959.87
14 31 00 00-0015 EA Escalators Stainless Steel, 48" Wide x 22' Floor To Floor Height	201,509.35	19,902.89
14 31 00 00-0016 EA Escalators Stainless Steel, 48" Wide x 25' Floor To Floor Height	213,925.90	21,780.52
14 31 00 00-0017 EA Escalator Fire Shutter Fusible Link	19,646.77	375.53
14 32 Moving Walks ^(14 30)		
14 32 00 00-0001 Moving Sidewalks ^(14 32)		
Note: Prices are medians. Includes safety rails.		
14 32 00 00-0002 LF Moving Sidewalks, 28" Wide	1,361.06	225.31
For Each LF Of Ramp Or Sloped Sections, Add	218.14	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 32 00 00-0003	LF		Moving Sidewalks, 36" Wide <i>For Each LF Of Ramp Or Sloped Sections, Add</i>	1,833.50 311.51	230.01
14 32 00 00-0004	LF		Moving Sidewalks, 48" Wide <i>For Each LF Of Ramp Or Sloped Sections, Add</i>	2,071.96 356.95	239.39
14 32 00 00-0005	LF		Moving Sidewalks, 54" Wide <i>For Each LF Of Ramp Or Sloped Sections, Add</i>	2,385.68 414.82	259.88

14 40 Lifts ⁽¹⁴⁾

14 42 Wheelchair Lifts ^(14 40)

14 42 13 Inclined Wheelchair Lifts ^(14 42)

14 42 13 00-0001 Chair Lift-Stair Climber ^(14 42 13)

14 42 13 00-0002	EA		Chair Lift, Stair Climber Per Story, Single Passenger, Indoor, 300 LB Capacity <i>Note: Includes top and bottom call button, safety chair, track, and power unit.</i>	4,166.97	462.59
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14 42 16 Vertical Wheelchair Lifts ^(14 42)

14 42 16 00-0001 Wheelchair Lift (Shorty) ^(14 42 16)

14 42 16 00-0002	EA		36" Vertical Travel Wheelchair Platform Scissor Lift <i>Note: 1000 LB capacity. Includes handrails and manual ramp.</i> <i>For Accordion Safety Skirt, Add</i> <i>For Removable Handrails, Add</i> <i>For Power Operated Ramp, Add</i>	7,792.88 998.00 100.00 885.00	308.40
14 42 16 00-0003	EA		42" Vertical Travel Wheelchair Platform Scissor Lift <i>Note: 1000 LB capacity. Includes handrails and manual ramp.</i> <i>For 2,000 LB Capacity, Add</i> <i>For 3,000 LB Capacity, Add</i> <i>For 4,000 LB Capacity, Add</i> <i>For Accordion Safety Skirt, Add</i> <i>For Removable Handrails, Add</i> <i>For Power Operated Ramp, Add</i>	8,204.07 600.00 1,000.00 1,500.00 998.00 100.00 885.00	411.20
14 42 16 00-0004	EA		70" Vertical Travel Wheelchair Platform Scissor Lift <i>Note: 1000 LB capacity. Includes handrails and manual ramp.</i> <i>For 2,000 LB Capacity, Add</i> <i>For 3,000 LB Capacity, Add</i> <i>For 4,000 LB Capacity, Add</i> <i>For Accordion Safety Skirt, Add</i> <i>For Removable Handrails, Add</i> <i>For Power Operated Ramp, Add</i>	11,053.66 600.00 1,000.00 1,500.00 998.00 100.00 885.00	513.99
14 42 16 00-0005	EA		84" Vertical Travel Wheelchair Platform Scissor Lift <i>Note: 1000 LB capacity. Includes handrails and manual ramp.</i> <i>For 2,000 LB Capacity, Add</i> <i>For 3,000 LB Capacity, Add</i> <i>For 4,000 LB Capacity, Add</i> <i>For Accordion Safety Skirt, Add</i> <i>For Removable Handrails, Add</i> <i>For Power Operated Ramp, Add</i>	12,272.86 600.00 1,000.00 1,500.00 998.00 100.00 885.00	513.99
14 42 16 00-0006	EA		18' Travel Wheelchair Incline Lift <i>Note: 500 LB capacity, interior installation.</i>	14,119.94	513.99

14 90 Other Conveying Equipment ⁽¹⁴⁾

14 91 Facility Chutes ^(14 90)

14 91 82 Trash Chutes ^(14 91)

14 91 82 00-0001 Trash Chutes ^(14 91 82)

14 91 82 00-0002	LF		18" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports <i>For Aluminum, Add</i> <i>For Stainless Steel, Add</i>	23.04 1.65 5.78	3.42
14 91 82 00-0003	LF		24" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports <i>For Aluminum, Add</i> <i>For Stainless Steel, Add</i>	29.44 2.23 7.82	3.42
14 91 82 00-0004	LF		30" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports <i>For Aluminum, Add</i> <i>For Stainless Steel, Add</i>	32.45 2.48 8.67	4.27
14 91 82 00-0005	LF		36" Diameter Galvanized Trash Chute, 18 Gauge, Duct With Supports <i>For Aluminum, Add</i> <i>For Stainless Steel, Add</i>	49.12 4.08 14.27	4.27
14 91 82 00-0006	EA		Trash Chutes, Hopper <i>For Aluminum, Add</i> <i>For Stainless Steel, Add</i>	453.54 40.54 141.87	23.94
14 91 82 00-0007	EA		Trash Chutes, Skylight <i>For Aluminum, Add</i> <i>For Stainless Steel, Add</i>	235.27 14.10 49.35	47.03
14 91 82 00-0008	EA		Trash Chutes, Sprinkler Unit At Top <i>For Aluminum, Add</i> <i>For Stainless Steel, Add</i>	170.10 6.17 21.59	51.30

14	Conveying Equipment
14 90	Other Conveying Equipment
14 91	Facility Chutes



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
14 91 82 00-0009	EA		Trash Chutes, Sprinkler Unit At Intake Hopper	46.72	17.95
			<i>For Aluminum, Add</i>	1.06	
			<i>For Stainless Steel, Add</i>	3.70	
14 91 82 00-0010	EA		Refuse Type Bottom Storage Hopper Unit	396.36	64.13
			<i>For Aluminum, Add</i>	26.08	
			<i>For Stainless Steel, Add</i>	91.29	
14 91 82 00-0011	EA		Hopper Doors.....	898.84	60.51

END OF SECTION 14

NOT FOR BID



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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21 Fire Suppression

21 01 Operation and Maintenance of Fire Suppression ⁽²¹⁾

21 01 10 Operation and Maintenance of Water-Based Fire-Suppression Systems ^(21 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

21 01 10 91 Water-Based Fire-Suppression Systems Restoration ^(21 01 10)

21 01 10 91-0001	EA	Relocate Sprinkler Head And Branch Piping ^(21 01 10 91) Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location.		
21 01 10 91-0002	EA	Relocate Existing Sprinkler Head And Branch Piping.....	56.40	
Note: To adjust or swing existing sprinkler heads to different ceiling grid configuration or location.				
21 01 10 91-0003		Sprinkler Upgrades ^(21 01 10 91)		
21 01 10 91-0004	LF	Purging Existing Lines Of Water	0.48	
21 01 10 91-0005	LF	Refill Existing Lines With Water	0.58	

21 01 30 Operation and Maintenance of Fire-Suppression Equipment ^(21 01)

21 01 30 91 Fire-Suppression Equipment Restoration ^(21 01 30)

21 01 30 91-0001		Inspection And Recharge ^(21 01 30 91)		
21 01 30 91-0002	EA	Inspection, CO2, Carbon Dioxide.....	202.07	
21 01 30 91-0003	LB	Refill/Recharge, CO2, Carbon Dioxide.....	1.67	
21 01 30 91-0004	EA	Inspection, Halon 1301	202.07	
21 01 30 91-0005	LB	Refill/Recharge, Halon 1301	40.05	
21 01 30 91-0006	EA	Inspection, WC, Wet Chemical	122.18	
21 01 30 91-0007	GAL	Refill/Recharge, WC, Wet Chemical	37.55	
21 01 30 91-0008	EA	Inspection, DC, Dry Chemical.....	122.18	
21 01 30 91-0009	LB	Refill/Recharge, DC, Dry Chemical.....	3.34	
21 01 30 91-0010	EA	Hydrostatic Testing, All Sizes, All Agents..... See CSI section 23 05 93 00-0046 for testing existing piping systems.	37.59	
21 01 30 91-0011	EA	Disarm/Arm System.....	65.79	

21 05 Common Work Results for Fire Suppression ⁽²¹⁾

21 05 13 Common Motor Requirements For Fire-Suppression Equipment ^(21 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

21 05 16 Expansion Fittings And Loops For Fire-Suppression Piping ^(21 05)

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

21 05 17 Sleeves and Sleeve Seals for Fire-Suppression Piping ^(21 05)

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

21 05 19 Meters And Gages For Fire-Suppression Systems ^(21 05)

See CSI section 33 19 00 00-0000 for water utility service metering.

21 05 19 00-0001		Fire Sprinkler System Water Pressure Gauge ^(21 05 19)		
21 05 19 00-0002	EA	2" Diameter Dial, 0-200 PSI, Water Pressure Gauge..... Note: For fire sprinkler systems	34.92	10.91
21 05 19 00-0003	EA	2-1/2" Diameter Dial, 0-300 PSI, Water Pressure Gauge	35.99	10.91
		Note: For fire sprinkler systems		
21 05 19 00-0004	EA	3" Diameter Dial, 0-300 PSI, Water Pressure Gauge.....	41.01	10.91
		Note: For fire sprinkler systems		
21 05 19 00-0005	EA	3-1/2" Diameter Dial, 0-300 PSI, Water Pressure Gauge	43.07	10.91
		Note: For fire sprinkler systems		
21 05 19 00-0006	EA	4" Diameter Dial, 0-300 PSI, Water Pressure Gauge.....	45.13	10.91
		Note: For fire sprinkler systems		
21 05 19 00-0007		Fire Service Meter Cast Iron Housing ^(21 05 19)		
21 05 19 00-0008	EA	3" Diameter, 0 - 600 GPM Fire Service Meter Flanged, With Cast Iron Housing	3,890.03	150.89
		For >10 To 25, Deduct	-194.50	
		For >25, Deduct	-564.62	
21 05 19 00-0009	EA	4" Diameter, 0 - 1,000 GPM Fire Service Meter Flanged, With Cast Iron Housing	7,920.76	252.95
		For >10 To 25, Deduct	-396.04	
		For >25, Deduct	-1,156.42	

21 Fire Suppression
21 05 Common Work Results for Fire Suppression
21 05 19 Meters And Gages For Fire-Suppression Systems



MINOR TOTAL DIRECT DEMOLITION
 CSI UOM DESCRIPTION UNIT COST UNIT COST

21 05 19 00-0010	EA	6" Diameter, 0 - 2,000 GPM Fire Service Meter Flanged, With Cast Iron Housing	10,707.15	340.15
		<i>For >10 To 25, Deduct</i>	-535.36	
		<i>For >25, Deduct</i>	-1,563.40	
21 05 19 00-0011	EA	8" Diameter, 0 - 4,000 GPM Fire Service Meter Flanged, With Cast Iron Housing	13,962.38	434.64
		<i>For >10 To 25, Deduct</i>	-698.12	
		<i>For >25, Deduct</i>	-2,040.36	
21 05 19 00-0012	EA	10" Diameter, 0 - 6,200 GPM Fire Service Meter Flanged, With Cast Iron Housing	19,656.18	529.13
		<i>For >10 To 25, Deduct</i>	-982.81	
		<i>For >25, Deduct</i>	-2,882.29	

21 05 23 General-Duty Valves For Water-Based Fire-Suppression Piping

(21 05)
 See CSI section 23 05 23 00-0000 for valves.

21 05 23 00-0001		Globe Valves (21 05 23)		
21 05 23 00-0002		Threaded, 125 LB, Bronze Body, Angle Globe Valves (21 05 23 00-0001)		
		Note: Non-rising stem		
21 05 23 00-0003	EA	1/2" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD)	54.64	9.63
21 05 23 00-0004	EA	3/4" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD)	69.42	10.12
21 05 23 00-0005	EA	1" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD)	96.25	10.12
21 05 23 00-0006	EA	1-1/4" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD)	146.04	12.82
21 05 23 00-0007	EA	1-1/2" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD)	172.02	14.84
21 05 23 00-0008	EA	2" Threaded, 125 LB, Bronze Body, Angle Globe Valve (Kennedy 98SD)	203.80	17.54
21 05 23 00-0009		Butterfly Valves (21 05 23)		
21 05 23 00-0010		Grooved End Gear Operated Butterfly Valves (21 05 23 00-0009)		
21 05 23 00-0011	EA	2-1/2" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N)	299.94	15.71
21 05 23 00-0012	EA	3" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N)	330.18	18.81
21 05 23 00-0013	EA	4" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N)	348.59	24.76
21 05 23 00-0014	EA	6" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N)	497.54	40.56
21 05 23 00-0015	EA	8" Butterfly Valve, Grooved, With Standard Trim (Nibco GD-4765-8N)	715.61	57.07
21 05 23 00-0016		Grooved End, Wafer Type, Ductile Iron, Gear Operated Butterfly Valves (21 05 23 00-0009)		
21 05 23 00-0017	EA	2" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510)	299.84	12.69
21 05 23 00-0018	EA	2-1/2" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510)	306.63	15.71
21 05 23 00-0019	EA	3" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510)	339.09	18.81
21 05 23 00-0020	EA	4" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510)	354.16	24.76
21 05 23 00-0021	EA	6" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510)	496.43	40.56
21 05 23 00-0022	EA	8" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510)	736.78	57.07
21 05 23 00-0023	EA	10" Butterfly Valve, Grooved, Wafer Type, With Standard Trim (Nibco WD-3510)	1,135.64	77.13
21 05 23 00-0024		Check Valves (21 05 23)		
21 05 23 00-0025		Bronze Body, Threaded, 150 LB, Swing Check Valves (21 05 23 00-0024)		
21 05 23 00-0026	EA	1/2" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y)	200.01	9.63
21 05 23 00-0027	EA	3/4" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y)	235.81	10.12
21 05 23 00-0028	EA	1" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y)	323.14	10.12
21 05 23 00-0029	EA	1-1/4" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y)	430.65	12.82
21 05 23 00-0030	EA	1-1/2" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y)	565.44	14.84
21 05 23 00-0031	EA	2" Swing Check Valve, Bronze, Threaded, 150 LB (Nibco T-433-Y)	827.54	17.54
21 05 23 00-0032		Flanged, Iron Body, Bronze Trim, Swing Check Valves (21 05 23 00-0024)		
21 05 23 00-0033	EA	2-1/2" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126)	559.03	128.69
21 05 23 00-0034	EA	3" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126)	637.11	150.89
21 05 23 00-0035	EA	4" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126)	911.49	252.95
21 05 23 00-0036	EA	6" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126)	1,336.84	308.33
21 05 23 00-0037	EA	8" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126)	2,071.61	393.99
21 05 23 00-0038	EA	10" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126)	3,208.65	479.64
21 05 23 00-0039	EA	12" Flanged, Iron Body, Bronze Trim, Swing Check Valves (Kennedy 126)	4,436.10	582.42
21 05 23 00-0040		Iron Body Wafer Type Check Valve (21 05 23 00-0024)		
21 05 23 00-0041	EA	2-1/2" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W)	451.41	128.75
21 05 23 00-0042	EA	3" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W)	521.23	150.96
21 05 23 00-0043	EA	4" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W)	659.05	253.06
21 05 23 00-0044	EA	6" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W)	1,047.62	355.18
21 05 23 00-0045	EA	8" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W)	1,481.19	408.46
21 05 23 00-0046	EA	10" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W)	2,117.42	44.40
21 05 23 00-0047	EA	12" Check Valve, Twin Disc, Iron Body Wafer Type (Nibco KW-900-W)	2,852.49	603.82
21 05 23 00-0048		Grooved End, Check Valves (21 05 23 00-0024)		
21 05 23 00-0049	EA	2-1/2" Check Valve, Grooved (Victaulic FireLock® 717)	267.22	15.98
21 05 23 00-0050	EA	3" Check Valve, Grooved (Victaulic FireLock® 717)	271.52	18.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 05 23 00-0051 EA 4" Check Valve, Grooved (Victaulic FireLock® 717).....	290.26	24.85
21 05 23 00-0052 EA 6" Check Valve, Grooved (Victaulic FireLock® 717).....	848.58	40.56
21 05 23 00-0053 EA 8" Check Valve, Grooved (Victaulic FireLock® 717).....	1,179.35	57.07
21 05 23 00-0054 Gate Valves (21 05 23)		
21 05 23 00-0055 Threaded, Bronze Gate Valves (21 05 23 00-0054)		
Note: Class 175		
21 05 23 00-0056 EA 1" Threaded, Bronze Gate Valve (Crane 459).....	627.87	12.05
21 05 23 00-0057 EA 1-1/4" Threaded, Bronze Gate Valve (Crane 459).....	767.41	12.82
21 05 23 00-0058 EA 1-1/2" Threaded, Bronze Gate Valve (Crane 459).....	913.25	14.84
21 05 23 00-0059 EA 2" Threaded, Bronze Gate Valve (Crane 459).....	1,139.96	17.54
21 05 23 00-0060 Flanged, Cast Iron Body, Bronze Trim Gate Valves (21 05 23 00-0054)		
Note: Class 175		
21 05 23 00-0061 EA 2-1/2" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	739.58	128.69
21 05 23 00-0062 EA 3" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	870.81	150.89
21 05 23 00-0063 EA 4" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	1,232.25	252.95
21 05 23 00-0064 EA 6" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	1,810.86	308.33
21 05 23 00-0065 EA 8" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	2,646.25	393.99
21 05 23 00-0066 EA 10" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	4,741.45	479.64
21 05 23 00-0067 EA 12" Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve (Crane 467).....	6,421.49	582.42
21 05 23 00-0068 Flanged, Resilient Wedge, Ductile Iron Body, Gate Valves (21 05 23 00-0054)		
Note: Class 175		
21 05 23 00-0069 EA 2-1/2" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	1,235.01	128.69
21 05 23 00-0070 EA 3" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	1,438.92	150.89
21 05 23 00-0071 EA 4" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	1,749.13	252.95
21 05 23 00-0072 EA 6" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	2,246.91	308.33
21 05 23 00-0073 EA 8" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	3,331.19	393.99
21 05 23 00-0074 EA 10" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	4,785.23	479.64
21 05 23 00-0075 EA 12" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6136).....	6,176.57	582.42
21 05 23 00-0076 Flanged, Resilient Wedge, Ductile Iron Body, Gate Valves (21 05 23 00-0054)		
Note: Class 250. Square operating nut actuation type.		
21 05 23 00-0077 EA 3" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	1,171.45	150.89
21 05 23 00-0078 EA 4" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	1,491.05	252.95
21 05 23 00-0079 EA 6" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	1,907.17	308.33
21 05 23 00-0080 EA 8" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	2,854.43	393.99
21 05 23 00-0081 EA 10" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	4,275.63	479.64
21 05 23 00-0082 EA 12" Outside Stem And Yoke, Flanged, Resilient Wedge, Epoxy Coated, Ductile Iron Body, Gate Valve (Clow F-6100).....	5,373.21	582.42
21 05 23 00-0083 Ball Valves (21 05 23)		
21 05 23 00-0084 Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728) (21 05 23 00-0083)		
21 05 23 00-0085 EA 1" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728).....	405.23	12.05
21 05 23 00-0086 EA 1-1/4" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728).....	441.36	12.82
21 05 23 00-0087 EA 1-1/2" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728).....	522.02	14.84
21 05 23 00-0088 EA 2" Threaded, 125 LB, Full Port, Stainless Steel Trim, Brass Body, Ball Valves (Victaulic FireLock® 728).....	628.28	17.54
21 05 23 00-0089 TESTanDRAIN® Valve (21 05 23)		
21 05 23 00-0090 EA 1/4" 3-Way Globe Valve With 1/4" NPT Test Port (AGF 7600).....	148.64	12.57
21 05 23 00-0091 EA 1" Threaded TESTanDRAIN® Valve (AGF 1000).....	168.82	15.20
21 05 23 00-0092 EA 1-1/4" Threaded TESTanDRAIN® Valve (AGF 1000).....	207.04	19.22
21 05 23 00-0093 EA 1-1/2" Threaded TESTanDRAIN® Valve (AGF 1000).....	315.95	22.19
21 05 23 00-0094 EA 2" Threaded TESTanDRAIN® Valve (AGF 1000).....	334.77	26.20
21 05 23 00-0095 EA 1" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	231.63	15.20
21 05 23 00-0096 EA 1-1/4" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	269.23	19.22
21 05 23 00-0097 EA 1-1/2" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	380.03	22.19
21 05 23 00-0098 EA 2" Threaded TESTanDRAIN® Valve With Relief Valve (AGF 1011).....	400.57	26.20

21	21 Fire Suppression
	21 05 Common Work Results for Fire Suppression
	21 05 29 Hangers And Supports For Fire-Suppression Piping And Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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21 05 29	Hangers And Supports For Fire-Suppression Piping And Equipment ^(21 05) See CSI section 23 05 29 00-0000 for hangers and supports.		
21 05 48	Vibration And Seismic Controls for Fire-Suppression Piping and Equipment ^(21 05)		
21 05 48 13	Vibration Controls For Fire-Suppression Piping And Equipment ^(21 05 48) See CSI section 23 05 48 13-0000 for vibration and seismic control.		
21 05 53	Identification For Fire-Suppression Piping And Equipment ^(21 05) See CSI section 23 05 53 00-0000 for identification.		
21 07	Fire-Suppression Systems Insulation ⁽²¹⁾		
21 07 16	Fire-Suppression Equipment Insulation ^(21 07) See CSI section 23 07 16 00-0000 for fire-suppression equipment insulation.		
21 07 19	Fire-Suppression Piping Insulation ^(21 07) See CSI section 22 07 19 00-0000 for fire-suppression piping insulation.		
21 10	Water-Based Fire-Suppression Systems ⁽²¹⁾ See CSI section 22 11 16 00-0368 for copper pipe, 22 11 16 00-0912 for CPVC pipe, 23 05 23 00-0064 for OS&Y gate valves, 23 21 13 23-0000 for black steel piping.		
21 11	Facility Fire-Suppression Water-Service Piping ^(21 10)		
21 11 19	Fire-Department Connections ^(21 11)		
21 11 19 00-0001	Fire Department Connections ^(21 11 19)		
21 11 19 00-0002	EA 4" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass..... <i>For Polished Chrome, Add</i>	755.87 41.23	281.23
21 11 19 00-0003	EA 6" x 2-1/2" x 2-1/2" Siamese Connection, Polished Brass..... <i>For Polished Chrome, Add</i>	1,037.64 63.10	351.55
21 11 19 00-0004	EA 4" x 3" x 3" Siamese Connection, Polished Brass..... <i>For Polished Chrome, Add</i>	1,065.65 79.93	281.23
21 11 19 00-0005	EA 6" x 3" x 3" Siamese Connection, Polished Brass..... <i>For Polished Chrome, Add</i>	1,401.12 108.54	351.55
21 11 19 00-0006	EA 6" x 2-1/2" x 2-1/2" x 2-1/2" Siamese Connection, Three Way, Polished Brass..... <i>For Polished Chrome, Add</i>	1,489.97 119.64	351.55
21 11 19 00-0007	EA Sidewalk Type Connection With Plug And Chain, Polished Brass..... <i>For Polished Chrome, Add</i>	1,301.66 92.27	372.06
21 11 19 00-0008	EA Wall Type Connection With Plug And Chain, Polished Brass..... <i>For Polished Chrome, Add</i>	849.59 52.94	281.23
21 11 19 00-0009	Wall Type Indicator Post, Wheel Operated ^(21 11 19) See CSI section 33 14 19 00-0001 for adjustable indicator post accessory for ground valves.		
21 11 19 00-0010	EA Wall Type Indicator Post With Wall Flange For Valve (Victaulic 773).....	1,307.50	252.95
21 11 19 00-0011	Upright Indicator Post, Wheel Operated ^(21 11 19)		
21 11 19 00-0012	EA Upright Indicator Post With Flange For Valve (Victaulic 774).....	6,240.58	252.95
21 12	Fire-Suppression Standpipes ^(21 10)		
21 12 13	Fire-Suppression Hoses And Nozzles ^(21 12)		
21 12 13 00-0001	Fire Hose ^(21 12 13)		
21 12 13 00-0002	Fire Hose Without Couplings ^(21 12 13 00-0001)		
21 12 13 00-0003	LF 1-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings.....	2.43	1.88
21 12 13 00-0004	LF 2-1/2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings.....	2.83	1.88
21 12 13 00-0005	LF 2" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings.....	2.57	1.88
21 12 13 00-0006	LF 3" Linen Fire Hose With 1-1/2" Rubber Lining Without Couplings.....	3.01	1.88
21 12 13 00-0007	LF 1-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings.....	2.73	1.88
21 12 13 00-0008	LF 2-1/2" Cotton Fire Hose, 300 LB Test With 1-1/2" Rubber Lining Without Couplings.....	3.38	1.88
21 12 13 00-0009	LF 1-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings.....	2.82	1.88
21 12 13 00-0010	LF 2-1/2" Cotton Fire Hose, 400 LB Test With 1-1/2" Rubber Lining Without Couplings.....	3.57	1.88
21 12 13 00-0011	Fire Hose With Aluminum Couplings ^(21 12 13 00-0001)		
21 12 13 00-0012	LF 1-3/4" Polyester Fire Hose With Rubber Lining With Aluminum Couplings.....	5.46	1.04
21 12 13 00-0013	LF 2-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings.....	6.79	1.22
21 12 13 00-0014	LF 3-1/2" Polyester Fire Hose With Rubber Lining With Aluminum Couplings.....	11.31	1.22
21 12 13 00-0015	Fire Hose Accessories ^(21 12 13 00-0001)		
21 12 13 00-0016	EA Hose Coupling With 1-1/2" Pin Lug.....	98.83	31.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 12 13 00-0017 EA Hose Coupling With 2-1/2" Pin Lug	141.75	34.77
21 12 13 00-0018 EA 1-1/2" x 10" Brass Straight Nozzle	67.63	24.44
21 12 13 00-0019 EA 2-1/2" x 12" Brass Straight Nozzle	124.70	24.44
21 12 13 00-0020 EA 1-1/2" Brass Fog Type Nozzle	100.47	24.44
21 12 13 00-0021 EA 2-1/2" Brass Fog Type Nozzle	140.77	24.44
21 12 13 00-0022 EA 1-1/2" Brass 100' Hose Rack	240.49	103.39
21 12 13 00-0023 EA 2-1/2" Brass 100' Hose Rack	317.35	103.39

21 12 23 Fire-Suppression Hose Valves (21 12)

21 12 23 00-0001 Standpipe Valves (21 12 23)

21 12 23 00-0002 EA 2-1/2" Fire Department Valve, Polished Brass With Plug And Chain	519.01	186.04
For Polished Chrome, Add	35.59	
21 12 23 00-0003 EA 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass	799.87	185.95
For Polished Chrome, Add	77.72	
21 12 23 00-0004 EA 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass	1,019.46	201.15
For Polished Chrome, Add	107.19	
21 12 23 00-0005 EA 3" x 3" x 4" Fire Department Valve, Flush, Polished Brass	1,204.59	185.95
For Polished Chrome, Add	138.43	
21 12 23 00-0006 EA 3" x 3" x 6" Fire Department Valve, Flush, Polished Brass	1,409.52	201.15
For Polished Chrome, Add	165.70	
21 12 23 00-0007 EA 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass	756.85	185.95
For Polished Chrome, Add	71.27	
21 12 23 00-0008 EA 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass	1,086.91	201.15
For Polished Chrome, Add	117.31	
21 12 23 00-0009 EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Flush, Polished Brass	1,371.11	191.98
For Polished Chrome, Add	129.63	
21 12 23 00-0010 EA 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Flush, Polished Brass	1,943.56	213.29
For Polished Chrome, Add	194.44	
21 12 23 00-0011 EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Fire Department Valve, Projecting, Polished Brass	1,467.89	191.98
For Polished Chrome, Add	141.24	
21 12 23 00-0012 EA 2-1/2" x 2-1/2" x 2-1/2" x 6" Fire Department Valve, Projecting, Polished Brass	2,089.38	213.29
For Polished Chrome, Add	211.94	
21 12 23 00-0013 EA 2-1/2" x 2-1/2" x 2-1/2" x 2-1/2" 6" Fire Department Valve, Square, Flush, Polished Brass	3,520.57	255.90
For Polished Chrome, Add	313.27	

21 12 23 00-0014 Fire Hose Angle Valves (21 12 23)

21 12 23 00-0015 EA 1-1/2", 300 LB Rated, Cast Brass, Fire Hose Angle Valve	151.52	25.38
21 12 23 00-0016 EA 1-1/2", 300 LB Rated, Polished Brass, Fire Hose Angle Valve	177.38	25.38
21 12 23 00-0017 EA 1-1/2", 300 LB Rated, Rough Chrome Plated, Fire Hose Angle Valve	167.98	25.38
21 12 23 00-0018 EA 1-1/2", 300 LB Rated, Polished Chrome Plated, Fire Hose Angle Valve	193.84	25.38
21 12 23 00-0019 EA 2-1/2", 300 LB Rated, Cast Brass, Fire Hose Angle Valve	267.32	42.29
21 12 23 00-0020 EA 2-1/2", 300 LB Rated, Polished Brass, Fire Hose Angle Valve	304.93	42.29
21 12 23 00-0021 EA 2-1/2", 300 LB Rated, Rough Chrome Plated, Fire Hose Angle Valve	308.07	42.29
21 12 23 00-0022 EA 2-1/2", 300 LB Rated, Polished Chrome Plated, Fire Hose Angle Valve	345.68	42.29

21 12 29 Fire-Suppression Fire Hose Equipment (21 12)

21 12 29 00-0001 Standpipe And Fire Hose Equipment (21 12 29)

21 12 29 00-0002 EA 2-1/2" x 2-1/2" x 2-1/2" x 4" Manifold Roof Type, Vertical, Polished Brass	1,551.08	461.16
21 12 29 00-0003 EA Water Motor Gong	539.94	139.85
21 12 29 00-0004 EA Fire Riser Flow Switch (National Fire Protection Association 13)	387.70	16.27
21 12 29 00-0005 EA Water Flow Supervisory (Tamper) Switch Mounted On Valve	160.99	27.83

21 12 29 00-0006 Water Flow Detector (21 12 29)

21 12 29 00-0007 Pressure-Type Wazter Flow Detector (21 12 29 00-0006)

21 12 29 00-0008 EA Pressure-Type Water Flow Detector For Up To 2-1/2" Pipe	277.27	85.64
21 12 29 00-0009 EA Pressure-Type Water Flow Detector For >2-1/2" To 4" Pipe	398.51	113.47
21 12 29 00-0010 EA Pressure-Type Water Flow Detector For >4" To 8" Pipe	589.85	128.46

21 12 29 00-0011 Vane-Type Water Flow Detector (21 12 29 00-0006)

21 12 29 00-0012 EA Vane-Type Water Flow Detector For Up To 2-1/2" Pipe	334.63	85.64
21 12 29 00-0013 EA Vane-Type Water Flow Detector For >2-1/2" To 4" Pipe	468.77	113.47
21 12 29 00-0014 EA Vane-Type Water Flow Detector For >4" To 8" Pipe	701.23	128.46

21 13 Fire-Suppression Sprinkler Systems (21 10)

21 13 13 Wet-Pipe Sprinkler Systems (21 13)

21	21	Fire Suppression
	21 10	Water-Based Fire-Suppression Systems
	21 13	Fire-Suppression Sprinkler Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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21 13 13 00-0001			Complete Wet Pipe Sprinkler Systems <small>(21 13 13)</small> Note: Includes complete design per NFPA 13, 13D or 13R and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc) from riser pipe and mains. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components.		
21 13 13 00-0002			Light Hazard, Complete Wet-Pipe Sprinkler Systems <small>(21 13 00-0001)</small>		
21 13 13 00-0003	EA		Exposed Piping, Light Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	361.60	
			Note: Includes branch pipe and fittings, supports and sprinkler heads.		
			For Copper Pipe, Add	42.19	
			For Polyvinyl Chloride (PVC) Pipe, Deduct	-60.27	
			For Up To 5, Add	168.75	
			For >5 To 10, Add	108.48	
			For >10 To 20, Add	72.32	
			For >20 To 40, Add	30.13	
			For >100 To 150, Deduct	-36.16	
			For >150, Deduct	-72.32	
21 13 13 00-0004	EA		Concealed Piping, Light Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	485.36	
			Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
			For Copper Pipe, Add	55.05	
			For Polyvinyl Chloride (PVC) Pipe, Deduct	-79.32	
			For Up To 5, Add	229.64	
			For >5 To 10, Add	150.32	
			For >10 To 20, Add	101.78	
			For >20 To 40, Add	42.02	
			For >100 To 150, Deduct	-48.54	
			For >150, Deduct	-97.07	
21 13 13 00-0005			Ordinary Hazard, Complete Wet-Pipe Sprinkler Systems <small>(21 13 13 00-0001)</small>		
21 13 13 00-0006	EA		Exposed Piping, Ordinary Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	359.81	
			Note: Includes branch pipe and fittings, supports and sprinkler heads.		
			For Copper Pipe, Add	42.06	
			For Polyvinyl Chloride (PVC) Pipe, Deduct	-60.05	
			For Up To 5, Add	167.74	
			For >5 To 10, Add	107.69	
			For >10 To 20, Add	71.71	
			For >20 To 40, Add	29.90	
			For >100 To 150, Deduct	-35.98	
			For >150, Deduct	-71.96	
21 13 13 00-0007	EA		Concealed Piping, Ordinary Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	480.75	
			Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
			For Copper Pipe, Add	54.60	
			For Polyvinyl Chloride (PVC) Pipe, Deduct	-78.64	
			For Up To 5, Add	227.33	
			For >5 To 10, Add	148.69	
			For >10 To 20, Add	100.62	
			For >20 To 40, Add	41.55	
			For >100 To 150, Deduct	-48.08	
			For >150, Deduct	-96.15	
21 13 13 00-0008			Extra Hazard, Complete Wet-Pipe Sprinkler Systems <small>(21 13 00-0001)</small>		
21 13 13 00-0009	EA		Exposed Piping, Extra Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	333.23	
			Note: Includes branch pipe and fittings, supports and sprinkler heads.		
			For Copper Pipe, Add	38.89	
			For Polyvinyl Chloride (PVC) Pipe, Deduct	-55.56	
			For Up To 5, Add	155.47	
			For >5 To 10, Add	99.92	
			For >10 To 20, Add	66.59	
			For >20 To 40, Add	27.75	
			For >100 To 150, Deduct	-33.32	
			For >150, Deduct	-66.65	
21 13 13 00-0010	EA		Concealed Piping, Extra Hazard, Complete Wet-Pipe Sprinkler System, Per Head.....	446.01	
			Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
			For Copper Pipe, Add	50.59	
			For Polyvinyl Chloride (PVC) Pipe, Deduct	-72.89	
			For Up To 5, Add	211.04	
			For >5 To 10, Add	138.15	
			For >10 To 20, Add	93.55	
			For >20 To 40, Add	38.62	
			For >100 To 150, Deduct	-44.60	
			For >150, Deduct	-89.20	
21 13 13 00-0011			Wet Pipe Sprinkler Components <small>(21 13 13)</small> Note: Excludes hydraulic calculations.		
21 13 13 00-0012			Wet Pipe Alarm Check Valves <small>(21 13 00-0011)</small> Note: Excludes trim package See CSI section 21 13 13 00-0018 for Wet Pipe Valve Trim.		
21 13 13 00-0013	EA		2-1/2" Wet Pipe Alarm Check Valve.....	1,075.51	117.75
21 13 13 00-0014	EA		3" Wet Pipe Alarm Check Valve.....	1,109.76	134.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0015 EA 4" Wet Pipe Alarm Check Valve.....	1,298.17	229.08
21 13 13 00-0016 EA 6" Wet Pipe Alarm Check Valve.....	1,612.56	289.03
21 13 13 00-0017 EA 8" Wet Pipe Alarm Check Valve.....	2,217.71	366.11
21 13 13 00-0018 Wet Pipe Valve Trim <small>(21 13 13 00-0011)</small>		
<small>Note: Vertical or Horizontal, closed drain, basic galvanized trim assembly package. Includes gauges, pressure switch, relief valve, drain line, and retard chamber.</small>		
21 13 13 00-0019 EA 2-1/2" Wet Pipe Valve Trim.....	1,015.35	249.21
21 13 13 00-0020 EA 3" Wet Pipe Valve Trim.....	1,064.35	249.21
21 13 13 00-0021 EA 4" Wet Pipe Valve Trim.....	1,307.00	341.70
21 13 13 00-0022 EA 6" Wet Pipe Valve Trim.....	1,578.66	475.30
21 13 13 00-0023 EA 8" Wet Pipe Valve Trim.....	1,767.07	588.34
21 13 13 00-0024 Wet Pipe Sprinkler Heads <small>(21 13 13 00-0011)</small>		
21 13 13 00-0025 Upright Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0026 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright Brass Wet Pipe Sprinkler Head	60.32	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.13	
<i>For >100 To 500, Deduct</i>	-8.60	
<i>For >500 To 1,000, Deduct</i>	-18.05	
<i>For >1,000, Deduct</i>	-26.50	
21 13 13 00-0027 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright Chrome Wet Pipe Sprinkler Head	62.16	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.22	
<i>For >100 To 500, Deduct</i>	-8.83	
<i>For >500 To 1,000, Deduct</i>	-18.38	
<i>For >1,000, Deduct</i>	-26.84	
21 13 13 00-0028 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Upright White Polyester Coated Wet Pipe Sprinkler Head	63.33	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.28	
<i>For >100 To 500, Deduct</i>	-8.97	
<i>For >500 To 1,000, Deduct</i>	-18.59	
<i>For >1,000, Deduct</i>	-27.05	
21 13 13 00-0029 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright Brass Wet Pipe Sprinkler Head	61.24	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.18	
<i>For >100 To 500, Deduct</i>	-8.71	
<i>For >500 To 1,000, Deduct</i>	-18.21	
<i>For >1,000, Deduct</i>	-26.67	
21 13 13 00-0030 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head	63.15	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.27	
<i>For >100 To 500, Deduct</i>	-8.95	
<i>For >500 To 1,000, Deduct</i>	-18.56	
<i>For >1,000, Deduct</i>	-27.01	
21 13 13 00-0031 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Upright White Polyester Coated Wet Pipe Sprinkler Head	64.37	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.33	
<i>For >100 To 500, Deduct</i>	-9.10	
<i>For >500 To 1,000, Deduct</i>	-18.78	
<i>For >1,000, Deduct</i>	-27.23	
21 13 13 00-0032 EA 1/2" NPT Thread, 3/8" Orifice, Quick Response, Upright Brass Wet Pipe Sprinkler Head	73.27	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.78	
<i>For >100 To 500, Deduct</i>	-10.22	
<i>For >500 To 1,000, Deduct</i>	-20.38	
<i>For >1,000, Deduct</i>	-28.84	
21 13 13 00-0033 EA 1/2" NPT Thread, 3/8" Orifice, Quick Response, Upright Chrome Wet Pipe Sprinkler Head	78.19	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-6.02	
<i>For >100 To 500, Deduct</i>	-10.83	
<i>For >500 To 1,000, Deduct</i>	-21.26	
<i>For >1,000, Deduct</i>	-29.72	
21 13 13 00-0034 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Upright Brass Wet Pipe Sprinkler Head	73.27	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.78	
<i>For >100 To 500, Deduct</i>	-10.22	
<i>For >500 To 1,000, Deduct</i>	-20.38	
<i>For >1,000, Deduct</i>	-28.84	
21 13 13 00-0035 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Upright Chrome Wet Pipe Sprinkler Head	78.19	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-6.02	
<i>For >100 To 500, Deduct</i>	-10.83	
<i>For >500 To 1,000, Deduct</i>	-21.26	
<i>For >1,000, Deduct</i>	-29.72	
21 13 13 00-0036 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Upright Brass Wet Pipe Sprinkler Head	66.90	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.46	
<i>For >100 To 500, Deduct</i>	-9.42	
<i>For >500 To 1,000, Deduct</i>	-19.23	
<i>For >1,000, Deduct</i>	-27.69	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0037	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	69.30	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.58	
		<i>For >100 To 500, Deduct</i>	-9.72	
		<i>For >500 To 1,000, Deduct</i>	-19.66	
		<i>For >1,000, Deduct</i>	-28.12	
21 13 13 00-0038	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright Brass Wet Pipe Sprinkler Head	68.92	11.75
		<i>For >25 To 50, Deduct</i>	-2.35	
		<i>For >50 To 100, Deduct</i>	-5.80	
		<i>For >100 To 500, Deduct</i>	-9.79	
		<i>For >500 To 1,000, Deduct</i>	-20.39	
		<i>For >1,000, Deduct</i>	-29.79	
21 13 13 00-0039	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright Chrome Wet Pipe Sprinkler Head.....	71.73	11.75
		<i>For >25 To 50, Deduct</i>	-2.35	
		<i>For >50 To 100, Deduct</i>	-5.94	
		<i>For >100 To 500, Deduct</i>	-10.14	
		<i>For >500 To 1,000, Deduct</i>	-20.90	
		<i>For >1,000, Deduct</i>	-30.30	
21 13 13 00-0040	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Upright White Polyester Coated Wet Pipe Sprinkler Head	72.30	11.75
		<i>For >25 To 50, Deduct</i>	-2.35	
		<i>For >50 To 100, Deduct</i>	-5.96	
		<i>For >100 To 500, Deduct</i>	-10.21	
		<i>For >500 To 1,000, Deduct</i>	-21.00	
		<i>For >1,000, Deduct</i>	-30.40	
21 13 13 00-0041	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright Brass Wet Pipe Sprinkler Head	68.92	11.75
		<i>For >25 To 50, Deduct</i>	-2.35	
		<i>For >50 To 100, Deduct</i>	-5.80	
		<i>For >100 To 500, Deduct</i>	-9.79	
		<i>For >500 To 1,000, Deduct</i>	-20.39	
		<i>For >1,000, Deduct</i>	-29.79	
21 13 13 00-0042	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright Chrome Wet Pipe Sprinkler Head	71.73	11.75
		<i>For >25 To 50, Deduct</i>	-2.35	
		<i>For >50 To 100, Deduct</i>	-5.94	
		<i>For >100 To 500, Deduct</i>	-10.14	
		<i>For >500 To 1,000, Deduct</i>	-20.90	
		<i>For >1,000, Deduct</i>	-30.30	
21 13 13 00-0043	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Upright White Polyester Coated Wet Pipe Sprinkler Head	72.30	11.75
		<i>For >25 To 50, Deduct</i>	-2.35	
		<i>For >50 To 100, Deduct</i>	-5.96	
		<i>For >100 To 500, Deduct</i>	-10.21	
		<i>For >500 To 1,000, Deduct</i>	-21.00	
		<i>For >1,000, Deduct</i>	-30.40	
21 13 13 00-0044	EA	1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright Brass Wet Pipe Sprinkler Head.....	65.63	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.40	
		<i>For >100 To 500, Deduct</i>	-9.26	
		<i>For >500 To 1,000, Deduct</i>	-19.00	
		<i>For >1,000, Deduct</i>	-27.46	
21 13 13 00-0045	EA	1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright Chrome Wet Pipe Sprinkler Head	67.46	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.49	
		<i>For >100 To 500, Deduct</i>	-9.49	
		<i>For >500 To 1,000, Deduct</i>	-19.33	
		<i>For >1,000, Deduct</i>	-27.79	
21 13 13 00-0046	EA	1/2" NPT Thread, 3/8" Orifice, K=2.8, Upright White Polyester Coated Wet Pipe Sprinkler Head	67.82	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.51	
		<i>For >100 To 500, Deduct</i>	-9.53	
		<i>For >500 To 1,000, Deduct</i>	-19.40	
		<i>For >1,000, Deduct</i>	-27.85	
21 13 13 00-0047	EA	1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright Brass Wet Pipe Sprinkler Head.....	65.63	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.40	
		<i>For >100 To 500, Deduct</i>	-9.26	
		<i>For >500 To 1,000, Deduct</i>	-19.00	
		<i>For >1,000, Deduct</i>	-27.46	
21 13 13 00-0048	EA	1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright Chrome Wet Pipe Sprinkler Head	67.46	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.49	
		<i>For >100 To 500, Deduct</i>	-9.49	
		<i>For >500 To 1,000, Deduct</i>	-19.33	
		<i>For >1,000, Deduct</i>	-27.79	
21 13 13 00-0049	EA	1/2" NPT Thread, 7/16" Orifice, K=4.2, Upright White Polyester Coated Wet Pipe Sprinkler Head	67.82	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.51	
		<i>For >100 To 500, Deduct</i>	-9.53	
		<i>For >500 To 1,000, Deduct</i>	-19.40	
		<i>For >1,000, Deduct</i>	-27.85	
21 13 13 00-0050	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Combustible Concealed Space, Upright Brass Wet Pipe Sprinkler Head.....	67.81	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.51	
		<i>For >100 To 500, Deduct</i>	-9.53	
		<i>For >500 To 1,000, Deduct</i>	-19.40	
		<i>For >1,000, Deduct</i>	-27.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0051 EA 3/4" NPT Thread, K=14.0, Extended Coverage, Upright Brass Wet Pipe Sprinkler Head	88.62	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-6.78	
For >100 To 500, Deduct	-12.25	
For >500 To 1,000, Deduct	-23.94	
For >1,000, Deduct	-33.34	
21 13 13 00-0052 EA 3/4" NPT Thread, K=14.0, Extended Coverage, Upright Chrome Wet Pipe Sprinkler Head	90.73	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-6.89	
For >100 To 500, Deduct	-12.52	
For >500 To 1,000, Deduct	-24.32	
For >1,000, Deduct	-33.72	
21 13 13 00-0053 EA 3/4" NPT Thread, K=14.0, Extended Coverage, Upright White Polyester Coated Wet Pipe Sprinkler Head	90.73	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-6.89	
For >100 To 500, Deduct	-12.52	
For >500 To 1,000, Deduct	-24.32	
For >1,000, Deduct	-33.72	
21 13 13 00-0054 EA 3/4" NPT Thread, K=11.2, Extended Coverage, Upright Brass Wet Pipe Sprinkler Head	74.37	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-6.07	
For >100 To 500, Deduct	-10.47	
For >500 To 1,000, Deduct	-21.37	
For >1,000, Deduct	-30.77	
21 13 13 00-0055 EA 3/4" NPT Thread, K=11.2, Extended Coverage, Upright Chrome Wet Pipe Sprinkler Head	75.82	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-6.14	
For >100 To 500, Deduct	-10.65	
For >500 To 1,000, Deduct	-21.64	
For >1,000, Deduct	-31.03	
21 13 13 00-0056 EA 3/4" NPT Thread, K=11.2, Extended Coverage, Upright White Polyester Coated Wet Pipe Sprinkler Head	75.82	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-6.14	
For >100 To 500, Deduct	-10.65	
For >500 To 1,000, Deduct	-21.64	
For >1,000, Deduct	-31.03	
21 13 13 00-0057 EA 1/2" NPT Thread, K=5.6, Quick Response, Upright Stainless Steel Wet Pipe Sprinkler Head	192.77	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-11.75	
For >100 To 500, Deduct	-25.15	
For >500 To 1,000, Deduct	-41.89	
For >1,000, Deduct	-50.35	
21 13 13 00-0058 EA 3/4" NPT Thread, K=8.0, Quick Response, Upright Stainless Steel Wet Pipe Sprinkler Head	212.38	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-12.97	
For >100 To 500, Deduct	-27.72	
For >500 To 1,000, Deduct	-46.22	
For >1,000, Deduct	-55.61	
21 13 13 00-0059 EA 1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Upright Brass Wet Pipe Sprinkler Head	108.18	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-7.52	
For >100 To 500, Deduct	-14.58	
For >500 To 1,000, Deduct	-26.66	
For >1,000, Deduct	-35.12	
21 13 13 00-0060 EA 1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Upright Chrome Wet Pipe Sprinkler Head	130.22	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-8.63	
For >100 To 500, Deduct	-17.33	
For >500 To 1,000, Deduct	-30.63	
For >1,000, Deduct	-39.09	
21 13 13 00-0061 EA 1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Upright Brass Wet Pipe Sprinkler Head	222.37	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-13.23	
For >100 To 500, Deduct	-28.85	
For >500 To 1,000, Deduct	-47.22	
For >1,000, Deduct	-55.67	
21 13 13 00-0062 EA 1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Upright Chrome Wet Pipe Sprinkler Head	279.81	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-16.11	
For >100 To 500, Deduct	-36.03	
For >500 To 1,000, Deduct	-57.56	
For >1,000, Deduct	-66.01	
21 13 13 00-0063 EA 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Upright Brass Wet Pipe Sprinkler Head	134.92	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-9.10	
For >100 To 500, Deduct	-18.04	
For >500 To 1,000, Deduct	-32.27	
For >1,000, Deduct	-41.67	
21 13 13 00-0064 EA 3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Upright Chrome Wet Pipe Sprinkler Head	135.59	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-9.13	
For >100 To 500, Deduct	-18.12	
For >500 To 1,000, Deduct	-32.39	
For >1,000, Deduct	-41.79	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0065			Conventional Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0066	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional Brass Wet Pipe Sprinkler Head	60.32	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.13	
			<i>For >100 To 500, Deduct</i>	-8.60	
			<i>For >500 To 1,000, Deduct</i>	-18.05	
			<i>For >1,000, Deduct</i>	-26.50	
21 13 13 00-0067	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional Chrome Wet Pipe Sprinkler Head	62.16	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.22	
			<i>For >100 To 500, Deduct</i>	-8.83	
			<i>For >500 To 1,000, Deduct</i>	-18.38	
			<i>For >1,000, Deduct</i>	-26.84	
21 13 13 00-0068	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Conventional White Polyester Coated Wet Pipe Sprinkler Head	63.33	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.28	
			<i>For >100 To 500, Deduct</i>	-8.97	
			<i>For >500 To 1,000, Deduct</i>	-18.59	
			<i>For >1,000, Deduct</i>	-27.05	
21 13 13 00-0069	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional Brass Wet Pipe Sprinkler Head	69.58	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.83	
			<i>For >100 To 500, Deduct</i>	-9.87	
			<i>For >500 To 1,000, Deduct</i>	-20.51	
			<i>For >1,000, Deduct</i>	-29.91	
21 13 13 00-0070	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional Chrome Wet Pipe Sprinkler Head	71.73	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.94	
			<i>For >100 To 500, Deduct</i>	-10.14	
			<i>For >500 To 1,000, Deduct</i>	-20.90	
			<i>For >1,000, Deduct</i>	-30.30	
21 13 13 00-0071	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Conventional White Polyester Coated Wet Pipe Sprinkler Head	72.06	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.95	
			<i>For >100 To 500, Deduct</i>	-10.18	
			<i>For >500 To 1,000, Deduct</i>	-20.96	
			<i>For >1,000, Deduct</i>	-30.36	
21 13 13 00-0072	EA		1/2" NPT Thread, K=5.6, Quick Response, Conventional Stainless Steel Wet Pipe Sprinkler Head	192.77	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-11.75	
			<i>For >100 To 500, Deduct</i>	-25.15	
			<i>For >500 To 1,000, Deduct</i>	-41.89	
			<i>For >1,000, Deduct</i>	-50.35	
21 13 13 00-0073			Pendant Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
			See CSI section 21 13 13 00-0209 for escutcheon for recessed pendant sprinkler head.		
21 13 13 00-0074	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendant Brass Wet Pipe Sprinkler Head	60.32	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.13	
			<i>For >100 To 500, Deduct</i>	-8.60	
			<i>For >500 To 1,000, Deduct</i>	-18.05	
			<i>For >1,000, Deduct</i>	-26.50	
21 13 13 00-0075	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendant Chrome Wet Pipe Sprinkler Head	62.16	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.22	
			<i>For >100 To 500, Deduct</i>	-8.83	
			<i>For >500 To 1,000, Deduct</i>	-18.38	
			<i>For >1,000, Deduct</i>	-26.84	
21 13 13 00-0076	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendant White Polyester Coated Wet Pipe Sprinkler Head	63.33	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.28	
			<i>For >100 To 500, Deduct</i>	-8.97	
			<i>For >500 To 1,000, Deduct</i>	-18.59	
			<i>For >1,000, Deduct</i>	-27.05	
21 13 13 00-0077	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendant Brass Wet Pipe Sprinkler Head	68.92	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.80	
			<i>For >100 To 500, Deduct</i>	-9.79	
			<i>For >500 To 1,000, Deduct</i>	-20.39	
			<i>For >1,000, Deduct</i>	-29.79	
21 13 13 00-0078	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendant Chrome Wet Pipe Sprinkler Head	71.73	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.94	
			<i>For >100 To 500, Deduct</i>	-10.14	
			<i>For >500 To 1,000, Deduct</i>	-20.90	
			<i>For >1,000, Deduct</i>	-30.30	
21 13 13 00-0079	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Pendant White Polyester Coated Wet Pipe Sprinkler Head	72.30	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.96	
			<i>For >100 To 500, Deduct</i>	-10.21	
			<i>For >500 To 1,000, Deduct</i>	-21.00	
			<i>For >1,000, Deduct</i>	-30.40	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0080 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent Brass Wet Pipe Sprinkler Head.....	65.63	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.40	
For >100 To 500, Deduct	-9.26	
For >500 To 1,000, Deduct	-19.00	
For >1,000, Deduct	-27.46	
21 13 13 00-0081 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent Chrome Wet Pipe Sprinkler Head.....	67.46	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.49	
For >100 To 500, Deduct	-9.49	
For >500 To 1,000, Deduct	-19.33	
For >1,000, Deduct	-27.79	
21 13 13 00-0082 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	67.82	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.51	
For >100 To 500, Deduct	-9.53	
For >500 To 1,000, Deduct	-19.40	
For >1,000, Deduct	-27.85	
21 13 13 00-0083 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Brass Wet Pipe Sprinkler Head.....	65.63	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.40	
For >100 To 500, Deduct	-9.26	
For >500 To 1,000, Deduct	-19.00	
For >1,000, Deduct	-27.46	
21 13 13 00-0084 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Chrome Wet Pipe Sprinkler Head.....	67.46	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.49	
For >100 To 500, Deduct	-9.49	
For >500 To 1,000, Deduct	-19.33	
For >1,000, Deduct	-27.79	
21 13 13 00-0085 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	67.82	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.51	
For >100 To 500, Deduct	-9.53	
For >500 To 1,000, Deduct	-19.40	
For >1,000, Deduct	-27.85	
21 13 13 00-0086 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Brass Wet Pipe Sprinkler Head, Low Lead.....	65.63	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.40	
For >100 To 500, Deduct	-9.26	
For >500 To 1,000, Deduct	-19.00	
For >1,000, Deduct	-27.46	
21 13 13 00-0087 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent Chrome Wet Pipe Sprinkler Head, Low Lead.....	67.46	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.49	
For >100 To 500, Deduct	-9.49	
For >500 To 1,000, Deduct	-19.33	
For >1,000, Deduct	-27.79	
21 13 13 00-0088 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Pendent White Polyester Coated Wet Pipe Sprinkler Head, Low Lead.....	67.82	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.51	
For >100 To 500, Deduct	-9.53	
For >500 To 1,000, Deduct	-19.40	
For >1,000, Deduct	-27.85	
21 13 13 00-0089 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Brass Wet Pipe Sprinkler Head, Low Lead.....	60.32	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.13	
For >100 To 500, Deduct	-8.60	
For >500 To 1,000, Deduct	-18.05	
For >1,000, Deduct	-26.50	
21 13 13 00-0090 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent Chrome Wet Pipe Sprinkler Head, Low Lead.....	62.16	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.22	
For >100 To 500, Deduct	-8.83	
For >500 To 1,000, Deduct	-18.38	
For >1,000, Deduct	-26.84	
21 13 13 00-0091 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Pendent White Polyester Coated Wet Pipe Sprinkler Head, Low Lead.....	63.33	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.28	
For >100 To 500, Deduct	-8.97	
For >500 To 1,000, Deduct	-18.59	
For >1,000, Deduct	-27.05	
21 13 13 00-0092 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent Brass Wet Pipe Sprinkler Head.....	61.25	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.18	
For >100 To 500, Deduct	-8.71	
For >500 To 1,000, Deduct	-18.21	
For >1,000, Deduct	-26.67	
21 13 13 00-0093 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head.....	62.55	10.58
For >25 To 50, Deduct	-2.11	
For >50 To 100, Deduct	-5.24	
For >100 To 500, Deduct	-8.88	
For >500 To 1,000, Deduct	-18.45	
For >1,000, Deduct	-26.91	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0094	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Pendent White Polyester Coated Wet Pipe Sprinkler Head	63.73	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.30	
		<i>For >100 To 500, Deduct</i>	-9.02	
		<i>For >500 To 1,000, Deduct</i>	-18.66	
		<i>For >1,000, Deduct</i>	-27.12	
21 13 13 00-0095	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent Brass Wet Pipe Sprinkler Head	70.66	11.75
		<i>For >25 To 50, Deduct</i>	-2.35	
		<i>For >50 To 100, Deduct</i>	-5.88	
		<i>For >100 To 500, Deduct</i>	-10.01	
		<i>For >500 To 1,000, Deduct</i>	-20.71	
		<i>For >1,000, Deduct</i>	-30.11	
21 13 13 00-0096	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent Chrome Wet Pipe Sprinkler Head	73.04	11.75
		<i>For >25 To 50, Deduct</i>	-2.35	
		<i>For >50 To 100, Deduct</i>	-6.00	
		<i>For >100 To 500, Deduct</i>	-10.30	
		<i>For >500 To 1,000, Deduct</i>	-21.14	
		<i>For >1,000, Deduct</i>	-30.53	
21 13 13 00-0097	EA	3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Pendent White Polyester Coated Wet Pipe Sprinkler Head	73.04	11.75
		<i>For >25 To 50, Deduct</i>	-2.35	
		<i>For >50 To 100, Deduct</i>	-6.00	
		<i>For >100 To 500, Deduct</i>	-10.30	
		<i>For >500 To 1,000, Deduct</i>	-21.14	
		<i>For >1,000, Deduct</i>	-30.53	
21 13 13 00-0098	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Pendent Brass Wet Pipe Sprinkler Head	66.90	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.46	
		<i>For >100 To 500, Deduct</i>	-9.42	
		<i>For >500 To 1,000, Deduct</i>	-19.23	
		<i>For >1,000, Deduct</i>	-27.69	
21 13 13 00-0099	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head	69.30	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.58	
		<i>For >100 To 500, Deduct</i>	-9.72	
		<i>For >500 To 1,000, Deduct</i>	-19.66	
		<i>For >1,000, Deduct</i>	-28.12	
21 13 13 00-0100	EA	1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Pendent Brass Wet Pipe Sprinkler Head	72.90	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.76	
		<i>For >100 To 500, Deduct</i>	-10.17	
		<i>For >500 To 1,000, Deduct</i>	-20.31	
		<i>For >1,000, Deduct</i>	-28.77	
21 13 13 00-0101	EA	1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head	76.84	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.96	
		<i>For >100 To 500, Deduct</i>	-10.66	
		<i>For >500 To 1,000, Deduct</i>	-21.02	
		<i>For >1,000, Deduct</i>	-29.48	
21 13 13 00-0102	EA	1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Pendent Brass Wet Pipe Sprinkler Head	72.90	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.76	
		<i>For >100 To 500, Deduct</i>	-10.17	
		<i>For >500 To 1,000, Deduct</i>	-20.31	
		<i>For >1,000, Deduct</i>	-28.77	
21 13 13 00-0103	EA	1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Pendent Chrome Wet Pipe Sprinkler Head	76.84	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.96	
		<i>For >100 To 500, Deduct</i>	-10.66	
		<i>For >500 To 1,000, Deduct</i>	-21.02	
		<i>For >1,000, Deduct</i>	-29.48	
21 13 13 00-0104	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head	63.79	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.30	
		<i>For >100 To 500, Deduct</i>	-9.03	
		<i>For >500 To 1,000, Deduct</i>	-18.67	
		<i>For >1,000, Deduct</i>	-27.13	
21 13 13 00-0105	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head	65.85	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.41	
		<i>For >100 To 500, Deduct</i>	-9.29	
		<i>For >500 To 1,000, Deduct</i>	-19.04	
		<i>For >1,000, Deduct</i>	-27.50	
21 13 13 00-0106	EA	1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head	66.94	10.58
		<i>For >25 To 50, Deduct</i>	-2.11	
		<i>For >50 To 100, Deduct</i>	-5.46	
		<i>For >100 To 500, Deduct</i>	-9.42	
		<i>For >500 To 1,000, Deduct</i>	-19.24	
		<i>For >1,000, Deduct</i>	-27.70	



Fire Suppression	21
Water-Based Fire-Suppression Systems	21 10
Fire-Suppression Sprinkler Systems	21 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0107	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	69.79	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.84	
			<i>For >100 To 500, Deduct</i>	-9.90	
			<i>For >500 To 1,000, Deduct</i>	-20.55	
			<i>For >1,000, Deduct</i>	-29.95	
21 13 13 00-0108	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	71.83	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.94	
			<i>For >100 To 500, Deduct</i>	-10.15	
			<i>For >500 To 1,000, Deduct</i>	-20.92	
			<i>For >1,000, Deduct</i>	-30.32	
21 13 13 00-0109	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	73.81	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.04	
			<i>For >100 To 500, Deduct</i>	-10.40	
			<i>For >500 To 1,000, Deduct</i>	-21.27	
			<i>For >1,000, Deduct</i>	-30.67	
21 13 13 00-0110	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	64.96	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.36	
			<i>For >100 To 500, Deduct</i>	-9.18	
			<i>For >500 To 1,000, Deduct</i>	-18.88	
			<i>For >1,000, Deduct</i>	-27.34	
21 13 13 00-0111	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	66.98	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.46	
			<i>For >100 To 500, Deduct</i>	-9.43	
			<i>For >500 To 1,000, Deduct</i>	-19.25	
			<i>For >1,000, Deduct</i>	-27.70	
21 13 13 00-0112	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	68.09	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.52	
			<i>For >100 To 500, Deduct</i>	-9.57	
			<i>For >500 To 1,000, Deduct</i>	-19.45	
			<i>For >1,000, Deduct</i>	-27.90	
21 13 13 00-0113	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	70.66	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.88	
			<i>For >100 To 500, Deduct</i>	-10.01	
			<i>For >500 To 1,000, Deduct</i>	-20.71	
			<i>For >1,000, Deduct</i>	-30.11	
21 13 13 00-0114	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	72.79	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.99	
			<i>For >100 To 500, Deduct</i>	-10.27	
			<i>For >500 To 1,000, Deduct</i>	-21.09	
			<i>For >1,000, Deduct</i>	-30.49	
21 13 13 00-0115	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	74.84	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.09	
			<i>For >100 To 500, Deduct</i>	-10.53	
			<i>For >500 To 1,000, Deduct</i>	-21.46	
			<i>For >1,000, Deduct</i>	-30.86	
21 13 13 00-0116	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Pendent Chrome Wet Pipe Sprinkler Head.....	97.15	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-6.97	
			<i>For >100 To 500, Deduct</i>	-13.20	
			<i>For >500 To 1,000, Deduct</i>	-24.68	
			<i>For >1,000, Deduct</i>	-33.13	
21 13 13 00-0117	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Pendent White Polyester Coated Wet Pipe Sprinkler Head.....	97.15	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-6.97	
			<i>For >100 To 500, Deduct</i>	-13.20	
			<i>For >500 To 1,000, Deduct</i>	-24.68	
			<i>For >1,000, Deduct</i>	-33.13	
21 13 13 00-0118	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Pendent Brass Wet Pipe Sprinkler Head.....	76.48	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.17	
			<i>For >100 To 500, Deduct</i>	-10.73	
			<i>For >500 To 1,000, Deduct</i>	-21.75	
			<i>For >1,000, Deduct</i>	-31.15	
21 13 13 00-0119	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Pendent Chrome Wet Pipe Sprinkler Head.....	78.04	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.25	
			<i>For >100 To 500, Deduct</i>	-10.93	
			<i>For >500 To 1,000, Deduct</i>	-22.04	
			<i>For >1,000, Deduct</i>	-31.43	

21	21 Fire Suppression
	21 10 Water-Based Fire-Suppression Systems
	21 13 Fire-Suppression Sprinkler Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0120	EA		3/4" NPT Thread, K=14.0, Extended Coverage, Pendant White Polyester Coated Wet Pipe Sprinkler Head	78.04	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.25	
			<i>For >100 To 500, Deduct</i>	-10.93	
			<i>For >500 To 1,000, Deduct</i>	-22.04	
			<i>For >1,000, Deduct</i>	-31.43	
21 13 13 00-0121	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendant Brass Wet Pipe Sprinkler Head.....	74.37	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.07	
			<i>For >100 To 500, Deduct</i>	-10.47	
			<i>For >500 To 1,000, Deduct</i>	-21.37	
			<i>For >1,000, Deduct</i>	-30.77	
21 13 13 00-0122	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendant Chrome Wet Pipe Sprinkler Head	75.82	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.14	
			<i>For >100 To 500, Deduct</i>	-10.65	
			<i>For >500 To 1,000, Deduct</i>	-21.64	
			<i>For >1,000, Deduct</i>	-31.03	
21 13 13 00-0123	EA		3/4" NPT Thread, K=11.2, Extended Coverage, Pendant White Polyester Coated Wet Pipe Sprinkler Head	75.82	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.14	
			<i>For >100 To 500, Deduct</i>	-10.65	
			<i>For >500 To 1,000, Deduct</i>	-21.64	
			<i>For >1,000, Deduct</i>	-31.03	
21 13 13 00-0124	EA		1/2" NPT Thread, K=5.6, Quick Response, Pendant Stainless Steel Wet Pipe Sprinkler Head.....	192.77	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-11.75	
			<i>For >100 To 500, Deduct</i>	-25.15	
			<i>For >500 To 1,000, Deduct</i>	-41.89	
			<i>For >1,000, Deduct</i>	-50.35	
21 13 13 00-0125	EA		3/4" NPT Thread, K=8.0, Quick Response, Pendant Stainless Steel Wet Pipe Sprinkler Head.....	212.38	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-12.97	
			<i>For >100 To 500, Deduct</i>	-27.72	
			<i>For >500 To 1,000, Deduct</i>	-46.22	
			<i>For >1,000, Deduct</i>	-55.61	
21 13 13 00-0126	EA		1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Pendant Brass Wet Pipe Sprinkler Head	108.18	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-7.52	
			<i>For >100 To 500, Deduct</i>	-14.58	
			<i>For >500 To 1,000, Deduct</i>	-26.66	
			<i>For >1,000, Deduct</i>	-35.12	
21 13 13 00-0127	EA		1/2" NPT Thread, K=5.6, High Temperature (400 To 500 Degree), Pendant Chrome Wet Pipe Sprinkler Head.....	130.22	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-8.63	
			<i>For >100 To 500, Deduct</i>	-17.33	
			<i>For >500 To 1,000, Deduct</i>	-30.63	
			<i>For >1,000, Deduct</i>	-39.09	
21 13 13 00-0128	EA		1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Pendant Brass Wet Pipe Sprinkler Head.....	222.37	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-13.23	
			<i>For >100 To 500, Deduct</i>	-28.85	
			<i>For >500 To 1,000, Deduct</i>	-47.22	
			<i>For >1,000, Deduct</i>	-55.67	
21 13 13 00-0129	EA		1/2" NPT Thread, K=5.6, High Temperature (650 Degree), Pendant Chrome Wet Pipe Sprinkler Head.....	279.81	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-16.11	
			<i>For >100 To 500, Deduct</i>	-36.03	
			<i>For >500 To 1,000, Deduct</i>	-57.56	
			<i>For >1,000, Deduct</i>	-66.01	
21 13 13 00-0130	EA		3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Pendant Brass Wet Pipe Sprinkler Head	134.92	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-9.10	
			<i>For >100 To 500, Deduct</i>	-18.04	
			<i>For >500 To 1,000, Deduct</i>	-32.27	
			<i>For >1,000, Deduct</i>	-41.67	
21 13 13 00-0131	EA		3/4" NPT Thread, K=8.0, High Temperature (400 To 500 Degree), Pendant Chrome Wet Pipe Sprinkler Head.....	135.59	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-9.13	
			<i>For >100 To 500, Deduct</i>	-18.12	
			<i>For >500 To 1,000, Deduct</i>	-32.39	
			<i>For >1,000, Deduct</i>	-41.79	
21 13 13 00-0132			Sidewall Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0133			Horizontal Sidewall Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0132)</small>		
21 13 13 00-0134	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	63.07	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.27	
			<i>For >100 To 500, Deduct</i>	-8.94	
			<i>For >500 To 1,000, Deduct</i>	-18.54	
			<i>For >1,000, Deduct</i>	-27.00	



		Fire Suppression	21
		Water-Based Fire-Suppression Systems	21 10
		Fire-Suppression Sprinkler Systems	21 13

12

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0135	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	64.54	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.34	
			<i>For >100 To 500, Deduct</i>	-9.12	
			<i>For >500 To 1,000, Deduct</i>	-18.81	
			<i>For >1,000, Deduct</i>	-27.26	
21 13 13 00-0136	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Horizontal Sidewall White Polyester Coated Wet Pipe Sprinkler Head	66.87	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.46	
			<i>For >100 To 500, Deduct</i>	-9.42	
			<i>For >500 To 1,000, Deduct</i>	-19.23	
			<i>For >1,000, Deduct</i>	-27.68	
21 13 13 00-0137	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	63.90	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.31	
			<i>For >100 To 500, Deduct</i>	-9.04	
			<i>For >500 To 1,000, Deduct</i>	-18.69	
			<i>For >1,000, Deduct</i>	-27.15	
21 13 13 00-0138	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	65.40	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.38	
			<i>For >100 To 500, Deduct</i>	-9.23	
			<i>For >500 To 1,000, Deduct</i>	-18.96	
			<i>For >1,000, Deduct</i>	-27.42	
21 13 13 00-0139	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Horizontal Sidewall White Wet Pipe Sprinkler Head	67.77	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.50	
			<i>For >100 To 500, Deduct</i>	-9.53	
			<i>For >500 To 1,000, Deduct</i>	-19.39	
			<i>For >1,000, Deduct</i>	-27.85	
21 13 13 00-0140	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	69.30	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.58	
			<i>For >100 To 500, Deduct</i>	-9.72	
			<i>For >500 To 1,000, Deduct</i>	-19.66	
			<i>For >1,000, Deduct</i>	-28.12	
21 13 13 00-0141	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	71.70	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.70	
			<i>For >100 To 500, Deduct</i>	-10.02	
			<i>For >500 To 1,000, Deduct</i>	-20.10	
			<i>For >1,000, Deduct</i>	-28.55	
21 13 13 00-0142	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	75.22	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.11	
			<i>For >100 To 500, Deduct</i>	-10.58	
			<i>For >500 To 1,000, Deduct</i>	-21.53	
			<i>For >1,000, Deduct</i>	-30.93	
21 13 13 00-0143	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	78.80	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.29	
			<i>For >100 To 500, Deduct</i>	-11.02	
			<i>For >500 To 1,000, Deduct</i>	-22.17	
			<i>For >1,000, Deduct</i>	-31.57	
21 13 13 00-0144	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	74.46	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.84	
			<i>For >100 To 500, Deduct</i>	-10.36	
			<i>For >500 To 1,000, Deduct</i>	-20.59	
			<i>For >1,000, Deduct</i>	-29.05	
21 13 13 00-0145	EA		1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	76.84	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.96	
			<i>For >100 To 500, Deduct</i>	-10.66	
			<i>For >500 To 1,000, Deduct</i>	-21.02	
			<i>For >1,000, Deduct</i>	-29.48	
21 13 13 00-0146	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	74.46	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.84	
			<i>For >100 To 500, Deduct</i>	-10.36	
			<i>For >500 To 1,000, Deduct</i>	-20.59	
			<i>For >1,000, Deduct</i>	-29.05	
21 13 13 00-0147	EA		1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	76.84	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.96	
			<i>For >100 To 500, Deduct</i>	-10.66	
			<i>For >500 To 1,000, Deduct</i>	-21.02	
			<i>For >1,000, Deduct</i>	-29.48	
21 13 13 00-0148	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	61.82	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.21	
			<i>For >100 To 500, Deduct</i>	-8.78	
			<i>For >500 To 1,000, Deduct</i>	-18.32	
			<i>For >1,000, Deduct</i>	-26.77	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0149	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	63.03	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.27	
			<i>For >100 To 500, Deduct</i>	-8.94	
			<i>For >500 To 1,000, Deduct</i>	-18.53	
			<i>For >1,000, Deduct</i>	-26.99	
21 13 13 00-0150	EA		1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head	64.55	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-5.34	
			<i>For >100 To 500, Deduct</i>	-9.13	
			<i>For >500 To 1,000, Deduct</i>	-18.81	
			<i>For >1,000, Deduct</i>	-27.27	
21 13 13 00-0151	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	67.94	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.75	
			<i>For >100 To 500, Deduct</i>	-9.67	
			<i>For >500 To 1,000, Deduct</i>	-20.22	
			<i>For >1,000, Deduct</i>	-29.62	
21 13 13 00-0152	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	69.25	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.81	
			<i>For >100 To 500, Deduct</i>	-9.83	
			<i>For >500 To 1,000, Deduct</i>	-20.45	
			<i>For >1,000, Deduct</i>	-29.85	
21 13 13 00-0153	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head	70.65	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.88	
			<i>For >100 To 500, Deduct</i>	-10.01	
			<i>For >500 To 1,000, Deduct</i>	-20.71	
			<i>For >1,000, Deduct</i>	-30.10	
21 13 13 00-0154	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	68.97	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.80	
			<i>For >100 To 500, Deduct</i>	-9.80	
			<i>For >500 To 1,000, Deduct</i>	-20.40	
			<i>For >1,000, Deduct</i>	-29.80	
21 13 13 00-0155	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	70.33	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.87	
			<i>For >100 To 500, Deduct</i>	-9.97	
			<i>For >500 To 1,000, Deduct</i>	-20.65	
			<i>For >1,000, Deduct</i>	-30.05	
21 13 13 00-0156	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, 300 PSI Rated, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head	71.79	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.94	
			<i>For >100 To 500, Deduct</i>	-10.15	
			<i>For >500 To 1,000, Deduct</i>	-20.91	
			<i>For >1,000, Deduct</i>	-30.31	
21 13 13 00-0157	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall Brass Wet Pipe Sprinkler Head	71.81	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-5.94	
			<i>For >100 To 500, Deduct</i>	-10.15	
			<i>For >500 To 1,000, Deduct</i>	-20.91	
			<i>For >1,000, Deduct</i>	-30.31	
21 13 13 00-0158	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	73.81	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.04	
			<i>For >100 To 500, Deduct</i>	-10.40	
			<i>For >500 To 1,000, Deduct</i>	-21.27	
			<i>For >1,000, Deduct</i>	-30.67	
21 13 13 00-0159	EA		3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Horizontal Sidewall White Wet Pipe Sprinkler Head	73.81	11.75
			<i>For >25 To 50, Deduct</i>	-2.35	
			<i>For >50 To 100, Deduct</i>	-6.04	
			<i>For >100 To 500, Deduct</i>	-10.40	
			<i>For >500 To 1,000, Deduct</i>	-21.27	
			<i>For >1,000, Deduct</i>	-30.67	
21 13 13 00-0160	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	110.40	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-7.63	
			<i>For >100 To 500, Deduct</i>	-14.86	
			<i>For >500 To 1,000, Deduct</i>	-27.06	
			<i>For >1,000, Deduct</i>	-35.52	
21 13 13 00-0161	EA		1/2" NPT Thread, 1/2" Orifice, Decorative Horizontal Sidewall White Wet Pipe Sprinkler Head	110.40	10.58
			<i>For >25 To 50, Deduct</i>	-2.11	
			<i>For >50 To 100, Deduct</i>	-7.63	
			<i>For >100 To 500, Deduct</i>	-14.86	
			<i>For >500 To 1,000, Deduct</i>	-27.06	
			<i>For >1,000, Deduct</i>	-35.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0162 EA 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall Brass Wet Pipe Sprinkler Head	62.32	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.23	
<i>For >100 To 500, Deduct</i>	-8.85	
<i>For >500 To 1,000, Deduct</i>	-18.41	
<i>For >1,000, Deduct</i>	-26.86	
21 13 13 00-0163 EA 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall Chrome Wet Pipe Sprinkler Head	62.32	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.23	
<i>For >100 To 500, Deduct</i>	-8.85	
<i>For >500 To 1,000, Deduct</i>	-18.41	
<i>For >1,000, Deduct</i>	-26.86	
21 13 13 00-0164 EA 1/2" NPT Thread, K=5.6, High Temperature (360 Degree), Horizontal Sidewall White Wet Pipe Sprinkler Head	62.32	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.23	
<i>For >100 To 500, Deduct</i>	-8.85	
<i>For >500 To 1,000, Deduct</i>	-18.41	
<i>For >1,000, Deduct</i>	-26.86	
21 13 13 00-0165 Vertical Sidewall Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0132)</small>		
21 13 13 00-0166 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall Brass Wet Pipe Sprinkler Head	64.98	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.36	
<i>For >100 To 500, Deduct</i>	-9.18	
<i>For >500 To 1,000, Deduct</i>	-18.89	
<i>For >1,000, Deduct</i>	-27.34	
21 13 13 00-0167 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall Chrome Wet Pipe Sprinkler Head	66.81	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.46	
<i>For >100 To 500, Deduct</i>	-9.41	
<i>For >500 To 1,000, Deduct</i>	-19.22	
<i>For >1,000, Deduct</i>	-27.67	
21 13 13 00-0168 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Vertical Sidewall White Wet Pipe Sprinkler Head	67.60	10.58
<i>For >25 To 50, Deduct</i>	-2.11	
<i>For >50 To 100, Deduct</i>	-5.49	
<i>For >100 To 500, Deduct</i>	-9.51	
<i>For >500 To 1,000, Deduct</i>	-19.36	
<i>For >1,000, Deduct</i>	-27.82	
21 13 13 00-0169 Concealed Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0170 Concealed Pendant Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0169)</small>		
21 13 13 00-0171 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Brass Wet Pipe Sprinkler Head, Low Lead	92.47	14.10
Note: Excludes coverplate		
<i>For >25 To 50, Deduct</i>	-2.82	
<i>For >50 To 100, Deduct</i>	-7.44	
<i>For >100 To 500, Deduct</i>	-12.97	
<i>For >500 To 1,000, Deduct</i>	-26.23	
<i>For >1,000, Deduct</i>	-37.51	
21 13 13 00-0172 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Brass Wet Pipe Sprinkler Head	70.93	14.10
Note: Excludes coverplate		
<i>For >25 To 50, Deduct</i>	-2.82	
<i>For >50 To 100, Deduct</i>	-6.37	
<i>For >100 To 500, Deduct</i>	-10.28	
<i>For >500 To 1,000, Deduct</i>	-22.35	
<i>For >1,000, Deduct</i>	-33.63	
21 13 13 00-0173 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Concealed Pendent Brass Wet Pipe Sprinkler Head	71.72	14.10
Note: Excludes coverplate		
<i>For >25 To 50, Deduct</i>	-2.82	
<i>For >50 To 100, Deduct</i>	-6.41	
<i>For >100 To 500, Deduct</i>	-10.37	
<i>For >500 To 1,000, Deduct</i>	-22.50	
<i>For >1,000, Deduct</i>	-33.77	
21 13 13 00-0174 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Concealed Pendent Brass Wet Pipe Sprinkler Head	87.10	15.27
Note: Excludes coverplate		
<i>For >25 To 50, Deduct</i>	-3.05	
<i>For >50 To 100, Deduct</i>	-7.41	
<i>For >100 To 500, Deduct</i>	-12.41	
<i>For >500 To 1,000, Deduct</i>	-26.06	
<i>For >1,000, Deduct</i>	-38.28	
21 13 13 00-0175 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Concealed Pendent Brass Wet Pipe Sprinkler Head	82.40	14.10
Note: Excludes coverplate		
<i>For >25 To 50, Deduct</i>	-2.82	
<i>For >50 To 100, Deduct</i>	-6.94	
<i>For >100 To 500, Deduct</i>	-11.71	
<i>For >500 To 1,000, Deduct</i>	-24.42	
<i>For >1,000, Deduct</i>	-35.70	
21 13 13 00-0176 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Concealed Pendent Brass Wet Pipe Sprinkler Head	82.40	14.10
Note: Excludes coverplate		
<i>For >25 To 50, Deduct</i>	-2.82	
<i>For >50 To 100, Deduct</i>	-6.94	
<i>For >100 To 500, Deduct</i>	-11.71	
<i>For >500 To 1,000, Deduct</i>	-24.42	
<i>For >1,000, Deduct</i>	-35.70	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0177 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	87.10	15.27
Note: Excludes coverplate		
For >25 To 50, Deduct	-3.05	
For >50 To 100, Deduct	-7.41	
For >100 To 500, Deduct	-12.41	
For >500 To 1,000, Deduct	-26.06	
For >1,000, Deduct	-38.28	
21 13 13 00-0178 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	77.36	14.10
Note: Excludes coverplate		
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-6.69	
For >100 To 500, Deduct	-11.08	
For >500 To 1,000, Deduct	-23.51	
For >1,000, Deduct	-34.79	
21 13 13 00-0179 EA 1/2" NPT Thread, 7/16" Orifice, K=4.2, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	82.40	14.10
Note: Excludes coverplate		
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-6.94	
For >100 To 500, Deduct	-11.71	
For >500 To 1,000, Deduct	-24.42	
For >1,000, Deduct	-35.70	
21 13 13 00-0180 EA 1/2" NPT Thread, 3/8" Orifice, K=2.8, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	82.40	14.10
Note: Excludes coverplate		
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-6.94	
For >100 To 500, Deduct	-11.71	
For >500 To 1,000, Deduct	-24.42	
For >1,000, Deduct	-35.70	
21 13 13 00-0181 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Quick Response, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	78.55	14.10
Note: Excludes coverplate		
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-6.75	
For >100 To 500, Deduct	-11.23	
For >500 To 1,000, Deduct	-23.73	
For >1,000, Deduct	-35.00	
21 13 13 00-0182 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Adjustable Concealed Pendent Brass Wet Pipe Sprinkler Head.....	121.83	16.45
Note: Excludes coverplate		
For >25 To 50, Deduct	-3.29	
For >50 To 100, Deduct	-9.38	
For >100 To 500, Deduct	-16.87	
For >500 To 1,000, Deduct	-33.11	
For >1,000, Deduct	-46.27	
21 13 13 00-0183 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	74.85	14.10
Note: Excludes coverplate		
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-6.56	
For >100 To 500, Deduct	-10.77	
For >500 To 1,000, Deduct	-23.06	
For >1,000, Deduct	-34.34	
21 13 13 00-0184 EA 3/4" NPT Thread, 17/32" Orifice, K=5.6, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	79.22	15.27
Note: Excludes coverplate		
For >25 To 50, Deduct	-3.05	
For >50 To 100, Deduct	-7.02	
For >100 To 500, Deduct	-11.43	
For >500 To 1,000, Deduct	-24.64	
For >1,000, Deduct	-36.86	
21 13 13 00-0185 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	75.56	14.10
Note: Excludes coverplate		
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-6.60	
For >100 To 500, Deduct	-10.85	
For >500 To 1,000, Deduct	-23.19	
For >1,000, Deduct	-34.47	
21 13 13 00-0186 EA 3/4" NPT Thread, 17/32" Orifice, K=5.6, 300 PSI Rated, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	80.26	15.27
Note: Excludes coverplate		
For >25 To 50, Deduct	-3.05	
For >50 To 100, Deduct	-7.07	
For >100 To 500, Deduct	-11.56	
For >500 To 1,000, Deduct	-24.83	
For >1,000, Deduct	-37.05	
21 13 13 00-0187 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Extended Coverage, Concealed Pendent Brass Wet Pipe Sprinkler Head.....	87.43	15.27
Note: Excludes coverplate		
For >25 To 50, Deduct	-3.05	
For >50 To 100, Deduct	-7.43	
For >100 To 500, Deduct	-12.46	
For >500 To 1,000, Deduct	-26.12	
For >1,000, Deduct	-38.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0188 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable Chrome Coverplate.....	138.17	16.45
For >25 To 50, Deduct	-3.29	
For >50 To 100, Deduct	-10.20	
For >100 To 500, Deduct	-18.92	
For >500 To 1,000, Deduct	-36.05	
For >1,000, Deduct	-49.21	
21 13 13 00-0189 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Concealed Pendent Non-Ferrous Sprinkler Head With Escutcheon And Adjustable White Coverplate.....	138.17	16.45
For >25 To 50, Deduct	-3.29	
For >50 To 100, Deduct	-10.20	
For >100 To 500, Deduct	-18.92	
For >500 To 1,000, Deduct	-36.05	
For >1,000, Deduct	-49.21	
21 13 13 00-0190 Concealed Horizontal Side Wall Wet-Pipe Sprinkler Heads <small>(21 13 13 00-0189)</small>		
21 13 13 00-0191 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	98.46	14.10
Note: Excludes coverplate		
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-7.74	
For >100 To 500, Deduct	-13.72	
For >500 To 1,000, Deduct	-27.31	
For >1,000, Deduct	-38.59	
21 13 13 00-0192 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	110.17	15.27
Note: Excludes coverplate		
For >25 To 50, Deduct	-3.05	
For >50 To 100, Deduct	-8.56	
For >100 To 500, Deduct	-15.30	
For >500 To 1,000, Deduct	-30.22	
For >1,000, Deduct	-42.43	
21 13 13 00-0193 EA 1/2" NPT Thread, 1/2" Orifice, K=5.6, Quick Response, Extended Coverage, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	80.95	14.10
Note: Excludes coverplate		
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-6.87	
For >100 To 500, Deduct	-11.53	
For >500 To 1,000, Deduct	-24.16	
For >1,000, Deduct	-35.44	
21 13 13 00-0194 EA 3/4" NPT Thread, 17/32" Orifice, K=8.0, Quick Response, Extended Coverage, Concealed Horizontal Sidewall Brass Wet Pipe Sprinkler Head.....	82.98	15.27
Note: Excludes coverplate		
For >25 To 50, Deduct	-3.05	
For >50 To 100, Deduct	-7.20	
For >100 To 500, Deduct	-11.90	
For >500 To 1,000, Deduct	-25.32	
For >1,000, Deduct	-37.54	
21 13 13 00-0195 Institutional Tamper Resistant Wet Pipe Sprinkler Heads <small>(21 13 13 00-0024)</small>		
21 13 13 00-0196 EA 1/2" NPT Thread, K=5.6, Institutional Tamper Resistant, Pendant Chrome Wet Pipe Sprinkler Head.....	209.93	11.75
Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.		
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-12.85	
For >100 To 500, Deduct	-27.42	
For >500 To 1,000, Deduct	-45.78	
For >1,000, Deduct	-55.17	
21 13 13 00-0197 EA 1/2" NPT Thread, K=5.6, Institutional Tamper Resistant, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	205.23	11.75
Note: Complete assembly including escutcheon, spacers, retaining flange, and centering grommet.		
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-12.61	
For >100 To 500, Deduct	-26.83	
For >500 To 1,000, Deduct	-44.93	
For >1,000, Deduct	-54.33	
21 13 13 00-0198 EA 1/2" NPT Thread, K=5.6, Quick Response, Institutional Tamper Resistant, Pendant Chrome Wet Pipe Sprinkler Head.....	96.81	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-7.19	
For >100 To 500, Deduct	-13.28	
For >500 To 1,000, Deduct	-25.41	
For >1,000, Deduct	-34.81	
21 13 13 00-0199 EA 1/2" NPT Thread, K=5.6, Quick Response, Institutional Tamper Resistant, Horizontal Sidewall Chrome Wet Pipe Sprinkler Head.....	106.58	11.75
For >25 To 50, Deduct	-2.35	
For >50 To 100, Deduct	-7.68	
For >100 To 500, Deduct	-14.50	
For >500 To 1,000, Deduct	-27.17	
For >1,000, Deduct	-36.57	
21 13 13 00-0200 Wet Pipe Sprinkler Head Accessories <small>(21 13 13 00-0011)</small>		
21 13 13 00-0201 Sprinkler Adjustable Steel Drop Nipple <small>(21 13 13 00-0200)</small>		

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0202	EA		1" Male NPT x 1/2" Female NPT x 4.125" Minimum Length To 5.125" Maximum Length, Adjustable Steel Drop Nipple (Anvil M1.150).....	38.49	11.82
			<i>For >25 To 50, Deduct</i>	-0.98	
			<i>For >50 To 100, Deduct</i>	-2.91	
			<i>For >100 To 500, Deduct</i>	-5.30	
			<i>For >500 To 1,000, Deduct</i>	-10.28	
			<i>For >1,000, Deduct</i>	-14.21	
21 13 13 00-0203	EA		1" Male NPT x 1/2" Female NPT x 6.125" Minimum Length To 9.125" Maximum Length, Adjustable Steel Drop Nipple (Anvil M3.150).....	38.49	11.82
			<i>For >25 To 50, Deduct</i>	-0.98	
			<i>For >50 To 100, Deduct</i>	-2.91	
			<i>For >100 To 500, Deduct</i>	-5.30	
			<i>For >500 To 1,000, Deduct</i>	-10.28	
			<i>For >1,000, Deduct</i>	-14.21	
21 13 13 00-0204	EA		1" Male NPT x 1/2" Female NPT x 7.875" Minimum Length To 10.875" Maximum Length, Adjustable Steel Drop Nipple (Anvil ME3.150).....	38.87	11.82
			<i>For >25 To 50, Deduct</i>	-0.98	
			<i>For >50 To 100, Deduct</i>	-2.93	
			<i>For >100 To 500, Deduct</i>	-5.35	
			<i>For >500 To 1,000, Deduct</i>	-10.34	
			<i>For >1,000, Deduct</i>	-14.28	
21 13 13 00-0205	EA		1" Female NPT x 1/2" Female NPT x 3.5" Minimum Length To 4.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F1.150).....	34.92	11.82
			<i>For >25 To 50, Deduct</i>	-0.98	
			<i>For >50 To 100, Deduct</i>	-2.73	
			<i>For >100 To 500, Deduct</i>	-4.86	
			<i>For >500 To 1,000, Deduct</i>	-9.63	
			<i>For >1,000, Deduct</i>	-13.57	
21 13 13 00-0206	EA		1" Female NPT x 1/2" Female NPT x 4.5" Minimum Length To 6.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F2.150).....	34.92	11.82
			<i>For >25 To 50, Deduct</i>	-0.98	
			<i>For >50 To 100, Deduct</i>	-2.73	
			<i>For >100 To 500, Deduct</i>	-4.86	
			<i>For >500 To 1,000, Deduct</i>	-9.63	
			<i>For >1,000, Deduct</i>	-13.57	
21 13 13 00-0207	EA		1" Female NPT x 1/2" Female NPT x 5.5" Minimum Length To 8.5" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.150).....	34.92	11.82
			<i>For >25 To 50, Deduct</i>	-0.98	
			<i>For >50 To 100, Deduct</i>	-2.73	
			<i>For >100 To 500, Deduct</i>	-4.86	
			<i>For >500 To 1,000, Deduct</i>	-9.63	
			<i>For >1,000, Deduct</i>	-13.57	
21 13 13 00-0208	EA		1" Female NPT x 3/4" Female NPT x 7.35" Minimum Length To 10.35" Maximum Length, Adjustable Steel Drop Nipple (Anvil F3.175).....	38.85	12.84
			<i>For >25 To 50, Deduct</i>	-1.07	
			<i>For >50 To 100, Deduct</i>	-3.01	
			<i>For >100 To 500, Deduct</i>	-5.39	
			<i>For >500 To 1,000, Deduct</i>	-10.63	
			<i>For >1,000, Deduct</i>	-14.91	
21 13 13 00-0209			Sprinkler Head Escutcheon (21 13 13 00-0200)		
21 13 13 00-0210	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon.....	14.76	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.09	
			<i>For >100 To 500, Deduct</i>	-2.02	
			<i>For >500 To 1,000, Deduct</i>	-3.86	
			<i>For >1,000, Deduct</i>	-5.27	
21 13 13 00-0211	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon.....	10.87	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.90	
			<i>For >100 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-3.16	
			<i>For >1,000, Deduct</i>	-4.57	
21 13 13 00-0212	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon.....	10.87	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.90	
			<i>For >100 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-3.16	
			<i>For >1,000, Deduct</i>	-4.57	
21 13 13 00-0213	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon.....	14.76	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.09	
			<i>For >100 To 500, Deduct</i>	-2.02	
			<i>For >500 To 1,000, Deduct</i>	-3.86	
			<i>For >1,000, Deduct</i>	-5.27	
21 13 13 00-0214	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon.....	10.87	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.90	
			<i>For >100 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-3.16	
			<i>For >1,000, Deduct</i>	-4.57	



Fire Suppression	21
Water-Based Fire-Suppression Systems	21 10
Fire-Suppression Sprinkler Systems	21 13

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0215	EA		2-7/8" Diameter x 1-1/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon.....	10.87	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.90	
			<i>For >100 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-3.16	
			<i>For >1,000, Deduct</i>	-4.57	
21 13 13 00-0216	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Recessed Escutcheon.....	14.05	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.06	
			<i>For >100 To 500, Deduct</i>	-1.93	
			<i>For >500 To 1,000, Deduct</i>	-3.73	
			<i>For >1,000, Deduct</i>	-5.14	
21 13 13 00-0217	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Recessed Escutcheon.....	10.87	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.90	
			<i>For >100 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-3.16	
			<i>For >1,000, Deduct</i>	-4.57	
21 13 13 00-0218	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 1/2" NPT, White Sprinkler Head Recessed Escutcheon.....	10.87	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.90	
			<i>For >100 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-3.16	
			<i>For >1,000, Deduct</i>	-4.57	
21 13 13 00-0219	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Recessed Escutcheon.....	14.05	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.06	
			<i>For >100 To 500, Deduct</i>	-1.93	
			<i>For >500 To 1,000, Deduct</i>	-3.73	
			<i>For >1,000, Deduct</i>	-5.14	
21 13 13 00-0220	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Recessed Escutcheon.....	10.87	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.90	
			<i>For >100 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-3.16	
			<i>For >1,000, Deduct</i>	-4.57	
21 13 13 00-0221	EA		2-7/8" Diameter x 7/8" Depth, Two Piece, 3/4" NPT, White Sprinkler Head Recessed Escutcheon.....	10.87	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-0.90	
			<i>For >100 To 500, Deduct</i>	-1.54	
			<i>For >500 To 1,000, Deduct</i>	-3.16	
			<i>For >1,000, Deduct</i>	-4.57	
21 13 13 00-0222	EA		3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off Chrome Sprinkler Head Recessed Escutcheon.....	14.40	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.07	
			<i>For >100 To 500, Deduct</i>	-1.98	
			<i>For >500 To 1,000, Deduct</i>	-3.79	
			<i>For >1,000, Deduct</i>	-5.20	
21 13 13 00-0223	EA		3-7/32" Diameter x 15/16" Depth, Two Piece, 1/2" NPT, Push-On/Thread-Off White Sprinkler Head Recessed Escutcheon.....	14.40	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.07	
			<i>For >100 To 500, Deduct</i>	-1.98	
			<i>For >500 To 1,000, Deduct</i>	-3.79	
			<i>For >1,000, Deduct</i>	-5.20	
21 13 13 00-0224	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Brass Sprinkler Head Escutcheon.....	6.26	3.10
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.55	
			<i>For >100 To 500, Deduct</i>	-0.90	
			<i>For >500 To 1,000, Deduct</i>	-1.93	
			<i>For >1,000, Deduct</i>	-2.87	
21 13 13 00-0225	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon.....	5.77	3.10
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.52	
			<i>For >100 To 500, Deduct</i>	-0.84	
			<i>For >500 To 1,000, Deduct</i>	-1.84	
			<i>For >1,000, Deduct</i>	-2.78	
21 13 13 00-0226	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon.....	5.90	3.10
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100 To 500, Deduct</i>	-0.86	
			<i>For >500 To 1,000, Deduct</i>	-1.86	
			<i>For >1,000, Deduct</i>	-2.80	
21 13 13 00-0227	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Brass Sprinkler Head Escutcheon.....	6.35	3.10
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.55	
			<i>For >100 To 500, Deduct</i>	-0.91	
			<i>For >500 To 1,000, Deduct</i>	-1.94	
			<i>For >1,000, Deduct</i>	-2.88	
21 13 13 00-0228	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, Chrome Sprinkler Head Escutcheon.....	5.86	3.10
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100 To 500, Deduct</i>	-0.85	
			<i>For >500 To 1,000, Deduct</i>	-1.85	
			<i>For >1,000, Deduct</i>	-2.79	

21 Fire Suppression
21 10 Water-Based Fire-Suppression Systems
21 13 Fire-Suppression Sprinkler Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0229	EA		2-7/8" Diameter x 11/16" Depth, One Piece, 3/4" NPT, White Sprinkler Head Escutcheon	5.86	3.10
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100 To 500, Deduct</i>	-0.85	
			<i>For >500 To 1,000, Deduct</i>	-1.85	
			<i>For >1,000, Deduct</i>	-2.79	
21 13 13 00-0230	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Bright Brass Sprinkler Head Escutcheon.....	6.85	3.10
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.58	
			<i>For >100 To 500, Deduct</i>	-0.97	
			<i>For >500 To 1,000, Deduct</i>	-2.03	
			<i>For >1,000, Deduct</i>	-2.97	
21 13 13 00-0231	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, Chrome Sprinkler Head Escutcheon.....	5.84	3.10
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100 To 500, Deduct</i>	-0.85	
			<i>For >500 To 1,000, Deduct</i>	-1.85	
			<i>For >1,000, Deduct</i>	-2.79	
21 13 13 00-0232	EA		2-7/8" Diameter x 1/8" Depth, One Piece, 1/2" NPT, White Sprinkler Head Escutcheon	5.84	3.10
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.53	
			<i>For >100 To 500, Deduct</i>	-0.85	
			<i>For >500 To 1,000, Deduct</i>	-1.85	
			<i>For >1,000, Deduct</i>	-2.79	
21 13 13 00-0233	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Brass Sprinkler Head Telescoping Escutcheon	9.30	4.35
			<i>For >25 To 50, Deduct</i>	-0.33	
			<i>For >50 To 100, Deduct</i>	-0.79	
			<i>For >100 To 500, Deduct</i>	-1.33	
			<i>For >500 To 1,000, Deduct</i>	-2.79	
			<i>For >1,000, Deduct</i>	-4.11	
21 13 13 00-0234	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, Chrome Sprinkler Head Telescoping Escutcheon	9.03	4.35
			<i>For >25 To 50, Deduct</i>	-0.33	
			<i>For >50 To 100, Deduct</i>	-0.78	
			<i>For >100 To 500, Deduct</i>	-1.29	
			<i>For >500 To 1,000, Deduct</i>	-2.74	
			<i>For >1,000, Deduct</i>	-4.06	
21 13 13 00-0235	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 1/2" NPT, White Sprinkler Head Telescoping Escutcheon	9.12	4.35
			<i>For >25 To 50, Deduct</i>	-0.33	
			<i>For >50 To 100, Deduct</i>	-0.79	
			<i>For >100 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.76	
			<i>For >1,000, Deduct</i>	-4.08	
21 13 13 00-0236	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Brass Sprinkler Head Telescoping Escutcheon	9.38	4.35
			<i>For >25 To 50, Deduct</i>	-0.33	
			<i>For >50 To 100, Deduct</i>	-0.80	
			<i>For >100 To 500, Deduct</i>	-1.34	
			<i>For >500 To 1,000, Deduct</i>	-2.81	
			<i>For >1,000, Deduct</i>	-4.12	
21 13 13 00-0237	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, Chrome Sprinkler Head Telescoping Escutcheon	9.12	4.35
			<i>For >25 To 50, Deduct</i>	-0.33	
			<i>For >50 To 100, Deduct</i>	-0.79	
			<i>For >100 To 500, Deduct</i>	-1.30	
			<i>For >500 To 1,000, Deduct</i>	-2.76	
			<i>For >1,000, Deduct</i>	-4.08	
21 13 13 00-0238	EA		3-1/2" Diameter x 2" Minimum To 3" Maximum Depth, Two Piece, 3/4" NPT, White Sprinkler Head Telescoping Escutcheon	9.30	4.35
			<i>For >25 To 50, Deduct</i>	-0.33	
			<i>For >50 To 100, Deduct</i>	-0.79	
			<i>For >100 To 500, Deduct</i>	-1.33	
			<i>For >500 To 1,000, Deduct</i>	-2.79	
			<i>For >1,000, Deduct</i>	-4.11	
21 13 13 00-0239	EA		Flat Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....	17.61	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100 To 500, Deduct</i>	-2.38	
			<i>For >500 To 1,000, Deduct</i>	-4.37	
			<i>For >1,000, Deduct</i>	-5.78	
21 13 13 00-0240	EA		Flat White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	17.61	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100 To 500, Deduct</i>	-2.38	
			<i>For >500 To 1,000, Deduct</i>	-4.37	
			<i>For >1,000, Deduct</i>	-5.78	
21 13 13 00-0241	EA		Conical Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head.....	17.61	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100 To 500, Deduct</i>	-2.38	
			<i>For >500 To 1,000, Deduct</i>	-4.37	
			<i>For >1,000, Deduct</i>	-5.78	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0242	EA		Conical White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	17.61	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100 To 500, Deduct</i>	-2.38	
			<i>For >500 To 1,000, Deduct</i>	-4.37	
			<i>For >1,000, Deduct</i>	-5.78	
21 13 13 00-0243	EA		Chrome Sprinkler Head Escutcheon For Decorative Horizontal Sidewall Sprinkler Head	17.61	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100 To 500, Deduct</i>	-2.38	
			<i>For >500 To 1,000, Deduct</i>	-4.37	
			<i>For >1,000, Deduct</i>	-5.78	
21 13 13 00-0244	EA		White Sprinkler Head Escutcheon For Decorative Horizontal Sidewall Sprinkler Head	17.61	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.23	
			<i>For >100 To 500, Deduct</i>	-2.38	
			<i>For >500 To 1,000, Deduct</i>	-4.37	
			<i>For >1,000, Deduct</i>	-5.78	
21 13 13 00-0245	EA		2-Piece Chrome Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	20.02	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.35	
			<i>For >100 To 500, Deduct</i>	-2.68	
			<i>For >500 To 1,000, Deduct</i>	-4.80	
			<i>For >1,000, Deduct</i>	-6.21	
21 13 13 00-0246	EA		2-Piece White Sprinkler Head Escutcheon For Decorative Pendent Sprinkler Head	20.58	4.23
			<i>For >25 To 50, Deduct</i>	-0.35	
			<i>For >50 To 100, Deduct</i>	-1.38	
			<i>For >100 To 500, Deduct</i>	-2.75	
			<i>For >500 To 1,000, Deduct</i>	-4.90	
			<i>For >1,000, Deduct</i>	-6.31	
21 13 13 00-0247			Coverplate For Sprinkler Heads (21 13 13 00-0200)		
21 13 13 00-0248	EA		Chrome Coverplate For Concealed Pendent Sprinkler Head	39.38	4.79
			<i>For >25 To 50, Deduct</i>	-0.40	
			<i>For >50 To 100, Deduct</i>	-2.37	
			<i>For >100 To 500, Deduct</i>	-5.12	
			<i>For >500 To 1,000, Deduct</i>	-8.45	
			<i>For >1,000, Deduct</i>	-10.04	
21 13 13 00-0249	EA		White Coverplate For Concealed Pendent Sprinkler Head	20.22	4.79
			<i>For >25 To 50, Deduct</i>	-0.40	
			<i>For >50 To 100, Deduct</i>	-1.41	
			<i>For >100 To 500, Deduct</i>	-2.73	
			<i>For >500 To 1,000, Deduct</i>	-5.00	
			<i>For >1,000, Deduct</i>	-6.60	
21 13 13 00-0250	EA		Specialty Coverplate For Concealed Pendent Sprinkler Head	28.53	4.79
			<i>For >25 To 50, Deduct</i>	-0.40	
			<i>For >50 To 100, Deduct</i>	-1.83	
			<i>For >100 To 500, Deduct</i>	-3.77	
			<i>For >500 To 1,000, Deduct</i>	-6.49	
			<i>For >1,000, Deduct</i>	-8.09	
21 13 13 00-0251	EA		Brass Coverplate For Concealed Sidewall Sprinkler Head	26.38	4.79
			<i>For >25 To 50, Deduct</i>	-0.40	
			<i>For >50 To 100, Deduct</i>	-1.72	
			<i>For >100 To 500, Deduct</i>	-3.50	
			<i>For >500 To 1,000, Deduct</i>	-6.11	
			<i>For >1,000, Deduct</i>	-7.70	
21 13 13 00-0252	EA		Chrome Coverplate For Concealed Sidewall Sprinkler Head	21.49	4.79
			<i>For >25 To 50, Deduct</i>	-0.40	
			<i>For >50 To 100, Deduct</i>	-1.47	
			<i>For >100 To 500, Deduct</i>	-2.89	
			<i>For >500 To 1,000, Deduct</i>	-5.23	
			<i>For >1,000, Deduct</i>	-6.82	
21 13 13 00-0253	EA		White Coverplate For Concealed Sidewall Sprinkler Head	21.49	4.79
			<i>For >25 To 50, Deduct</i>	-0.40	
			<i>For >50 To 100, Deduct</i>	-1.47	
			<i>For >100 To 500, Deduct</i>	-2.89	
			<i>For >500 To 1,000, Deduct</i>	-5.23	
			<i>For >1,000, Deduct</i>	-6.82	
21 13 13 00-0254	EA		Off-White Coverplate For Concealed Sidewall Sprinkler Head	26.38	4.79
			<i>For >25 To 50, Deduct</i>	-0.40	
			<i>For >50 To 100, Deduct</i>	-1.72	
			<i>For >100 To 500, Deduct</i>	-3.50	
			<i>For >500 To 1,000, Deduct</i>	-6.11	
			<i>For >1,000, Deduct</i>	-7.70	
21 13 13 00-0255	EA		Black Painted Coverplate For Concealed Sidewall Sprinkler Head	26.38	4.79
			<i>For >25 To 50, Deduct</i>	-0.40	
			<i>For >50 To 100, Deduct</i>	-1.72	
			<i>For >100 To 500, Deduct</i>	-3.50	
			<i>For >500 To 1,000, Deduct</i>	-6.11	
			<i>For >1,000, Deduct</i>	-7.70	

21	21 Fire Suppression
	21 10 Water-Based Fire-Suppression Systems
	21 13 Fire-Suppression Sprinkler Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0256 EA Black Plated Coverplate For Concealed Sidewall Sprinkler Head.....	30.25	4.79
For >25 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-1.91	
For >100 To 500, Deduct	-3.98	
For >500 To 1,000, Deduct	-6.80	
For >1,000, Deduct	-8.40	
21 13 13 00-0257 EA Bright Brass Coverplate For Concealed Sidewall Sprinkler Head.....	30.25	4.79
For >25 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-1.91	
For >100 To 500, Deduct	-3.98	
For >500 To 1,000, Deduct	-6.80	
For >1,000, Deduct	-8.40	
21 13 13 00-0258 EA Satin Chrome Coverplate For Concealed Sidewall Sprinkler Head.....	30.25	4.79
For >25 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-1.91	
For >100 To 500, Deduct	-3.98	
For >500 To 1,000, Deduct	-6.80	
For >1,000, Deduct	-8.40	
21 13 13 00-0259 EA Specialty Coverplate For Concealed Sidewall Sprinkler Head.....	26.40	4.79
For >25 To 50, Deduct	-0.40	
For >50 To 100, Deduct	-1.72	
For >100 To 500, Deduct	-3.50	
For >500 To 1,000, Deduct	-6.11	
For >1,000, Deduct	-7.71	
21 13 13 00-0260 EA White Coverplate For Quick Release Concealed Sidewall Sprinkler Head.....	43.93	5.63
For >25 To 50, Deduct	-0.47	
For >50 To 100, Deduct	-2.67	
For >100 To 500, Deduct	-5.73	
For >500 To 1,000, Deduct	-9.51	
For >1,000, Deduct	-11.39	
21 13 13 00-0261 Sprinkler Escutcheon Extension Tube <small>(21 13 13 00-0200)</small>		
21 13 13 00-0262 EA 2.18" Diameter x 4" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	10.77	2.82
Note: For use with 2 piece escutcheons		
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.77	
For >100 To 500, Deduct	-1.46	
For >500 To 1,000, Deduct	-2.74	
For >1,000, Deduct	-3.68	
21 13 13 00-0263 EA 2.18" Diameter x 6" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	13.70	2.96
Note: For use with 2 piece escutcheons		
For >25 To 50, Deduct	-0.25	
For >50 To 100, Deduct	-0.93	
For >100 To 500, Deduct	-1.84	
For >500 To 1,000, Deduct	-3.30	
For >1,000, Deduct	-4.29	
21 13 13 00-0264 EA 2.18" Diameter x 8" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	16.97	3.10
Note: For use with 2 piece escutcheons		
For >25 To 50, Deduct	-0.26	
For >50 To 100, Deduct	-1.11	
For >100 To 500, Deduct	-2.25	
For >500 To 1,000, Deduct	-3.93	
For >1,000, Deduct	-4.97	
21 13 13 00-0265 EA 2.18" Diameter x 10" Long Stainless Steel With Chrome Or White Finish, Escutcheon Extension Tube.....	19.90	3.24
Note: For use with 2 piece escutcheons		
For >25 To 50, Deduct	-0.27	
For >50 To 100, Deduct	-1.27	
For >100 To 500, Deduct	-2.62	
For >500 To 1,000, Deduct	-4.50	
For >1,000, Deduct	-5.58	
21 13 13 00-0266 Sprinkler Head Guards <small>(21 13 13 00-0200)</small>		
21 13 13 00-0267 EA Universal Sprinkler Head Guard, C-1.....	17.96	8.46
For >25 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.60	
For >100 To 500, Deduct	-2.60	
For >500 To 1,000, Deduct	-5.63	
For >1,000, Deduct	-8.45	
21 13 13 00-0268 EA Dry Pendent Sprinkler Head Guard, C-2.....	19.46	8.46
For >25 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.68	
For >100 To 500, Deduct	-2.79	
For >500 To 1,000, Deduct	-5.90	
For >1,000, Deduct	-8.72	
21 13 13 00-0269 EA Upright Sprinkler Head Guard With Water Shield, C-3.....	22.01	8.46
For >25 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.81	
For >100 To 500, Deduct	-3.10	
For >500 To 1,000, Deduct	-6.36	
For >1,000, Deduct	-9.18	



Fire Suppression	21	12
Water-Based Fire-Suppression Systems	21 10	
Fire-Suppression Sprinkler Systems	21 13	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0270 EA Pendent Sprinkler Head Guard With Water Shield, C-5.....	25.16	8.46
For >25 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.96	
For >100 To 500, Deduct	-3.50	
For >500 To 1,000, Deduct	-6.93	
For >1,000, Deduct	-9.75	
21 13 13 00-0271 EA Universal Sprinkler Head Guard, D-1.....	19.40	8.46
For >25 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.68	
For >100 To 500, Deduct	-2.78	
For >500 To 1,000, Deduct	-5.89	
For >1,000, Deduct	-8.71	
21 13 13 00-0272 EA Upright Sprinkler Head Guard With Water Shield, D-3	20.37	8.46
For >25 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-1.72	
For >100 To 500, Deduct	-2.90	
For >500 To 1,000, Deduct	-6.06	
For >1,000, Deduct	-8.88	
21 13 13 00-0273 EA Pendent Sprinkler Head Guard With Large Water Shield, D-4.....	27.59	8.46
For >25 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-2.08	
For >100 To 500, Deduct	-3.80	
For >500 To 1,000, Deduct	-7.36	
For >1,000, Deduct	-10.18	
21 13 13 00-0274 EA Pendent Sprinkler Head Guard With Small Water Shield, D-5.....	26.14	8.46
For >25 To 50, Deduct	-0.71	
For >50 To 100, Deduct	-2.01	
For >100 To 500, Deduct	-3.62	
For >500 To 1,000, Deduct	-7.10	
For >1,000, Deduct	-9.92	
21 13 13 00-0275 Replacement Sprinkler Escutcheon (21 13 13 00-0200)		
21 13 13 00-0276 EA Push On, Brass Replacement Sprinkler Escutcheon	8.04	3.10
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.64	
For >100 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-2.25	
For >1,000, Deduct	-3.19	
21 13 13 00-0277 EA Push On, Chrome Replacement Sprinkler Escutcheon	7.99	3.10
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.63	
For >100 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-2.24	
For >1,000, Deduct	-3.18	
21 13 13 00-0278 EA Push On, White Replacement Sprinkler Escutcheon	7.99	3.10
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.63	
For >100 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-2.24	
For >1,000, Deduct	-3.18	
21 13 13 00-0279 EA Flush, Brass Replacement Sprinkler Escutcheon	7.99	3.10
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.63	
For >100 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-2.24	
For >1,000, Deduct	-3.18	
21 13 13 00-0280 EA Flush, Chrome Replacement Sprinkler Escutcheon.....	7.99	3.10
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.63	
For >100 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-2.24	
For >1,000, Deduct	-3.18	
21 13 13 00-0281 EA Flush, White Replacement Sprinkler Escutcheon	9.46	3.10
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.71	
For >100 To 500, Deduct	-1.30	
For >500 To 1,000, Deduct	-2.50	
For >1,000, Deduct	-3.44	
21 13 13 00-0282 EA Deep, Brass Replacement Sprinkler Escutcheon	7.99	3.10
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.63	
For >100 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-2.24	
For >1,000, Deduct	-3.18	
21 13 13 00-0283 EA Deep, Chrome Replacement Sprinkler Escutcheon.....	7.99	3.10
For >25 To 50, Deduct	-0.24	
For >50 To 100, Deduct	-0.63	
For >100 To 500, Deduct	-1.12	
For >500 To 1,000, Deduct	-2.24	
For >1,000, Deduct	-3.18	

21	21	Fire Suppression
	21 10	Water-Based Fire-Suppression Systems
	21 13	Fire-Suppression Sprinkler Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 13 00-0284	EA		Deep, White Replacement Sprinkler Escutcheon.....	7.99	3.10
			<i>For >25 To 50, Deduct</i>	-0.24	
			<i>For >50 To 100, Deduct</i>	-0.63	
			<i>For >100 To 500, Deduct</i>	-1.12	
			<i>For >500 To 1,000, Deduct</i>	-2.24	
			<i>For >1,000, Deduct</i>	-3.18	
21 13 13 00-0285			Pendent Shield And O-Ring Assembly <small>(21 13 13 00-0200)</small>		
21 13 13 00-0286	EA		Pendent Shield And O-Ring Assembly.....	13.36	6.20
			<i>For >25 To 50, Deduct</i>	-0.47	
			<i>For >50 To 100, Deduct</i>	-1.14	
			<i>For >100 To 500, Deduct</i>	-1.91	
			<i>For >500 To 1,000, Deduct</i>	-4.00	
			<i>For >1,000, Deduct</i>	-5.88	
21 13 13 00-0287			Replacement Insulating Sealing Assembly <small>(21 13 13 00-0200)</small>		
21 13 13 00-0288	EA		Insulating Sealing Assembly.....	52.01	14.10
			<i>For >100 To 500, Deduct</i>	-7.21	
			<i>For >500 To 1,000, Deduct</i>	-14.15	
21 13 13 00-0289			Flexible Sprinkler Piping <small>(21 13 13 00-0011)</small>		
			Note: 1" Diameter stainless steel flexible pipe with either 1/2" or 3/4" outlet.		
21 13 13 00-0290	EA		2' Long Stainless Steel Flexible Sprinkler Piping.....	53.22	14.57
			Note: Includes ceiling mounting bracket.		
			<i>For >25 To 50, Deduct</i>	-1.47	
			<i>For >50 To 100, Deduct</i>	-4.13	
			<i>For >100 To 500, Deduct</i>	-7.39	
			<i>For >500 To 1,000, Deduct</i>	-14.57	
			<i>For >1,000, Deduct</i>	-20.45	
21 13 13 00-0291	EA		3' Long Stainless Steel Flexible Sprinkler Piping.....	58.40	15.04
			Note: Includes ceiling mounting bracket.		
			<i>For >25 To 50, Deduct</i>	-1.55	
			<i>For >50 To 100, Deduct</i>	-4.47	
			<i>For >100 To 500, Deduct</i>	-8.07	
			<i>For >500 To 1,000, Deduct</i>	-15.77	
			<i>For >1,000, Deduct</i>	-21.95	
21 13 13 00-0292	EA		4' Long Stainless Steel Flexible Sprinkler Piping.....	63.73	15.98
			Note: Includes ceiling mounting bracket.		
			<i>For >25 To 50, Deduct</i>	-1.63	
			<i>For >50 To 100, Deduct</i>	-4.82	
			<i>For >100 To 500, Deduct</i>	-8.78	
			<i>For >500 To 1,000, Deduct</i>	-17.02	
			<i>For >1,000, Deduct</i>	-23.54	
21 13 13 00-0293	EA		5' Long Stainless Steel Flexible Sprinkler Piping.....	69.28	16.91
			Note: Includes ceiling mounting bracket.		
			<i>For >25 To 50, Deduct</i>	-1.73	
			<i>For >50 To 100, Deduct</i>	-5.19	
			<i>For >100 To 500, Deduct</i>	-9.52	
			<i>For >500 To 1,000, Deduct</i>	-18.34	
			<i>For >1,000, Deduct</i>	-25.25	
21 13 13 00-0294	EA		6' Long Stainless Steel Flexible Sprinkler Piping.....	75.07	18.80
			Note: Includes ceiling mounting bracket.		
			<i>For >25 To 50, Deduct</i>	-1.84	
			<i>For >50 To 100, Deduct</i>	-5.59	
			<i>For >100 To 500, Deduct</i>	-10.30	
			<i>For >500 To 1,000, Deduct</i>	-19.76	
			<i>For >1,000, Deduct</i>	-27.10	
21 13 13 00-0295			Sprinkler Emergency Cabinets <small>(21 13 13 00-0011)</small>		
21 13 13 00-0296	EA		3 Capacity Emergency Sprinkler Cabinet, A4.....	74.68	
21 13 13 00-0297	EA		6 Capacity Emergency Sprinkler Cabinet, A4.....	79.38	
21 13 13 00-0298	EA		12 Capacity Emergency Sprinkler Cabinet, A4.....	72.18	
21 13 13 00-0299	EA		12 Capacity Emergency Sprinkler Cabinet, A3.....	220.31	
21 13 13 00-0300	EA		Sprinkler Wrench, RC1.....	91.60	
21 13 13 00-0301	EA		Sprinkler Wrench, FC.....	82.95	
21 13 13 00-0302	EA		Sprinkler Wrench, W2.....	30.30	
21 13 16			Dry-Pipe Sprinkler Systems <small>(21 13)</small>		
21 13 16 00-0001			Complete Dry Pipe Sprinkler Systems <small>(21 13 16)</small>		
			Note: Includes complete design per NFPA 13 and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks. For sprinkler repairs or sprinkler head replacements use specific pipe, fittings, hangers, valves, and sprinkler head components.		
21 13 16 00-0002			Light Hazard, Dry-Pipe Sprinkler Systems <small>(21 13 16 00-0001)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0003 EA Exposed Piping, Light Hazard, Dry-Pipe Sprinkler System, Per Head.....	392.66	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	183.46	
For >5 To 10, Add	105.25	
For >10 To 20, Add	78.85	
For >20 To 40, Add	32.83	
For >100 To 150, Deduct	-39.27	
For >150, Deduct	-78.53	
For Copper Pipe, Add	45.70	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-65.34	
21 13 16 00-0004 EA Concealed Piping, Light Hazard, Dry-Pipe Sprinkler System, Per Head.....	498.27	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Up To 5, Add	235.11	
For >5 To 10, Add	139.33	
For >10 To 20, Add	103.53	
For >20 To 40, Add	42.81	
For >100 To 150, Deduct	-49.83	
For >150, Deduct	-99.65	
For Copper Pipe, Add	56.84	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-81.75	
21 13 16 00-0005 Ordinary Hazard, Dry-Pipe Sprinkler Systems (21 13 16 00-0001)		
21 13 16 00-0006 EA Exposed Piping, Ordinary Hazard, Dry-Pipe Sprinkler System, Per Head.....	396.90	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	184.82	
For >5 To 10, Add	104.85	
For >10 To 20, Add	78.78	
For >20 To 40, Add	32.88	
For >100 To 150, Deduct	-39.69	
For >150, Deduct	-79.38	
For Copper Pipe, Add	46.50	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-66.35	
21 13 16 00-0007 EA Concealed Piping, Ordinary Hazard, Dry-Pipe Sprinkler System, Per Head.....	500.17	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Up To 5, Add	235.44	
For >5 To 10, Add	138.44	
For >10 To 20, Add	103.07	
For >20 To 40, Add	42.69	
For >100 To 150, Deduct	-50.02	
For >150, Deduct	-100.03	
For Copper Pipe, Add	57.34	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-82.35	
21 13 16 00-0008 Extra Hazard, Dry-Pipe Sprinkler Systems (21 13 16 00-0001)		
21 13 16 00-0009 EA Exposed Piping, Extra Hazard, Dry-Pipe Sprinkler System, Per Head.....	371.98	
Note: Includes branch pipe and fittings, supports and sprinkler heads.		
For Up To 5, Add	173.08	
For >5 To 10, Add	97.91	
For >10 To 20, Add	73.63	
For >20 To 40, Add	30.74	
For >100 To 150, Deduct	-37.20	
For >150, Deduct	-74.40	
For Copper Pipe, Add	43.65	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-62.25	
21 13 16 00-0010 EA Concealed Piping, Extra Hazard, Dry-Pipe Sprinkler System, Per Head.....	465.66	
Note: Includes branch pipe and fittings, supports and sprinkler heads with flat or conical escutcheon.		
For Up To 5, Add	219.21	
For >5 To 10, Add	128.92	
For >10 To 20, Add	95.98	
For >20 To 40, Add	39.75	
For >100 To 150, Deduct	-46.57	
For >150, Deduct	-93.13	
For Copper Pipe, Add	53.38	
For Polyvinyl Chloride (PVC) Pipe, Deduct	-76.66	
21 13 16 00-0011 Dry-Pipe Sprinkler System Equipment (21 13 16 00-0001)		
21 13 16 00-0012 EA Dry System Air Compressor, 3/4 HP With Alarm Valve Flange With Gauge.....	1,798.63	268.13
21 13 16 00-0013 EA Dry System Air Compressor, 1 HP With Alarm Valve Flange With Gauge.....	1,874.00	268.13
21 13 16 00-0014 EA Dry System Air Compressor, 1-1/2 HP With Alarm Valve Flange With Gauge.....	1,937.59	268.13
21 13 16 00-0015 EA Dry System Air Compressor, 2 HP With Alarm Valve Flange With Gauge.....	2,184.89	268.13
21 13 16 00-0016 Dry Pipe Sprinkler System Components (21 13 16)		
Note: Excludes hydraulic calculations.		
21 13 16 00-0017 Dry Pipe Valves (21 13 16 00-0016)		
Note: Excludes trim package See CSI section 21 13 16 00-0022 for Dry Pipe Valve Trim.		
21 13 16 00-0018 EA 2-1/2" Dry Pipe Valve.....	2,168.01	117.75
21 13 16 00-0019 EA 3" Dry Pipe Valve.....	2,416.26	134.88
21 13 16 00-0020 EA 4" Dry Pipe Valve.....	2,746.17	229.08
21 13 16 00-0021 EA 6" Dry Pipe Valve.....	3,481.56	289.03

21	21	Fire Suppression
	21 10	Water-Based Fire-Suppression Systems
	21 13	Fire-Suppression Sprinkler Systems



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
21 13 16 00-0022	Dry Pipe Valve Trim <small>(21 13 16 00-0016)</small> Note: Includes gauges, pressure switch, air supply and drain lines.		
21 13 16 00-0023	EA 2-1/2" Dry Pipe Valve Trim.....	1,154.85	249.21
21 13 16 00-0024	EA 3" Dry Pipe Valve Trim.....	1,154.85	249.21
21 13 16 00-0025	EA 4" Dry Pipe Valve Trim.....	1,363.00	341.70
21 13 16 00-0026	EA 6" Dry Pipe Valve Trim.....	1,585.66	475.30
21 13 16 00-0027	Recessed Pendent Dry Pipe Sprinkler Heads, Quick Response <small>(21 13 16 00-0016)</small>		
21 13 16 00-0028	EA 3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	158.65	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-10.75	
	For >100 To 500, Deduct	-21.24	
	For >500 To 1,000, Deduct	-38.14	
	For >1,000, Deduct	-49.42	
21 13 16 00-0029	EA 6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	164.54	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-11.05	
	For >100 To 500, Deduct	-21.98	
	For >500 To 1,000, Deduct	-39.20	
	For >1,000, Deduct	-50.48	
21 13 16 00-0030	EA 9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	170.44	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-11.34	
	For >100 To 500, Deduct	-22.71	
	For >500 To 1,000, Deduct	-40.27	
	For >1,000, Deduct	-51.54	
21 13 16 00-0031	EA 12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	176.35	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-11.64	
	For >100 To 500, Deduct	-23.45	
	For >500 To 1,000, Deduct	-41.33	
	For >1,000, Deduct	-52.61	
21 13 16 00-0032	EA 15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	182.24	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-11.93	
	For >100 To 500, Deduct	-24.19	
	For >500 To 1,000, Deduct	-42.39	
	For >1,000, Deduct	-53.67	
21 13 16 00-0033	EA 18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	188.13	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-12.23	
	For >100 To 500, Deduct	-24.93	
	For >500 To 1,000, Deduct	-43.45	
	For >1,000, Deduct	-54.73	
21 13 16 00-0034	EA 21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	194.02	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-12.52	
	For >100 To 500, Deduct	-25.66	
	For >500 To 1,000, Deduct	-44.51	
	For >1,000, Deduct	-55.79	
21 13 16 00-0035	EA 24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	199.93	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-12.82	
	For >100 To 500, Deduct	-26.40	
	For >500 To 1,000, Deduct	-45.57	
	For >1,000, Deduct	-56.85	
21 13 16 00-0036	EA 27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	205.82	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-13.11	
	For >100 To 500, Deduct	-27.14	
	For >500 To 1,000, Deduct	-46.63	
	For >1,000, Deduct	-57.91	
21 13 16 00-0037	EA 30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	211.72	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-13.41	
	For >100 To 500, Deduct	-27.87	
	For >500 To 1,000, Deduct	-47.70	
	For >1,000, Deduct	-58.97	
21 13 16 00-0038	EA 33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	217.62	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-13.70	
	For >100 To 500, Deduct	-28.61	
	For >500 To 1,000, Deduct	-48.76	
	For >1,000, Deduct	-60.04	
21 13 16 00-0039	EA 36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	223.51	18.61
	For >25 To 50, Deduct	-2.82	
	For >50 To 100, Deduct	-14.00	
	For >100 To 500, Deduct	-29.35	
	For >500 To 1,000, Deduct	-49.82	
	For >1,000, Deduct	-61.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0040 EA 39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	229.42	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-14.29	
For >100 To 500, Deduct	-30.09	
For >500 To 1,000, Deduct	-50.88	
For >1,000, Deduct	-62.16	
21 13 16 00-0041 EA 42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	235.30	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-14.58	
For >100 To 500, Deduct	-30.82	
For >500 To 1,000, Deduct	-51.94	
For >1,000, Deduct	-63.22	
21 13 16 00-0042 EA 45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Recessed Pendent Dry Pipe Sprinkler Head.....	241.21	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-14.88	
For >100 To 500, Deduct	-31.56	
For >500 To 1,000, Deduct	-53.00	
For >1,000, Deduct	-64.28	
21 13 16 00-0043 Sidewall Dry Pipe Sprinkler Heads, Quick Response <small>(21 13 16 00-0016)</small>		
21 13 16 00-0044 EA 3-1/2" To 5-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	157.24	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-10.68	
For >100 To 500, Deduct	-21.07	
For >500 To 1,000, Deduct	-37.89	
For >1,000, Deduct	-49.17	
21 13 16 00-0045 EA 6" To 8-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	163.15	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-10.98	
For >100 To 500, Deduct	-21.80	
For >500 To 1,000, Deduct	-38.96	
For >1,000, Deduct	-50.24	
21 13 16 00-0046 EA 9" To 11-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	169.05	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-11.27	
For >100 To 500, Deduct	-22.54	
For >500 To 1,000, Deduct	-40.02	
For >1,000, Deduct	-51.30	
21 13 16 00-0047 EA 12" To 14-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	174.93	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-11.57	
For >100 To 500, Deduct	-23.28	
For >500 To 1,000, Deduct	-41.08	
For >1,000, Deduct	-52.36	
21 13 16 00-0048 EA 15" To 17-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	180.83	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-11.86	
For >100 To 500, Deduct	-24.01	
For >500 To 1,000, Deduct	-42.14	
For >1,000, Deduct	-53.42	
21 13 16 00-0049 EA 18" To 20-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	186.72	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-12.16	
For >100 To 500, Deduct	-24.75	
For >500 To 1,000, Deduct	-43.20	
For >1,000, Deduct	-54.48	
21 13 16 00-0050 EA 21" To 23-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	192.64	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-12.45	
For >100 To 500, Deduct	-25.49	
For >500 To 1,000, Deduct	-44.26	
For >1,000, Deduct	-55.54	
21 13 16 00-0051 EA 24" To 26-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	198.53	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-12.75	
For >100 To 500, Deduct	-26.23	
For >500 To 1,000, Deduct	-45.32	
For >1,000, Deduct	-56.60	
21 13 16 00-0052 EA 27" To 29-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	204.41	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-13.04	
For >100 To 500, Deduct	-26.96	
For >500 To 1,000, Deduct	-46.38	
For >1,000, Deduct	-57.66	
21 13 16 00-0053 EA 30" To 32-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	210.31	18.61
For >25 To 50, Deduct	-2.82	
For >50 To 100, Deduct	-13.34	
For >100 To 500, Deduct	-27.70	
For >500 To 1,000, Deduct	-47.44	
For >1,000, Deduct	-58.72	

21 Fire Suppression**21 10 Water-Based Fire-Suppression Systems****21 13 Fire-Suppression Sprinkler Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 16 00-0054	EA		33" To 35-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	216.21	18.61
			<i>For >25 To 50, Deduct</i>	-2.82	
			<i>For >50 To 100, Deduct</i>	-13.63	
			<i>For >100 To 500, Deduct</i>	-28.44	
			<i>For >500 To 1,000, Deduct</i>	-48.51	
			<i>For >1,000, Deduct</i>	-59.79	
21 13 16 00-0055	EA		36" To 38-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	222.10	18.61
			<i>For >25 To 50, Deduct</i>	-2.82	
			<i>For >50 To 100, Deduct</i>	-13.93	
			<i>For >100 To 500, Deduct</i>	-29.17	
			<i>For >500 To 1,000, Deduct</i>	-49.57	
			<i>For >1,000, Deduct</i>	-60.85	
21 13 16 00-0056	EA		39" To 41-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	239.80	18.61
			<i>For >25 To 50, Deduct</i>	-2.82	
			<i>For >50 To 100, Deduct</i>	-14.81	
			<i>For >100 To 500, Deduct</i>	-31.39	
			<i>For >500 To 1,000, Deduct</i>	-52.75	
			<i>For >1,000, Deduct</i>	-64.03	
21 13 16 00-0057	EA		42" To 44-3/4" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	245.70	18.61
			<i>For >25 To 50, Deduct</i>	-2.82	
			<i>For >50 To 100, Deduct</i>	-15.11	
			<i>For >100 To 500, Deduct</i>	-32.12	
			<i>For >500 To 1,000, Deduct</i>	-53.81	
			<i>For >1,000, Deduct</i>	-65.09	
21 13 16 00-0058	EA		45" To 48" Length, 1/2" Orifice, 1" NPT Thread Chrome Sidewall Dry Pipe Sprinkler Head.....	248.05	18.61
			<i>For >25 To 50, Deduct</i>	-2.82	
			<i>For >50 To 100, Deduct</i>	-15.22	
			<i>For >100 To 500, Deduct</i>	-32.42	
			<i>For >500 To 1,000, Deduct</i>	-54.24	
			<i>For >1,000, Deduct</i>	-65.52	
21 13 16 00-0059			Pendent Dry Pipe Sprinkler Head, Early Suppression, Fast Response <small>(21 13 16 00-0016)</small>		
21 13 16 00-0060	EA		23" Length, 1-1/4" NPT Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	661.67	18.61
			<i>For >25 To 50, Deduct</i>	-3.05	
			<i>For >50 To 100, Deduct</i>	-36.14	
			<i>For >100 To 500, Deduct</i>	-84.24	
			<i>For >500 To 1,000, Deduct</i>	-129.49	
			<i>For >1,000, Deduct</i>	-141.70	
21 13 16 00-0061	EA		30" Length, 1-1/4" NPT Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	661.67	18.61
			<i>For >25 To 50, Deduct</i>	-3.05	
			<i>For >50 To 100, Deduct</i>	-36.14	
			<i>For >100 To 500, Deduct</i>	-84.24	
			<i>For >500 To 1,000, Deduct</i>	-129.49	
			<i>For >1,000, Deduct</i>	-141.70	
21 13 16 00-0062	EA		36" Length, 1-1/4" NPT Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	661.67	18.61
			<i>For >25 To 50, Deduct</i>	-3.05	
			<i>For >50 To 100, Deduct</i>	-36.14	
			<i>For >100 To 500, Deduct</i>	-84.24	
			<i>For >500 To 1,000, Deduct</i>	-129.49	
			<i>For >1,000, Deduct</i>	-141.70	
21 13 16 00-0063	EA		36" Length, 1-1/4" ISO Thread, K=16.8, Early Suppression, Fast Response, Brass Pendent Dry Pipe Sprinkler Head.....	661.67	18.61
			<i>For >25 To 50, Deduct</i>	-3.05	
			<i>For >50 To 100, Deduct</i>	-36.14	
			<i>For >100 To 500, Deduct</i>	-84.24	
			<i>For >500 To 1,000, Deduct</i>	-129.49	
			<i>For >1,000, Deduct</i>	-141.70	
21 13 19			Praction Sprinkler Systems <small>(21 13)</small>		
21 13 19 00-0001			Complete Praction Sprinkler Systems <small>(21 13 19)</small>		
			Note: Includes complete design per NFPA 13 and stamped shop drawings approved by a registered engineer. Includes all branch line piping (standard weight black steel, less than 2-1/2" diameter pipe, fittings, branch valves, hangers, sprinkler heads, etc. From riser pipe and mains. Excludes outside mains, inside vertical or horizontal pipe mains, greater than 2" diameter. The coverage of one sprinkler head varies from about 180 SF for light hazard occupancy, about 155 SF for ordinary, 90 to about 130 SF for extra hazard conditions. Excludes special alarm valves, gate valves, check valves, flow control devices, water motor gong assembly, Siamese connections, standpipes and fittings, pipe mains and fittings, fire pumps and tanks.		
21 13 19 00-0002			Ordinary Hazard, Praction Sprinkler Systems <small>(21 13 19 00-0001)</small>		
21 13 19 00-0003	EA		Exposed Piping, Ordinary Hazard, Praction Sprinkler System, Per Head.....	377.90	
			Note: Includes branch pipe and fittings, supports and sprinkler heads.		
			<i>For Up To 5, Add</i>	177.22	
			<i>For >5 To 10, Add</i>	114.67	
			<i>For >10 To 20, Add</i>	76.88	
			<i>For >20 To 40, Add</i>	31.93	
			<i>For >100 To 150, Deduct</i>	-37.79	
			<i>For >150, Deduct</i>	-75.58	
21 13 19 00-0004			Extra Hazard, Praction Sprinkler Systems <small>(21 13 19 00-0001)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 19 00-0005 EA Exposed Piping, Extra Hazard, Preaction Sprinkler System, Per Head Note: Includes branch pipe and fittings, supports and sprinkler heads. <i>For Up To 5, Add</i> <i>For >5 To 10, Add</i> <i>For >10 To 20, Add</i> <i>For >20 To 40, Add</i> <i>For >100 To 150, Deduct</i> <i>For >150, Deduct</i>	351.89 165.04 106.81 71.62 29.74 -35.19 -70.38	
21 13 26 Deluge Fire-Suppression Sprinkler Systems (21 13)		
21 13 26 00-0001 Deluge Fire-Suppression Sprinkler Systems Equipment (21 13 26)		
21 13 26 00-0002 Deluge Valves With Required Trim And Release Equipment (21 13 26 00-0001)		
21 13 26 00-0003 EA 3" Deluge Valve With Trim And Release Equipment.....	5,565.98	522.20
21 13 26 00-0004 EA 4" Deluge Valve With Trim And Release Equipment.....	6,380.46	587.42
21 13 26 00-0005 EA 6" Deluge Valve With Trim And Release Equipment.....	7,931.25	854.44
21 13 39 Foam-Water Systems (21 13)		
21 13 39 00-0001 Foam Control Valves And Monitors (21 13 39)		
21 13 39 00-0002 Control Valves (21 13 39 00-0001)		
21 13 39 00-0003 EA 3" Foam Control Valve.....	2,684.91	522.20
21 13 39 00-0004 Supply Valves (21 13 39 00-0001)		
21 13 39 00-0005 EA 2-1/2" Foam Supply Valve	2,450.88	587.42
21 13 39 00-0006 Proportioners (21 13 39 00-0001)		
21 13 39 00-0007 EA 8" Foam Proportioner.....	2,116.80	854.44
21 13 39 00-0008 Monitors (21 13 39 00-0001)		
21 13 39 00-0009 EA Oscillating Foam Monitor.....	2,678.49	117.49
21 13 41 Fire-Suppression Sprinkler Piping (21 13)		
See CSI section 23 21 13 23-0000 for black steel piping.		
21 13 41 00-0001 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe (21 13 41) Note: SDR 13.5		
21 13 41 00-0002 Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe (21 13 41 00-0001)		
21 13 41 00-0003 LF 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	4.98	1.50
21 13 41 00-0004 LF 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	5.91	1.60
21 13 41 00-0005 LF 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	7.36	1.78
21 13 41 00-0006 LF 1-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	8.96	1.97
21 13 41 00-0007 LF 2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	11.42	2.16
21 13 41 00-0008 LF 2-1/2" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	15.49	2.45
21 13 41 00-0009 LF 3" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Fire Sprinkler Pipe	21.50	2.92
21 13 41 00-0010 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0011 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	24.15	9.03
21 13 41 00-0012 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	31.74	11.28
21 13 41 00-0013 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	39.70	14.10
21 13 41 00-0014 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	45.27	15.61
21 13 41 00-0015 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	51.30	17.48
21 13 41 00-0016 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	64.40	19.83
21 13 41 00-0017 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow, Fire Sprinkler Piping	78.74	23.50
21 13 41 00-0018 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0019 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	24.71	9.03
21 13 41 00-0020 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	30.84	11.28
21 13 41 00-0021 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	39.02	14.10
21 13 41 00-0022 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	44.19	15.61
21 13 41 00-0023 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	49.95	17.48
21 13 41 00-0024 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	61.00	19.83
21 13 41 00-0025 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow, Fire Sprinkler Piping	75.01	23.50
21 13 41 00-0026 Chlorinated Polyvinyl Chloride (CPVC) Tees, Fire Sprinkler Piping (21 13 41 00-0001)		
21 13 41 00-0027 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping.....	35.99	13.53
21 13 41 00-0028 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping.....	46.72	17.02

21	Fire Suppression
21 10	Water-Based Fire-Suppression Systems
21 13	Fire-Suppression Sprinkler Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 13 41 00-0029 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	59.40	21.24
21 13 41 00-0030 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	68.05	23.50
21 13 41 00-0031 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping.....	79.34	26.13
21 13 41 00-0032 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping	97.07	29.79
21 13 41 00-0033 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee, Fire Sprinkler Piping.....	114.67	35.15
21 13 41 00-0034 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tees, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0035 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping.....	43.18	15.89
21 13 41 00-0036 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	56.06	19.83
21 13 41 00-0037 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	62.73	21.90
21 13 41 00-0038 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping.....	73.88	24.44
21 13 41 00-0039 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping	87.05	27.82
21 13 41 00-0040 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Tee, Fire Sprinkler Piping.....	102.46	32.80
21 13 41 00-0041 Chlorinated Polyvinyl Chloride (CPVC) Crosses, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0042 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	48.52	18.04
21 13 41 00-0043 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	60.82	22.65
21 13 41 00-0044 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	76.56	28.29
21 13 41 00-0045 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping.....	86.22	31.29
21 13 41 00-0046 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	100.45	34.87
21 13 41 00-0047 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross, Fire Sprinkler Piping	128.10	39.66
21 13 41 00-0048 Chlorinated Polyvinyl Chloride (CPVC) Couplings, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0049 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	16.56	6.02
21 13 41 00-0050 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	22.18	8.08
21 13 41 00-0051 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	29.39	10.63
21 13 41 00-0052 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	33.44	11.75
21 13 41 00-0053 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	38.30	13.06
21 13 41 00-0054 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	45.77	14.85
21 13 41 00-0055 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Coupling, Fire Sprinkler Piping.....	55.13	17.58
21 13 41 00-0056 Chlorinated Polyvinyl Chloride (CPVC) Caps, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0057 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	8.43	3.01
21 13 41 00-0058 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	13.42	4.89
21 13 41 00-0059 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	15.35	5.26
21 13 41 00-0060 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	17.55	5.83
21 13 41 00-0061 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	20.71	6.58
21 13 41 00-0062 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	24.90	7.43
21 13 41 00-0063 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap, Fire Sprinkler Piping	32.19	8.83
21 13 41 00-0064 Chlorinated Polyvinyl Chloride (CPVC) Reducer Bushing, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0065 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	23.46	8.93
21 13 41 00-0066 EA 1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	31.07	11.65
21 13 41 00-0067 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	34.34	12.88
21 13 41 00-0068 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	39.05	14.38
21 13 41 00-0069 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	46.24	16.35
21 13 41 00-0070 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Bushing, Fire Sprinkler Piping.....	56.33	19.36
21 13 41 00-0071 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0072 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping	20.49	6.58
21 13 41 00-0073 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Spigot Style Reducing Adapter, Male Slip X Female Pipe Thread, Fire Sprinkler Piping	26.47	8.93
21 13 41 00-0074 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0075 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	20.49	6.58
21 13 41 00-0076 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	26.47	8.93
21 13 41 00-0077 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping <small>(21 13 41 00-0001)</small>		
21 13 41 00-0078 EA 3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	23.99	8.08
21 13 41 00-0079 EA 1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	30.62	10.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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21 13 41 00-0080	EA	1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Reducing 90 Degree Elbow Adapter With 3/4" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	31.76	10.15
21 13 41 00-0081 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter, Female Slip x Female Pipe Thread, Fire Sprinkler Piping (21 13 41 00-0001)				
21 13 41 00-0082	EA	3/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	39.43	13.53
21 13 41 00-0083	EA	1" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	48.53	17.02
21 13 41 00-0084	EA	1-1/4" Schedule 40 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	63.08	21.24
21 13 41 00-0085	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	71.95	23.50
21 13 41 00-0086	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Straight Tee Adapter With 1/2" FPT, Female Slip x Female Pipe Thread, Fire Sprinkler Piping.....	84.08	26.13

21 20 Fire-Extinguishing Systems (21)

21 21 Carbon-Dioxide Fire-Extinguishing Systems (21 20)

21 21 16 Carbon-Dioxide Fire-Extinguishing Equipment (21 21)

21 21 16 00-0001 Carbon Dioxide Cylinders (21 21 16)

21 21 16 00-0002	EA	Carbon Dioxide Simplex Cylinder, 75 LB.....	1,421.10	195.26
21 21 16 00-0003	EA	Carbon Dioxide Duplex Cylinder, 75 LB (Each).....	2,842.19	390.53
21 21 16 00-0004	EA	Carbon Dioxide Cylinder, Heat/Ion Detector, With Bracket.....	210.25	83.95
21 21 16 00-0005	EA	Carbon Dioxide Cylinder, Dispersion Nozzle.....	101.94	35.67
21 21 16 00-0006	LF	Carbon Dioxide Cylinder, 1/2" Rubber Tubing.....	28.52	14.47

21 22 Clean-Agent Fire-Extinguishing Systems (21 20)

21 22 16 Clean-Agent Fire-Extinguishing Equipment (21 22)

21 22 16 00-0001 Ansul Fire Control Systems (21 22 16)

21 22 16 00-0002 Sapphire® Fire Suppression Systems (21 22 16 00-0001)

Note: ANSUL® SAPPHERE® fire suppression systems use 3M™ Novec™ 1230 fire protection fluid for total flooding applications.

21 22 16 00-0003 Cylinders, Sapphire® Fire Suppression Systems (21 22 16 00-0002)

21 22 16 00-0004	EA	20 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570635).....	1,454.12	66.57
Note: 10 to 21 LB tank capacity. Excludes Sapphire agent.				
21 22 16 00-0005	EA	40 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570636).....	1,660.07	66.57
Note: 20 to 46 LB tank capacity. Excludes Sapphire agent.				
21 22 16 00-0006	EA	80 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570637).....	1,687.15	66.57
Note: 41 to 80 LB tank capacity. Excludes Sapphire agent.				
21 22 16 00-0007	EA	140 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570638).....	2,396.15	88.76
Note: 58 to 138 LB tank capacity. Excludes Sapphire agent.				
21 22 16 00-0008	EA	280 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570639).....	2,532.29	88.76
Note: 116 to 280 LB tank capacity. Excludes Sapphire agent.				
21 22 16 00-0009	EA	390 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570640).....	2,703.15	110.95
Note: 161 to 388 LB tank capacity. Excludes Sapphire agent.				
21 22 16 00-0010	EA	450 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570641).....	2,869.15	110.95
Note: 194 to 459 LB tank capacity. Excludes Sapphire agent.				
21 22 16 00-0011	EA	850 LB, Empty Tank And Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570586).....	4,335.54	133.13
Note: 375 to 851 LB tank capacity. Excludes Sapphire agent.				
21 22 16 00-0012	LB	Sapphire Agent, Fire Protection Fluid, Factory Filled (Novec 1230).....	36.78	133.13
Note: Add to empty tank cost.				

21 22 16 00-0013 Nozzles, Sapphire® Fire Suppression Systems (21 22 16 00-0002)

21 22 16 00-0014	EA	1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570515).....	138.13	11.10
21 22 16 00-0015	EA	3/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570516).....	141.64	11.10
21 22 16 00-0016	EA	1" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570517).....	150.43	11.10
21 22 16 00-0017	EA	1-1/4" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570518).....	156.58	11.10
21 22 16 00-0018	EA	1-1/2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570519).....	165.36	11.10
21 22 16 00-0019	EA	2" Drilled Brass Nozzle, 180 Degree, Sapphire® Fire Suppression System (Ansul 570520).....	191.70	11.10
21 22 16 00-0020	EA	1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570602).....	138.13	11.10
21 22 16 00-0021	EA	3/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570603).....	141.64	11.10
21 22 16 00-0022	EA	1" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570604).....	150.43	11.10
21 22 16 00-0023	EA	1-1/4" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570605).....	156.58	11.10
21 22 16 00-0024	EA	1-1/2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570606).....	165.36	11.10
21 22 16 00-0025	EA	2" Drilled Brass Nozzle, 360 Degree, Sapphire® Fire Suppression System (Ansul 570607).....	191.70	11.10

21 22 16 00-0026 Actuation Attachments, Sapphire® Fire Suppression System (21 22 16 00-0002)

21 22 16 00-0027	EA	7/16-20 To 1/4" NPT, Male Actuation Elbow, Sapphire® Fire Suppression System (Ansul 31810).....	12.08	3.33
21 22 16 00-0028	EA	7/16-20 To 1/4" NPT, Male Actuation Tee, Sapphire® Fire Suppression System (Ansul 31811).....	13.59	3.33
21 22 16 00-0029	EA	1/4" NPT To 7/16-20, Male Actuation Connector, Sapphire® Fire Suppression System (Ansul 32338).....	18.00	7.77

21	21	Fire Suppression
	21 20	Fire-Extinguishing Systems
	21 22	Clean-Agent Fire-Extinguishing Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0030 EA 16" Actuation Hose, Sapphire® Fire Suppression System (Ansul 73597)	43.74	9.94
21 22 16 00-0031 EA 32" Actuation Hose, Sapphire® Fire Suppression System (Ansul 415142)	65.55	9.94
21 22 16 00-0032 EA 42" Actuation Hose, Sapphire® Fire Suppression System (Ansul 430815)	79.45	9.94
21 22 16 00-0033 EA 24", Stainless Steel, Swivel, Braided Actuation Hose, Sapphire® Fire Suppression System (Ansul 32336)	38.72	9.94
21 22 16 00-0034 EA Pneumatic Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537)	266.22	88.76
21 22 16 00-0035 EA Local Manual Actuator, Sapphire® Fire Suppression System (Ansul 570549)	259.60	66.57
21 22 16 00-0036 EA Electric Actuator Shipping Assembly, Sapphire® Fire Suppression System (Ansul 570537)	592.96	88.76
21 22 16 00-0037 Nameplates, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0038 EA Warning Plate For Use Outside Room, Sapphire® Fire Suppression Systems (Ansul 570580)	43.27	11.10
21 22 16 00-0039 EA Warning Plate For Use Inside Room, Sapphire® Fire Suppression Systems (Ansul 570581)	47.23	11.10
21 22 16 00-0040 Cylinder Bracketing, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0041 EA Tank Bracket Assembly For 20 LB, 40 LB, 50 LB, 80 LB And 90 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085).....	133.33	33.28
21 22 16 00-0042 EA Tank Bracket Assembly For 140 LB, 280 LB, 390 LB And 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570085).....	141.23	33.28
21 22 16 00-0043 EA Tank Bracket Assembly For 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570336)	151.33	33.28
21 22 16 00-0044 Check Valves, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0045 EA 1" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570566)	370.26	35.33
21 22 16 00-0046 EA 2" Manifold Check Valve, Sapphire® Fire Suppression Systems (Ansul 570568)	519.07	60.62
21 22 16 00-0047 Discharge Hose, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0048 EA 1" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570539)	113.77	22.19
21 22 16 00-0049 EA 2" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 570538)	437.00	22.19
21 22 16 00-0050 EA 3" Flexible Discharge Hose, Sapphire® Fire Suppression Systems (Ansul 69990)	367.60	22.19
21 22 16 00-0051 EA 3" Discharge Hose And Check Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 69841).....	1,607.42	88.76
21 22 16 00-0052 Swivel Adaptors, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0053 EA 1" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570557)	40.29	15.53
21 22 16 00-0054 EA 2" Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 570558)	73.13	15.53
21 22 16 00-0055 EA 3" Flare To 3" Grooved, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69471).....	206.64	11.10
21 22 16 00-0056 EA 3" Flare To 3" NPT, Single-Tank Swivel Adaptor, Sapphire® Fire Suppression Systems (Ansul 69470)	266.51	11.10
21 22 16 00-0057 Pressure Switches, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0058 EA Cylinder Low Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 570585).....	147.17	44.38
21 22 16 00-0059 EA Pressure Trip, Sapphire® Fire Suppression Systems (Ansul 5156).....	152.34	18.64
21 22 16 00-0060 EA Weather Proof, DPST Pressure Switch, Sapphire® Fire Suppression Systems (Ansul 46250).....	465.37	77.66
21 22 16 00-0061 Level Indicators, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0062 EA Liquid Level Indicator For 280 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570277)	556.30	15.53
21 22 16 00-0063 EA Liquid Level Indicator For 390 LB And 850 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570278)	582.66	15.53
21 22 16 00-0064 EA Liquid Level Indicator For 450 LB Tanks, Sapphire® Fire Suppression Systems (Ansul 570589)	623.19	22.19
21 22 16 00-0065 Inspection/Maintenance Devices, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0066 EA Master Tank Pilot Port Male Adaptor, Sapphire® Fire Suppression Systems (Ansul 570342)	40.67	13.31
21 22 16 00-0067 EA Cylinder Valve Pressure Gauge, Sapphire® Fire Suppression Systems (Ansul 570642)	51.18	15.53
21 22 16 00-0068 EA Recharge Top Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570579)	168.44	66.57
21 22 16 00-0069 EA 1" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570576)	198.56	66.57
21 22 16 00-0070 EA 2" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 570592).....	223.59	66.57
21 22 16 00-0071 EA 3" Recharge Fill Adaptor Assembly, Sapphire® Fire Suppression Systems (Ansul 69891).....	304.40	66.57
21 22 16 00-0072 Replacement Parts, Sapphire® Fire Suppression Systems (21 22 16 00-0002)		
21 22 16 00-0073 EA O-Ring Kit, Sapphire® Fire Suppression Systems (Ansul 570559).....	48.15	17.75
21 22 16 00-0074 EA Recoil Cap, Sapphire® Fire Suppression Systems (Ansul 570553).....	82.35	11.10
21 22 16 00-0075 EA Burst Disc Assembly, Sapphire® Fire Suppression Systems (Ansul 570053)	109.83	22.19
21 22 16 00-0076 EA Bonnet Assembly, Sapphire® Fire Suppression Systems (Ansul 570543).....	284.67	88.76
21 22 16 00-0077 EA Piston Assembly, Sapphire® Fire Suppression Systems (Ansul 570551).....	438.37	88.76
21 22 16 00-0078 EA 1" Valve Assembly, Sapphire® Fire Suppression Systems (Ansul 570535)	1,516.06	88.76
21 22 16 00-0079 Inergen® Fire Suppression System (21 22 16 00-0001)		
21 22 16 00-0080 Actuation Attachments, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0081 EA Flexible Discharge Bend For CV90 And CV98 (200 Bar), Inergen® Fire Suppression System (Ansul 427082).....	160.80	21.98
21 22 16 00-0082 EA Metron Protractor Replacement Cartridges, Inergen® Fire Suppression System (Ansul 423958).....	187.27	23.62
21 22 16 00-0083 EA Electric Actuator, Lever, CV98, Inergen® Fire Suppression System (Ansul 423309)	335.00	42.76
21 22 16 00-0084 EA Electric Actuator For CV90 Valve, Inergen® Fire Suppression System (Ansul 426876).....	671.74	97.38



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0085				Check Valves, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0086	EA			2" Bronze Check Valve, Weld Neck Flange, Inergen® Fire Suppression System (Ansul 840794).....	1,644.26	128.52
21 22 16 00-0087				Components, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0088	EA			1/2" Manifold Relief Valve, Inergen® Fire Suppression System (Ansul 418378).....	47.73	6.74
21 22 16 00-0089	EA			Pressure Operated Siren, Inergen® Fire Suppression System (Ansul 419700).....	562.53	72.21
21 22 16 00-0090	EA			30 Second Pneumatic Time Delay, Inergen® Fire Suppression System (Ansul 54169).....	1,750.95	225.95
21 22 16 00-0091	EA			60 Second Time Delay, Inergen® Fire Suppression System (Ansul 426170).....	1,666.32	230.19
21 22 16 00-0092				Cylinders, Inergen® Fire Suppression System (21 22 16 00-0079)		
Note: Includes CV98 valve. Factory filled with Inergen agent.						
21 22 16 00-0093	EA			200 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426147).....	1,457.02	206.80
21 22 16 00-0094	EA			250 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426148).....	1,652.84	234.29
21 22 16 00-0095	EA			350 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426620).....	2,370.47	303.61
21 22 16 00-0096	EA			435 CF Cylinder, Standard Paint, Inergen® Fire Suppression System (Ansul 426150).....	2,366.99	371.00
21 22 16 00-0097	EA			250 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426257).....	1,706.51	261.23
21 22 16 00-0098	EA			350 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426621).....	2,424.54	330.65
21 22 16 00-0099	EA			435 CF Cylinder, Corrosion Resistant Paint, Inergen® Fire Suppression System (Ansul 426259).....	2,492.87	398.67
21 22 16 00-0100				Inspection/Maintenance Devices, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0101	EA			CV90 Fill Adaptor To CV98 Valve, Conversion Adapter, Inergen® Fire Suppression System (Ansul 423657).....	55.03	7.52
21 22 16 00-0102	EA			CV98 To CV90 Conversion Adapter, Cylinder Test Gauge, Inergen® Fire Suppression System (Ansul 426181).....	55.03	7.52
21 22 16 00-0103	EA			CV90 Pressure Test Assembly Venting Kit, Inergen® Fire Suppression System (Ansul 426954).....	66.49	8.35
21 22 16 00-0104	EA			Pressure Test Gauge, Inergen® Fire Suppression System (Ansul 423923).....	1,048.58	143.49
21 22 16 00-0105				Multiple Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0106	EA			13" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418502).....	17.70	2.20
Note: For single row 435 cubic foot cylinders.						
21 22 16 00-0107	EA			27" Carriage Bolt With Nut, Multiple Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 418503).....	25.11	3.14
Note: For double row 435 cubic foot cylinders.						
21 22 16 00-0108				Nameplates, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0109	EA			Warning Plate, Nameplate, Inside Room With Alarm, Inergen® Fire Suppression System (Ansul 416265).....	19.51	2.45
21 22 16 00-0110	EA			Warning Plate, Nameplate, Outside Room Without Alarm, Inergen® Fire Suppression System (Ansul 416266).....	18.00	2.45
21 22 16 00-0111				Nozzle Deflector Shields, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0112	EA			1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417708).....	78.29	10.59
21 22 16 00-0113	EA			3/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417711).....	82.12	11.09
21 22 16 00-0114	EA			1" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417714).....	95.45	12.81
21 22 16 00-0115	EA			1-1/4" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417717).....	106.36	14.47
21 22 16 00-0116	EA			1-1/2" Nozzle Deflector Shield, Inergen® Fire Suppression System (Ansul 417720).....	122.00	16.63
21 22 16 00-0117				Nozzles, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0118	EA			1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417908).....	119.85	16.39
21 22 16 00-0119	EA			3/8" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417723).....	124.35	16.87
21 22 16 00-0120	EA			1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417362).....	114.71	15.62
21 22 16 00-0121	EA			3/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417363).....	117.33	16.87
21 22 16 00-0122	EA			1" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417364).....	136.38	18.56
21 22 16 00-0123	EA			1-1/4" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417365).....	145.81	19.77
21 22 16 00-0124	EA			1-1/2" NPT Nozzle, 360 Degree, Inergen® Fire Suppression System (Ansul 417366).....	156.96	21.21
21 22 16 00-0125	EA			2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426155).....	270.12	37.12
21 22 16 00-0126	EA			2-1/2" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426156).....	357.16	48.69
21 22 16 00-0127	EA			3" NPT Nozzle, Inergen® Fire Suppression System (Ansul 426137).....	389.31	53.51
21 22 16 00-0128	EA			1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426138).....	139.54	19.27
21 22 16 00-0129	EA			3/8" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426139).....	164.64	22.57
21 22 16 00-0130	EA			1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426140).....	135.49	18.56
21 22 16 00-0131	EA			3/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426141).....	144.75	19.67
21 22 16 00-0132	EA			1" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426142).....	146.01	19.77
21 22 16 00-0133	EA			1-1/4" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426143).....	176.26	24.00
21 22 16 00-0134	EA			1-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426157).....	189.94	26.03
21 22 16 00-0135	EA			2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426144).....	291.57	39.94
21 22 16 00-0136	EA			2-1/2" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426145).....	340.42	46.76
21 22 16 00-0137	EA			3" NPT Nozzle, 180 Degree Sidewall, Inergen® Fire Suppression System (Ansul 426146).....	373.02	51.10
21 22 16 00-0138				Pressure Reducers, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0139	EA			1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416677).....	156.96	21.21
21 22 16 00-0140	EA			3/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416678).....	192.53	26.42
21 22 16 00-0141	EA			1" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416679).....	207.08	28.44
21 22 16 00-0142	EA			1-1/4" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416680).....	291.57	39.94



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0143 EA 1-1/2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416681)	318.56	43.77
21 22 16 00-0144 EA 2" NPT, Orifice Union, Pressure Reducer, Inergen® Fire Suppression System (Ansul 416682)	374.28	51.10
21 22 16 00-0145 EA 2-1/2" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417057)	435.16	59.92
21 22 16 00-0146 EA 3" NPT, Orifice Nipple, Pressure Reducer, Inergen® Fire Suppression System (Ansul 417058)	514.44	70.87
21 22 16 00-0147 EA 2-1/2" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426823)	656.63	139.80
21 22 16 00-0148 EA 3" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426824)	847.18	163.91
21 22 16 00-0149 EA 4" NPT, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426825)	1,076.86	274.78
21 22 16 00-0150 EA 2-1/2" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426847)	639.93	139.80
21 22 16 00-0151 EA 3" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426848)	708.24	97.65
21 22 16 00-0152 EA 4" Slip-On, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426849)	1,076.86	274.78
21 22 16 00-0153 EA 2-1/2" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426853)	653.99	139.80
21 22 16 00-0154 EA 3" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426854)	736.10	101.48
21 22 16 00-0155 EA 4" Weld Neck, Orifice Flanged, Pressure Reducer, Inergen® Fire Suppression System (Ansul 426855)	1,055.78	274.78
21 22 16 00-0156 Pressure Switches, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0157 EA 3PST, Pressure Switch, Inergen® Fire Suppression System (Ansul 842344)	736.17	106.54
21 22 16 00-0158 Releasing Device Equipment, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0159 EA 12 Or 24 Volt DC, Assembly, Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 17728)	1,208.50	165.29
21 22 16 00-0160 EA 24 Volt DC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 31492)	1,722.62	220.25
21 22 16 00-0161 EA 120 Volt AC, Explosion Proof Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 32525)	1,827.76	224.04
21 22 16 00-0162 EA Cocking Lever For Automan II-C Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 26310)	85.36	11.39
21 22 16 00-0163 EA LT-30-R Nitrogen Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 5373)	101.80	15.09
21 22 16 00-0164 EA Remote Actuator Booster With N2 Cartridge, Releasing Device Equipment, Inergen® Fire Suppression System (Ansul 28939)	979.36	117.92
21 22 16 00-0165 Replacement Orifice Plates, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0166 EA 1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418095)	107.36	11.19
21 22 16 00-0167 EA 3/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418096)	112.51	11.79
21 22 16 00-0168 EA 1" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418097)	118.19	11.99
21 22 16 00-0169 EA 1-1/4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418098)	126.91	12.39
21 22 16 00-0170 EA 1-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418099)	131.96	13.59
21 22 16 00-0171 EA 2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 418100)	132.42	14.69
21 22 16 00-0172 EA 2-1/2" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426984)	289.40	39.37
21 22 16 00-0173 EA 3" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426985)	291.97	39.77
21 22 16 00-0174 EA 4" Replacement Orifice Plate, Inergen® Fire Suppression System (Ansul 426986)	374.28	50.97
21 22 16 00-0175 Single Cylinder Bracketing, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0176 EA Strap For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427704)	136.38	18.56
21 22 16 00-0177 EA Channel For 435 CF Cylinder, Single Cylinder Bracketing, Inergen® Fire Suppression System (Ansul 427705)	184.39	42.43
Note: Includes saddle, padding and fasteners.		
21 22 16 00-0178 Single Mating Flanges, Flanged Manifold Orifices, Inergen® Fire Suppression System (21 22 16 00-0079)		
21 22 16 00-0179 EA 2-1/2" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426856)	358.39	27.43
Note: Includes gasket and fasteners.		
21 22 16 00-0180 EA 3" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426857)	298.86	40.96
Note: Includes gasket and fasteners.		
21 22 16 00-0181 EA 4" Threaded, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426858)	590.31	274.78
Note: Includes gasket and fasteners.		
21 22 16 00-0182 EA 2-1/2" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426859)	187.39	25.62
Note: Includes gasket and fasteners.		
21 22 16 00-0183 EA 3" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426860)	219.97	29.89
Note: Includes gasket and fasteners.		
21 22 16 00-0184 EA 4" Slip-On, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426861)	585.87	274.78
Note: Includes gasket and fasteners.		
21 22 16 00-0185 EA 2-1/2" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426862)	195.06	26.83
Note: Includes gasket and fasteners.		
21 22 16 00-0186 EA 3" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426863)	228.56	31.27
Note: Includes gasket and fasteners.		
21 22 16 00-0187 EA 4" Weld Neck, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426864)	607.83	274.78
Note: Includes gasket and fasteners.		
21 22 16 00-0188 EA 2-1/2" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426828)	38.66	2.03
Note: Includes a stainless steel inner ring and a carbon steel outer ring.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0189 EA 3" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426829).....	39.07	2.24
Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0190 EA 4" Flange Gasket, Single Mating Flange, Flanged Manifold Orifices, Inergen® Fire Suppression System (Ansul 426830).....	42.04	2.66
Note: Includes a stainless steel inner ring and a carbon steel outer ring.		
21 22 16 00-0191 Upright And Feet, Cylinder Bracketing, Inergen® Fire Suppression System <small>(21 22 16 00-0079)</small>		
21 22 16 00-0192 EA Center Upright Foot, Inergen® Fire Suppression System (Ansul 418508).....	23.88	3.26
21 22 16 00-0193 EA Double Row, Back-To-Back Rows, Weigh Rail Support, Inergen® Fire Suppression System (Ansul 423027)	196.70	24.78
21 22 16 00-0194 EA 85" High, Cylinder Bracketing For 425 CF And LC100 Cylinders, Inergen® Fire Suppression System (Ansul 426592).....	145.78	24.78
Note: Includes upright, left, right and center.		
21 22 16 00-0195 Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0001)</small>		
21 22 16 00-0196 Accessory Switches, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0197 EA Abort, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76495)	153.84	21.39
21 22 16 00-0198 EA Abort, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76494).....	174.84	24.39
21 22 16 00-0199 EA Main/Reserve, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76497).....	222.40	30.98
21 22 16 00-0200 EA Main/Reserve, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76496)	239.54	33.38
21 22 16 00-0201 EA Maintenance, Flush Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76499)	299.91	41.97
21 22 16 00-0202 EA Maintenance, Surface Mount Switch, Autopulse® Fire Detection And Control Equipment (Ansul 76498).....	319.23	44.57
21 22 16 00-0203 EA Explosion Proof, Abort Switch, Autopulse® Fire Detection And Control Equipment (Ansul 65956).....	611.80	85.94
21 22 16 00-0204 EA Single Gang, Surface Mount Back Box For Accessory Switches, Autopulse® Fire Detection And Control Equipment (Ansul 76490)	49.34	6.40
21 22 16 00-0205 Alarm Devices, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0206 EA Selectable Candela Strobe, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429698)	133.27	18.58
21 22 16 00-0207 EA Sync Module, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429699)	195.41	27.18
21 22 16 00-0208 EA Back Box Extender Adapter, Alarm Devices, Autopulse® Fire Detection And Control Equipment (Ansul 429702).....	17.83	2.47
21 22 16 00-0209 Annunciators, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0210 EA 80 Character LCD, Annunciator, LCD-80, Autopulse® Fire Detection And Control Equipment (Ansul 417492).....	1,535.23	215.65
21 22 16 00-0211 EA 16 Zone Alarm/Trouble, Annunciator Control Module, ACM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417496)	1,287.00	180.67
21 22 16 00-0212 EA 16 Zone Alarm/Trouble, Annunciator Expander Module, AEM-16AT, Autopulse® Fire Detection And Control Equipment (Ansul 417497)	999.08	140.29
21 22 16 00-0213 EA 32 Zone, Alarm Annunciator Expander Module, AEM-32A, Autopulse® Fire Detection And Control Equipment (Ansul 417500)	870.15	122.12
21 22 16 00-0214 EA Annunciator Lamp Driver Control Module, LDM-32, Autopulse® Fire Detection And Control Equipment (Ansul 417501).....	870.15	122.12
21 22 16 00-0215 EA Annunciator Lamp Driver Expander Module, LDM-E32, Autopulse® Fire Detection And Control Equipment (Ansul 417502).....	697.07	97.73
21 22 16 00-0216 EA Annunciator Lamp Driver Relay Module, LDM-R32, Autopulse® Fire Detection And Control Equipment (Ansul 417650).....	1,287.00	180.67
21 22 16 00-0217 EA 24", Annunciator Lamp Driver Cable, LDM-CBL24, Autopulse® Fire Detection And Control Equipment (Ansul 417651).....	261.79	36.57
21 22 16 00-0218 EA 48", Annunciator Lamp Driver Cable, LDM-CBL48, Autopulse® Fire Detection And Control Equipment (Ansul 417652).....	328.19	45.97
21 22 16 00-0219 EA 8 Relay, Annunciator Control Module, ACM-8R, Autopulse® Fire Detection And Control Equipment (Ansul 417653).....	658.07	92.34
21 22 16 00-0220 EA Key Switch, AKS-1 Annunciator Accessory, Autopulse® Fire Detection And Control Equipment (Ansul 417660)	111.20	15.49
21 22 16 00-0221 EA Low Profile Annunciator Chassis, CHS-4L, Autopulse® Fire Detection And Control Equipment (Ansul 418576).....	151.19	21.39
Note: For up to 4 LDM modules.		
21 22 16 00-0222 EA Flush, Single Annunciator Back Box, ABF-1, Autopulse® Fire Detection And Control Equipment (Ansul 417657).....	261.81	36.57
21 22 16 00-0223 Autopulse IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0224 EA CHS-4 Chassis, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419586).....	203.29	29.78
21 22 16 00-0225 EA REL 47K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419639)	12.54	2.04
21 22 16 00-0226 EA REL 4.7K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 419640)	89.33	2.47
21 22 16 00-0227 EA REL 2.2K, In Line Supervisory Device, IQ-396X Cabinets/Accessories, Autopulse® Fire Detection And Control Equipment (Ansul 407765)	13.52	2.47
21 22 16 00-0228 Autopulse IQ-396X Modules, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0229 EA Indicating Circuit Expander, IQ-396X Modules, ICE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419564).....	451.84	66.75
21 22 16 00-0230 EA Control Relay Expander, IQ-396X Modules, CRE-4, Autopulse® Fire Detection And Control Equipment (Ansul 419566).....	270.89	39.77



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0231 Batteries And Power Supplies, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0232 EA 7 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417692).....	200.14	25.58
21 22 16 00-0233 EA 12 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417693).....	418.48	54.17
21 22 16 00-0234 EA 18 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417694).....	472.22	61.36
21 22 16 00-0235 EA 25 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417695).....	617.86	74.75
21 22 16 00-0236 EA 55 Ampere Hours, 24 Volt DC, Battery Pack, Autopulse® Fire Detection And Control Equipment (Ansul 417997).....	994.98	129.71
21 22 16 00-0237 EA BB-17, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 418578).....	148.72	20.58
21 22 16 00-0238 EA BB-25, Grey Cabinet, Autopulse® Fire Detection And Control Equipment (Ansul 428079).....	265.65	37.17
Note: Holds six XP5 modules or 25AH battery pack.		
21 22 16 00-0239 EA BB-55, Red Battery Box, Autopulse® Fire Detection And Control Equipment (Ansul 419410).....	540.26	75.75
Note: For mounting in BB-55 battery box.		
21 22 16 00-0240 EA Battery Charger, CHG-120, Autopulse® Fire Detection And Control Equipment (Ansul 426207).....	1,570.58	220.64
Note: For mounting in BB-55 battery box.		
21 22 16 00-0241 EA 120 Volt AC, FCPS-24F, Red Remote Power Supply, Autopulse® Fire Detection And Control Equipment (Ansul 418563).....	1,148.60	161.28
21 22 16 00-0242 Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0243 EA Monitor Module, Intelligent Addressable Devices, FMM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428097).....	121.01	17.08
21 22 16 00-0244 EA Mini Monitor Module, Intelligent Addressable Devices, FMM-101, Autopulse® Fire Detection And Control Equipment (Ansul 428098).....	112.91	16.99
21 22 16 00-0245 EA Isolator Module, Intelligent Addressable Devices, ISO-X, Autopulse® Fire Detection And Control Equipment (Ansul 417480).....	152.87	24.39
21 22 16 00-0246 EA 2-Wire Detector Monitor Module, Intelligent Addressable Devices, FZM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428100).....	227.53	31.78
21 22 16 00-0247 EA NAC Control Module, Intelligent Addressable Devices, FCM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428101).....	176.77	25.79
21 22 16 00-0248 EA Control Relay Module, Intelligent Addressable Devices, FRM-1, Autopulse® Fire Detection And Control Equipment (Ansul 428102).....	165.97	24.78
21 22 16 00-0249 EA Flangeless, Analog Addressable Detector Base, Intelligent Addressable Devices, B501, Autopulse® Fire Detection And Control Equipment (Ansul 417487).....	26.44	3.95
21 22 16 00-0250 EA Analog Addressable Detector Base With Isolator, Intelligent Addressable Devices, B224BI, Autopulse® Fire Detection And Control Equipment (Ansul 426125).....	97.63	13.99
21 22 16 00-0251 EA Harsh Detector, Analog Addressable Detector Base, Intelligent Addressable Devices, B710HD, Autopulse® Fire Detection And Control Equipment (Ansul 427066).....	97.70	13.59
21 22 16 00-0252 EA HPX-751 Detector Filter Cover, Intelligent Addressable Devices, FR-FTX, Autopulse® Fire Detection And Control Equipment (Ansul 427067).....	33.95	11.19
21 22 16 00-0253 EA Low Profile Trim Ring, Intelligent Addressable Devices, F110, Autopulse® Fire Detection And Control Equipment (Ansul 428138).....	9.00	1.24
Note: Converts BX501 to low profile base.		
21 22 16 00-0254 EA Relay Base, Intelligent Addressable Devices, B224RB, Autopulse® Fire Detection And Control Equipment (Ansul 423945).....	94.05	13.09
21 22 16 00-0255 EA EOL Power Supervision Relay, Intelligent Addressable Devices, Autopulse® Fire Detection And Control Equipment (Ansul 417699).....	55.08	7.72
21 22 16 00-0256 EA XP5 Modules Cabinet, Intelligent Addressable Devices, BB-XP, Autopulse® Fire Detection And Control Equipment (Ansul 428078).....	149.18	20.38
21 22 16 00-0257 EA BB-25 Chassis, Intelligent Addressable Devices, CHS-6, Autopulse® Fire Detection And Control Equipment (Ansul 428080).....	78.00	10.79
21 22 16 00-0258 Manual Pull Stations, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0259 EA Break Rod Package For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 428661).....	22.49	2.90
21 22 16 00-0260 EA Key Pull Station For Manual Pull Stations, Autopulse® Fire Detection And Control Equipment (Ansul 418336).....	13.96	1.60
21 22 16 00-0261 Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment <small>(21 22 16 00-0195)</small>		
21 22 16 00-0262 EA Transmitter Module, 4XTM, Autopulse® Fire Detection And Control Equipment (Ansul 417470).....	195.41	27.18
Note: Includes municipal box and remote station connection.		
21 22 16 00-0263 EA Relay/Transmitter Module With 8 Form C Relay Contacts, RTM-8, Autopulse® Fire Detection And Control Equipment (Ansul 417471).....	588.15	78.14
21 22 16 00-0264 EA Universal Digital Alarm COM/XMTR Module, UDACT, Autopulse® Fire Detection And Control Equipment (Ansul 419411).....	1,121.63	157.49
21 22 16 00-0265 EA Ferrite Core For Transmitter/Relay Modules, Autopulse® Fire Detection And Control Equipment (Ansul 419635).....	29.93	4.07
21 22 16 00-0266 Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0001)</small>		
21 22 16 00-0267 Batteries And Power Supplies, Vesda® Aspirating Smoke Detection System <small>(21 22 16 00-0266)</small>		
21 22 16 00-0268 EA Transformer Only, VSP-TRAN-120, Vesda® Aspirating Smoke Detection System (Ansul 430482).....	152.34	19.19
21 22 16 00-0269 EA Battery Cabinet, VBC-001, Vesda® Aspirating Smoke Detection System (Ansul 430379).....	371.64	28.92
21 22 16 00-0270 EA 120 Volt AC, Single Zone Power Supply With Housing, VPS-100US-120, Vesda® Aspirating Smoke Detection System (Ansul 430374).....	846.50	111.92
21 22 16 00-0271 EA 220 Volt AC, Single Zone Power Supply With Housing, VPS-100US-220, Vesda® Aspirating Smoke Detection System (Ansul 430375).....	846.50	111.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0272 EA 120 Volt AC, Multi Zone Power Supply, VPS-300US-120, Vesda® Aspirating Smoke Detection System (Ansul 430376).....	1,271.92	167.88
Note: Includes housing and battery cab.		
21 22 16 00-0273 EA 220 Volt AC, Multi Zone Power Supply, VPS-300US-220, Vesda® Aspirating Smoke Detection System (Ansul 430377).....	1,271.92	167.88
Note: Includes housing and battery cab.		
21 22 16 00-0274 EA 48 Volt DC, Multi Zone Power Supply With Housing, VPS-400US-48, Vesda® Aspirating Smoke Detection System (Ansul 430378).....	1,862.83	213.85
21 22 16 00-0275 Blank Plates, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0276 EA Blank Plate Without VESDA Logo, VSP-300, Vesda® Aspirating Smoke Detection System (Ansul 430459).....	27.30	3.60
21 22 16 00-0277 EA Blank Plate With VESDA Logo, VSP-000, Vesda® Aspirating Smoke Detection System (Ansul 430458).....	41.45	3.60
21 22 16 00-0278 EA Blank Plate, EMC Painted Without Logo, VSP-200, Vesda® Aspirating Smoke Detection System (Ansul 430484).....	59.92	6.79
21 22 16 00-0279 EA Single Blank Plate, VRE-001, Vesda® Aspirating Smoke Detection System (Ansul 430446).....	93.78	7.60
21 22 16 00-0280 EA Double Blank Plate, VRE-002, Vesda® Aspirating Smoke Detection System (Ansul 430447).....	117.06	15.19
21 22 16 00-0281 EA Blank Plate Without FOK LED's And Logo, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul 430480).....	218.22	19.19
21 22 16 00-0282 Detectors, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0283 EA LaserPLUS, Detector Only, Enclosure, VLP-000, Vesda® Aspirating Smoke Detection System (Ansul 430350).....	6,378.72	939.33
Note: Includes 3 blank plates.		
21 22 16 00-0284 EA LaserPLUS Detector, VLP-012, Vesda® Aspirating Smoke Detection System (Ansul 430354).....	8,144.51	1,159.17
Note: Includes centrally mounted LCD programmer module and standard display.		
21 22 16 00-0285 EA LaserPLUS Detector, VLP-010, Vesda® Aspirating Smoke Detection System (Ansul 430356).....	7,362.80	1,059.24
Note: Includes centrally mounted LCD programmer.		
21 22 16 00-0286 EA 7-Relay Version, LaserSCANNER Detector Only, VLS-200, Vesda® Aspirating Smoke Detection System (Ansul 430357).....	10,249.03	1,399.00
21 22 16 00-0287 EA 12-Relay Version, LaserSCANNER Detector Only, VLS-300, Vesda® Aspirating Smoke Detection System (Ansul 430358).....	10,789.58	1,478.95
21 22 16 00-0288 EA 7-Relay Version, LaserSCANNER Detector Only, VLS-600, Vesda® Aspirating Smoke Detection System (Ansul 430359).....	10,361.11	1,418.99
Note: Includes 1 fire alarm (any SCT) and OK/FOK LEDs.		
21 22 16 00-0289 EA 12-Relay Version, LaserSCANNER Detector Only, VLS-700, Vesda® Aspirating Smoke Detection System (Ansul 430360).....	10,942.56	1,498.93
Note: Includes 1 fire alarm (any SCT) and OK/FOK LED.		
21 22 16 00-0290 EA 7-Relay, LaserSCANNER Detector Only, VLS-204, Vesda® Aspirating Smoke Detection System (Ansul 430361).....	11,252.65	1,558.89
Note: Includes 2 blank plates and scan display module at far right.		
21 22 16 00-0291 EA 12-Relay, LaserSCANNER Detector, VLS-304, Vesda® Aspirating Smoke Detection System (Ansul 430363).....	11,739.06	1,638.83
Note: Includes 2 blank plates and scanner display.		
21 22 16 00-0292 EA 7-Relay, LaserSCANNER Detector, VLS-214, Vesda® Aspirating Smoke Detection System (Ansul 430365).....	12,339.36	1,718.77
Note: Includes centrally mounted programmer module.		
21 22 16 00-0293 EA 12-Relay, LaserSCANNER Detector, VLS-314, Vesda® Aspirating Smoke Detection System (Ansul 430367).....	12,865.29	1,798.71
Note: Includes centrally mounted LCD programmer module and scanner display module.		
21 22 16 00-0294 EA 12-Relay, LaserSCANNER Detector, VLS-310, Vesda® Aspirating Smoke Detection System (Ansul 430369).....	12,098.60	1,638.83
Note: Includes centrally mounted LCD programmer.		
21 22 16 00-0295 Displays, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0296 EA VRT-200 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430381).....	1,950.23	219.84
Note: Includes a remote termination card and 7 relays.		
21 22 16 00-0297 EA VRT-400 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430385).....	1,959.90	219.84
Note: Includes a remote termination card and 7 relays.		
21 22 16 00-0298 EA VRT-600 Display, Standard Version, Vesda® Aspirating Smoke Detection System (Ansul 430383).....	1,766.07	199.85
Note: Includes a remote termination card without relays.		
21 22 16 00-0299 EA VRT-700 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430387).....	1,777.31	199.85
Note: Includes a remote termination card.		
21 22 16 00-0300 EA VRT-800 Display, Scanner Version, Vesda® Aspirating Smoke Detection System (Ansul 430389).....	2,197.92	239.82
Note: Includes a remote termination card and 12 relays.		
21 22 16 00-0301 EA VRT-K00 Display, Compact Version Without Relays, Vesda® Aspirating Smoke Detection System (Ansul 430391).....	1,867.20	207.85
21 22 16 00-0302 EA VRT-J00 Display, Compact Version With 7 Relays, Vesda® Aspirating Smoke Detection System (Ansul 430393).....	2,043.06	233.44
21 22 16 00-0303 Intelligent Addressable Devices, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0304 EA LaserCOMPACT (VN), VESDAnet Version Plus Relay Output, VLC-505, Vesda® Aspirating Smoke Detection System (Ansul 430370).....	4,888.78	659.53
21 22 16 00-0305 EA LaserCOMPACT (RO), Relay Only Version, VLC-500, Vesda® Aspirating Smoke Detection System (Ansul 430372).....	4,028.52	527.63
21 22 16 00-0306 EA Programmer With Remote Termination Card, VRT-100, Vesda® Aspirating Smoke Detection System (Ansul 430380).....	1,422.43	199.85
21 22 16 00-0307 EA VESDAnet Socket, VRT-300, Vesda® Aspirating Smoke Detection System (Ansul 430395).....	1,026.02	129.90
21 22 16 00-0308 EA System Relay Module, VRT-S07, Vesda® Aspirating Smoke Detection System (Ansul 430399).....	1,430.36	175.07
21 22 16 00-0309 EA PC-Link High-Level Interface, VHX-0200, Vesda® Aspirating Smoke Detection System (Ansul 430442).....	1,733.91	215.85
Note: Interface connects PC and LaserPLUS system.		
21 22 16 00-0310 EA Modem Cable, PC-HLI To Modem Connection, VHX-00090, Vesda® Aspirating Smoke Detection System (Ansul 430443).....	269.89	32.38
21 22 16 00-0311 EA Hand-Held Programmer, VHH-1000, Vesda® Aspirating Smoke Detection System (Ansul 430444).....	1,807.16	199.85
21 22 16 00-0312 EA Programmer Module, VSP-001, Vesda® Aspirating Smoke Detection System (Ansul 430460).....	1,287.48	165.88
21 22 16 00-0313 EA VESDAnet Socket Kit, VSP-003, Vesda® Aspirating Smoke Detection System (Ansul 430463).....	1,011.50	127.91
21 22 16 00-0314 EA Standard Display Module, VSP-002, Vesda® Aspirating Smoke Detection System (Ansul 430461).....	1,289.59	165.88



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0315 EA Scanner Display Module, VSP-004, Vesda® Aspirating Smoke Detection System (Ansul 430464).....	1,287.48	165.88
21 22 16 00-0316 EA Remote Display Module, Compact (VN), VSP-502, Vesda® Aspirating Smoke Detection System (Ansul 430487).....	1,274.21	155.89
21 22 16 00-0317 EA Filter Cartridge, VSP-005, Vesda® Aspirating Smoke Detection System (Ansul 430466).....	151.98	13.99
21 22 16 00-0318 EA Detector Chassis Assembly, VSP-006, Vesda® Aspirating Smoke Detection System (Ansul 430467).....	6,154.51	767.45
21 22 16 00-0319 EA Scanner Chassis Assembly, VSP-009, Vesda® Aspirating Smoke Detection System (Ansul 430470).....	10,723.47	1,343.04
21 22 16 00-0320 EA Aspirator For LaserPLUS And Laser Scanner, VSP-015, Vesda® Aspirating Smoke Detection System (Ansul 430475).....	838.68	99.93
21 22 16 00-0321 EA Filter Cover, VSP-019, Vesda® Aspirating Smoke Detection System (Ansul 430477).....	19.12	2.00
21 22 16 00-0322 EA Cover Screws, 17606, Vesda® Aspirating Smoke Detection System (Ansul 430478).....	10.89	0.40
21 22 16 00-0323 EA US Power Supply Circuit Board Only, VSP-100, Vesda® Aspirating Smoke Detection System (Ansul 430481).....	461.62	57.96
21 22 16 00-0324 EA Relay Processor Module (DRP), VSP-102, Vesda® Aspirating Smoke Detection System (Ansul 430483).....	559.24	70.35
21 22 16 00-0325 EA Aspirator, LaserCOMPACT, VSP-501, Vesda® Aspirating Smoke Detection System (Ansul 430486).....	807.24	101.92
21 22 16 00-0326 EA RO-Cable For LaserCOMPACT Relay Only, (RO) Version, VSP-509, Vesda® Aspirating Smoke Detection System (Ansul 430488).....	118.91	15.19
21 22 16 00-0327 EA Miniature Sampling Point, E700-SP, Vesda® Aspirating Smoke Detection System (Ansul 430502).....	18.46	3.20
21 22 16 00-0328 Labels And Decals, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0329 EA Sampling Point Labels, Roll Of 35, E700-SP-DCL-PIPE, Vesda® Aspirating Smoke Detection System (Ansul 430509).....	16.84	2.39
21 22 16 00-0330 EA Round Point Label, Roll Of 50, E700-SP-DCL-PNT, Vesda® Aspirating Smoke Detection System (Ansul 430505).....	17.64	2.80
21 22 16 00-0331 EA Red, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLR, Vesda® Aspirating Smoke Detection System (Ansul 430506).....	27.30	3.60
21 22 16 00-0332 EA Grey, Round, Miniature Sampling Point Label, Sheet Of 12, E700-SPLG, Vesda® Aspirating Smoke Detection System (Ansul 430507).....	27.34	3.60
21 22 16 00-0333 EA Sampling Point Decal, Wrap-Around Style, Roll Of 200, E700-SP-DCL, Vesda® Aspirating Smoke Detection System (Ansul 430508).....	99.04	13.59
21 22 16 00-0334 Mounting Hardware, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0335 EA Remote Mounting Single Box With Escutcheon Only, VKT-000, Vesda® Aspirating Smoke Detection System (Ansul 430456).....	245.22	28.78
21 22 16 00-0336 EA Recessed Mounting Kit For Remote Single Boxes, VSP-012, Vesda® Aspirating Smoke Detection System (Ansul 430472).....	330.45	38.37
21 22 16 00-0337 EA Recessed Mounting Kit For VLP Or VLS Detector, VSP-011, Vesda® Aspirating Smoke Detection System (Ansul 430471).....	337.71	41.97
21 22 16 00-0338 EA Remote 19 Sub Rack With 4 Blank Plates, VSR-0000, Vesda® Aspirating Smoke Detection System (Ansul 430457).....	827.08	59.96
21 22 16 00-0339 EA Sub Rack Enclosure, VRE-100, Vesda® Aspirating Smoke Detection System (Ansul 430445).....	1,211.45	131.90
21 22 16 00-0340 Pipe And Fittings, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0341 LF 3/4", Orange Chlorinated Polyvinyl Chloride (CPVC) Pipe, Vesda® Aspirating Smoke Detection System (Ansul 430491).....	5.06	1.50
21 22 16 00-0342 EA 3/4", End Cap, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430497).....	8.60	3.01
21 22 16 00-0343 EA 3/4", 45 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430494).....	23.63	9.03
21 22 16 00-0344 EA 3/4", 90 Degree Elbow, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430493).....	24.42	9.03
21 22 16 00-0345 EA 3/4", Coupling, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430495).....	16.85	6.02
21 22 16 00-0346 EA 3/4", Union, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430496).....	27.18	9.03
21 22 16 00-0347 EA 3/4", Tee, Chlorinated Polyvinyl Chloride (CPVC) Socket Weld, Vesda® Aspirating Smoke Detection System (Ansul 430498).....	36.32	13.53
21 22 16 00-0348 EA 3/4" x 1/2" FPT, Tee, Chlorinated Polyvinyl Chloride (CPVC), Vesda® Aspirating Smoke Detection System (Ansul 430499).....	45.48	15.89
21 22 16 00-0349 LF 1/2" OD x 3/8" ID, Black Polyethylene Tubing, Vesda® Aspirating Smoke Detection System (Ansul 430500).....	4.31	1.45
21 22 16 00-0350 EA Pipe Adapters, Metric-To-Imperial, VSP-021, Vesda® Aspirating Smoke Detection System (Ansul 430479).....	17.42	4.40
21 22 16 00-0351 EA Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Plastic, E700-CAP KIT, Vesda® Aspirating Smoke Detection System (Ansul 430503).....	21.55	3.20
21 22 16 00-0352 EA Capillary Kit, 1 Male 1/2" TH x 1/2" OD, 1 Female 1/2" OD, Brass, Vesda® Aspirating Smoke Detection System (Ansul 430504).....	30.92	4.40
21 22 16 00-0353 Remote Termination And Relay Cards, Vesda® Aspirating Smoke Detection System (21 22 16 00-0266)		
21 22 16 00-0354 EA VRT-500, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430396).....	1,417.33	153.49
Note: Remote box includes 7 relays for VLP/VLC.		
21 22 16 00-0355 EA VN, Compact Termination Card, VSP-515, Vesda® Aspirating Smoke Detection System (Ansul 430490).....	1,442.18	176.67
21 22 16 00-0356 EA 12-Relay, Remote Termination Card, VSP-208, Vesda® Aspirating Smoke Detection System (Ansul 430485).....	872.81	107.92
21 22 16 00-0357 EA RO, Compact Termination Card, VSP-510, Vesda® Aspirating Smoke Detection System (Ansul 430489).....	997.48	121.91
21 22 16 00-0358 EA VRT-501, Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430397).....	1,417.33	153.49
Note: Remote box includes 7 relays for VLS.		
21 22 16 00-0359 EA VRT-900 Remote Termination And Relay Proc Card With Blank Plates, Vesda® Aspirating Smoke Detection System (Ansul 430398).....	1,711.41	176.67
Note: Remote box includes 12 relays for VLS.		
21 22 16 00-0360 EA Remote Termination Card Without Relay, VSP-007, Vesda® Aspirating Smoke Detection System (Ansul 430468).....	484.94	54.36
21 22 16 00-0361 EA Remote Termination Card (RTC7), VSP-008, Vesda® Aspirating Smoke Detection System (Ansul 430469).....	729.22	83.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 22 16 00-0362 EA 7-Relay, Head Termination Card, VSP-014, Vesda® Aspiring Smoke Detection System (Ansul 430474).....	1,371.50	171.88
21 22 16 00-0363 EA 12-Relay, Head Termination Card, VSP-016, Vesda® Aspiring Smoke Detection System (Ansul 430476).....	2,012.05	251.82
21 22 16 00-0364 Preferred® Low Pressure CO2 System (21 22 16 00-0001)		
21 22 16 00-0365 Manual Pull Stations, Preferred® Low Pressure CO2 System (21 22 16 00-0364)		
21 22 16 00-0366 EA Addressable, DPST, Dual Action Pull Station, Preferred® Low Pressure CO2 System (Ansul 428658).....	108.56	13.99
Note: Excludes FMM-101.		
21 22 16 00-0367 EA Weatherproof Backbox For Manual Pull Stations, Preferred® Low Pressure CO2 System (Ansul 428659).....	81.23	10.39
21 22 16 00-0368 Industrial Fire Control System (21 22 16 00-0001)		
21 22 16 00-0369 Alarm Devices, Industrial Fire Control System (21 22 16 00-0368)		
21 22 16 00-0370 EA Explosion Proof Alarm Horn, Alarm Devices, Industrial Fire Control System (Ansul 65947).....	2,624.05	368.74
21 22 16 00-0371 EA 6", 115 Volt AC Alarm Bell For Release Systems, Alarm Devices, Industrial Fire Control System (Ansul 24751).....	80.62	8.47
21 22 16 00-0372 EA 24 Volt AC, Multitone Horn, Alarm Devices, Industrial Fire Control System (Ansul 429697).....	79.29	11.00
21 22 16 00-0373 EA Weatherproof Surface Back Box For Horn And Strobe, Alarm Devices, Industrial Fire Control System (Ansul 429700).....	47.22	6.60
21 22 16 00-0374 EA Semi-Flush Plate, Alarm Devices, Industrial Fire Control System (Ansul 429701).....	19.29	2.68
21 22 16 00-0375 Manual Pull Stations, Industrial Fire Control System (21 22 16 00-0368)		
21 22 16 00-0376 EA SPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428655).....	89.71	11.59
21 22 16 00-0377 EA DPST, Dual Action Pull Station, Industrial Fire Control System (Ansul 428656).....	126.48	16.39
21 22 16 00-0378 EA Explosion Proof, DPDT, Dual Action Pull Station, Industrial Fire Control System (Ansul 428657).....	987.37	128.71
21 22 16 00-0379 EA Surface Mounted Backbox For Manual Pull Stations, Industrial Fire Control System (Ansul 428660).....	28.71	3.72
21 22 16 00-0380 EA Extra Pull Station Labels For Manual Pull Stations, Industrial Fire Control System (Ansul 428654).....	12.87	1.66
21 22 16 00-0381 Marine Fire Control System (21 22 16 00-0001)		
21 22 16 00-0382 Alarm Devices, Marine Fire Control System (21 22 16 00-0381)		
21 22 16 00-0383 EA Weatherproof Surface Mount Back Box For Alarm Accessories, Alarm Devices, Marine Fire Control System (Ansul 24747).....	52.04	6.71
21 22 16 00-0384 EA 6", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417805).....	95.80	12.99
21 22 16 00-0385 EA 10", 24 Volt DC, Alarm Bell, Alarm Devices, Marine Fire Control System (Ansul 417806).....	95.80	12.99
21 22 16 00-0386 FM200 System Equipment (21 22 16)		
21 22 16 00-0387 EA 26 LB Cylinder, Filled, For FM200 Fire Protection system.....	2,136.49	96.41
21 22 16 00-0388 EA 44 LB Cylinder, Filled, For FM200 Fire Protection system.....	3,047.91	110.39
21 22 16 00-0389 EA 63 LB Cylinder, Filled, For FM200 Fire Protection system.....	3,617.53	130.16
21 22 16 00-0390 EA 101 LB Cylinder, Filled, For FM200 Fire Protection system.....	4,784.82	154.26
21 22 16 00-0391 EA 196 LB Cylinder, Filled, For FM200 Fire Protection system.....	7,453.52	192.83
21 22 16 00-0392 EA Electro/Mechanical Release, For FM200 Fire Protection system.....	562.36	192.83
21 22 16 00-0393 EA Manual Pull Station, For FM200 Fire Protection system.....	194.47	64.12
21 22 16 00-0394 EA Pneumatic Damper Release, For FM200 Fire Protection system.....	221.57	48.21
21 22 16 00-0395 LB FM200 Gas.....	17.05	
21 22 16 00-0396 EA Master Cylinder, For FM200 Fire Protection system.....	3,430.23	51.87
21 22 16 00-0397 EA Shuttle Check Valve, For FM200 Fire Protection system.....	527.27	72.51
21 22 16 00-0398 EA Flex Head Cylinder, For FM200 Fire Protection system.....	528.40	77.71
21 22 16 00-0399 EA Nozzles, For FM200 Fire Protection system.....	135.96	27.48
21 22 16 00-0400 EA Cylinder Support, For FM200 Fire Protection system.....	169.75	51.87
21 22 16 00-0401 EA Solenoid Valve, For FM200 Fire Protection system.....	672.36	77.71
21 22 16 00-0402 EA Battery Back-Up, For FM200 Fire Protection system.....	584.57	204.97
21 22 16 00-0403 EA Control Panel, Single Zone, For FM200 Fire Protection system.....	2,684.30	385.08
21 22 16 00-0404 EA Control Panel, Multi Zone, For FM200 Fire Protection system.....	4,428.19	771.03
21 22 16 00-0405 EA Smoke Or Heat Detector, For FM200 Fire Protection system.....	240.68	77.71
21 22 16 00-0406 EA Annunciator, For FM200 Fire Protection system.....	2,163.18	291.85
21 22 16 00-0407 EA Pressure Switch, For FM200 Fire Protection system.....	257.66	77.71
21 22 16 00-0408 EA Alarm Horn, For FM200 Fire Protection system.....	239.04	77.71
21 22 16 00-0409 EA Testing, For FM200 Fire Protection system.....	1,017.45	
21 22 16 00-0410 EA Abort Switch, For FM200 Fire Protection system.....	155.85	36.16
21 23 Wet-Chemical Fire-Extinguishing Systems (21 20)		
21 23 16 Wet-Chemical Fire-Extinguishing Equipment (21 23)		
21 23 16 00-0001 Kidde Fire Systems (21 23 16)		
Note: Kidde or equal.		
21 23 16 00-0002 Cylinders And Hardware (21 23 16 00-0001)		
21 23 16 00-0003 EA 125 Cylinder And Valve Assembly With 1.25 Gallon Of Wet Agent.....	694.98	79.88
21 23 16 00-0004 EA 260 Cylinder And Valve Assembly With 2.6 Gallon Of Wet Agent.....	800.63	99.50
21 23 16 00-0005 EA 400S And M Cylinder And Valve Assembly With 4 Gallon Of Wet Agent.....	981.32	122.75
21 23 16 00-0006 EA 600 And L Cylinder And Valve Assembly With 6 Gallon Of Wet Agent.....	1,158.98	145.65
21 23 16 00-0007 EA Discharge Adapter Kit (One Required Per Cylinder).....	38.87	4.18
21 23 16 00-0008 EA System Valve Actuator.....	140.08	16.60
21 23 16 00-0009 EA Vent Plug.....	26.34	3.37

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 23 Wet-Chemical Fire-Extinguishing Systems**

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0010 EA Gauge Shield	59.35	8.87
21 23 16 00-0011 EA 125 Cylinder Wall Mounting Bracket	72.28	8.87
21 23 16 00-0012 EA 260 Cylinder Wall Mounting Bracket	76.61	9.41
21 23 16 00-0013 EA 400S And M Cylinder Wall Mounting Bracket	145.60	17.75
21 23 16 00-0014 EA 600 And 400M Cylinder Shelf Bracket	143.84	20.14
21 23 16 00-0015 EA 600 And 400M Cylinder Floor Mounting Kit	172.32	20.19
21 23 16 00-0016 EA 125 And 260 Cylinder Replacement Bracket Strap	24.32	
21 23 16 00-0017 EA 400 And 600 Cylinder Replacement Bracket Strap	25.51	
21 23 16 00-0018 Nozzles And Accessories (21 23 16 00-0001)		
21 23 16 00-0019 EA ADP, F, GRW Or R Nozzle	64.86	8.17
21 23 16 00-0020 EA LPF Or DM Nozzle	70.31	8.17
21 23 16 00-0021 EA LPR Nozzle	81.54	8.17
21 23 16 00-0022 EA 3/8" Swivel Adapter For Nozzles	48.57	5.77
21 23 16 00-0023 EA Removal And Replacement Of Nozzle Seals	7.66	
21 23 16 00-0024 EA Chrome Nozzle Disc Cap	4.72	0.53
21 23 16 00-0025 EA LPR Nozzle Disc Cap	25.75	8.12
21 23 16 00-0026 Control Systems (21 23 16 00-0001)		
21 23 16 00-0027 EA XV Control System	713.88	53.25
Note: Includes (1) SVA, (1) system cartridge, (1) test cartridge, (1) EMT connector kit, (1) SPDT microswitch kit, and (1) SPDT microswitch kit.		
21 23 16 00-0028 EA 7-1/2" High Pressure Hose (Required for cylinder mounted XV Control System)	62.92	8.87
21 23 16 00-0029 EA 24" High Pressure Hose	73.61	8.87
21 23 16 00-0030 EA 60" High Pressure Hose	97.39	8.87
21 23 16 00-0031 EA XV Solenoid Kit (Electric Actuator), 24 Volt DC	143.67	17.75
21 23 16 00-0032 EA XV Microswitch Kit, SPDT	48.77	8.34
21 23 16 00-0033 EA XV Microswitch Kit, SPDT, Terminal Type, For Alarm/Release	52.34	8.34
21 23 16 00-0034 EA EMT Connector Kit (EMT Connector And O-Ring)	22.82	6.66
21 23 16 00-0035 EA KRS-50 Control Box Assembly	403.98	34.39
Note: Includes (1) SVA, (2) CO2 cartridges, (2) set screws, (1) grommet, (1) cover label, and (1) exhaust fan caution label.		
21 23 16 00-0036 EA SPDT Microswitch For KRS-50	67.90	8.34
21 23 16 00-0037 EA DPDT Microswitch For KRS-50	122.70	14.47
21 23 16 00-0038 EA SPDT Pressure Switch (Fire Department Tie-In)	377.26	46.42
21 23 16 00-0039 Mechanical Actuation Components (21 23 16 00-0001)		
21 23 16 00-0040 EA Universal Detector Link Housing Kit, Mechanical Actuation Systems	45.15	13.31
Note: Includes (1) bracket (11-3/4"), (2) "S" hook, and (2) cable crimp sleeves.		
21 23 16 00-0041 EA XV Low Profile Link Detector Housing Kit	57.52	13.31
Note: Includes (1) bracket, (2) 1/2" EMT connectors, (4) cable crimp sleeves, and (1) S hook.		
21 23 16 00-0042 EA XV Or KRS-50 Remote Manual Release, Combination Pull-To-Trip/Release-To-Trip	141.36	8.87
21 23 16 00-0043 EA XV Remote Manual Release, Pull-To-Trip	109.27	8.87
21 23 16 00-0044 EA Corner Pulley, Mechanical Actuation Systems	18.96	2.39
21 23 16 00-0045 EA Double Tee Pulley, Mechanical Actuation Systems	257.05	14.65
21 23 16 00-0046 EA In-Line Tee Pulley, Mechanical Actuation Systems	31.73	3.90
21 23 16 00-0047 EA Corner Pulley / Quik-Seal Adapter Combination	57.60	4.44
21 23 16 00-0048 LF 1/16" Cable, Mechanical Actuation Systems	2.11	0.89
21 23 16 00-0049 EA Cable Clamp	8.02	0.44
21 23 16 00-0050 EA Cable Crimp Sleeve, Mechanical Actuation Systems	1.31	0.35
21 23 16 00-0051 EA "S" Hook, Mechanical Actuation Systems	1.26	0.35
21 23 16 00-0052 EA 1/2" EMT x 3/8" NPT Adapter, Mechanical Actuation Systems	67.70	8.25
21 23 16 00-0053 Mechanical Detection Links (21 23 16 00-0001)		
21 23 16 00-0054 EA KGS Standard Response Link	15.19	4.44
21 23 16 00-0055 EA KGS Rapid Response Link	21.51	4.44
21 23 16 00-0056 EA KFA Type "A" Fusible Link	18.68	4.44
21 23 16 00-0057 EA KML Type "ML" Fusible Link	17.19	4.44
21 23 16 00-0058 EA 500 Degree, KML Type "ML" Fusible Link	24.32	4.44
21 23 16 00-0059 Gas Valves (21 23 16 00-0001)		
21 23 16 00-0060 EA 3/4" NPT Mechanical Cable Operated Gas Shut-off Valve	301.01	19.17
21 23 16 00-0061 EA 1" NPT Mechanical Cable Operated Gas Shut-off Valve	328.46	23.61
21 23 16 00-0062 EA 1-1/4" NPT Mechanical Cable Operated Gas Shut-off Valve	377.99	29.82
21 23 16 00-0063 EA 1-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve	415.24	34.35
21 23 16 00-0064 EA 2" NPT Mechanical Cable Operated Gas Shut-off Valve	449.52	40.56
21 23 16 00-0065 EA 2-1/2" NPT Mechanical Cable Operated Gas Shut-off Valve	743.10	59.29
21 23 16 00-0066 EA 3" NPT Mechanical Cable Operated Gas Shut-off Valve	830.49	68.61
21 23 16 00-0067 EA Pneumatic Release (Single Unit)	341.88	21.65
21 23 16 00-0068 EA Removal And Replacement Of Cable Block And Set Screw Assembly For Gas Valve	39.46	
21 23 16 00-0069 EA 1/2" Electric Solenoid Gas Shut-off Valve	313.60	17.84
21 23 16 00-0070 EA 3/4" Electric Solenoid Gas Shut-off Valve	316.27	19.17
21 23 16 00-0071 EA 1" Electric Solenoid Gas Shut-off Valve	486.51	23.61
21 23 16 00-0072 EA 1-1/4" Electric Solenoid Gas Shut-off Valve	516.42	29.82
21 23 16 00-0073 EA 1-1/2" Electric Solenoid Gas Shut-off Valve	592.91	34.35
21 23 16 00-0074 EA 2" Electric Solenoid Gas Shut-off Valve	761.26	40.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0075 EA 2-1/2" Electric Solenoid Gas Shut-off Valve.....	1,256.49	59.29
21 23 16 00-0076 EA 3" Electric Solenoid Gas Shut-off Valve.....	1,577.14	68.61
21 23 16 00-0077 EA Manual Reset Relay.....	445.48	89.20
21 23 16 00-0078 Liquid Tight Sealing Adapters (21 23 16 00-0001)		
21 23 16 00-0079 EA 3/8" Tubing, Compression Seal Adapter.....	34.70	3.73
21 23 16 00-0080 EA 1/2" Tubing, 1/4" Pipe, Compression Seal Adapter.....	34.27	4.08
21 23 16 00-0081 EA 5/8" Tubing, 3/8" Pipe, Compression Seal Adapter.....	40.26	4.88
21 23 16 00-0082 EA 3/4" Tubing, 1/2" Pipe, Compression Seal Adapter.....	46.37	5.23
21 23 16 00-0083 EA 1/2" Electrical Metallic Tubing (EMT), Compression Seal Adapter.....	40.26	4.88
21 23 16 00-0084 EA 3/8" NPT Female, Quik-Seal Adapter.....	34.27	4.08
21 23 16 00-0085 EA 1/2" NPT Female, Quik-Seal Adapter.....	34.27	4.08
21 23 16 00-0086 EA 3/4" NPT Female, Quik-Seal Adapter.....	56.32	6.92
21 23 16 00-0087 EA 1" NPT Female, Quik-Seal Adapter.....	74.98	9.15
21 23 16 00-0088 EA Quik-Patch For Hole Patching Up To 1-1/8" Diameter.....	34.27	
21 23 16 00-0089 Pressure Operated Releasing Systems (21 23 16 00-0001)		
21 23 16 00-0090 EA KRS-100 Nitrogen Cylinder.....	248.69	26.80
21 23 16 00-0091 EA KRS-100 Actuator Assembly.....	223.60	27.34
21 23 16 00-0092 EA KRS-100 Mounting Bracket.....	172.55	6.74
21 23 16 00-0093 EA KRS-700S Nitrogen Cylinder.....	641.80	77.31
21 23 16 00-0094 EA KRS-700 Mounting Bracket.....	136.63	16.51
21 23 16 00-0095 EA KRS-700S Discharge Adapter Kit.....	205.15	16.51
21 23 16 00-0096 EA Check Valve, Pressure Operated Releasing Systems.....	202.16	11.71
21 23 16 00-0097 EA Vent Check, Pressure Operated Releasing Systems.....	62.95	7.46
21 23 16 00-0098 EA Removal And Replacement Of Receiver Gasket For KRS-100 Actuator Assembly.....	8.27	
21 23 16 00-0099 EA 3 Pole, Double Throw Pressure Switch.....	514.48	62.13
21 23 16 00-0100 Pyro-Chem Kitchen Fire Suppression Systems (21 23 16)		
21 23 16 00-0101 Cylinders, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0102 EA 3.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551194).....	556.45	63.01
21 23 16 00-0103 EA 4.6 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551193).....	801.55	90.79
21 23 16 00-0104 EA 6.0 Gallon Agent Cylinder With Valve, Kitchen Fire Suppression Systems (Pyro-Chem 551196).....	1,055.17	124.17
21 23 16 00-0105 EA Cylinder Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550053).....	115.00	14.82
21 23 16 00-0106 EA Enclosure With Mechanical Control Unit, Kitchen Fire Suppression Systems (Pyro-Chem 551208).....	756.94	96.92
21 23 16 00-0107 EA Enclosure For Secondary Cylinders, Kitchen Fire Suppression Systems (Pyro-Chem 550966).....	462.15	59.11
21 23 16 00-0108 Fusible Links, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0109 EA 165 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551522).....	14.92	1.95
21 23 16 00-0110 EA 212 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551523).....	14.92	1.95
21 23 16 00-0111 EA 280 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551524).....	15.26	1.95
21 23 16 00-0112 EA 360 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551525).....	14.92	1.95
21 23 16 00-0113 EA 450 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551526).....	14.92	1.95
21 23 16 00-0114 EA 500 Fahrenheit, Fusible Link, Kitchen Fire Suppression Systems (Pyro-Chem 551527).....	16.14	1.95
21 23 16 00-0115 EA Fusible Link Kit With 10" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550131).....	25.86	3.28
21 23 16 00-0116 EA Fusible Link Kit With 8" Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550132).....	33.58	4.35
21 23 16 00-0117 EA Fusible Link Hanger, Kitchen Fire Suppression Systems (Pyro-Chem 550876).....	50.07	22.46
21 23 16 00-0118 EA 225 To 600 Fahrenheit, Electrical Thermal Detector, Kitchen Fire Suppression Systems (Pyro-Chem 13970-6).....	327.38	49.97
21 23 16 00-0119 Gas Valves, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0120 EA 3/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550593).....	261.64	19.17
21 23 16 00-0121 EA 1" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550594).....	298.96	23.61
21 23 16 00-0122 EA 1-1/4" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550595).....	324.96	29.82
21 23 16 00-0123 EA 1-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550596).....	358.23	34.26
21 23 16 00-0124 EA 2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 551049).....	412.65	40.48
21 23 16 00-0125 EA 2-1/2" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550185).....	942.80	59.20
21 23 16 00-0126 EA 3" Mechanical Gas Valve, Direct Cable Hookup, Kitchen Fire Suppression Systems (Pyro-Chem 550186).....	1,008.85	68.52
21 23 16 00-0127 EA 3/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550358).....	207.48	19.17
21 23 16 00-0128 EA 1" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550359).....	349.06	23.61
21 23 16 00-0129 EA 1-1/4" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550360).....	366.92	29.82
21 23 16 00-0130 EA 1-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550361).....	417.79	34.26
21 23 16 00-0131 EA 2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550362).....	575.11	40.48
21 23 16 00-0132 EA 2-1/2" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550363).....	1,102.53	59.20
21 23 16 00-0133 EA 3" Electrical Gas Valve, Kitchen Fire Suppression Systems (Pyro-Chem 17643).....	1,165.90	68.52
21 23 16 00-0134 Nozzles, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0135 EA Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....	53.37	6.57
21 23 16 00-0136 EA Swivel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....	75.26	8.34
21 23 16 00-0137 EA Stainless Steel Nozzle, Kitchen Fire Suppression Systems (Pyro-Chem).....	278.27	8.34
21 23 16 00-0138 Actuating Cylinders/Cartridges, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0139 EA Carbon Dioxide Actuation Cartridge, Kitchen Fire Suppression Systems (Pyro-Chem 551059).....	19.77	2.58

21	Fire Suppression
21 20	Fire-Extinguishing Systems
21 23	Wet-Chemical Fire-Extinguishing Systems



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 23 16 00-0140	EA		PAC-10, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550104).....	647.34	83.34
21 23 16 00-0141	EA		PAC-200, Pneumatic Actuating Cylinder, Kitchen Fire Suppression Systems (Pyro-Chem 550690).....	825.06	106.60
21 23 16 00-0142			Circuit Monitors, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0143	EA		24 Volt DC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550303).....	423.19	54.58
21 23 16 00-0144	EA		120 Volt AC, System Circuit Monitor/Gas Valve Reset Relay, Kitchen Fire Suppression Systems (Pyro-Chem 550302).....	510.60	65.77
21 23 16 00-0145			Control Heads, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0146	EA		Mechanical Control Head, No Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551203).....	466.90	60.18
21 23 16 00-0147	EA		Mechanical Control Head With Local Action, Kitchen Fire Suppression Systems (Pyro-Chem 551200).....	487.40	62.92
21 23 16 00-0148	EA		24 Volt DC, Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551201).....	634.80	81.83
21 23 16 00-0149	EA		120 Volt AC Electrical Control Head With Local Actuation, Kitchen Fire Suppression Systems (Pyro-Chem 551202).....	728.31	94.08
21 23 16 00-0150	EA		Control Head Mounting Bracket, Kitchen Fire Suppression Systems (Pyro-Chem 550853).....	59.15	7.64
21 23 16 00-0151			Corner Pulleys/Tees, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0152	EA		Set Screw Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 415670).....	14.47	1.25
21 23 16 00-0153	EA		Compression Type, Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 423250).....	15.03	1.60
21 23 16 00-0154	EA		Tee Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550166).....	47.42	6.13
21 23 16 00-0155	EA		Removal And Replacement Of Screw For Corner Pulley, Kitchen Fire Suppression Systems (Pyro-Chem 550272).....	0.64	
21 23 16 00-0156			Switches, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0157	EA		SPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550227).....	51.57	6.66
21 23 16 00-0158	EA		DPDT Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550237).....	103.27	13.22
21 23 16 00-0159	EA		Four Pole Double Throw Switch, Kitchen Fire Suppression Systems (Pyro-Chem 550978).....	218.55	28.05
21 23 16 00-0160			Wire Rope/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0161	LF		1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 15821).....	1.10	0.26
21 23 16 00-0162	EA		Crimps For 1/16" Diameter Stainless Steel Wire Rope, Kitchen Fire Suppression Systems (Pyro-Chem 550122).....	0.71	0.26
21 23 16 00-0163	EA		High Temperature Stainless Steel Crimps, Kitchen Fire Suppression Systems (Pyro-Chem 551551).....	2.55	0.35
21 23 16 00-0164	EA		"S" Hooks, Kitchen Fire Suppression Systems (Pyro-Chem 550121).....	0.48	
21 23 16 00-0165			Replacement Parts, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0166	EA		Wet Valve Rebuilding Kit, Kitchen Fire Suppression Systems (Pyro-Chem 550698).....	49.03	6.39
21 23 16 00-0167	EA		Wet Valve Cap With Schrader Valve, Kitchen Fire Suppression Systems (Pyro-Chem 550831).....	51.17	6.66
21 23 16 00-0168	EA		Wet Spring, Kitchen Fire Suppression Systems (Pyro-Chem 550705).....	5.99	0.79
21 23 16 00-0169	EA		225 psi, Wet Gage, Kitchen Fire Suppression Systems (Pyro-Chem 551236).....	70.15	8.70
21 23 16 00-0170	EA		Wet Valve O-ring, Kitchen Fire Suppression Systems (Pyro-Chem 550716).....	9.86	1.25
21 23 16 00-0171	EA		Wet Piston, Kitchen Fire Suppression Systems (Pyro-Chem 550707).....	13.73	1.77
21 23 16 00-0172	EA		Wet Piston O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 550715).....	5.99	0.79
21 23 16 00-0173	EA		Wet Nozzle Cap, Kitchen Fire Suppression Systems (Pyro-Chem 551528).....	8.45	1.07
21 23 16 00-0174	EA		Wet Nozzle Strainer, Kitchen Fire Suppression Systems (Pyro-Chem 551529).....	8.26	1.07
21 23 16 00-0175	EA		Wet Nozzle Cap O-Ring, Kitchen Fire Suppression Systems (Pyro-Chem 551530).....	2.36	0.26
21 23 16 00-0176	EA		Removal And Replacement Of Teflon Washer For Control Head Actuator, Kitchen Fire Suppression Systems (Pyro-Chem 550257).....	3.99	
21 23 16 00-0177	EA		O-Ring Lubrication, Kitchen Fire Suppression Systems (Pyro-Chem 550063).....	76.47	
21 23 16 00-0178	EA		3.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 551024).....	516.18	
21 23 16 00-0179	EA		4.6 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550902).....	672.42	
21 23 16 00-0180	EA		6.0 Gallon Empty Test Tank, Kitchen Fire Suppression Systems (Pyro-Chem 550901).....	777.80	
21 23 16 00-0181			Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0182	EA		3/8" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550857).....	23.98	3.02
21 23 16 00-0183	EA		1/2" Quickseal Adapter, Kitchen Fire Suppression Systems (Pyro-Chem 550859).....	24.85	3.20
21 23 16 00-0184	EA		Wet Valve Tool, Kitchen Fire Suppression Systems (Pyro-Chem 550788).....	47.83	6.13
21 23 16 00-0185	EA		Recharge Adapter Kit, Kitchen Fire Suppression Systems (Pyro-Chem 551240).....	67.71	
21 23 16 00-0186	EA		3.0 Gallon Of Wet Chemical For Recharge, Kitchen Fire Suppression Systems (Pyro-Chem 551188).....	145.52	
21 23 16 00-0187			Pull Stations/Accessories, Kitchen Fire Suppression Systems (21 23 16 00-0100)		
21 23 16 00-0188	EA		Mechanical, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551074).....	96.72	12.52
21 23 16 00-0189	EA		Electric, Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 551166).....	105.58	17.58
21 23 16 00-0190	EA		Trim Ring For Flush Mounting Remote Pull Station, Kitchen Fire Suppression Systems (Pyro-Chem 550088).....	25.86	3.28
21 23 16 00-0191	EA		Glass Rods For Pull Stations, Kitchen Fire Suppression Systems (Pyro-Chem 428661).....	3.80	1.16
21 23 16 00-0192			Asco Gas Valve Control Panels (21 23 16)		
21 23 16 00-0193	EA		Relay Control Panel For AC Solenoid Valves (Asco 108D90C).....	1,566.32	195.26
21 23 16 00-0194	EA		Relay Control Panel For DC Solenoid Valves (Asco 108D10C).....	1,615.13	195.26
21 23 16 00-0195	EA		Master Control Station For Relay Control Panel For DC Solenoid Valves (Asco 216C89).....	515.75	44.38
21 23 16 00-0196	EA		Emergency Stop Station For Relay Control Panel (Asco 173A19).....	483.86	44.38



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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21 24 Dry-Chemical Fire-Extinguishing Systems (21 24)

21 24 16 Dry-Chemical Fire-Extinguishing Equipment (21 24)

21 24 16 00-0001 Amerex KP Restaurant Fire Suppression Systems (21 24 16)

Note: Amerex or equal.

21 24 16 00-0002	EA	3.75 Gallon, Charged, Agent Cylinder Assembly With Discharge Valve.....	439.61	68.88
21 24 16 00-0003	EA	6 Gallon, Charged, Agent Cylinder Assembly With Discharge Valve.....	609.60	86.84
21 24 16 00-0004	EA	Recharge - KP Liquid Agent (3.75 Gallon).....	144.78	
21 24 16 00-0005	EA	Recharge - KP Liquid Agent (6 Gallon).....	254.50	
21 24 16 00-0006	EA	3.75 Gallon, Bracket Assembly Agent Cylinder With Distribution Hose Assembly And Distribution Outlet.....	101.34	14.46
21 24 16 00-0007	EA	6 Gallon, Bracket Assembly Agent Cylinder.....	59.04	8.39
21 24 16 00-0008	EA	Discharge Adapter Kit 3/4 NPT - Agent Cylinder 6 Gallon.....	25.60	
21 24 16 00-0009	EA	Pneumatic Actuator - Agent Cylinder 6 Gallon.....	101.34	14.46
21 24 16 00-0010	EA	Actuator - MRM (Less N2 Cylinder And Enclosure).....	254.50	36.24
21 24 16 00-0011	EA	Enclosure - MRM, Painted Steel.....	135.64	19.28
21 24 16 00-0012	EA	Enclosure - MRM, Stainless Steel.....	163.98	19.28
21 24 16 00-0013	EA	Cabinet, Stainless Steel (Single Cylinder System).....	403.86	57.54
21 24 16 00-0014	EA	Actuation Hose - (N2 - 1/4" x 16").....	30.48	4.33
21 24 16 00-0015	EA	Cylinder, Nitrogen - 10 CU. In. (Use For 1-10 Agent Cylinders).....	135.64	19.28
21 24 16 00-0016	EA	Vent Check.....	24.38	3.47
21 24 16 00-0017	EA	Detector.....	18.29	2.60
Note: Includes bracket, linkage and conduit fittings.				
21 24 16 00-0018	EA	280 To 450 Degree F, Fusible Link.....	6.85	0.97
21 24 16 00-0019	EA	Test Link.....	2.44	
21 24 16 00-0020	EA	Corner Pulley.....	9.46	1.35
21 24 16 00-0021	EA	1/16", 500 Foot Spool, Cable.....	152.40	21.68
21 24 16 00-0022	EA	Pulley Tee.....	68.58	9.74
21 24 16 00-0023	EA	Manual Pull Station (Standard).....	60.96	8.68
21 24 16 00-0024	EA	Manual Pull Station, Adapter Kit (Recess Standard Pull Station).....	28.60	4.04
21 24 16 00-0025	EA	Manual Pull Station (Oversized).....	67.96	9.63
21 24 16 00-0026	EA	Conduit Offset.....	13.56	1.93
21 24 16 00-0027	EA	Seal - 3/8" Pipe Thread (Quick-Seal).....	18.69	2.70
21 24 16 00-0028	EA	Seal - 1/2" Pipe Thread (Quick-Seal).....	15.23	2.21
21 24 16 00-0029	EA	3/8" Pipe Compression Seal.....	25.45	3.66
21 24 16 00-0030	EA	1/2" Pipe Compression Seal.....	25.45	3.66
21 24 16 00-0031	EA	Cap, Nozzle Blow-Off (Standard).....	7.71	2.50
21 24 16 00-0032	EA	Cap, Nozzle Blow-Off (High Temperature).....	16.98	2.50
21 24 16 00-0033	EA	Nozzle - Fryer, Griddle - 2 Flow Points Each.....	30.48	4.33
21 24 16 00-0034	EA	Nozzle - Appliance, Plenum - 1 Flow Points Each.....	30.48	4.33
21 24 16 00-0035	EA	Nozzle - Solid Fuel Charbroiler - 1 To 1-1/2 Flow Points Each.....	30.48	4.33
21 24 16 00-0036	EA	Nozzle - Upright Charbroiler - 1/2 Flow Points Each.....	30.48	4.33
21 24 16 00-0037	EA	Nozzle - Duct (Only) - 2 Flow Points Each.....	30.48	4.33
21 24 16 00-0038	EA	Nozzle - Four Burner Range - 2 Flow Points Each.....	43.84	6.27
21 24 16 00-0039	EA	Gas Valve - Mechanical - 3/4" Or 1".....	239.65	25.55
21 24 16 00-0040	EA	Gas Valve - Mechanical - 1-1/4" Or 1-1/2".....	284.59	37.11
21 24 16 00-0041	EA	Gas Valve - Mechanical - 2".....	353.67	43.85
21 24 16 00-0042	EA	Manual Reset Relay (Required With Every Electric Gas Valve).....	384.03	54.65
21 24 16 00-0043	EA	SPDT Microswitch With 18" Leads.....	20.21	2.90
21 24 16 00-0044	EA	Kit Gas Valve Actuator For Use With ASCO Mechanical Gas Valve.....	32.61	4.63
21 24 16 00-0045	EA	Gas Valve Trip Assembly.....	68.58	9.74

21 24 16 00-0046 Range Guard Fire Suppression Systems (21 24 16)

Note: Range Guard or equal.

21 24 16 00-0047	EA	1-1/4 Gallon Charged Cylinder With Valve.....	467.17	74.46
21 24 16 00-0048	EA	2-1/2 Gallon Charged Cylinder With Valve.....	583.15	92.93
21 24 16 00-0049	EA	4 Gallon Charged Cylinder With Valve.....	719.94	114.76
21 24 16 00-0050	EA	6 Gallon Charged Cylinder With Valve.....	855.13	136.24
21 24 16 00-0051	EA	Vent Plug.....	19.62	3.11
21 24 16 00-0052	EA	Discharge Adapter Kit.....	25.28	
21 24 16 00-0053	EA	1-1/4 Gallon Wall Bracket.....	51.99	8.25
21 24 16 00-0054	EA	2-1/2 Gallon Wall Bracket.....	55.04	8.78
21 24 16 00-0055	EA	4 Gallon Wall Bracket.....	103.94	16.60
21 24 16 00-0056	EA	6 Gallon Wall Bracket.....	115.19	18.37
21 24 16 00-0057	EA	Mechanical Control Head, No Microswitch.....	406.37	64.79
21 24 16 00-0058	EA	Mechanical Control Head, 1 Microswitch.....	423.96	67.54
21 24 16 00-0059	EA	Mechanical Control Head, 2 Microswitches.....	486.36	77.48
21 24 16 00-0060	EA	Tandem Control Head.....	369.58	58.94
21 24 16 00-0061	EA	Electric Control Head, 120 Volt AC / 24 Volt DC.....	625.55	99.68
21 24 16 00-0062	EA	Mechanical Control Box.....	278.38	44.38
21 24 16 00-0063	EA	Tandem Control Box.....	278.38	44.38
21 24 16 00-0064	EA	Mechanical Control Box Adapter.....	81.59	13.05
21 24 16 00-0065	EA	A+ Control head With 1 Pressure Operated Actuator.....	245.21	39.05
21 24 16 00-0066	EA	Pressure Operated Actuator.....	100.80	16.07
21 24 16 00-0067	EA	BMCS-1 Nitrogen Cylinder.....	163.19	26.01
21 24 16 00-0068	EA	BMCS-1 Actuator Assembly.....	166.38	26.54
21 24 16 00-0069	EA	BMCS-1 Mounting Bracket.....	40.80	6.48
21 24 16 00-0070	EA	BMCS-7 Nitrogen Cylinder.....	470.86	75.00
21 24 16 00-0071	EA	BMCS-7 Mounting Bracket.....	100.80	16.07

21 Fire Suppression**21 20 Fire-Extinguishing Systems****21 24 Dry-Chemical Fire-Extinguishing Systems**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 24 16 00-0072	EA		BMCS-7 Discharge Adapter Kit.....	100.80	16.07
21 24 16 00-0073	EA		Check Valve.....	86.59	19.09
21 24 16 00-0074	EA		Vent Check For Use With BMCS Systems.....	45.59	7.27
21 24 16 00-0075	EA		Check Valve, (Schrader Flare Fitting) For Pressure Operated Actuator.....	19.84	3.16
21 24 16 00-0076	EA		Removal And Replacement Of Receiver Gasket For BMCS-Actuator Assembly.....	5.22	
21 24 16 00-0077	EA		Pneumatic Control Head For Slave Cylinders.....	103.99	16.60
21 24 16 00-0078	EA		Nozzles; ADP, F, R And GRW.....	47.67	7.64
21 24 16 00-0079	EA		Nozzles; DM And LPF.....	53.11	8.43
21 24 16 00-0080	EA		Swivel Adapter.....	33.60	5.32
21 24 16 00-0081	EA		Corner Pulley.....	14.40	2.30
21 24 16 00-0082	LF		1/16" Stainless Steel Cable.....	0.68	0.26
21 24 16 00-0083	EA		Cable Crimp Sleeve.....	0.82	0.26
21 24 16 00-0084	EA		"S" Hook.....	0.62	0.18
21 24 16 00-0085	EA		Electrical Metallic Tubing (EMT) Adapter, 1/2" Electrical Metallic Tubing (EMT) x 3/8" NPT.....	49.58	7.90
21 24 16 00-0086	EA		Cable Clamp.....	4.43	0.71
21 24 16 00-0087	EA		Nico Sleeves - 1/16" Cable.....	0.63	0.18
21 24 16 00-0088	EA		3/8" Cable Anchor.....	52.39	8.34
21 24 16 00-0089	EA		1/2" Cable Anchor.....	52.39	8.34
21 24 16 00-0090	EA		Mechanical Remote Manual Release (Pull Cable).....	84.74	13.49
21 24 16 00-0091	EA		Tee Pulley, Use For Mechanical Pull And Gas Valve.....	90.45	14.38
21 24 16 00-0092	EA		Surface Remote Manual Release, End-of-line.....	105.96	16.86
21 24 16 00-0093	EA		Surface Remote Manual Release, In line Conservation Kit.....	33.20	5.32
21 24 16 00-0094	EA		Surface Remote Manual Release, In line And End Of Line.....	139.11	22.10
21 24 16 00-0095	EA		Recessed Remote Manual Release, End-of-line.....	105.96	16.86
21 24 16 00-0096	EA		Recessed Remote Manual Release, In Line Kit.....	126.31	20.14
21 24 16 00-0097	EA		Pulley Tee, Remote In Line Only.....	22.70	3.64
21 24 16 00-0098	EA		Fusible Link Housing Kit With 1 - Bracket, 2 - 1/2" Electrical Metallic Tubing (EMT) Connector, 1 - "S" Hook, 8 - Cable Crimp Sleeve.....	25.21	3.99
21 24 16 00-0099	EA		Fusible Link 165F To 360F.....	8.26	1.33
21 24 16 00-0100	EA		Fusible Link 500F.....	12.79	1.33
21 24 16 00-0101	EA		Standard Detector With 1 - 360F link, 2 - "S" Hooks, 2 - Crimp Sleeves.....	25.21	3.99
21 24 16 00-0102	EA		Standard Detector Kit With 1 - Large Bracket, 2 - "S" Hooks, 2 - Cable Crimp Sleeve.....	18.94	3.99
21 24 16 00-0103	EA		Quartzoid Link 400 F.....	135.90	21.65
21 24 16 00-0104	EA		Quartzoid Link 500 F.....	135.90	21.65
21 24 16 00-0105	EA		SPDT Micro Switch For Use With A Plus Control Box.....	48.71	7.72
21 24 16 00-0106	EA		DPDT Micro Switch For Use With A Plus Control Box.....	84.74	13.49
21 24 16 00-0107	EA		SPDT Micro Switch For Use With A Mechanical Control Box.....	50.37	7.99
21 24 16 00-0108	EA		DPDT Micro Switch For Use With A Mechanical Control Box.....	87.29	13.93
21 24 16 00-0109	EA		SPDT Micro Switch For Use With PRCB.....	63.95	10.20
21 24 16 00-0110	EA		DPDT Micro Switch For Use With PRCB.....	92.26	14.65
21 24 16 00-0111	EA		Pressure Switch, SPDT (Fire Dept. Tie In).....	270.21	43.04
21 24 16 00-0112	EA		Circuit Monitor 12 Or 24 Volt DC.....	121.52	19.35
21 24 16 00-0113	EA		Circuit Monitor 120 Volt AC.....	121.52	19.35
21 24 16 00-0114	EA		Electric Manual Pull Station.....	88.74	14.12
21 24 16 00-0115	EA		6", 24 Volt DC, Motor Bell.....	49.57	7.90
21 24 16 00-0116	EA		10", 115 Volt AC Motor Bell.....	70.36	11.19
21 24 16 00-0117	EA		Fuse, 1.2 For ECH.....	5.70	0.89
21 24 16 00-0118	EA		Indicator Lamp 12 Or 24 Volt DC.....	25.21	3.99
21 24 16 00-0119	EA		Indicator Lamp 120 Volt AC.....	25.21	3.99
21 24 16 00-0120	EA		B-10 Manual Station Dual Action, SPDT.....	92.74	14.73
21 24 16 00-0121	EA		B-11 Manual Station Dual Action, DPDT.....	102.33	16.33
21 24 16 00-0122	EA		Break Rods For B10/B11 Manual Pull Station.....	2.95	1.16
21 24 16 00-0123	EA		Spare Key For B10/B11 Manual Stations.....	12.79	2.04
21 24 16 00-0124	EA		MT-24-LSM-VAR Multitone Signal With 15/75cd Strobe, 24 Volt, Flush Grill.....	137.51	21.92
21 24 16 00-0125	EA		Suppression Abort Station.....	145.50	23.16
21 24 16 00-0126	EA		Suppression Abort Station With Surface Mount Back Box.....	169.49	26.98
21 24 16 00-0127	EA		Surface Mount Back Box.....	55.96	8.87
21 24 16 00-0128	EA		Single Hazard Control Unit, 120 Volt AC IP.....	1,039.28	165.36
21 24 16 00-0129	EA		Single Hazard Control Unit, 240 Volt AC IP.....	1,039.28	165.36
21 24 16 00-0130	EA		1 Lead Acid Battery; 24 Volt DC, 1.2 A.H.....	86.34	13.75
21 24 16 00-0131	EA		Accessory Kit - End-of-line Resistors (10K Ohms, 1/2 W).....	3.36	0.62
21 24 16 00-0132	EA		Spare Scorpio Circuit Board.....	751.44	
21 24 16 00-0133	EA		Extra Scorpio Key.....	12.79	
21 24 16 00-0134	EA		Extra Scorpio Manual.....	8.00	
21 24 16 00-0135	EA		Compression Seal Adapter 3/8" Pipe.....	21.74	3.46
21 24 16 00-0136	EA		Compression Seal Adapter 1/2" Tubing/ 1/4" Pipe.....	23.61	3.73
21 24 16 00-0137	EA		Compression Seal Adapter 5/8" Tubing/ 3/8" Pipe.....	28.41	4.53
21 24 16 00-0138	EA		Compression Seal Adapter 3/4" Tubing/ 1/2" Pipe.....	30.38	4.79
21 24 16 00-0139	EA		Quik Seal Adapter 3/8" NPT Female.....	23.61	3.73
21 24 16 00-0140	EA		Quik Seal Adapter 1/2" NPT Female.....	23.61	3.73
21 24 16 00-0141	EA		Quik Seal Adapter 3/4" NPT Female.....	40.39	6.48
21 24 16 00-0142	EA		Quik Seal Adapter 1" NPT Female.....	53.56	8.52
21 24 16 00-0143	EA		Quik Patch (Up To 1-1/8" Diameter).....	23.61	3.73
21 24 16 00-0144	EA		1-1/4 Gallon Karbaloy Charge.....	52.55	
21 24 16 00-0145	EA		2-1/2 Gallon Karbaloy Charge.....	90.33	
21 24 16 00-0146	EA		4 Gallon Karbaloy Charge.....	136.54	
21 24 16 00-0147	EA		6 Gallon Karbaloy Charge.....	199.80	
21 24 16 00-0148	EA		Inlet Flushing Adapter.....	39.17	6.22
21 24 16 00-0149	EA		1/2" Flushing Adapter (Outlet).....	39.17	6.22
21 24 16 00-0150	EA		1/8" Flushing Adapter (Outlet).....	39.17	6.22
21 24 16 00-0151	EA		1/4" Flushing Adapter (Outlet).....	39.17	6.22



		Fire Suppression	21
		Fire-Extinguishing Systems	21 20
		Dry-Chemical Fire-Extinguishing Systems	21 24

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
21 24 16 00-0152	EA		3/8" Flushing Adapter (Outlet).....	39.17	6.22
21 24 16 00-0153	EA		Recharge Adapter (Old Style Cylinder Valve Assembly Only)	54.36	
21 24 16 00-0154	EA		Instruction Label (In Case Of Fire) - MCB	4.40	
21 24 16 00-0155	EA		Caution Sign (Turn On Fan).....	5.22	
21 24 16 00-0156	EA		Inspection Label (Authorized installers only).....	3.75	
21 24 16 00-0157	EA		Label, Warning, A+ Control Box.....	2.77	
21 24 16 00-0158	EA		Wet Chemical System Kits, RG-1.25G Kit; #23315	687.48	109.44
21 24 16 00-0159	EA		Wet Chemical System Kits, RG-2.5G Kit; #23316	802.61	127.72
21 24 16 00-0160	EA		Wet Chemical System Kits, RG-4GS Kit; #23317	999.28	159.05
21 24 16 00-0161	EA		Wet Chemical System Kits, RG-4GT Kit; #23318	999.28	159.05
21 24 16 00-0162	EA		Wet Chemical System Kits, RG-6G Kit; #23319	1,256.68	199.97
21 24 16 00-0163	EA		Wet Chemical System Kits, RG Mechanical Control HD (MCH) Kit; #23320	595.55	94.79
21 24 16 00-0164	EA		Wet Chemical System Kits, RG Mechanical Control Box (MCB) Kit; #23321	559.58	89.02
21 24 16 00-0165	EA		Wet Chemical System Kits, A Plus Control Box Kit; #23322	452.46	71.98
21 24 16 00-0166	EA		Wet Chemical System Kits, Valve Rebuild Kit; #23210.....	783.42	124.70
21 24 16 00-0167	EA		Wet Chemical System Kits, BMCS-1 Package; #23208.....	717.86	114.23

21 30 Fire Pumps (21)

21 31 Centrifugal Fire Pumps (21 30)

21 31 13 Electric-Drive, Centrifugal Fire Pumps (21 31)

21 31 13 00-0001 Electric-Drive Fire Pumps (21 31 13)

Note: Includes fire pump, motor, motor starter, alarm panel, automatic transfer switch, and controller.

21 31 13 00-0002	EA		20 HP Electric Fire Pump.....	35,593.90	1,746.79
			<i>For Duplex Pumping System, Add</i>	33,847.11	
21 31 13 00-0003	EA		30 HP Electric Fire Pump.....	41,422.30	1,965.15
			<i>For Duplex Pumping System, Add</i>	39,602.72	
21 31 13 00-0004	EA		40 HP Electric Fire Pump.....	56,264.11	2,183.50
			<i>For Duplex Pumping System, Add</i>	54,242.36	
21 31 13 00-0005	EA		50 HP Electric Fire Pump.....	69,506.07	2,499.15
			<i>For Duplex Pumping System, Add</i>	67,006.94	
21 31 13 00-0006	EA		75 HP Electric Fire Pump.....	77,563.18	2,726.33
			<i>For Duplex Pumping System, Add</i>	74,836.84	

21 31 16 Diesel-Drive, Centrifugal Fire Pumps (21 31)

21 31 16 00-0001 Diesel-Drive Fire Pumps (21 31 16)

Note: Pumps shall be stand alone units meeting NFPA-20 specs. Includes fire pump, motor, motor starter, alarm panel, and controller.

21 31 16 00-0002	EA		30 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	52,251.26	2,044.75
21 31 16 00-0003	EA		40 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	59,090.64	2,271.95
21 31 16 00-0004	EA		50 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	62,133.87	2,499.15
21 31 16 00-0005	EA		75 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	70,658.28	2,726.33
21 31 16 00-0006	EA		150 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	75,117.93	3,180.73
21 31 16 00-0007	EA		175 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	81,131.81	4,089.50
21 31 16 00-0008	EA		200 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	88,109.23	4,543.90
21 31 16 00-0009	EA		250 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	100,744.17	5,180.04
21 31 16 00-0010	EA		300 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	120,413.61	5,588.99
21 31 16 00-0011	EA		350 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	141,197.12	6,361.45
21 31 16 00-0012	EA		400 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	167,284.49	6,815.84
21 31 16 00-0013	EA		500 HP Diesel Driven Fire Pump, NFPA-20 Specific.....	188,206.86	7,270.23

21 34 Fire Pump Accessories (21 30)

21 34 13 Pressure Maintenance Pumps (21 34)

21 34 13 00-0001 Jockey Pumps (21 34 13)

Note: Includes pump and controller.

21 34 13 00-0002	EA		Up To 3 HP, 1" Pipe Connection, Jockey Pump And Controller	3,752.02	454.39
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END OF SECTION 21

21	21	Fire Suppression
	21 30	Fire Pumps
	21 34	Fire Pump Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 Plumbing

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise.

22 01 Operation and Maintenance of Plumbing ⁽²²⁾

22 01 10 Operation And Maintenance Of Plumbing Piping And Pumps ^(22 01)

See CSI section 23 01 20 00-0000 for purging of pipes and shutdown.

22 01 10 61 Plumbing Piping Repairs ^(22 01 10)

22 01 10 61-0001 Pipe Repair Clamps ^(22 01 10 61)

22 01 10 61-0002	EA	1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	29.36
		Note: Includes neoprene gasket	
22 01 10 61-0003	EA	3/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	30.81
		Note: Includes neoprene gasket	
22 01 10 61-0004	EA	1" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	33.92
		Note: Includes neoprene gasket	
22 01 10 61-0005	EA	1-1/4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	36.31
		Note: Includes neoprene gasket	
22 01 10 61-0006	EA	1-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	39.55
		Note: Includes neoprene gasket	
22 01 10 61-0007	EA	2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	50.65
		Note: Includes neoprene gasket	
22 01 10 61-0008	EA	2-1/2" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	65.56
		Note: Includes neoprene gasket	
22 01 10 61-0009	EA	3" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	76.95
		Note: Includes neoprene gasket	
22 01 10 61-0010	EA	4" Diameter x 3" Stainless Steel Pipe Repair Clamp, Single Bolt	88.42
		Note: Includes neoprene gasket	
22 01 10 61-0011	EA	1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	45.63
		Note: Includes neoprene gasket	
22 01 10 61-0012	EA	3/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	48.39
		Note: Includes neoprene gasket	
22 01 10 61-0013	EA	1" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	53.59
		Note: Includes neoprene gasket	
22 01 10 61-0014	EA	1-1/4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	58.89
		Note: Includes neoprene gasket	
22 01 10 61-0015	EA	1-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	65.12
		Note: Includes neoprene gasket	
22 01 10 61-0016	EA	2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	84.28
		Note: Includes neoprene gasket	
22 01 10 61-0017	EA	2-1/2" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	104.28
		Note: Includes neoprene gasket	
22 01 10 61-0018	EA	3" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	120.10
		Note: Includes neoprene gasket	
22 01 10 61-0019	EA	4" Diameter x 6" Stainless Steel Pipe Repair Clamp, Double Bolt	136.69
		Note: Includes neoprene gasket	
22 01 10 61-0020	EA	1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	64.18
		Note: Includes Buna rubber gasket	
22 01 10 61-0021	EA	3/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	67.20
		Note: Includes Buna rubber gasket	
22 01 10 61-0022	EA	1" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	74.30
		Note: Includes Buna rubber gasket	
22 01 10 61-0023	EA	1-1/4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	81.50
		Note: Includes Buna rubber gasket	
22 01 10 61-0024	EA	1-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	92.08
		Note: Includes Buna rubber gasket	
22 01 10 61-0025	EA	2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	113.36
		Note: Includes Buna rubber gasket	
22 01 10 61-0026	EA	2-1/2" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	136.05
		Note: Includes Buna rubber gasket	
22 01 10 61-0027	EA	3" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	164.61
		Note: Includes Buna rubber gasket	
22 01 10 61-0028	EA	4" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	201.55
		Note: Includes Buna rubber gasket	
22 01 10 61-0029	EA	5" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	207.41
		Note: Includes Buna rubber gasket	
22 01 10 61-0030	EA	6" Diameter x 9" Stainless Steel Pipe Repair Clamp, Three Bolt	222.01
		Note: Includes Buna rubber gasket	

22 01 40 Operation and Maintenance of Plumbing Fixtures ^(22 01)

22 01 40 81 Plumbing Fixtures Replacement ^(22 01 40)

22 01 40 81-0001 Fixture And/Or Trim Replacement ^(22 01 40 81)

Note: Includes removal of existing item(s) and installation of new item(s).

22 01 40 81-0002	EA	3/8" To 1/2" Compression Shut-off Valve Replacement With 15" Polybutylene Supply Tube	50.96
22 01 40 81-0003	EA	3/8" Compression x 1/2" FIP, Braided Stainless Steel, Supply Lines To Sink/Lavatory Replacement	17.36
22 01 40 81-0004	EA	Chrome Supply Lines To Sink/Lavatory Replacement, Pair	25.04
22 01 40 81-0005	EA	Single Bowl Sink/Lavatory Drain Line Replacement	34.67

22 Plumbing**22 01 Operation and Maintenance of Plumbing****22 01 40 Operation and Maintenance of Plumbing Fixtures**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 01 40 81-0006	EA	Double Bowl Sink/Lavatory Drain Line Replacement.....	54.11
22 01 40 81-0007	EA	Shower Head, Polished Chrome, Replacement.....	36.92
22 01 40 81-0008	EA	Shower Arm Replacement.....	32.14
22 01 40 81-0009	EA	Shower Head Replacement.....	37.07
22 01 40 81-0010	EA	Shower Knob Replacement.....	30.06
22 01 40 81-0011	EA	Shower and Tub Control Trim Replacement.....	82.13
		Note: Excludes balancing valve.	
22 01 40 81-0012	EA	Sink Basket Strainer Replacement.....	20.62
22 01 40 81-0013	EA	1-1/2" Replacement Sink Drain Without Stopper.....	11.78
22 01 40 81-0014	EA	4-1/2" Replacement Sink Drain Without Stopper.....	12.30
22 01 40 81-0015	EA	1-1/2" Replacement Sink Drain With Stopper.....	11.78
22 01 40 81-0016	EA	1" Sink Rubber Stopper Replacement.....	7.88
22 01 40 81-0017	EA	Sink Tailpiece Extension 1-1/2" x 8" Replacement.....	21.44
22 01 40 81-0018	EA	Sink Trap, Adjustable, 1-1/2" Replacement.....	33.59
22 01 40 81-0019	EA	Lavatory Pop-Up Rod Replacement.....	23.80
22 01 40 81-0020	EA	Lavatory Pop-up Drain Stopper Replacement.....	26.37
22 01 40 81-0021	EA	Faucet Handle Replacement.....	29.66
22 01 40 81-0022	EA	Faucet O-Ring Replacement.....	22.39
22 01 40 81-0023	EA	1-1/2" Faucet Hole Cover.....	14.84
22 01 40 81-0024	EA	Toilet Ballcock Replacement.....	33.17
22 01 40 81-0025	EA	Toilet Bowl Ring, Flat Wax, Replacement.....	6.30
		Note: Excludes removal of toilet.	
22 01 40 81-0026	EA	Toilet Tank Replacement.....	134.80
22 01 40 81-0027	EA	Toilet Bowl, 10" Replacement.....	165.27
22 01 40 81-0028	EA	Toilet Bowl, 10", Low-Flush Watersaver, Replacement.....	179.09
22 01 40 81-0029	EA	Toilet Bowl, 12", Replacement.....	192.43
22 01 40 81-0030	EA	Toilet Bowl, Elongated, 18", Replacement.....	169.92
22 01 40 81-0031	EA	Toilet Closet Bolt, 5/16" x 3" With Nuts And Washers Replacement.....	19.83
22 01 40 81-0032	EA	Toilet Flapper With Chain Replacement.....	15.43
22 01 40 81-0033	EA	Toilet Flush Tank Lever Replacement.....	16.38
22 01 40 81-0034	EA	Elongated Toilet Seat With Lid Replacement.....	91.92
22 01 40 81-0035	EA	Elongated Toilet Seat Without Lid Replacement.....	77.71
22 01 40 81-0036	EA	Handicap Toilet Seat Replacement, Complete With Rails.....	134.94
22 01 40 81-0037	EA	Diverter Tub Spout Replacement.....	45.82
22 01 40 81-0038	EA	Tub Spout Replacement.....	33.08
22 01 40 81-0039	EA	2" Tub Stopper, Replacement.....	9.19
22 01 40 81-0040	EA	Tub Waste/Overflow Replacement.....	64.71
22 01 40 81-0041	EA	Tub Stem Bonnet Assembly Replacement.....	32.21
22 01 40 81-0042	EA	Faucet Bonnet Replacement.....	35.98
22 01 40 81-0043	EA	Faucet Diverter Stem Replacement.....	22.41
22 01 40 81-0044	EA	Faucet Diverter Stem And Bonnet Replacement.....	29.96
22 01 40 81-0045	EA	Faucet Spout Replacement.....	34.52
22 01 40 81-0046	EA	Faucet Stem Replacement.....	25.14
22 01 40 81-0047	EA	Chrome Plated Plastic Drinking Fountain Bubbler Valve With Flexible Bubbler Guard Replacement.....	158.05
22 01 40 81-0048	EA	Chrome Plated Brass Drinking Fountain Bubbler Valve Replacement.....	197.06
22 01 40 81-0049	EA	Stainless Steel (Lead Free) Drinking Fountain Pushbutton Bubbler Valve Replacement.....	122.19

22 05 Common Work Results for Plumbing ⁽²²⁾**22 05 13 Common Motor Requirements For Plumbing Equipment** ^(22 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. See CSI section 23 05 13 00-0000 for motor requirements.

22 05 16 Expansion Fittings And Loops For Plumbing Piping ^(22 05)

See CSI section 23 05 16 00-0000 for expansion fittings and loops.

22 05 17 Sleeves and Sleeve Seals for Plumbing Piping ^(22 05)

See CSI section 23 05 17 00-0000 for sleeves and sleeve seals.

22 05 19 Meters And Gages For Plumbing Piping ^(22 05)

See CSI section 23 05 19 00-0000 for gages, 33 19 00 00-0000 for water utility service metering.

22 05 23 General-Duty Valves For Plumbing Piping ^(22 05)

See CSI section 23 05 23 00-0000 for valves.

22 05 29 Hangers And Supports For Plumbing Piping And Equipment ^(22 05)

See CSI section 23 05 29 00-0000 for hangers and supports.

22 05 48 Vibration And Seismic Controls For Plumbing Piping And Equipment ^(22 05)**22 05 48 13 Vibration Controls For Plumbing Piping And Equipment** ^(22 05 48)

See CSI section 23 05 48 13-0000 for vibration and seismic control.

22 05 53 Identification For Plumbing Piping And Equipment ^(22 05)

See CSI section 23 05 53 00-0000 for identification.

22 05 76 Facility Drainage Piping Cleanouts ^(22 05)**22 05 76 00-0001 Cast Iron Cleanout With Plug And Cover** ^(22 05 76)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Note: For floor installation.

22 05 76 00-0002	Cast Iron Cleanout With Plug And Round Or Square Cover <small>(22 05 76 00-0001)</small>		
22 05 76 00-0003	EA 2" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	531.48	51.27
	<i>For Vandal Proof, Add</i>	19.50	
	<i>For Galvanized Ferrule, Add</i>	45.00	
	<i>For Carpet Marker, Add</i>	16.00	
	<i>For Carpet Flange, Add</i>	58.50	
	<i>For Wide Flange, Add</i>	97.00	
	<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0004	EA 3" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	575.28	64.29
	<i>For Vandal Proof, Add</i>	19.50	
	<i>For Galvanized Ferrule, Add</i>	45.00	
	<i>For Carpet Marker, Add</i>	16.00	
	<i>For Carpet Flange, Add</i>	58.50	
	<i>For Wide Flange, Add</i>	97.00	
	<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0005	EA 4" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	718.05	77.68
	<i>For Vandal Proof, Add</i>	19.50	
	<i>For Galvanized Ferrule, Add</i>	45.00	
	<i>For Carpet Marker, Add</i>	16.00	
	<i>For Carpet Flange, Add</i>	58.50	
	<i>For Wide Flange, Add</i>	97.00	
	<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0006	EA 5" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,027.88	86.93
	<i>For Vandal Proof, Add</i>	19.50	
	<i>For Galvanized Ferrule, Add</i>	45.00	
	<i>For Carpet Marker, Add</i>	16.00	
	<i>For Carpet Flange, Add</i>	58.50	
	<i>For Wide Flange, Add</i>	97.00	
	<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0007	EA 6" Floor Cleanout, Round Or Square Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,263.83	94.17
	<i>For Vandal Proof, Add</i>	19.50	
	<i>For Galvanized Ferrule, Add</i>	45.00	
	<i>For Carpet Marker, Add</i>	16.00	
	<i>For Carpet Flange, Add</i>	58.50	
	<i>For Wide Flange, Add</i>	97.00	
	<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0008	Cast Iron Heavy Duty Cleanout With Plug And Round Cover <small>(22 05 76 00-0001)</small>		
22 05 76 00-0009	EA 2" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	611.67	51.27
	<i>For Vandal Proof, Add</i>	19.50	
	<i>For Galvanized Ferrule, Add</i>	45.00	
	<i>For Carpet Marker, Add</i>	16.00	
	<i>For Carpet Flange, Add</i>	58.50	
	<i>For Wide Flange, Add</i>	97.00	
	<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0010	EA 3" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	656.67	64.20
	<i>For Vandal Proof, Add</i>	19.50	
	<i>For Galvanized Ferrule, Add</i>	45.00	
	<i>For Carpet Marker, Add</i>	16.00	
	<i>For Carpet Flange, Add</i>	58.50	
	<i>For Wide Flange, Add</i>	97.00	
	<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0011	EA 4" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	799.51	77.68
	<i>For Vandal Proof, Add</i>	19.50	
	<i>For Galvanized Ferrule, Add</i>	45.00	
	<i>For Carpet Marker, Add</i>	16.00	
	<i>For Carpet Flange, Add</i>	58.50	
	<i>For Wide Flange, Add</i>	97.00	
	<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0012	EA 5" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,109.39	86.93
	<i>For Vandal Proof, Add</i>	19.50	
	<i>For Galvanized Ferrule, Add</i>	45.00	
	<i>For Carpet Marker, Add</i>	16.00	
	<i>For Carpet Flange, Add</i>	58.50	
	<i>For Wide Flange, Add</i>	97.00	
	<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0013	EA 6" Heavy Duty Floor Cleanout, Round Top, Cast Iron With Cast Bronze Screw Plug And Nickel Bronze Cover.....	1,345.26	94.17
	<i>For Vandal Proof, Add</i>	19.50	
	<i>For Galvanized Ferrule, Add</i>	45.00	
	<i>For Carpet Marker, Add</i>	16.00	
	<i>For Carpet Flange, Add</i>	58.50	
	<i>For Wide Flange, Add</i>	97.00	
	<i>For Satin Bronze Top, Deduct</i>	-24.00	
22 05 76 00-0014	Wall Cover For Cleanout <small>(22 05 76)</small>		
	Note: Cover and screw only.		
22 05 76 00-0015	Round Access Cover, Bronze Polished Top <small>(22 05 76 00-0014)</small>		
	Note: Cover and screw only.		
22 05 76 00-0016	EA 4-1/4" Diameter Wall Cover For Cleanout, Screwed.....	80.49	16.09
	<i>For Stainless Steel, Add</i>	9.00	
	<i>For Vandal Proof Screws, Add</i>	19.50	

22 Plumbing**22 05 Common Work Results for Plumbing****22 05 76 Facility Drainage Piping Cleanouts**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0017	EA		5-1/2" Diameter Wall Cover For Cleanout, Screwed <i>For Stainless Steel, Add</i> <i>For Vandal Proof Screws, Add</i>	86.92 9.00 19.50	19.28
22 05 76 00-0018	EA		7" Diameter Wall Cover For Cleanout, Screwed <i>For Stainless Steel, Add</i> <i>For Vandal Proof Screws, Add</i>	110.84 9.00 19.50	21.68
22 05 76 00-0019	EA		9-1/4" Diameter Wall Cover For Cleanout, Screwed <i>For Stainless Steel, Add</i> <i>For Vandal Proof Screws, Add</i>	186.93 9.00 19.50	24.10
22 05 76 00-0020	EA		11-1/4" Diameter Wall Cover For Cleanout, Screwed <i>For Stainless Steel, Add</i> <i>For Vandal Proof Screws, Add</i>	280.85 9.00 19.50	26.50
22 05 76 00-0021			Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0022	EA		7" x 7" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	418.27 19.50 22.50	16.09
22 05 76 00-0023	EA		9" x 9" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	602.23 19.50 22.50	16.87
22 05 76 00-0024	EA		10" x 10" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	643.50 19.50 22.50	17.83
22 05 76 00-0025	EA		14" x 14" Bronze Wall Or Floor Access Cover <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	719.82 19.50 22.50	20.25
22 05 76 00-0026			Secured Square Wall Access Panel, Bronze Polished Top (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0027	EA		6" x 6" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	417.73 19.50 22.50	16.09
22 05 76 00-0028	EA		8" x 8" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	601.44 19.50 22.50	16.87
22 05 76 00-0029	EA		10" x 10" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	642.64 19.50 22.50	17.83
22 05 76 00-0030	EA		12" x 12" Bronze Secured Wall Access Panel..... <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	718.88 19.50 22.50	20.25
22 05 76 00-0031			Secure Square Hinged Access Panel, Bronze Polished Top, Scoriated (22 05 76 00-0014) Note: Cover and screw only.		
22 05 76 00-0032	EA		6" x 6" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	405.24 19.50 22.50	16.09
22 05 76 00-0033	EA		8" x 8" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	560.38 19.50 22.50	16.87
22 05 76 00-0034	EA		10" x 10" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	794.39 19.50 22.50	17.83
22 05 76 00-0035	EA		12" x 12" Bronze Secured Hinged Access Panel, Scoriated <i>For Vandal Proof Screws, Add</i> <i>For Nickel Bronze, Add</i>	961.67 19.50 22.50	20.25
22 05 76 00-0036			Cast Iron Cleanout Tee (22 05 76)		
22 05 76 00-0037			Cast Iron Cleanout Tee And Round Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		
22 05 76 00-0038	EA		2" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	387.27 19.50 45.00	51.27
22 05 76 00-0039	EA		3" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	442.86 19.50 45.00	64.20
22 05 76 00-0040	EA		4" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	577.83 19.50 45.00	77.68
22 05 76 00-0041	EA		6" Cleanout Tee With Bronze Screw Plug And Round Polished Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,374.43 19.50 45.00	94.17
22 05 76 00-0042			Cast Iron Cleanout Tee And Square Access Cover (22 05 76 00-0036) Note: Satin smooth secured cover.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 05 76 00-0043 EA 2" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	672.00 19.50 45.00	51.27
22 05 76 00-0044 EA 3" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	727.60 19.50 45.00	64.20
22 05 76 00-0045 EA 4" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	843.67 19.50 45.00	77.68
22 05 76 00-0046 EA 6" Cleanout Tee With Cast Bronze Screw Plug And Square Nickel Bronze Cover <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	1,759.02 19.50 45.00	94.17
22 05 76 00-0047 Cast Iron Cleanout Tee With Brass Plug (22 05 76 00-0036)		
22 05 76 00-0048 EA 2" Cleanout Tee With Cast Bronze Screw Plug	317.35	41.93
22 05 76 00-0049 EA 3" Cleanout Tee With Cast Bronze Screw Plug	354.74	45.78
22 05 76 00-0050 EA 4" Cleanout Tee With Cast Bronze Screw Plug	472.74	60.24
22 05 76 00-0051 EA 5" Cleanout Tee With Cast Bronze Screw Plug	709.49	71.33
22 05 76 00-0052 EA 6" Cleanout Tee With Cast Bronze Screw Plug	1,207.89	84.34
22 05 76 00-0053 Removable Cleanout Plug (22 05 76)		
22 05 76 00-0054 Threaded Bronze Plugs (22 05 76 00-0053)		
22 05 76 00-0055 EA 1-1/4", 1-1/2" Or 2" Threaded Bronze Plug <i>For Plug Tapped For Center Screw, Add</i>	59.72 9.50	12.05
22 05 76 00-0056 EA 2-1/2" Threaded Bronze Plug <i>For Plug Tapped For Center Screw, Add</i>	71.34 9.50	13.10
22 05 76 00-0057 EA 3" Threaded Bronze Plug <i>For Plug Tapped For Center Screw, Add</i>	121.02 9.50	14.46
22 05 76 00-0058 EA 3-1/2" Threaded Bronze Plug <i>For Plug Tapped For Center Screw, Add</i>	135.54 9.50	16.87
22 05 76 00-0059 EA 4" Threaded Bronze Plug <i>For Plug Tapped For Center Screw, Add</i>	153.28 9.50	19.28
22 05 76 00-0060 EA 5" Threaded Bronze Plug <i>For Plug Tapped For Center Screw, Add</i>	214.63 9.50	21.68
22 05 76 00-0061 EA 6" Threaded Bronze Plug <i>For Plug Tapped For Center Screw, Add</i>	314.72 9.50	24.10
22 05 76 00-0062 EA 8" Threaded Bronze Plug <i>For Plug Tapped For Center Screw, Add</i>	529.41 9.50	26.50
22 05 76 00-0063 EA 10" Threaded Bronze Plug <i>For Plug Tapped For Center Screw, Add</i>	760.31 9.50	28.91
22 05 76 00-0064 Threaded Brass Plugs (22 05 76 00-0053)		
22 05 76 00-0065 EA 1-1/2" Threaded Brass Plug, Raised Head <i>For Plug Tapped For Center Screw, Add</i>	27.53 9.50	12.05
22 05 76 00-0066 EA 2" Threaded Brass Plug, Raised Head <i>For Plug Tapped For Center Screw, Add</i>	28.12 9.50	12.05
22 05 76 00-0067 EA 2-1/2" Threaded Brass Plug, Raised Head <i>For Plug Tapped For Center Screw, Add</i>	30.75 9.50	13.10
22 05 76 00-0068 EA 3" Threaded Brass Plug, Raised Head <i>For Plug Tapped For Center Screw, Add</i>	34.92 9.50	14.45
22 05 76 00-0069 EA 3-1/2" Threaded Brass Plug, Raised Head <i>For Plug Tapped For Center Screw, Add</i>	41.36 9.50	16.87
22 05 76 00-0070 EA 4" Threaded Brass Plug, Raised Head <i>For Plug Tapped For Center Screw, Add</i>	48.88 9.50	19.28
22 05 76 00-0071 EA 4-1/2" Threaded Brass Plug, Raised Head <i>For Plug Tapped For Center Screw, Add</i>	52.62 9.50	20.30
22 05 76 00-0072 EA 5" Threaded Brass Plug, Raised Head <i>For Plug Tapped For Center Screw, Add</i>	56.75 9.50	21.68
22 05 76 00-0073 EA 6" Threaded Brass Plug, Raised Head <i>For Plug Tapped For Center Screw, Add</i>	76.04 9.50	24.10
22 05 76 00-0074 EA 1-1/2" Threaded Brass Plug, Countersunk Head <i>For Plug Tapped For Center Screw, Add</i>	27.06 9.50	12.05
22 05 76 00-0075 EA 2" Threaded Brass Plug, Countersunk Head <i>For Plug Tapped For Center Screw, Add</i>	27.72 9.50	12.05
22 05 76 00-0076 EA 2-1/2" Threaded Brass Plug, Countersunk Head <i>For Plug Tapped For Center Screw, Add</i>	32.04 9.50	13.10
22 05 76 00-0077 EA 3" Threaded Brass Plug, Countersunk Head <i>For Plug Tapped For Center Screw, Add</i>	35.11 9.50	14.46
22 05 76 00-0078 EA 3-1/2" Threaded Brass Plug, Countersunk Head <i>For Plug Tapped For Center Screw, Add</i>	40.80 9.50	16.87
22 05 76 00-0079 EA 4" Threaded Brass Plug, Countersunk Head <i>For Plug Tapped For Center Screw, Add</i>	48.00 9.50	19.28
22 05 76 00-0080 EA 5" Threaded Brass Plug, Countersunk Head <i>For Plug Tapped For Center Screw, Add</i>	56.27 9.50	21.68
22 05 76 00-0081 EA 6" Threaded Brass Plug, Countersunk Head <i>For Plug Tapped For Center Screw, Add</i>	68.27 9.50	24.10

22 07 Plumbing Insulation (22)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 07 16 Plumbing Equipment Insulation (22 07)

22 07 16 00-0001 Lavatory Insulation (22 07 16)

22 07 16 00-0002 EA Neoprene Insulation Kit For Under Lavatories	217.32	18.43
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22 07 19 Plumbing Piping Insulation (22 07)

22 07 19 00-0001 Fiberglass Pipe Insulation (22 07 19)

Note: Includes factory applied All Service Jacket (ASJ), Self Sealing Lap (SSL) longitudinal seam, butt strip seals, and adhesive. Excludes insulation for fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.

22 07 19 00-0002 1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)

22 07 19 00-0003 LF 1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	6.93	1.80
For Single Layer Of Felt Finish, Add	0.22	
For Work In Restricted Working Space, Add	1.46	
22 07 19 00-0004 LF 3/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.16	1.80
For Single Layer Of Felt Finish, Add	0.24	
For Work In Restricted Working Space, Add	1.46	
22 07 19 00-0005 LF 1" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.62	1.88
For Single Layer Of Felt Finish, Add	0.26	
For Work In Restricted Working Space, Add	1.55	
22 07 19 00-0006 LF 1-1/4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	7.97	1.96
For Single Layer Of Felt Finish, Add	0.28	
For Work In Restricted Working Space, Add	1.58	
22 07 19 00-0007 LF 1-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.24	1.96
For Single Layer Of Felt Finish, Add	0.30	
For Work In Restricted Working Space, Add	1.61	
22 07 19 00-0008 LF 2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	8.74	2.04
For Single Layer Of Felt Finish, Add	0.32	
For Work In Restricted Working Space, Add	1.70	
22 07 19 00-0009 LF 2-1/2" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.29	2.13
For Single Layer Of Felt Finish, Add	0.37	
For Work In Restricted Working Space, Add	1.73	
22 07 19 00-0010 LF 3" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.89	2.21
For Single Layer Of Felt Finish, Add	0.41	
For Work In Restricted Working Space, Add	1.79	
22 07 19 00-0011 LF 4" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.48	2.38
For Single Layer Of Felt Finish, Add	0.53	
For Work In Restricted Working Space, Add	1.93	
22 07 19 00-0012 LF 6" Diameter Pipe, 1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.63	2.79
For Single Layer Of Felt Finish, Add	0.64	
For Work In Restricted Working Space, Add	2.25	

22 07 19 00-0013 1" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)

22 07 19 00-0014 LF 1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.19	2.46
For Single Layer Of Felt Finish, Add	0.26	
For Work In Restricted Working Space, Add	2.02	
22 07 19 00-0015 LF 3/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.54	2.46
For Single Layer Of Felt Finish, Add	0.30	
For Work In Restricted Working Space, Add	2.02	
22 07 19 00-0016 LF 1" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	9.70	2.46
For Single Layer Of Felt Finish, Add	0.30	
For Work In Restricted Working Space, Add	2.05	
22 07 19 00-0017 LF 1-1/4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.18	2.54
For Single Layer Of Felt Finish, Add	0.34	
For Work In Restricted Working Space, Add	2.08	
22 07 19 00-0018 LF 1-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	10.51	2.54
For Single Layer Of Felt Finish, Add	0.37	
For Work In Restricted Working Space, Add	2.11	
22 07 19 00-0019 LF 2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.03	2.62
For Single Layer Of Felt Finish, Add	0.40	
For Work In Restricted Working Space, Add	2.17	
22 07 19 00-0020 LF 2-1/2" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	11.71	2.79
For Single Layer Of Felt Finish, Add	0.44	
For Work In Restricted Working Space, Add	2.25	
22 07 19 00-0021 LF 3" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.45	2.87
For Single Layer Of Felt Finish, Add	0.50	
For Work In Restricted Working Space, Add	2.31	
22 07 19 00-0022 LF 4" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.40	3.03
For Single Layer Of Felt Finish, Add	0.64	
For Work In Restricted Working Space, Add	2.49	
22 07 19 00-0023 LF 6" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.84	3.52
For Single Layer Of Felt Finish, Add	0.79	
For Work In Restricted Working Space, Add	2.81	
22 07 19 00-0024 LF 8" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.42	3.94
For Single Layer Of Felt Finish, Add	1.12	
For Work In Restricted Working Space, Add	3.22	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0025 LF 10" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.15	4.67
<i>For Single Layer Of Felt Finish, Add</i>	1.31	
<i>For Work In Restricted Working Space, Add</i>	3.80	
22 07 19 00-0026 LF 12" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.79	5.33
<i>For Single Layer Of Felt Finish, Add</i>	1.49	
<i>For Work In Restricted Working Space, Add</i>	4.39	
22 07 19 00-0027 LF 14" Diameter Pipe, 1" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	31.55	5.82
<i>For Single Layer Of Felt Finish, Add</i>	1.72	
<i>For Work In Restricted Working Space, Add</i>	4.54	
22 07 19 00-0028 1-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0029 LF 1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.01	2.53
<i>For Single Layer Of Felt Finish, Add</i>	0.52	
<i>For Work In Restricted Working Space, Add</i>	2.11	
22 07 19 00-0030 LF 3/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.24	2.53
<i>For Single Layer Of Felt Finish, Add</i>	0.55	
<i>For Work In Restricted Working Space, Add</i>	2.11	
22 07 19 00-0031 LF 1" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	12.91	2.68
<i>For Single Layer Of Felt Finish, Add</i>	0.58	
<i>For Work In Restricted Working Space, Add</i>	2.23	
22 07 19 00-0032 LF 1-1/4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.46	2.74
<i>For Single Layer Of Felt Finish, Add</i>	0.62	
<i>For Work In Restricted Working Space, Add</i>	2.27	
22 07 19 00-0033 LF 1-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	13.92	2.79
<i>For Single Layer Of Felt Finish, Add</i>	0.65	
<i>For Work In Restricted Working Space, Add</i>	2.31	
22 07 19 00-0034 LF 2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	14.90	2.93
<i>For Single Layer Of Felt Finish, Add</i>	0.71	
<i>For Work In Restricted Working Space, Add</i>	2.44	
22 07 19 00-0035 LF 2-1/2" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.73	2.98
<i>For Single Layer Of Felt Finish, Add</i>	0.78	
<i>For Work In Restricted Working Space, Add</i>	2.48	
22 07 19 00-0036 LF 3" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.22	3.09
<i>For Single Layer Of Felt Finish, Add</i>	0.81	
<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-0037 LF 4" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.05	3.34
<i>For Single Layer Of Felt Finish, Add</i>	0.92	
<i>For Work In Restricted Working Space, Add</i>	2.78	
22 07 19 00-0038 LF 6" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.83	3.90
<i>For Single Layer Of Felt Finish, Add</i>	1.05	
<i>For Work In Restricted Working Space, Add</i>	3.24	
22 07 19 00-0039 LF 8" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.97	4.11
<i>For Single Layer Of Felt Finish, Add</i>	1.32	
<i>For Work In Restricted Working Space, Add</i>	3.42	
22 07 19 00-0040 LF 10" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	29.49	4.92
<i>For Single Layer Of Felt Finish, Add</i>	1.66	
<i>For Work In Restricted Working Space, Add</i>	4.09	
22 07 19 00-0041 LF 12" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	33.15	5.74
<i>For Single Layer Of Felt Finish, Add</i>	1.81	
<i>For Work In Restricted Working Space, Add</i>	4.77	
22 07 19 00-0042 LF 14" Diameter Pipe, 1-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	37.39	6.28
<i>For Single Layer Of Felt Finish, Add</i>	2.10	
<i>For Work In Restricted Working Space, Add</i>	5.22	
22 07 19 00-0043 2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0044 LF 1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.52	2.79
<i>For Single Layer Of Felt Finish, Add</i>	0.82	
<i>For Work In Restricted Working Space, Add</i>	2.31	
22 07 19 00-0045 LF 3/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	15.79	2.79
<i>For Single Layer Of Felt Finish, Add</i>	0.85	
<i>For Work In Restricted Working Space, Add</i>	2.31	
22 07 19 00-0046 LF 1" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	16.45	2.87
<i>For Single Layer Of Felt Finish, Add</i>	0.91	
<i>For Work In Restricted Working Space, Add</i>	2.34	
22 07 19 00-0047 LF 1-1/4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.03	2.87
<i>For Single Layer Of Felt Finish, Add</i>	0.96	
<i>For Work In Restricted Working Space, Add</i>	2.37	
22 07 19 00-0048 LF 1-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	17.65	2.95
<i>For Single Layer Of Felt Finish, Add</i>	1.01	
<i>For Work In Restricted Working Space, Add</i>	2.40	
22 07 19 00-0049 LF 2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	18.33	3.03
<i>For Single Layer Of Felt Finish, Add</i>	1.05	
<i>For Work In Restricted Working Space, Add</i>	2.49	
22 07 19 00-0050 LF 2-1/2" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.37	3.11
<i>For Single Layer Of Felt Finish, Add</i>	1.13	
<i>For Work In Restricted Working Space, Add</i>	2.57	
22 07 19 00-0051 LF 3" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.51	3.27
<i>For Single Layer Of Felt Finish, Add</i>	1.22	
<i>For Work In Restricted Working Space, Add</i>	2.66	
22 07 19 00-0052 LF 4" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.68	3.44
<i>For Single Layer Of Felt Finish, Add</i>	1.40	
<i>For Work In Restricted Working Space, Add</i>	2.81	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0053 LF 6" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	26.72	4.04
For Single Layer Of Felt Finish, Add	1.63	
For Work In Restricted Working Space, Add	3.37	
22 07 19 00-0054 LF 8" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.98	4.27
For Single Layer Of Felt Finish, Add	2.01	
For Work In Restricted Working Space, Add	3.56	
22 07 19 00-0055 LF 10" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	37.08	5.10
For Single Layer Of Felt Finish, Add	2.40	
For Work In Restricted Working Space, Add	4.26	
22 07 19 00-0056 LF 12" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	42.13	6.12
For Single Layer Of Felt Finish, Add	2.64	
For Work In Restricted Working Space, Add	5.10	
22 07 19 00-0057 LF 14" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	52.13	6.67
For Single Layer Of Felt Finish, Add	2.98	
For Work In Restricted Working Space, Add	7.11	
22 07 19 00-0058 LF 16" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	56.07	7.82
For Single Layer Of Felt Finish, Add	3.40	
For Work In Restricted Working Space, Add	7.11	
22 07 19 00-0059 LF 18" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	63.35	8.22
For Single Layer Of Felt Finish, Add	4.04	
For Work In Restricted Working Space, Add	7.47	
22 07 19 00-0060 LF 20" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	71.60	9.38
For Single Layer Of Felt Finish, Add	4.53	
For Work In Restricted Working Space, Add	8.54	
22 07 19 00-0061 LF 24" Diameter Pipe, 2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	82.21	11.35
For Single Layer Of Felt Finish, Add	5.02	
For Work In Restricted Working Space, Add	10.31	
22 07 19 00-0062 2-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0063 LF 1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	19.77	3.27
For Single Layer Of Felt Finish, Add	1.14	
For Work In Restricted Working Space, Add	2.67	
22 07 19 00-0064 LF 3/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	20.14	3.27
For Single Layer Of Felt Finish, Add	1.18	
For Work In Restricted Working Space, Add	2.67	
22 07 19 00-0065 LF 1" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.10	3.27
For Single Layer Of Felt Finish, Add	1.27	
For Work In Restricted Working Space, Add	2.71	
22 07 19 00-0066 LF 1-1/4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.83	3.36
For Single Layer Of Felt Finish, Add	1.34	
For Work In Restricted Working Space, Add	2.73	
22 07 19 00-0067 LF 1-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.61	3.36
For Single Layer Of Felt Finish, Add	1.41	
For Work In Restricted Working Space, Add	2.75	
22 07 19 00-0068 LF 2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.55	3.52
For Single Layer Of Felt Finish, Add	1.47	
For Work In Restricted Working Space, Add	2.86	
22 07 19 00-0069 LF 2-1/2" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.04	3.60
For Single Layer Of Felt Finish, Add	1.59	
For Work In Restricted Working Space, Add	2.96	
22 07 19 00-0070 LF 3" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	26.36	3.77
For Single Layer Of Felt Finish, Add	1.69	
For Work In Restricted Working Space, Add	3.07	
22 07 19 00-0071 LF 4" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	29.56	3.94
For Single Layer Of Felt Finish, Add	1.97	
For Work In Restricted Working Space, Add	3.23	
22 07 19 00-0072 LF 6" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	33.97	4.18
For Single Layer Of Felt Finish, Add	2.28	
For Work In Restricted Working Space, Add	3.67	
22 07 19 00-0073 LF 8" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	47.45	4.99
For Single Layer Of Felt Finish, Add	3.55	
For Work In Restricted Working Space, Add	4.10	
22 07 19 00-0074 LF 10" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	57.11	5.74
For Single Layer Of Felt Finish, Add	4.34	
For Work In Restricted Working Space, Add	4.73	
22 07 19 00-0075 LF 12" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	63.61	7.13
For Single Layer Of Felt Finish, Add	4.62	
For Work In Restricted Working Space, Add	5.87	
22 07 19 00-0076 LF 14" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	72.52	7.86
For Single Layer Of Felt Finish, Add	5.37	
For Work In Restricted Working Space, Add	6.41	
22 07 19 00-0077 LF 16" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	83.67	10.00
For Single Layer Of Felt Finish, Add	5.92	
For Work In Restricted Working Space, Add	8.19	
22 07 19 00-0078 LF 18" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	90.52	10.49
For Single Layer Of Felt Finish, Add	6.49	
For Work In Restricted Working Space, Add	8.60	
22 07 19 00-0079 LF 20" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	102.56	11.96
For Single Layer Of Felt Finish, Add	7.33	
For Work In Restricted Working Space, Add	9.83	
22 07 19 00-0080 LF 24" Diameter Pipe, 2-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	119.82	14.45
For Single Layer Of Felt Finish, Add	8.42	
For Work In Restricted Working Space, Add	11.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0081 3" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0082 LF 1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	21.77	3.62
For Single Layer Of Felt Finish, Add	1.25	
For Work In Restricted Working Space, Add	2.95	
22 07 19 00-0083 LF 3/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	22.18	3.62
For Single Layer Of Felt Finish, Add	1.30	
For Work In Restricted Working Space, Add	2.95	
22 07 19 00-0084 LF 1" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.19	3.65
For Single Layer Of Felt Finish, Add	1.39	
For Work In Restricted Working Space, Add	2.98	
22 07 19 00-0085 LF 1-1/4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	24.00	3.67
For Single Layer Of Felt Finish, Add	1.47	
For Work In Restricted Working Space, Add	3.00	
22 07 19 00-0086 LF 1-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	24.88	3.71
For Single Layer Of Felt Finish, Add	1.55	
For Work In Restricted Working Space, Add	3.03	
22 07 19 00-0087 LF 2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.87	3.86
For Single Layer Of Felt Finish, Add	1.61	
For Work In Restricted Working Space, Add	3.15	
22 07 19 00-0088 LF 2-1/2" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.49	3.99
For Single Layer Of Felt Finish, Add	1.75	
For Work In Restricted Working Space, Add	3.25	
22 07 19 00-0089 LF 3" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.95	4.14
For Single Layer Of Felt Finish, Add	1.86	
For Work In Restricted Working Space, Add	3.37	
22 07 19 00-0090 LF 4" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	32.47	4.37
For Single Layer Of Felt Finish, Add	2.16	
For Work In Restricted Working Space, Add	3.56	
22 07 19 00-0091 LF 6" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	37.31	4.95
For Single Layer Of Felt Finish, Add	2.50	
For Work In Restricted Working Space, Add	4.04	
22 07 19 00-0092 LF 8" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	52.10	5.52
For Single Layer Of Felt Finish, Add	3.89	
For Work In Restricted Working Space, Add	4.50	
22 07 19 00-0093 LF 10" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	62.71	6.37
For Single Layer Of Felt Finish, Add	4.77	
For Work In Restricted Working Space, Add	5.20	
22 07 19 00-0094 LF 12" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	69.86	7.92
For Single Layer Of Felt Finish, Add	5.08	
For Work In Restricted Working Space, Add	6.46	
22 07 19 00-0095 LF 14" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	79.64	8.65
For Single Layer Of Felt Finish, Add	5.89	
For Work In Restricted Working Space, Add	7.05	
22 07 19 00-0096 LF 16" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	91.90	11.05
For Single Layer Of Felt Finish, Add	6.50	
For Work In Restricted Working Space, Add	9.01	
22 07 19 00-0097 LF 18" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	99.43	11.61
For Single Layer Of Felt Finish, Add	7.13	
For Work In Restricted Working Space, Add	9.46	
22 07 19 00-0098 LF 20" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	112.65	13.27
For Single Layer Of Felt Finish, Add	8.04	
For Work In Restricted Working Space, Add	10.82	
22 07 19 00-0099 LF 24" Diameter Pipe, 3" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	131.59	16.03
For Single Layer Of Felt Finish, Add	9.24	
For Work In Restricted Working Space, Add	13.07	
22 07 19 00-0100 3-1/2" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0101 LF 1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.33	3.94
For Single Layer Of Felt Finish, Add	1.32	
For Work In Restricted Working Space, Add	3.23	
22 07 19 00-0102 LF 3/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	23.81	3.94
For Single Layer Of Felt Finish, Add	1.37	
For Work In Restricted Working Space, Add	3.23	
22 07 19 00-0103 LF 1" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	25.34	3.94
For Single Layer Of Felt Finish, Add	1.52	
For Work In Restricted Working Space, Add	3.25	
22 07 19 00-0104 LF 1-1/4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	26.19	4.02
For Single Layer Of Felt Finish, Add	1.60	
For Work In Restricted Working Space, Add	3.27	
22 07 19 00-0105 LF 1-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.19	4.02
For Single Layer Of Felt Finish, Add	1.69	
For Work In Restricted Working Space, Add	3.32	
22 07 19 00-0106 LF 2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.23	4.18
For Single Layer Of Felt Finish, Add	1.76	
For Work In Restricted Working Space, Add	3.43	
22 07 19 00-0107 LF 2-1/2" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.01	4.34
For Single Layer Of Felt Finish, Add	1.91	
For Work In Restricted Working Space, Add	3.55	
22 07 19 00-0108 LF 3" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	31.48	4.51
For Single Layer Of Felt Finish, Add	2.02	
For Work In Restricted Working Space, Add	3.68	

22 Plumbing
22 07 Plumbing Insulation
22 07 19 Plumbing Piping Insulation



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0109	LF		4" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	35.49	4.75
			<i>For Single Layer Of Felt Finish, Add</i>	2.37	
			<i>For Work In Restricted Working Space, Add</i>	3.89	
22 07 19 00-0110	LF		6" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	40.75	5.41
			<i>For Single Layer Of Felt Finish, Add</i>	2.74	
			<i>For Work In Restricted Working Space, Add</i>	4.41	
22 07 19 00-0111	LF		8" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	56.91	5.98
			<i>For Single Layer Of Felt Finish, Add</i>	4.26	
			<i>For Work In Restricted Working Space, Add</i>	4.91	
22 07 19 00-0112	LF		10" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	68.53	6.88
			<i>For Single Layer Of Felt Finish, Add</i>	5.21	
			<i>For Work In Restricted Working Space, Add</i>	5.67	
22 07 19 00-0113	LF		12" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	76.33	8.60
			<i>For Single Layer Of Felt Finish, Add</i>	5.55	
			<i>For Work In Restricted Working Space, Add</i>	7.05	
22 07 19 00-0114	LF		14" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	87.04	9.42
			<i>For Single Layer Of Felt Finish, Add</i>	6.45	
			<i>For Work In Restricted Working Space, Add</i>	7.69	
22 07 19 00-0115	LF		16" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	100.44	11.96
			<i>For Single Layer Of Felt Finish, Add</i>	7.11	
			<i>For Work In Restricted Working Space, Add</i>	9.83	
22 07 19 00-0116	LF		18" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	108.62	12.61
			<i>For Single Layer Of Felt Finish, Add</i>	7.79	
			<i>For Work In Restricted Working Space, Add</i>	10.32	
22 07 19 00-0117	LF		20" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	123.11	14.42
			<i>For Single Layer Of Felt Finish, Add</i>	8.79	
			<i>For Work In Restricted Working Space, Add</i>	11.81	
22 07 19 00-0118	LF		24" Diameter Pipe, 3-1/2" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	143.79	17.37
			<i>For Single Layer Of Felt Finish, Add</i>	10.11	
			<i>For Work In Restricted Working Space, Add</i>	14.25	
22 07 19 00-0119			4" Thick Fiberglass Pipe Insulation (22 07 19 00-0001)		
22 07 19 00-0120	LF		1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	26.65	4.42
			<i>For Single Layer Of Felt Finish, Add</i>	1.54	
			<i>For Work In Restricted Working Space, Add</i>	3.59	
22 07 19 00-0121	LF		3/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	27.17	4.42
			<i>For Single Layer Of Felt Finish, Add</i>	1.60	
			<i>For Work In Restricted Working Space, Add</i>	3.59	
22 07 19 00-0122	LF		1" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	28.45	4.42
			<i>For Single Layer Of Felt Finish, Add</i>	1.71	
			<i>For Work In Restricted Working Space, Add</i>	3.65	
22 07 19 00-0123	LF		1-1/4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	29.52	4.51
			<i>For Single Layer Of Felt Finish, Add</i>	1.81	
			<i>For Work In Restricted Working Space, Add</i>	3.69	
22 07 19 00-0124	LF		1-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	30.86	4.67
			<i>For Single Layer Of Felt Finish, Add</i>	1.91	
			<i>For Work In Restricted Working Space, Add</i>	3.81	
22 07 19 00-0125	LF		2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	32.03	4.83
			<i>For Single Layer Of Felt Finish, Add</i>	1.99	
			<i>For Work In Restricted Working Space, Add</i>	3.93	
22 07 19 00-0126	LF		2-1/2" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	33.76	4.83
			<i>For Single Layer Of Felt Finish, Add</i>	2.15	
			<i>For Work In Restricted Working Space, Add</i>	3.99	
22 07 19 00-0127	LF		3" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	35.59	5.07
			<i>For Single Layer Of Felt Finish, Add</i>	2.29	
			<i>For Work In Restricted Working Space, Add</i>	4.14	
22 07 19 00-0128	LF		4" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	39.90	5.33
			<i>For Single Layer Of Felt Finish, Add</i>	2.66	
			<i>For Work In Restricted Working Space, Add</i>	4.37	
22 07 19 00-0129	LF		6" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	45.83	6.06
			<i>For Single Layer Of Felt Finish, Add</i>	3.08	
			<i>For Work In Restricted Working Space, Add</i>	4.95	
22 07 19 00-0130	LF		8" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	64.02	6.55
			<i>For Single Layer Of Felt Finish, Add</i>	4.79	
			<i>For Work In Restricted Working Space, Add</i>	5.52	
22 07 19 00-0131	LF		10" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	77.09	7.78
			<i>For Single Layer Of Felt Finish, Add</i>	5.86	
			<i>For Work In Restricted Working Space, Add</i>	6.38	
22 07 19 00-0132	LF		12" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	85.89	9.66
			<i>For Single Layer Of Felt Finish, Add</i>	6.24	
			<i>For Work In Restricted Working Space, Add</i>	7.93	
22 07 19 00-0133	LF		14" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	97.94	10.57
			<i>For Single Layer Of Felt Finish, Add</i>	7.25	
			<i>For Work In Restricted Working Space, Add</i>	8.66	
22 07 19 00-0134	LF		16" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	113.02	13.52
			<i>For Single Layer Of Felt Finish, Add</i>	7.99	
			<i>For Work In Restricted Working Space, Add</i>	11.07	
22 07 19 00-0135	LF		18" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	122.17	14.17
			<i>For Single Layer Of Felt Finish, Add</i>	8.77	
			<i>For Work In Restricted Working Space, Add</i>	11.60	
22 07 19 00-0136	LF		20" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	136.33	16.22
			<i>For Single Layer Of Felt Finish, Add</i>	9.67	
			<i>For Work In Restricted Working Space, Add</i>	13.28	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0137 LF 24" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	161.79	19.58
<i>For Single Layer Of Felt Finish, Add</i>	11.37	
<i>For Work In Restricted Working Space, Add</i>	16.04	
22 07 19 00-0138 LF 26" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	183.20	23.10
<i>For Single Layer Of Felt Finish, Add</i>	12.62	
<i>For Work In Restricted Working Space, Add</i>	18.90	
22 07 19 00-0139 LF 28" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	204.05	27.19
<i>For Single Layer Of Felt Finish, Add</i>	13.63	
<i>For Work In Restricted Working Space, Add</i>	22.26	
22 07 19 00-0140 LF 30" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	226.83	32.12
<i>For Single Layer Of Felt Finish, Add</i>	14.59	
<i>For Work In Restricted Working Space, Add</i>	26.37	
22 07 19 00-0141 LF 36" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	269.61	40.82
<i>For Single Layer Of Felt Finish, Add</i>	16.57	
<i>For Work In Restricted Working Space, Add</i>	33.53	
22 07 19 00-0142 LF 42" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	312.39	49.72
<i>For Single Layer Of Felt Finish, Add</i>	18.56	
<i>For Work In Restricted Working Space, Add</i>	40.69	
22 07 19 00-0143 LF 44" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	333.06	54.64
<i>For Single Layer Of Felt Finish, Add</i>	19.28	
<i>For Work In Restricted Working Space, Add</i>	44.84	
22 07 19 00-0144 LF 46" Diameter Pipe, 4" Thick, Fiberglass Insulation With All Service Jacket (ASJ)	352.21	58.81
<i>For Single Layer Of Felt Finish, Add</i>	20.05	
<i>For Work In Restricted Working Space, Add</i>	48.38	
22 07 19 00-0145 Foamglas Pipe Insulation, Rigid, Closed Cell <small>(22 07 19)</small>		
<small>Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint.</small>		
22 07 19 00-0146 1" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0145)</small>		
22 07 19 00-0147 LF 1/2" Diameter Pipe, 1" Thick Foamglas Insulation	14.45	4.00
<i>For Work In Restricted Working Space, Add</i>	3.63	
22 07 19 00-0148 LF 3/4" Diameter Pipe, 1" Thick Foamglas Insulation	15.05	4.00
<i>For Work In Restricted Working Space, Add</i>	3.63	
22 07 19 00-0149 LF 1" Diameter Pipe, 1" Thick Foamglas Insulation	15.82	4.06
<i>For Work In Restricted Working Space, Add</i>	3.68	
22 07 19 00-0150 LF 1-1/4" Diameter Pipe, 1" Thick Foamglas Insulation	16.20	4.11
<i>For Work In Restricted Working Space, Add</i>	3.74	
22 07 19 00-0151 LF 1-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	16.77	4.17
<i>For Work In Restricted Working Space, Add</i>	3.79	
22 07 19 00-0152 LF 2" Diameter Pipe, 1" Thick Foamglas Insulation	17.88	4.29
<i>For Work In Restricted Working Space, Add</i>	3.90	
22 07 19 00-0153 LF 2-1/2" Diameter Pipe, 1" Thick Foamglas Insulation	19.26	4.46
<i>For Work In Restricted Working Space, Add</i>	4.06	
22 07 19 00-0154 LF 3" Diameter Pipe, 1" Thick Foamglas Insulation	20.78	4.58
<i>For Work In Restricted Working Space, Add</i>	4.16	
22 07 19 00-0155 LF 4" Diameter Pipe, 1" Thick Foamglas Insulation	24.03	4.92
<i>For Work In Restricted Working Space, Add</i>	4.48	
22 07 19 00-0156 LF 6" Diameter Pipe, 1" Thick Foamglas Insulation	30.60	5.56
<i>For Work In Restricted Working Space, Add</i>	5.05	
22 07 19 00-0157 1-1/2" Thick Foamglas Pipe Insulation <small>(22 07 19 00-0145)</small>		
22 07 19 00-0158 LF 1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	17.12	4.43
<i>For Work In Restricted Working Space, Add</i>	3.90	
22 07 19 00-0159 LF 3/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	17.50	4.43
<i>For Work In Restricted Working Space, Add</i>	3.90	
22 07 19 00-0160 LF 1" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	18.06	4.49
<i>For Work In Restricted Working Space, Add</i>	3.95	
22 07 19 00-0161 LF 1-1/4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	18.50	4.55
<i>For Work In Restricted Working Space, Add</i>	4.00	
22 07 19 00-0162 LF 1-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	18.91	4.61
<i>For Work In Restricted Working Space, Add</i>	4.06	
22 07 19 00-0163 LF 2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	20.51	4.76
<i>For Work In Restricted Working Space, Add</i>	4.19	
22 07 19 00-0164 LF 2-1/2" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	23.24	4.94
<i>For Work In Restricted Working Space, Add</i>	4.35	
22 07 19 00-0165 LF 3" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	25.68	5.08
<i>For Work In Restricted Working Space, Add</i>	4.48	
22 07 19 00-0166 LF 4" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	29.10	5.42
<i>For Work In Restricted Working Space, Add</i>	4.77	
22 07 19 00-0167 LF 6" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	34.27	6.13
<i>For Work In Restricted Working Space, Add</i>	5.40	
22 07 19 00-0168 LF 8" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	38.32	6.84
<i>For Work In Restricted Working Space, Add</i>	6.02	
22 07 19 00-0169 LF 10" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	46.50	7.89
<i>For Work In Restricted Working Space, Add</i>	6.94	
22 07 19 00-0170 LF 12" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	55.15	9.81
<i>For Work In Restricted Working Space, Add</i>	8.62	
22 07 19 00-0171 LF 14" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	61.30	10.31
<i>For Work In Restricted Working Space, Add</i>	9.37	

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0172 LF 16" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	67.47	11.52
<i>For Work In Restricted Working Space, Add</i>	10.47	
22 07 19 00-0173 LF 18" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	76.46	13.62
<i>For Work In Restricted Working Space, Add</i>	12.39	
22 07 19 00-0174 LF 20" Diameter Pipe, 1-1/2" Thick Foamglas Insulation	85.41	15.08
<i>For Work In Restricted Working Space, Add</i>	13.71	
22 07 19 00-0175 LF 24" Diameter Pipe, 1-1/2" Thick Fiberglass Insulation	106.75	16.71
<i>For Work In Restricted Working Space, Add</i>	15.19	
22 07 19 00-0176 2" Thick Foamglas Pipe Insulation (22 07 19 00-0145)		
22 07 19 00-0177 LF 1/2" Diameter Pipe, 2" Thick Foamglas Insulation	19.26	4.58
<i>For Work In Restricted Working Space, Add</i>	4.16	
22 07 19 00-0178 LF 3/4" Diameter Pipe, 2" Thick Foamglas Insulation	19.85	4.58
<i>For Work In Restricted Working Space, Add</i>	4.16	
22 07 19 00-0179 LF 1" Diameter Pipe, 2" Thick Foamglas Insulation	20.59	4.63
<i>For Work In Restricted Working Space, Add</i>	4.21	
22 07 19 00-0180 LF 1-1/4" Diameter Pipe, 2" Thick Foamglas Insulation	21.69	4.69
<i>For Work In Restricted Working Space, Add</i>	4.27	
22 07 19 00-0181 LF 1-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	22.80	4.75
<i>For Work In Restricted Working Space, Add</i>	4.32	
22 07 19 00-0182 LF 2" Diameter Pipe, 2" Thick Foamglas Insulation	25.51	4.92
<i>For Work In Restricted Working Space, Add</i>	4.48	
22 07 19 00-0183 LF 2-1/2" Diameter Pipe, 2" Thick Foamglas Insulation	26.75	5.10
<i>For Work In Restricted Working Space, Add</i>	4.64	
22 07 19 00-0184 LF 3" Diameter Pipe, 2" Thick Foamglas Insulation	28.72	5.27
<i>For Work In Restricted Working Space, Add</i>	4.79	
22 07 19 00-0185 LF 4" Diameter Pipe, 2" Thick Foamglas Insulation	32.35	5.56
<i>For Work In Restricted Working Space, Add</i>	5.06	
22 07 19 00-0186 LF 6" Diameter Pipe, 2" Thick Foamglas Insulation	38.72	6.31
<i>For Work In Restricted Working Space, Add</i>	5.74	
22 07 19 00-0187 LF 8" Diameter Pipe, 2" Thick Foamglas Insulation	43.10	7.05
<i>For Work In Restricted Working Space, Add</i>	6.40	
22 07 19 00-0188 LF 10" Diameter Pipe, 2" Thick Foamglas Insulation	52.47	8.11
<i>For Work In Restricted Working Space, Add</i>	7.38	
22 07 19 00-0189 LF 12" Diameter Pipe, 2" Thick Foamglas Insulation	65.00	10.09
<i>For Work In Restricted Working Space, Add</i>	9.17	
22 07 19 00-0190 LF 14" Diameter Pipe, 2" Thick Foamglas Insulation	69.44	11.01
<i>For Work In Restricted Working Space, Add</i>	10.01	
22 07 19 00-0191 LF 16" Diameter Pipe, 2" Thick Foamglas Insulation	82.01	14.08
<i>For Work In Restricted Working Space, Add</i>	12.80	
22 07 19 00-0192 LF 18" Diameter Pipe, 2" Thick Foamglas Insulation	89.45	14.79
<i>For Work In Restricted Working Space, Add</i>	13.44	
22 07 19 00-0193 LF 20" Diameter Pipe, 2" Thick Foamglas Insulation	98.92	16.90
<i>For Work In Restricted Working Space, Add</i>	15.36	
22 07 19 00-0194 LF 24" Diameter Pipe, 2" Thick Foamglas Insulation	124.13	20.42
<i>For Work In Restricted Working Space, Add</i>	18.56	
22 07 19 00-0195 2-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0145)		
22 07 19 00-0196 LF 1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	23.44	4.96
<i>For Work In Restricted Working Space, Add</i>	4.51	
22 07 19 00-0197 LF 3/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	24.42	4.95
<i>For Work In Restricted Working Space, Add</i>	4.51	
22 07 19 00-0198 LF 1" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	25.68	5.03
<i>For Work In Restricted Working Space, Add</i>	4.58	
22 07 19 00-0199 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	26.78	5.07
<i>For Work In Restricted Working Space, Add</i>	4.61	
22 07 19 00-0200 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	27.90	5.12
<i>For Work In Restricted Working Space, Add</i>	4.65	
22 07 19 00-0201 LF 2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	29.92	5.33
<i>For Work In Restricted Working Space, Add</i>	4.85	
22 07 19 00-0202 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	31.85	5.52
<i>For Work In Restricted Working Space, Add</i>	5.01	
22 07 19 00-0203 LF 3" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	34.62	5.70
<i>For Work In Restricted Working Space, Add</i>	5.19	
22 07 19 00-0204 LF 4" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	38.82	6.01
<i>For Work In Restricted Working Space, Add</i>	5.47	
22 07 19 00-0205 LF 6" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	46.46	6.84
<i>For Work In Restricted Working Space, Add</i>	6.22	
22 07 19 00-0206 LF 8" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	51.76	7.63
<i>For Work In Restricted Working Space, Add</i>	6.93	
22 07 19 00-0207 LF 10" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	59.05	8.79
<i>For Work In Restricted Working Space, Add</i>	7.99	
22 07 19 00-0208 LF 12" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	73.53	10.92
<i>For Work In Restricted Working Space, Add</i>	9.93	
22 07 19 00-0209 LF 14" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	76.63	11.93
<i>For Work In Restricted Working Space, Add</i>	10.85	
22 07 19 00-0210 LF 16" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	90.23	15.24
<i>For Work In Restricted Working Space, Add</i>	13.86	
22 07 19 00-0211 LF 18" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	98.18	16.01
<i>For Work In Restricted Working Space, Add</i>	14.55	
22 07 19 00-0212 LF 20" Diameter Pipe, 2-1/2" Thick Foamglas Insulation	112.89	18.29
<i>For Work In Restricted Working Space, Add</i>	16.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0213 LF 24" Diameter Pipe, 2-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	141.46 20.09	22.11
22 07 19 00-0214 3" Thick Foamglas Pipe Insulation (22 07 19 00-0145)		
22 07 19 00-0215 LF 1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.40 4.80	5.28
22 07 19 00-0216 LF 3/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	28.99 4.80	5.28
22 07 19 00-0217 LF 1" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	29.84 4.88	5.37
22 07 19 00-0218 LF 1-1/4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	30.56 4.91	5.40
22 07 19 00-0219 LF 1-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	31.30 4.95	5.45
22 07 19 00-0220 LF 2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	33.66 5.15	5.67
22 07 19 00-0221 LF 2-1/2" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	35.92 5.33	5.87
22 07 19 00-0222 LF 3" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	40.87 5.52	6.07
22 07 19 00-0223 LF 4" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	46.71 5.82	6.39
22 07 19 00-0224 LF 6" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.12 6.62	7.28
22 07 19 00-0225 LF 8" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	57.74 7.37	8.11
22 07 19 00-0226 LF 10" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	68.93 8.50	9.35
22 07 19 00-0227 LF 12" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	79.97 10.57	11.63
22 07 19 00-0228 LF 14" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	85.59 11.54	12.68
22 07 19 00-0229 LF 16" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	102.05 14.74	16.22
22 07 19 00-0230 LF 18" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	109.29 15.48	17.03
22 07 19 00-0231 LF 20" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	128.13 17.69	19.46
22 07 19 00-0232 LF 24" Diameter Pipe, 3" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	156.69 21.38	23.52
22 07 19 00-0233 3-1/2" Thick Foamglas Pipe Insulation (22 07 19 00-0145)		
22 07 19 00-0234 LF 1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	34.19 5.82	6.39
22 07 19 00-0235 LF 3/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	34.94 5.82	6.39
22 07 19 00-0236 LF 1" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	35.82 5.86	6.44
22 07 19 00-0237 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	36.68 5.89	6.48
22 07 19 00-0238 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	37.69 5.97	6.56
22 07 19 00-0239 LF 2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.53 6.17	6.80
22 07 19 00-0240 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.40 6.39	7.03
22 07 19 00-0241 LF 3" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	47.99 6.62	7.28
22 07 19 00-0242 LF 4" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	51.40 6.99	7.69
22 07 19 00-0243 LF 6" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	59.18 7.94	8.73
22 07 19 00-0244 LF 8" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	67.34 8.84	9.73
22 07 19 00-0245 LF 10" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	80.60 10.20	11.23
22 07 19 00-0246 LF 12" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	95.13 12.68	13.95
22 07 19 00-0247 LF 14" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	99.12 13.84	15.23
22 07 19 00-0248 LF 16" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	118.63 17.69	19.46
22 07 19 00-0249 LF 18" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	130.54 18.58	20.44
22 07 19 00-0250 LF 20" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	148.62 21.25	23.37
22 07 19 00-0251 LF 24" Diameter Pipe, 3-1/2" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	182.57 25.66	28.22
22 07 19 00-0252 4" Thick Foamglas Pipe Insulation (22 07 19 00-0145)		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0253	LF	1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	41.62 7.15	7.86
22 07 19 00-0254	LF	3/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	42.58 7.15	7.86
22 07 19 00-0255	LF	1" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	43.97 7.27	7.99
22 07 19 00-0256	LF	1-1/4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	45.20 7.35	8.09
22 07 19 00-0257	LF	1-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	46.95 7.59	8.35
22 07 19 00-0258	LF	2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	50.78 7.82	8.60
22 07 19 00-0259	LF	2-1/2" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	54.24 7.94	8.74
22 07 19 00-0260	LF	3" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	56.95 8.24	9.06
22 07 19 00-0261	LF	4" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	62.21 9.18	10.10
22 07 19 00-0262	LF	6" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	72.11 9.86	10.84
22 07 19 00-0263	LF	8" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	81.50 10.69	11.76
22 07 19 00-0264	LF	10" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	93.25 12.71	13.97
22 07 19 00-0265	LF	12" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	108.77 15.78	17.36
22 07 19 00-0266	LF	14" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	118.25 17.24	18.96
22 07 19 00-0267	LF	16" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	140.05 22.04	24.24
22 07 19 00-0268	LF	18" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	156.11 23.09	25.40
22 07 19 00-0269	LF	20" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	174.88 26.43	29.07
22 07 19 00-0270	LF	24" Diameter Pipe, 4" Thick Foamglas Insulation <i>For Work In Restricted Working Space, Add</i>	222.12 31.93	35.13
22 07 19 00-0271		Flexible Polyethylene Tubing Closed Cell Foam Insulation <small>(22 07 19)</small> Note: UV resistant standard temperature (-90 Degree F To +212 Degree F). For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0272		3/8" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0271)</small>		
22 07 19 00-0273	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	5.47 1.47	2.45
22 07 19 00-0274	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	5.48 1.47	2.45
22 07 19 00-0275	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	5.73 1.52	2.54
22 07 19 00-0276	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.00 1.58	2.62
22 07 19 00-0277	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.30 1.60	2.67
22 07 19 00-0278	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.66 1.63	2.71
22 07 19 00-0279	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.81 1.64	2.71
22 07 19 00-0280	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.28 1.64	2.71
22 07 19 00-0281	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.09 1.69	2.79
22 07 19 00-0282	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.44 1.72	2.84
22 07 19 00-0283		1/2" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0271)</small>		
22 07 19 00-0284	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.17 1.60	2.67
22 07 19 00-0285	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.26 1.61	2.67
22 07 19 00-0286	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.39 1.63	2.71
22 07 19 00-0287	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.57 1.64	2.73
22 07 19 00-0288	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.00 1.68	2.79
22 07 19 00-0289	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.39 1.70	2.84
22 07 19 00-0290	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.83 1.73	2.88
22 07 19 00-0291	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.39 1.76	2.92
22 07 19 00-0292	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.35 1.81	3.01



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0293 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	10.40 1.83	3.06
22 07 19 00-0294 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.40 1.86	3.10
22 07 19 00-0295 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.98 1.88	3.14
22 07 19 00-0296 3/4" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0271)</small>		
22 07 19 00-0297 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.00 1.73	2.88
22 07 19 00-0298 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.08 1.76	2.92
22 07 19 00-0299 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.68 1.81	3.01
22 07 19 00-0300 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.95 1.83	3.06
22 07 19 00-0301 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.73 1.88	3.14
22 07 19 00-0302 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.60 1.91	3.19
22 07 19 00-0303 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.99 1.92	3.20
22 07 19 00-0304 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.66 1.94	3.23
22 07 19 00-0305 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.89 1.99	3.31
22 07 19 00-0306 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.97 2.01	3.36
22 07 19 00-0307 LF 3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.61 2.04	3.40
22 07 19 00-0308 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.26 2.06	3.44
22 07 19 00-0309 1" Wall Flexible Polyethylene Tubing Foam Insulation <small>(22 07 19 00-0271)</small>		
22 07 19 00-0310 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.11 1.91	3.19
22 07 19 00-0311 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.38 1.94	3.23
22 07 19 00-0312 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.29 1.99	3.31
22 07 19 00-0313 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.55 2.01	3.36
22 07 19 00-0314 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.00 2.06	3.44
22 07 19 00-0315 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.66 2.12	3.53
22 07 19 00-0316 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.92 2.14	3.57
22 07 19 00-0317 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	13.36 2.17	3.61
22 07 19 00-0318 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	14.32 2.22	3.70
22 07 19 00-0319 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyethylene Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.20 2.25	3.75
22 07 19 00-0320 Flexible Elastomeric Tubing Closed Cell Foam Insulation <small>(22 07 19)</small>		
Note: For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0321 3/8" Wall Flexible Elastomeric Tubing Foam Insulation <small>(22 07 19 00-0320)</small>		
22 07 19 00-0322 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.20 1.47	2.45
22 07 19 00-0323 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.41 1.47	2.45
22 07 19 00-0324 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.71 1.52	2.54
22 07 19 00-0325 LF 5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.93 1.55	2.58
22 07 19 00-0326 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.15 1.58	2.62
22 07 19 00-0327 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.48 1.60	2.67
22 07 19 00-0328 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.76 1.63	2.71
22 07 19 00-0329 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.13 1.64	2.71
22 07 19 00-0330 LF 1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.45 1.64	2.71
22 07 19 00-0331 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	8.77 1.65	2.75
22 07 19 00-0332 LF 2" IPS (2-3/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	9.16 1.68	2.79



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0333	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.56 1.69	2.79
22 07 19 00-0334	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.82 1.70	2.84
22 07 19 00-0335	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.21 1.72	2.84
22 07 19 00-0336	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.15 1.73	2.88
22 07 19 00-0337	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.21 1.76	2.92
22 07 19 00-0338	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 3/8" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.45 1.77	2.94
22 07 19 00-0339		1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0320)		
22 07 19 00-0340	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.32 1.60	2.67
22 07 19 00-0341	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.47 1.61	2.67
22 07 19 00-0342	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.63 1.63	2.71
22 07 19 00-0343	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.92 1.64	2.71
22 07 19 00-0344	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.16 1.64	2.71
22 07 19 00-0345	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.61 1.68	2.79
22 07 19 00-0346	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.10 1.70	2.84
22 07 19 00-0347	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.51 1.73	2.88
22 07 19 00-0348	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.00 1.74	2.91
22 07 19 00-0349	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.38 1.76	2.92
22 07 19 00-0350	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.94 1.78	2.97
22 07 19 00-0351	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.84 1.81	3.01
22 07 19 00-0352	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.53 1.82	3.04
22 07 19 00-0353	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.11 1.83	3.06
22 07 19 00-0354	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.53 1.85	3.08
22 07 19 00-0355	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.87 1.86	3.10
22 07 19 00-0356	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.68 1.88	3.14
22 07 19 00-0357	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.08 1.90	3.16
22 07 19 00-0358	LF	5" I.D. (5-9/16" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.90 1.91	3.19
22 07 19 00-0359	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.89 1.96	3.27
22 07 19 00-0360	LF	8" IPS (8-5/8" O.D.) Diameter Pipe, 1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	23.14 2.01	3.36
22 07 19 00-0361		3/4" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0320)		
22 07 19 00-0362	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.94 1.73	2.88
22 07 19 00-0363	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.29 1.76	2.92
22 07 19 00-0364	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.77 1.81	3.01
22 07 19 00-0365	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.13 1.82	3.04
22 07 19 00-0366	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.27 1.83	3.06
22 07 19 00-0367	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.07 1.88	3.14
22 07 19 00-0368	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.79 1.91	3.19
22 07 19 00-0369	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.50 1.94	3.23
22 07 19 00-0370	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.72 1.94	3.23
22 07 19 00-0371	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.98 1.95	3.25
22 07 19 00-0372	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.91 1.96	3.27
22 07 19 00-0373	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.33 1.99	3.31



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0374	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.40 2.00	3.33
22 07 19 00-0375	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.12 2.01	3.36
22 07 19 00-0376	LF		3" IPS (3-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.24 2.03	3.38
22 07 19 00-0377	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	17.65 2.04	3.40
22 07 19 00-0378	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	19.32 2.06	3.44
22 07 19 00-0379	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.70 2.08	3.46
22 07 19 00-0380	LF		5" IPS (5-9/16" O.D.) Diameter Pipe, 3/4" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.04 2.09	3.48
22 07 19 00-0381	LF		6" IPS (6-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.45 2.12	3.53
22 07 19 00-0382	LF		8" IPS (8-5/8" O.D.) Diameter Pipe, 3/4" Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.28 2.17	3.61
22 07 19 00-0383			1" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0320)		
22 07 19 00-0384	LF		1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.01 1.91	3.18
22 07 19 00-0385	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.47 1.94	3.23
22 07 19 00-0386	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	11.99 1.99	3.31
22 07 19 00-0387	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	12.57 2.00	3.33
22 07 19 00-0388	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.06 2.01	3.36
22 07 19 00-0389	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	13.80 2.06	3.44
22 07 19 00-0390	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.07 2.12	3.53
22 07 19 00-0391	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	15.72 2.14	3.53
22 07 19 00-0392	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	16.68 2.16	3.57
22 07 19 00-0393	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.00 2.17	3.61
22 07 19 00-0394	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	19.08 2.20	3.66
22 07 19 00-0395	LF		2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	20.69 2.22	3.70
22 07 19 00-0396	LF		2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.80 2.24	3.72
22 07 19 00-0397	LF		3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	23.38 2.25	3.75
22 07 19 00-0398	LF		3" IPS (3-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.47 2.26	3.77
22 07 19 00-0399	LF		3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	24.97 2.27	3.79
22 07 19 00-0400	LF		4" I.D. (4-1/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	28.91 2.32	3.88
22 07 19 00-0401	LF		4" IPS (4-1/2" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.59 2.35	3.92
22 07 19 00-0402	LF		5" IPS (5-9/16" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	35.64 2.37	3.96
22 07 19 00-0403	LF		6" IPS (6-5/8" O.D.) Diameter Pipe, 1" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	39.82 2.42	4.05
22 07 19 00-0404			1-1/2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0320)		
22 07 19 00-0405	LF		3/8" I.D. (1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.32 2.14	3.56
22 07 19 00-0406	LF		1/2" I.D. (5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.86 2.19	3.63
22 07 19 00-0407	LF		5/8" I.D. (3/4" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.45 2.20	3.66
22 07 19 00-0408	LF		3/4" I.D. (7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	22.06 2.21	3.69
22 07 19 00-0409	LF		1" I.D. (1-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	22.72 2.26	3.78
22 07 19 00-0410	LF		1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	23.82 2.34	3.92
22 07 19 00-0411	LF		1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	25.78 2.37	3.86
22 07 19 00-0412	LF		1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	27.42 2.39	3.95
22 07 19 00-0413	LF		2" I.D. (2-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	28.40 2.42	4.05
22 07 19 00-0414	LF		2" IPS (2-3/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	31.71 2.45	4.10



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0415	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	34.86 2.48	4.15
22 07 19 00-0416	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	36.32 2.49	4.16
22 07 19 00-0417	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	37.77 2.51	4.17
22 07 19 00-0418	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	39.50 2.52	4.20
22 07 19 00-0419	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	40.57 2.53	4.21
22 07 19 00-0420	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	46.28 2.61	4.37
22 07 19 00-0421	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	49.35 2.66	4.43
22 07 19 00-0422	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	57.02 2.70	4.50
22 07 19 00-0423	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 1-1/2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	64.50 2.78	4.64
22 07 19 00-0424		2" Wall Flexible Elastomeric Tubing Foam Insulation (22 07 19 00-0320)		
22 07 19 00-0425	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	32.72 2.36	3.94
22 07 19 00-0426	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	34.21 2.41	3.99
22 07 19 00-0427	LF	5/8" I.D. (3/4" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	37.11 2.42	4.03
22 07 19 00-0428	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	38.08 2.42	4.06
22 07 19 00-0429	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	40.34 2.48	4.14
22 07 19 00-0430	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	42.87 2.60	4.33
22 07 19 00-0431	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	44.59 2.62	4.23
22 07 19 00-0432	LF	1-1/2" IPS (1-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	47.57 2.66	4.37
22 07 19 00-0433	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	50.43 2.72	4.52
22 07 19 00-0434	LF	2" IPS (2-3/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	52.37 2.74	4.58
22 07 19 00-0435	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	56.49 2.76	4.64
22 07 19 00-0436	LF	2-1/2" IPS (2-7/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	56.94 2.78	4.64
22 07 19 00-0437	LF	3" I.D. (3-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	60.83 2.80	4.65
22 07 19 00-0438	LF	3" IPS (3-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	63.53 2.81	4.67
22 07 19 00-0439	LF	3-1/2" I.D. (3-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	66.43 2.81	4.69
22 07 19 00-0440	LF	4" I.D. (4-1/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	75.63 2.94	4.91
22 07 19 00-0441	LF	4" IPS (4-1/2" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	81.00 3.00	5.01
22 07 19 00-0442	LF	5" IPS (5-9/16" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	82.40 3.07	5.11
22 07 19 00-0443	LF	6" IPS (6-5/8" O.D.) Diameter Pipe, 2" Wall Flexible Elastomeric Tubing Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	93.63 3.19	5.32
22 07 19 00-0444		Flexible Polyolefin Tubing Closed Cell Foam Insulation (22 07 19) Note: UV stabilized, work temperature (-110 degree F to +210 degree F) 0 water vapor transmission. For elbow fittings/valves add 1 LF for each fitting/valve, for tee fittings add 2 LF for each fitting.		
22 07 19 00-0445		3/8" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0444)		
22 07 19 00-0446	LF	1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	5.38 1.47	2.45
22 07 19 00-0447	LF	3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	5.46 1.47	2.45
22 07 19 00-0448	LF	1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	5.66 1.52	2.54
22 07 19 00-0449	LF	3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	5.94 1.58	2.62
22 07 19 00-0450	LF	1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.11 1.60	2.67
22 07 19 00-0451	LF	1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.42 1.63	2.71
22 07 19 00-0452	LF	1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.66 1.64	2.71
22 07 19 00-0453	LF	2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	6.84 1.64	2.79
22 07 19 00-0454	LF	2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation <i>For Work In Restricted Working Space, Add</i>	7.62 1.69	2.79



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0455 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.31 1.72	2.84
22 07 19 00-0456 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/8" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.13 1.76	2.92
22 07 19 00-0457 1/2" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0444)		
22 07 19 00-0458 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	6.09 1.60	2.67
22 07 19 00-0459 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	6.15 1.61	2.67
22 07 19 00-0460 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	6.29 1.63	2.71
22 07 19 00-0461 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	6.48 1.64	2.71
22 07 19 00-0462 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	6.70 1.68	2.79
22 07 19 00-0463 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.04 1.70	2.84
22 07 19 00-0464 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.42 1.73	2.88
22 07 19 00-0465 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.78 1.76	2.92
22 07 19 00-0466 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.61 1.81	3.01
22 07 19 00-0467 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.36 1.83	3.06
22 07 19 00-0468 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 1/2" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.78 1.88	3.14
22 07 19 00-0469 3/4" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0444)		
22 07 19 00-0470 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	6.89 1.73	2.88
22 07 19 00-0471 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.15 1.76	2.92
22 07 19 00-0472 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.45 1.81	3.01
22 07 19 00-0473 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	7.96 1.83	3.06
22 07 19 00-0474 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.41 1.88	3.14
22 07 19 00-0475 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.24 1.91	3.19
22 07 19 00-0476 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.78 1.92	3.19
22 07 19 00-0477 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.40 1.94	3.23
22 07 19 00-0478 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.59 1.99	3.31
22 07 19 00-0479 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.68 2.01	3.36
22 07 19 00-0480 LF 4" I.D. (4-1/8" O.D.) Diameter Pipe, 3/4" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.77 2.06	3.44
22 07 19 00-0481 1" Wall Flexible Polyolefin Tubing Foam Insulation (22 07 19 00-0444)		
22 07 19 00-0482 LF 1/4" I.D. (3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.32 1.91	3.19
22 07 19 00-0483 LF 3/8" I.D. (1/2" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.45 1.94	3.23
22 07 19 00-0484 LF 1/2" I.D. (5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	8.75 1.99	3.31
22 07 19 00-0485 LF 3/4" I.D. (7/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	9.49 2.01	3.36
22 07 19 00-0486 LF 1" I.D. (1-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.09 2.06	3.44
22 07 19 00-0487 LF 1-1/4" I.D. (1-3/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	10.71 2.12	3.53
22 07 19 00-0488 LF 1-1/2" I.D. (1-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	11.31 2.14	3.53
22 07 19 00-0489 LF 2" I.D. (2-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	12.70 2.17	3.61
22 07 19 00-0490 LF 2-1/2" I.D. (2-5/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	14.54 2.22	3.70
22 07 19 00-0491 LF 3" I.D. (3-1/8" O.D.) Diameter Pipe, 1" Wall Polyolefin Tubing Flexible Closed Cell Foam Insulation..... <i>For Work In Restricted Working Space, Add</i>	15.86 2.25	3.75
22 07 19 00-0492 Insulation Protective Jacketing (22 07 19)		
Note: Jacketing only and must be added to insulation prices.		
22 07 19 00-0493 Aluminum Insulation Protective Jacketing With Bands (22 07 19 00-0492)		



MINOR
 CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0494			Aluminum Roll, Insulation Protective Jacketing With Bands (22 07 19 00-0493)		
22 07 19 00-0495	SF		0.006" Aluminum Insulation Jacket With Bands	12.28	5.25
22 07 19 00-0496	SF		0.010" Aluminum Insulation Jacket With Bands	12.48	5.25
22 07 19 00-0497	SF		0.016" Aluminum Insulation Jacket With Bands	12.67	5.25
22 07 19 00-0498	SF		0.020" Aluminum Insulation Jacket With Bands	12.84	5.25
22 07 19 00-0499	SF		0.024" Aluminum Insulation Jacket With Bands	13.00	5.25
22 07 19 00-0500			16 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0493)		
22 07 19 00-0501	LF		1/2" ID, 0.016" Aluminum Insulation Jacketing	6.26	1.49
			<i>For Stucco Embossed, Add</i>	0.00	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0502	LF		3/4" ID, 0.016" Aluminum Insulation Jacketing	6.49	1.52
			<i>For Stucco Embossed, Add</i>	0.00	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0503	LF		1" ID, 0.016" Aluminum Insulation Jacketing	6.72	1.56
			<i>For Stucco Embossed, Add</i>	0.00	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0504	LF		1-1/4" ID, 0.016" Aluminum Insulation Jacketing	6.96	1.60
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0505	LF		1-1/2" ID, 0.016" Aluminum Insulation Jacketing	7.15	1.62
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0506	LF		1-3/4" ID, 0.016" Aluminum Insulation Jacketing	7.33	1.65
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0507	LF		2" ID, 0.016" Aluminum Insulation Jacketing	7.56	1.68
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0508	LF		2-1/4" ID, 0.016" Aluminum Insulation Jacketing	7.80	1.71
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0509	LF		2-1/2" ID, 0.016" Aluminum Insulation Jacketing	8.04	1.75
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0510	LF		2-3/4" ID, 0.016" Aluminum Insulation Jacketing	8.25	1.78
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0511	LF		3" ID, 0.016" Aluminum Insulation Jacketing	8.50	1.82
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0512	LF		3-1/4" ID, 0.016" Aluminum Insulation Jacketing	8.76	1.86
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0513	LF		3-1/2" ID, 0.016" Aluminum Insulation Jacketing	9.02	1.90
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0514	LF		3-3/4" ID, 0.016" Aluminum Insulation Jacketing	9.24	1.94
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0515	LF		4" ID, 0.016" Aluminum Insulation Jacketing	9.52	1.98
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0516	LF		4-1/4" ID, 0.016" Aluminum Insulation Jacketing	9.81	2.03
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0517	LF		4-1/2" ID, 0.016" Aluminum Insulation Jacketing	10.12	2.08
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0518	LF		4-3/4" ID, 0.016" Aluminum Insulation Jacketing	10.37	2.12
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0519	LF		5" ID, 0.016" Aluminum Insulation Jacketing	10.69	2.18
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0520	LF		5-1/4" ID, 0.016" Aluminum Insulation Jacketing	11.02	2.25
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0521	LF		5-1/2" ID, 0.016" Aluminum Insulation Jacketing	11.29	2.30
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0522	LF		5-3/4" ID, 0.016" Aluminum Insulation Jacketing	11.66	2.36
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0523	LF		6" ID, 0.016" Aluminum Insulation Jacketing	12.02	2.43
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0524	LF		6-1/4" ID, 0.016" Aluminum Insulation Jacketing	12.27	2.47
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0525 LF 6-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.51 0.03 0.06	2.50
22 07 19 00-0526 LF 7" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.90 0.03 0.07	2.56
22 07 19 00-0527 LF 7-1/4" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.24 0.03 0.07	2.62
22 07 19 00-0528 LF 7-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.49 0.03 0.07	2.67
22 07 19 00-0529 LF 8" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.86 0.03 0.08	2.71
22 07 19 00-0530 LF 8-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.21 0.03 0.08	2.76
22 07 19 00-0531 LF 9" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.68 0.03 0.08	2.83
22 07 19 00-0532 LF 9-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.07 0.04 0.09	2.88
22 07 19 00-0533 LF 10" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.45 0.04 0.09	2.93
22 07 19 00-0534 LF 10-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.84 0.04 0.10	2.98
22 07 19 00-0535 LF 11" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.36 0.04 0.10	3.06
22 07 19 00-0536 LF 11-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.78 0.04 0.11	3.12
22 07 19 00-0537 LF 12" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.21 0.04 0.11	3.18
22 07 19 00-0538 LF 12-1/2" ID, 0.016" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.77 0.05 0.12	3.27
22 07 19 00-0539 LF 13" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.08 0.05 0.12	3.31
22 07 19 00-0540 LF 14" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.58 0.05 0.13	3.34
22 07 19 00-0541 LF 15" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.21 0.06 0.14	3.41
22 07 19 00-0542 LF 16" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.72 0.06 0.15	3.45
22 07 19 00-0543 LF 17" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.38 0.06 0.16	3.52
22 07 19 00-0544 LF 18" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.79 0.07 0.16	3.56
22 07 19 00-0545 LF 19" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.59 0.07 0.18	3.64
22 07 19 00-0546 LF 20" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.12 0.07 0.18	3.68
22 07 19 00-0547 LF 21" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.81 0.08 0.19	3.77
22 07 19 00-0548 LF 22" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.35 0.08 0.20	3.81
22 07 19 00-0549 LF 23" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.07 0.08 0.21	3.90
22 07 19 00-0550 LF 24" ID, 0.016" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.63 0.09 0.22	3.95
22 07 19 00-0551 20 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0493)		
22 07 19 00-0552 LF 1/2" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	6.93 0.00 0.01	1.64

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0553	LF		3/4" ID, 0.020" Aluminum Insulation Jacketing.....	7.20	1.68
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.01	
22 07 19 00-0554	LF		1" ID, 0.020" Aluminum Insulation Jacketing.....	7.48	1.71
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0555	LF		1-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	7.77	1.76
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0556	LF		1-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	7.98	1.78
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0557	LF		1-3/4" ID, 0.020" Aluminum Insulation Jacketing.....	8.20	1.81
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.02	
22 07 19 00-0558	LF		2" ID, 0.020" Aluminum Insulation Jacketing.....	8.46	1.85
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0559	LF		2-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	8.73	1.88
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0560	LF		2-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	9.02	1.92
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.03	
22 07 19 00-0561	LF		2-3/4" ID, 0.020" Aluminum Insulation Jacketing.....	9.25	1.96
			<i>For Stucco Embossed, Add</i>	0.01	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0562	LF		3" ID, 0.020" Aluminum Insulation Jacketing.....	9.56	2.00
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0563	LF		3-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	9.85	2.04
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0564	LF		3-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	10.17	2.09
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.04	
22 07 19 00-0565	LF		3-3/4" ID, 0.020" Aluminum Insulation Jacketing.....	10.42	2.13
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0566	LF		4" ID, 0.020" Aluminum Insulation Jacketing.....	10.74	2.18
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0567	LF		4-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	11.08	2.24
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.05	
22 07 19 00-0568	LF		4-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	11.43	2.30
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0569	LF		4-3/4" ID, 0.020" Aluminum Insulation Jacketing.....	11.72	2.34
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0570	LF		5" ID, 0.020" Aluminum Insulation Jacketing.....	12.08	2.41
			<i>For Stucco Embossed, Add</i>	0.02	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0571	LF		5-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	12.47	2.47
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.06	
22 07 19 00-0572	LF		5-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	12.78	2.52
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0573	LF		5-3/4" ID, 0.020" Aluminum Insulation Jacketing.....	13.20	2.60
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0574	LF		6" ID, 0.020" Aluminum Insulation Jacketing.....	13.62	2.67
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.07	
22 07 19 00-0575	LF		6-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	13.90	2.71
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0576	LF		6-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	14.17	2.75
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0577	LF		7" ID, 0.020" Aluminum Insulation Jacketing.....	14.65	2.82
			<i>For Stucco Embossed, Add</i>	0.03	
			<i>For Corrugated, Add</i>	0.08	
22 07 19 00-0578	LF		7-1/4" ID, 0.020" Aluminum Insulation Jacketing.....	15.04	2.88
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0579	LF		7-1/2" ID, 0.020" Aluminum Insulation Jacketing.....	15.33	2.93
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.09	
22 07 19 00-0580	LF		8" ID, 0.020" Aluminum Insulation Jacketing.....	15.76	2.98
			<i>For Stucco Embossed, Add</i>	0.04	
			<i>For Corrugated, Add</i>	0.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0581 LF 8-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.18 0.04 0.10	3.03
22 07 19 00-0582 LF 9" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.72 0.04 0.11	3.11
22 07 19 00-0583 LF 9-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.18 0.05 0.11	3.16
22 07 19 00-0584 LF 10" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.64 0.05 0.12	3.22
22 07 19 00-0585 LF 10-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.10 0.05 0.12	3.27
22 07 19 00-0586 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.69 0.05 0.13	3.37
22 07 19 00-0587 LF 11-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.19 0.05 0.14	3.43
22 07 19 00-0588 LF 12" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.68 0.06 0.14	3.50
22 07 19 00-0589 LF 12-1/2" ID, 0.020" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.33 0.06 0.15	3.60
22 07 19 00-0590 LF 13" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.71 0.06 0.15	3.64
22 07 19 00-0591 LF 14" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.32 0.07 0.17	3.67
22 07 19 00-0592 LF 15" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.09 0.07 0.18	3.76
22 07 19 00-0593 LF 16" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.71 0.08 0.19	3.80
22 07 19 00-0594 LF 17" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.49 0.08 0.20	3.88
22 07 19 00-0595 LF 18" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.97 0.08 0.21	3.92
22 07 19 00-0596 LF 19" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.93 0.09 0.22	4.01
22 07 19 00-0597 LF 20" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.58 0.09 0.23	4.05
22 07 19 00-0598 LF 21" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.41 0.10 0.25	4.15
22 07 19 00-0599 LF 22" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.05 0.10 0.26	4.19
22 07 19 00-0600 LF 23" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.92 0.11 0.27	4.29
22 07 19 00-0601 LF 24" ID, 0.020" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.59 0.11 0.28	4.34
22 07 19 00-0602 24 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands <small>(22 07 19 00-0493)</small>		
22 07 19 00-0603 LF 1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	7.61 0.00 0.01	1.79
22 07 19 00-0604 LF 3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	7.92 0.01 0.02	1.83
22 07 19 00-0605 LF 1" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.22 0.01 0.02	1.87
22 07 19 00-0606 LF 1-1/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.54 0.01 0.02	1.92
22 07 19 00-0607 LF 1-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.78 0.01 0.03	1.94
22 07 19 00-0608 LF 1-3/4" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.04 0.01 0.03	1.97

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0609	LF	2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.34 0.01 0.03	2.01
22 07 19 00-0610	LF	2-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.65 0.01 0.04	2.05
22 07 19 00-0611	LF	2-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.98 0.02 0.04	2.10
22 07 19 00-0612	LF	2-3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.25 0.02 0.04	2.13
22 07 19 00-0613	LF	3" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.59 0.02 0.05	2.18
22 07 19 00-0614	LF	3-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.93 0.02 0.05	2.24
22 07 19 00-0615	LF	3-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.27 0.02 0.05	2.29
22 07 19 00-0616	LF	3-3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.56 0.02 0.06	2.33
22 07 19 00-0617	LF	4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.93 0.02 0.06	2.39
22 07 19 00-0618	LF	4-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.31 0.03 0.06	2.45
22 07 19 00-0619	LF	4-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.71 0.03 0.07	2.51
22 07 19 00-0620	LF	4-3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.03 0.03 0.07	2.56
22 07 19 00-0621	LF	5" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.45 0.03 0.07	2.62
22 07 19 00-0622	LF	5-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.87 0.03 0.08	2.70
22 07 19 00-0623	LF	5-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.23 0.03 0.08	2.75
22 07 19 00-0624	LF	5-3/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.71 0.03 0.08	2.83
22 07 19 00-0625	LF	6" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.17 0.04 0.09	2.91
22 07 19 00-0626	LF	6-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.49 0.04 0.09	2.96
22 07 19 00-0627	LF	6-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.80 0.04 0.09	3.00
22 07 19 00-0628	LF	7" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.34 0.04 0.10	3.07
22 07 19 00-0629	LF	7-1/4" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.77 0.04 0.10	3.14
22 07 19 00-0630	LF	7-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.11 0.04 0.11	3.20
22 07 19 00-0631	LF	8" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.60 0.05 0.11	3.25
22 07 19 00-0632	LF	8-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.09 0.05 0.12	3.30
22 07 19 00-0633	LF	9" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.70 0.05 0.13	3.39
22 07 19 00-0634	LF	9-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.22 0.05 0.14	3.45
22 07 19 00-0635	LF	10" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.74 0.06 0.14	3.51
22 07 19 00-0636	LF	10-1/2" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.27 0.06 0.15	3.57



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0637	LF		11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.94 0.06 0.16	3.67
22 07 19 00-0638	LF		11-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.51 0.07 0.16	3.75
22 07 19 00-0639	LF		12" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.08 0.07 0.17	3.82
22 07 19 00-0640	LF		12-1/2" ID, 0.024" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.81 0.07 0.18	3.94
22 07 19 00-0641	LF		13" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.24 0.07 0.18	3.98
22 07 19 00-0642	LF		14" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.96 0.08 0.20	4.02
22 07 19 00-0643	LF		15" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.84 0.08 0.21	4.10
22 07 19 00-0644	LF		16" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.57 0.09 0.23	4.14
22 07 19 00-0645	LF		17" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.47 0.10 0.24	4.23
22 07 19 00-0646	LF		18" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.03 0.10 0.25	4.28
22 07 19 00-0647	LF		19" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.15 0.11 0.27	4.37
22 07 19 00-0648	LF		20" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.90 0.11 0.28	4.42
22 07 19 00-0649	LF		21" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.86 0.12 0.29	4.52
22 07 19 00-0650	LF		22" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.61 0.12 0.31	4.57
22 07 19 00-0651	LF		23" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.61 0.13 0.32	4.68
22 07 19 00-0652	LF		24" ID, 0.024" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.38 0.13 0.34	4.74
22 07 19 00-0653			32 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0493)		
22 07 19 00-0654	LF		1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.54 0.01 0.02	1.98
22 07 19 00-0655	LF		3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	8.90 0.01 0.02	2.02
22 07 19 00-0656	LF		1" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.29 0.01 0.02	2.07
22 07 19 00-0657	LF		1-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.67 0.01 0.03	2.12
22 07 19 00-0658	LF		1-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.98 0.01 0.03	2.15
22 07 19 00-0659	LF		1-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.29 0.02 0.04	2.19
22 07 19 00-0660	LF		2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.65 0.02 0.04	2.24
22 07 19 00-0661	LF		2-1/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.03 0.02 0.05	2.29
22 07 19 00-0662	LF		2-1/2" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.42 0.02 0.05	2.33
22 07 19 00-0663	LF		2-3/4" ID, 0.032" Aluminum Insulation Jacketing <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.75 0.02 0.06	2.37
22 07 19 00-0664	LF		3" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.17 0.02 0.06	2.42

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0665 LF 3-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.58 0.03 0.07	2.48
22 07 19 00-0666 LF 3-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.99 0.03 0.07	2.54
22 07 19 00-0667 LF 3-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.36 0.03 0.08	2.58
22 07 19 00-0668 LF 4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.78 0.03 0.08	2.64
22 07 19 00-0669 LF 4-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.22 0.03 0.09	2.71
22 07 19 00-0670 LF 4-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.71 0.04 0.09	2.78
22 07 19 00-0671 LF 4-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.11 0.04 0.09	2.83
22 07 19 00-0672 LF 5" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.59 0.04 0.10	2.91
22 07 19 00-0673 LF 5-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.10 0.04 0.10	2.98
22 07 19 00-0674 LF 5-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.53 0.04 0.11	3.05
22 07 19 00-0675 LF 5-3/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.08 0.05 0.11	3.13
22 07 19 00-0676 LF 6" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	17.65 0.05 0.12	3.23
22 07 19 00-0677 LF 6-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.02 0.05 0.12	3.27
22 07 19 00-0678 LF 6-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	18.40 0.05 0.13	3.32
22 07 19 00-0679 LF 7" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.06 0.05 0.14	3.40
22 07 19 00-0680 LF 7-1/4" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.56 0.06 0.14	3.48
22 07 19 00-0681 LF 7-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	19.97 0.06 0.15	3.54
22 07 19 00-0682 LF 8" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	20.59 0.06 0.15	3.60
22 07 19 00-0683 LF 8-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.18 0.07 0.16	3.66
22 07 19 00-0684 LF 9" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	21.93 0.07 0.17	3.76
22 07 19 00-0685 LF 9-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	22.58 0.07 0.18	3.83
22 07 19 00-0686 LF 10" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.21 0.08 0.19	3.90
22 07 19 00-0687 LF 10-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	23.87 0.08 0.20	3.97
22 07 19 00-0688 LF 11" ID, 0.0106 Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	24.67 0.08 0.21	4.08
22 07 19 00-0689 LF 11-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	25.37 0.09 0.22	4.15
22 07 19 00-0690 LF 12" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.06 0.09 0.23	4.23
22 07 19 00-0691 LF 12-1/2" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	26.94 0.10 0.24	4.36
22 07 19 00-0692 LF 13" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	27.48 0.10 0.25	4.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0693 LF 14" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	28.41 0.11 0.27	4.45
22 07 19 00-0694 LF 15" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	29.51 0.11 0.28	4.54
22 07 19 00-0695 LF 16" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	30.45 0.12 0.30	4.59
22 07 19 00-0696 LF 17" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	31.58 0.13 0.32	4.68
22 07 19 00-0697 LF 18" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	32.29 0.13 0.33	4.74
22 07 19 00-0698 LF 19" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	33.69 0.14 0.36	4.84
22 07 19 00-0699 LF 20" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	34.66 0.15 0.38	4.89
22 07 19 00-0700 LF 21" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	35.83 0.16 0.40	5.01
22 07 19 00-0701 LF 22" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	36.80 0.17 0.41	5.06
22 07 19 00-0702 LF 23" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	38.04 0.17 0.43	5.18
22 07 19 00-0703 LF 24" ID, 0.032" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	39.02 0.18 0.45	5.26
22 07 19 00-0704 40 Mil, Aluminum Insulation Protective Jacketing With Polykraft Moisture Barrier And Bands (22 07 19 00-0493)		
22 07 19 00-0705 LF 1/2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	9.88 0.01 0.02	2.28
22 07 19 00-0706 LF 3/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.32 0.01 0.03	2.34
22 07 19 00-0707 LF 1" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	10.78 0.01 0.03	2.39
22 07 19 00-0708 LF 1-1/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.25 0.01 0.04	2.45
22 07 19 00-0709 LF 1-1/2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	11.62 0.02 0.04	2.49
22 07 19 00-0710 LF 1-3/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.00 0.02 0.05	2.52
22 07 19 00-0711 LF 2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.43 0.02 0.05	2.57
22 07 19 00-0712 LF 2-1/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	12.88 0.02 0.06	2.63
22 07 19 00-0713 LF 2-1/2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.36 0.03 0.07	2.68
22 07 19 00-0714 LF 2-3/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	13.77 0.03 0.07	2.73
22 07 19 00-0715 LF 3" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.26 0.03 0.08	2.79
22 07 19 00-0716 LF 3-1/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	14.75 0.03 0.08	2.85
22 07 19 00-0717 LF 3-1/2" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.24 0.04 0.09	2.92
22 07 19 00-0718 LF 3-3/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	15.68 0.04 0.10	2.97
22 07 19 00-0719 LF 4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.19 0.04 0.10	3.04
22 07 19 00-0720 LF 4-1/4" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	16.72 0.04 0.11	3.11

22 Plumbing**22 07 Plumbing Insulation****22 07 19 Plumbing Piping Insulation**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0721	LF	4-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	17.31	3.19
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.11	
22 07 19 00-0722	LF	4-3/4" ID, 0.040" Aluminum Insulation Jacketing.....	17.78	3.25
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0723	LF	5" ID, 0.040" Aluminum Insulation Jacketing.....	18.36	3.34
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.12	
22 07 19 00-0724	LF	5-1/4" ID, 0.040" Aluminum Insulation Jacketing.....	18.95	3.43
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.13	
22 07 19 00-0725	LF	5-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	19.47	3.50
		<i>For Stucco Embossed, Add</i>	0.05	
		<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0726	LF	5-3/4" ID, 0.040" Aluminum Insulation Jacketing.....	20.13	3.60
		<i>For Stucco Embossed, Add</i>	0.06	
		<i>For Corrugated, Add</i>	0.14	
22 07 19 00-0727	LF	6" ID, 0.040" Aluminum Insulation Jacketing.....	20.78	3.71
		<i>For Stucco Embossed, Add</i>	0.06	
		<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0728	LF	6-1/4" ID, 0.040" Aluminum Insulation Jacketing.....	21.24	3.77
		<i>For Stucco Embossed, Add</i>	0.06	
		<i>For Corrugated, Add</i>	0.15	
22 07 19 00-0729	LF	6-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	21.70	3.83
		<i>For Stucco Embossed, Add</i>	0.06	
		<i>For Corrugated, Add</i>	0.16	
22 07 19 00-0730	LF	7" ID, 0.040" Aluminum Insulation Jacketing.....	22.48	3.92
		<i>For Stucco Embossed, Add</i>	0.07	
		<i>For Corrugated, Add</i>	0.17	
22 07 19 00-0731	LF	7-1/4" ID, 0.040" Aluminum Insulation Jacketing.....	23.10	4.01
		<i>For Stucco Embossed, Add</i>	0.07	
		<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0732	LF	7-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	23.58	4.08
		<i>For Stucco Embossed, Add</i>	0.07	
		<i>For Corrugated, Add</i>	0.18	
22 07 19 00-0733	LF	8" ID, 0.040" Aluminum Insulation Jacketing.....	24.32	4.15
		<i>For Stucco Embossed, Add</i>	0.08	
		<i>For Corrugated, Add</i>	0.19	
22 07 19 00-0734	LF	8-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	25.05	4.21
		<i>For Stucco Embossed, Add</i>	0.08	
		<i>For Corrugated, Add</i>	0.21	
22 07 19 00-0735	LF	9" ID, 0.040" Aluminum Insulation Jacketing.....	25.95	4.32
		<i>For Stucco Embossed, Add</i>	0.09	
		<i>For Corrugated, Add</i>	0.22	
22 07 19 00-0736	LF	9-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	26.73	4.40
		<i>For Stucco Embossed, Add</i>	0.09	
		<i>For Corrugated, Add</i>	0.23	
22 07 19 00-0737	LF	10" ID, 0.040" Aluminum Insulation Jacketing.....	27.50	4.48
		<i>For Stucco Embossed, Add</i>	0.10	
		<i>For Corrugated, Add</i>	0.24	
22 07 19 00-0738	LF	10-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	28.29	4.56
		<i>For Stucco Embossed, Add</i>	0.10	
		<i>For Corrugated, Add</i>	0.25	
22 07 19 00-0739	LF	11" ID, 0.0106 Aluminum Insulation Jacketing.....	29.27	4.68
		<i>For Stucco Embossed, Add</i>	0.11	
		<i>For Corrugated, Add</i>	0.26	
22 07 19 00-0740	LF	11-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	30.11	4.77
		<i>For Stucco Embossed, Add</i>	0.11	
		<i>For Corrugated, Add</i>	0.28	
22 07 19 00-0741	LF	12" ID, 0.040" Aluminum Insulation Jacketing.....	30.93	4.86
		<i>For Stucco Embossed, Add</i>	0.11	
		<i>For Corrugated, Add</i>	0.29	
22 07 19 00-0742	LF	12-1/2" ID, 0.040" Aluminum Insulation Jacketing.....	31.97	5.01
		<i>For Stucco Embossed, Add</i>	0.12	
		<i>For Corrugated, Add</i>	0.30	
22 07 19 00-0743	LF	13" ID, 0.040" Aluminum Insulation Jacketing.....	32.64	5.06
		<i>For Stucco Embossed, Add</i>	0.12	
		<i>For Corrugated, Add</i>	0.31	
22 07 19 00-0744	LF	14" ID, 0.040" Aluminum Insulation Jacketing.....	33.80	5.11
		<i>For Stucco Embossed, Add</i>	0.13	
		<i>For Corrugated, Add</i>	0.33	
22 07 19 00-0745	LF	15" ID, 0.040" Aluminum Insulation Jacketing.....	35.13	5.23
		<i>For Stucco Embossed, Add</i>	0.14	
		<i>For Corrugated, Add</i>	0.36	
22 07 19 00-0746	LF	16" ID, 0.040" Aluminum Insulation Jacketing.....	36.30	5.28
		<i>For Stucco Embossed, Add</i>	0.15	
		<i>For Corrugated, Add</i>	0.38	
22 07 19 00-0747	LF	17" ID, 0.040" Aluminum Insulation Jacketing.....	37.67	5.39
		<i>For Stucco Embossed, Add</i>	0.16	
		<i>For Corrugated, Add</i>	0.40	
22 07 19 00-0748	LF	18" ID, 0.040" Aluminum Insulation Jacketing.....	38.54	5.45
		<i>For Stucco Embossed, Add</i>	0.17	
		<i>For Corrugated, Add</i>	0.42	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07	19 00-0749	LF	19" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	40.25 0.18 0.45	5.57
22 07	19 00-0750	LF	20" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	41.45 0.19 0.47	5.64
22 07	19 00-0751	LF	21" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	42.88 0.20 0.50	5.76
22 07	19 00-0752	LF	22" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	44.07 0.21 0.52	5.83
22 07	19 00-0753	LF	23" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	45.57 0.22 0.54	5.97
22 07	19 00-0754	LF	24" ID, 0.040" Aluminum Insulation Jacketing..... <i>For Stucco Embossed, Add</i> <i>For Corrugated, Add</i>	46.77 0.23 0.57	6.04

22 07 19 00-0755 Aluminum Insulation Protective Jacketing For Fittings (22 07 19 00-0493)

22 07 19 00-0756	EA	1-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	13.91	2.34
22 07 19 00-0757	EA	1-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	14.25	2.43
22 07 19 00-0758	EA	2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	15.80	2.52
22 07 19 00-0759	EA	2-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	15.96	2.56
22 07 19 00-0760	EA	2-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	16.12	2.60
22 07 19 00-0761	EA	2-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	16.37	2.67
22 07 19 00-0762	EA	3" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.12	2.73
22 07 19 00-0763	EA	3-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	17.41	2.80
22 07 19 00-0764	EA	3-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	18.73	2.85
22 07 19 00-0765	EA	3-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	19.12	2.90
22 07 19 00-0766	EA	4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	19.78	2.98
22 07 19 00-0767	EA	4-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.22	3.03
22 07 19 00-0768	EA	4-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.45	3.09
22 07 19 00-0769	EA	4-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	20.69	3.15
22 07 19 00-0770	EA	5" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	21.97	3.21
22 07 19 00-0771	EA	5-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	23.63	3.27
22 07 19 00-0772	EA	5-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.62	3.38
22 07 19 00-0773	EA	5-3/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	26.90	3.45
22 07 19 00-0774	EA	6" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	25.43	3.56
22 07 19 00-0775	EA	6-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	25.75	3.64
22 07 19 00-0776	EA	6-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	28.53	3.77
22 07 19 00-0777	EA	7" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.76	3.86
22 07 19 00-0778	EA	7-1/4" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	31.94	3.90
22 07 19 00-0779	EA	7-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	39.84	3.95
22 07 19 00-0780	EA	8" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	33.91	4.00
22 07 19 00-0781	EA	8-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	49.49	4.10
22 07 19 00-0782	EA	9" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	49.91	4.20
22 07 19 00-0783	EA	9-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	41.38	4.26
22 07 19 00-0784	EA	10" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	41.61	4.31
22 07 19 00-0785	EA	10-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	42.37	4.37
22 07 19 00-0786	EA	11" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	42.60	4.43
22 07 19 00-0787	EA	11-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	46.49	4.55
22 07 19 00-0788	EA	12" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	46.75	4.61
22 07 19 00-0789	EA	12-1/2" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	69.36	4.75
22 07 19 00-0790	EA	13" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	69.63	4.82
22 07 19 00-0791	EA	14" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	87.39	4.96
22 07 19 00-0792	EA	15" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	91.08	5.12
22 07 19 00-0793	EA	16" ID, Aluminum 90 Degree LR Elbow Insulation Jacketing.....	97.81	5.20
22 07 19 00-0794	EA	2-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	15.12	2.60
22 07 19 00-0795	EA	2-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	15.37	2.67
22 07 19 00-0796	EA	3" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	16.26	2.73
22 07 19 00-0797	EA	3-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	16.55	2.80
22 07 19 00-0798	EA	3-1/2" ID Aluminum 45 Degree Elbow Insulation Jacketing.....	17.49	2.85
22 07 19 00-0799	EA	3-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	17.69	2.90
22 07 19 00-0800	EA	4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	18.10	2.98
22 07 19 00-0801	EA	4-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.19	3.03
22 07 19 00-0802	EA	4-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.42	3.09
22 07 19 00-0803	EA	4-3/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	19.66	3.15
22 07 19 00-0804	EA	5" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	21.15	3.21
22 07 19 00-0805	EA	5-1/4" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	21.41	3.27
22 07 19 00-0806	EA	5-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.21	3.38
22 07 19 00-0807	EA	6" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	22.95	3.56
22 07 19 00-0808	EA	6-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.07	3.77
22 07 19 00-0809	EA	7" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.43	3.86
22 07 19 00-0810	EA	7-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	27.92	3.95
22 07 19 00-0811	EA	8" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	28.11	4.00
22 07 19 00-0812	EA	8-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	31.46	4.10
22 07 19 00-0813	EA	9" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	31.88	4.20
22 07 19 00-0814	EA	9-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	37.95	4.26
22 07 19 00-0815	EA	10" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	38.18	4.31
22 07 19 00-0816	EA	10-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	37.06	4.37



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 07 19 00-0817	EA	11" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	37.29	4.43
22 07 19 00-0818	EA	11-1/2" ID, Aluminum 45 Degree Elbow Insulation Jacketing	41.72	4.55
22 07 19 00-0819	EA	12" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	41.98	4.61
22 07 19 00-0820	EA	13" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	46.88	4.82
22 07 19 00-0821	EA	14" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	53.74	4.96
22 07 19 00-0822	EA	15" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	72.67	5.12
22 07 19 00-0823	EA	16" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	77.38	5.20
22 07 19 00-0824	EA	17" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	76.39	5.29
22 07 19 00-0825	EA	18" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	84.50	5.38
22 07 19 00-0826	EA	19" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	98.83	5.46
22 07 19 00-0827	EA	20" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	96.67	5.56
22 07 19 00-0828	EA	21" ID, Aluminum 45 Degree Elbow Insulation Jacketing.....	102.97	5.65
22 07 19 00-0829	EA	2-1/2" ID, Aluminum Tee Insulation Jacketing.....	47.33	3.72
22 07 19 00-0830	EA	2-3/4" ID, Aluminum Tee Insulation Jacketing.....	47.68	3.81
22 07 19 00-0831	EA	3" ID, Aluminum Tee Insulation Jacketing.....	52.25	3.90
22 07 19 00-0832	EA	3-1/4" ID, Aluminum Tee Insulation Jacketing.....	52.64	4.00
22 07 19 00-0833	EA	3-1/2" ID Aluminum Tee Insulation Jacketing.....	54.79	4.10
22 07 19 00-0834	EA	4" ID, Aluminum Tee Insulation Jacketing.....	55.62	4.20
22 07 19 00-0835	EA	4-1/4" ID, Aluminum Tee Insulation Jacketing.....	58.31	4.31
22 07 19 00-0836	EA	4-1/2" ID, Aluminum Tee Insulation Jacketing.....	58.44	4.43
22 07 19 00-0837	EA	4-3/4" ID, Aluminum Tee Insulation Jacketing.....	58.93	4.55
22 07 19 00-0838	EA	5" ID, Aluminum Tee Insulation Jacketing.....	60.98	4.68
22 07 19 00-0839	EA	5-1/4" ID, Aluminum Tee Insulation Jacketing.....	61.52	4.82
22 07 19 00-0840	EA	5-1/2" ID, Aluminum Tee Insulation Jacketing.....	63.98	4.96
22 07 19 00-0841	EA	6" ID, Aluminum Tee Insulation Jacketing.....	64.60	5.12
22 07 19 00-0842	EA	6-1/2" ID, Aluminum Tee Insulation Jacketing.....	70.31	5.46
22 07 19 00-0843	EA	7" ID, Aluminum Tee Insulation Jacketing.....	71.06	5.65
22 07 19 00-0844	EA	7-1/2" ID, Aluminum Tee Insulation Jacketing.....	77.30	5.85
22 07 19 00-0845	EA	8" ID, Aluminum Tee Insulation Jacketing.....	78.16	6.07
22 07 19 00-0846	EA	8-1/2" ID, Aluminum Tee Insulation Jacketing.....	80.52	6.30
22 07 19 00-0847	EA	9" ID, Aluminum Tee Insulation Jacketing.....	81.53	6.55
22 07 19 00-0848	EA	9-1/2" ID, Aluminum Tee Insulation Jacketing.....	67.80	6.68
22 07 19 00-0849	EA	10" ID, Aluminum Tee Insulation Jacketing.....	68.35	6.83
22 07 19 00-0850	EA	10-1/2" ID, Aluminum Tee Insulation Jacketing.....	71.62	6.98
22 07 19 00-0851	EA	11" ID, Aluminum Tee Insulation Jacketing.....	72.22	7.13
22 07 19 00-0852	EA	11-1/2" ID, Aluminum Tee Insulation Jacketing.....	75.24	7.28
22 07 19 00-0853	EA	12" ID, Aluminum Tee Insulation Jacketing.....	75.90	7.45
22 07 19 00-0854	EA	13" ID, Aluminum Tee Insulation Jacketing.....	78.89	7.62
22 07 19 00-0855	EA	14" ID, Aluminum Tee Insulation Jacketing.....	81.99	7.80
22 07 19 00-0856	EA	15" ID, Aluminum Tee Insulation Jacketing.....	86.88	7.99
22 07 19 00-0857	EA	16" ID, Aluminum Tee Insulation Jacketing.....	89.07	8.19
22 07 19 00-0858	EA	17" ID, Aluminum Tee Insulation Jacketing.....	98.33	8.41
22 07 19 00-0859	EA	18" ID, Aluminum Tee Insulation Jacketing.....	101.74	8.62
22 07 19 00-0860	EA	19" ID, Aluminum Tee Insulation Jacketing.....	109.80	8.86
22 07 19 00-0861	EA	20" ID, Aluminum Tee Insulation Jacketing.....	112.39	9.10
22 07 19 00-0862	EA	22" ID, Aluminum Tee Insulation Jacketing.....	134.12	9.36
22 07 19 00-0863	EA	23" ID, Aluminum Tee Insulation Jacketing.....	137.91	9.63
22 07 19 00-0864	EA	24" ID, Aluminum Tee Insulation Jacketing.....	144.22	10.57

22 07 19 00-0865 **Stainless Steel Insulation Protective Jacketing With Bands** (22 07 19 00-0492)

22 07 19 00-0866 **Type 304 Stainless Steel Roll, Insulation Protective Jacketing With Bands** (22

22 07 19 00-0867	SF	0.010" Stainless Steel Insulation Jacket With Bands.....	15.58	6.14
22 07 19 00-0868	SF	0.016" Stainless Steel Insulation Jacket With Bands.....	19.18	7.37

22 07 19 00-0869 **10 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands** (22 07 19 00-0865)

22 07 19 00-0870	LF	2-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	8.42	1.31
22 07 19 00-0871	LF	2-3/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	8.80	1.34
22 07 19 00-0872	LF	3" ID, 0.010" Stainless Steel Insulation Jacketing.....	9.19	1.37
22 07 19 00-0873	LF	3-1/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	9.60	1.40
22 07 19 00-0874	LF	3-1/2" ID, 0.010" Stainless Steel Insulation.....	10.00	1.43
22 07 19 00-0875	LF	3-3/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	10.41	1.46
22 07 19 00-0876	LF	4" ID, 0.010" Stainless Steel Insulation Jacketing.....	10.82	1.49
22 07 19 00-0877	LF	4-1/4" ID, 0.010" Stainless Steel Insulation Jacketing.....	11.24	1.52
22 07 19 00-0878	LF	4-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	11.66	1.56
22 07 19 00-0879	LF	5" ID, 0.010" Stainless Steel Insulation Jacketing.....	12.54	1.64
22 07 19 00-0880	LF	5-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	13.45	1.72
22 07 19 00-0881	LF	6" ID, 0.010" Stainless Steel Insulation Jacketing.....	14.39	1.82
22 07 19 00-0882	LF	6-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	15.16	1.87
22 07 19 00-0883	LF	7" ID, 0.010" Stainless Steel Insulation Jacketing.....	15.95	1.92
22 07 19 00-0884	LF	7-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	16.79	1.99
22 07 19 00-0885	LF	8" ID, 0.010" Stainless Steel Insulation Jacketing.....	17.50	2.03
22 07 19 00-0886	LF	8-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	18.22	2.07
22 07 19 00-0887	LF	9" ID, 0.010" Stainless Steel Insulation Jacketing.....	18.95	2.11
22 07 19 00-0888	LF	9-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	19.67	2.15
22 07 19 00-0889	LF	10" ID, 0.010" Stainless Steel Insulation Jacketing.....	20.41	2.19
22 07 19 00-0890	LF	10-1/2" ID, 0.010" Stainless Steel Insulation Jacketing.....	21.16	2.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-0891 LF 11" ID, 0.010" Stainless Steel Insulation Jacketing.....	21.90	2.30
22 07 19 00-0892 LF 12" ID, 0.010" Stainless Steel Insulation Jacketing.....	23.42	2.40
22 07 19 00-0893 LF 13" ID, 0.010" Stainless Steel Insulation Jacketing.....	24.92	2.49
22 07 19 00-0894 LF 14" ID, 0.010" Stainless Steel Insulation Jacketing.....	26.19	2.52
22 07 19 00-0895 16 Mil, Type 304 Stainless Steel, Insulation Protective Jacketing With Moisture Barrier And Bands (22 07 19 00-0865)		
22 07 19 00-0896 LF 2-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	11.57	1.74
22 07 19 00-0897 LF 2-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	12.12	1.78
22 07 19 00-0898 LF 3" ID, 0.016" Stainless Steel Insulation Jacketing.....	12.68	1.81
22 07 19 00-0899 LF 3-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	13.25	1.85
22 07 19 00-0900 LF 3-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	13.81	1.89
22 07 19 00-0901 LF 3-3/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	14.39	1.93
22 07 19 00-0902 LF 4" ID, 0.016" Stainless Steel Insulation Jacketing.....	14.96	1.98
22 07 19 00-0903 LF 4-1/4" ID, 0.016" Stainless Steel Insulation Jacketing.....	15.55	2.02
22 07 19 00-0904 LF 4-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	16.17	2.07
22 07 19 00-0905 LF 5" ID, 0.016" Stainless Steel Insulation Jacketing.....	17.40	2.17
22 07 19 00-0906 LF 5-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	18.67	2.30
22 07 19 00-0907 LF 6" ID, 0.016" Stainless Steel Insulation Jacketing.....	19.99	2.42
22 07 19 00-0908 LF 6-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	21.08	2.49
22 07 19 00-0909 LF 7" ID, 0.016" Stainless Steel Insulation Jacketing.....	22.21	2.57
22 07 19 00-0910 LF 7-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	23.39	2.66
22 07 19 00-0911 LF 8" ID, 0.016" Stainless Steel Insulation Jacketing.....	24.39	2.71
22 07 19 00-0912 LF 8-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	25.41	2.76
22 07 19 00-0913 LF 9" ID, 0.016" Stainless Steel Insulation Jacketing.....	26.46	2.81
22 07 19 00-0914 LF 9-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	27.49	2.87
22 07 19 00-0915 LF 10" ID, 0.016" Stainless Steel Insulation Jacketing.....	28.53	2.93
22 07 19 00-0916 LF 10-1/2" ID, 0.016" Stainless Steel Insulation Jacketing.....	29.60	2.98
22 07 19 00-0917 LF 11" ID, 0.0106 Stainless Steel Insulation Jacketing.....	30.66	3.05
22 07 19 00-0918 LF 12" ID, 0.016" Stainless Steel Insulation Jacketing.....	32.83	3.18
22 07 19 00-0919 LF 13" ID, 0.016" Stainless Steel Insulation Jacketing.....	34.95	3.30
22 07 19 00-0920 LF 14" ID, 0.016" Stainless Steel Insulation Jacketing.....	36.77	3.35
22 07 19 00-0921 Type 316 Stainless Steel Insulation Protective Jacketing For Fittings (22 07 19 00- 0865)		
22 07 19 00-0922 EA 2-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	24.39	2.60
22 07 19 00-0923 EA 2-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	24.64	2.67
22 07 19 00-0924 EA 3" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	25.55	2.73
22 07 19 00-0925 EA 3-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	25.84	2.80
22 07 19 00-0926 EA 3-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	26.77	2.85
22 07 19 00-0927 EA 3-3/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	27.84	2.90
22 07 19 00-0928 EA 4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	29.77	2.98
22 07 19 00-0929 EA 4-1/4" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	35.86	3.03
22 07 19 00-0930 EA 4-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	36.09	3.09
22 07 19 00-0931 EA 5" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	37.13	3.21
22 07 19 00-0932 EA 5-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	49.70	3.38
22 07 19 00-0933 EA 6" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	53.98	3.56
22 07 19 00-0934 EA 6-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	69.75	3.77
22 07 19 00-0935 EA 7" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	70.11	3.86
22 07 19 00-0936 EA 7-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	79.66	3.95
22 07 19 00-0937 EA 8" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	80.24	4.10
22 07 19 00-0938 EA 8-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	82.41	4.10
22 07 19 00-0939 EA 9" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	117.23	4.20
22 07 19 00-0940 EA 9-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	115.70	4.26
22 07 19 00-0941 EA 10" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	115.93	4.31
22 07 19 00-0942 EA 10-1/2" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	135.55	4.37
22 07 19 00-0943 EA 11" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	130.42	4.43
22 07 19 00-0944 EA 12" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	146.42	4.61
22 07 19 00-0945 EA 13" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	196.55	4.82
22 07 19 00-0946 EA 14" ID, Stainless Steel 90 Degree LR Elbow Insulation Jacketing.....	198.34	4.96
22 07 19 00-0947 EA 2-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	22.07	2.60
22 07 19 00-0948 EA 2-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	22.32	2.67
22 07 19 00-0949 EA 3" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	23.47	2.73
22 07 19 00-0950 EA 3-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	23.76	2.80
22 07 19 00-0951 EA 3-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	24.11	2.85
22 07 19 00-0952 EA 3-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	24.31	2.90
22 07 19 00-0953 EA 4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	28.24	2.98
22 07 19 00-0954 EA 4-1/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	35.06	3.03
22 07 19 00-0955 EA 4-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	35.29	3.09
22 07 19 00-0956 EA 4-3/4" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	35.53	3.15
22 07 19 00-0957 EA 5" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	36.17	3.21
22 07 19 00-0958 EA 5-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	36.83	3.38
22 07 19 00-0959 EA 6" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	41.91	3.56
22 07 19 00-0960 EA 6-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	42.72	3.77
22 07 19 00-0961 EA 7" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	62.23	3.86
22 07 19 00-0962 EA 7-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	63.57	3.95
22 07 19 00-0963 EA 8" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	63.76	4.00
22 07 19 00-0964 EA 8-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	72.28	4.10
22 07 19 00-0965 EA 9" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	72.70	4.20



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 07 19 00-0966	EA	9-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	82.65	4.26
22 07 19 00-0967	EA	10" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	82.88	4.31
22 07 19 00-0968	EA	10-1/2" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	96.35	4.37
22 07 19 00-0969	EA	11" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	96.58	4.43
22 07 19 00-0970	EA	12" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	104.11	4.61
22 07 19 00-0971	EA	13" ID, Stainless Steel 45 Degree Elbow Insulation Jacketing.....	120.06	4.82

22 07 19 00-0972 Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0492)

22 07 19 00-0973 20 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0972)

22 07 19 00-0974	LF	1-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	5.12	1.22
22 07 19 00-0975	LF	2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	5.40	1.26
22 07 19 00-0976	LF	2-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	5.68	1.31
22 07 19 00-0977	LF	3" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	5.98	1.37
22 07 19 00-0978	LF	3-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.28	1.43
22 07 19 00-0979	LF	4" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.62	1.49
22 07 19 00-0980	LF	4-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.98	1.56
22 07 19 00-0981	LF	5" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.36	1.64
22 07 19 00-0982	LF	5-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.78	1.72
22 07 19 00-0983	LF	6" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.24	1.82
22 07 19 00-0984	LF	6-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.53	1.87
22 07 19 00-0985	LF	7" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.82	1.92
22 07 19 00-0986	LF	7-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.19	1.99
22 07 19 00-0987	LF	8" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.40	2.03
22 07 19 00-0988	LF	8-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.64	2.07
22 07 19 00-0989	LF	9" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.88	2.11
22 07 19 00-0990	LF	9-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.12	2.15
22 07 19 00-0991	LF	10" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.37	2.19
22 07 19 00-0992	LF	10-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.63	2.25
22 07 19 00-0993	LF	11" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.88	2.30
22 07 19 00-0994	LF	11-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.16	2.34
22 07 19 00-0995	LF	12" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.43	2.40
22 07 19 00-0996	LF	12-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.75	2.45
22 07 19 00-0997	LF	13" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.96	2.49
22 07 19 00-0998	LF	13-1/2" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.03	2.49
22 07 19 00-0999	LF	14" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.26	2.52
22 07 19 00-1000	LF	15" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.58	2.56
22 07 19 00-1001	LF	16" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.89	2.60
22 07 19 00-1002	LF	17" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.21	2.64
22 07 19 00-1003	LF	18" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.54	2.69
22 07 19 00-1004	LF	19" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.86	2.73
22 07 19 00-1005	LF	20" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.20	2.78
22 07 19 00-1006	LF	21" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.55	2.83
22 07 19 00-1007	LF	22" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	14.90	2.88
22 07 19 00-1008	LF	23" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.25	2.93
22 07 19 00-1009	LF	24" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.62	2.98
22 07 19 00-1010	LF	25" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	15.99	3.03
22 07 19 00-1011	LF	26" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	16.37	3.09
22 07 19 00-1012	LF	27" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	16.76	3.15
22 07 19 00-1013	LF	28" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	17.16	3.21
22 07 19 00-1014	LF	29" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	17.58	3.27
22 07 19 00-1015	LF	30" ID, 0.02" Polyvinyl Chloride (PVC) Insulation Jacketing.....	17.99	3.34

22 07 19 00-1016 30 Mil Polyvinyl Chloride (PVC) Insulation Protective Jacketing (22 07 19 00-0972)

22 07 19 00-1017	LF	2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	5.57	1.26
22 07 19 00-1018	LF	2-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	5.89	1.31
22 07 19 00-1019	LF	3" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.22	1.37
22 07 19 00-1020	LF	3-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.56	1.43
22 07 19 00-1021	LF	4" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	6.93	1.49
22 07 19 00-1022	LF	4-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.33	1.56
22 07 19 00-1023	LF	5" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	7.75	1.64
22 07 19 00-1024	LF	5-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.21	1.72
22 07 19 00-1025	LF	6" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	8.70	1.82
22 07 19 00-1026	LF	6-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.02	1.87
22 07 19 00-1027	LF	7" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.36	1.92
22 07 19 00-1028	LF	7-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	9.76	1.99
22 07 19 00-1029	LF	8" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.02	2.03
22 07 19 00-1030	LF	8-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.29	2.07
22 07 19 00-1031	LF	9" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.56	2.11
22 07 19 00-1032	LF	9-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	10.84	2.15
22 07 19 00-1033	LF	10" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.13	2.19
22 07 19 00-1034	LF	10-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.42	2.25
22 07 19 00-1035	LF	11" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	11.71	2.30
22 07 19 00-1036	LF	11-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.02	2.34
22 07 19 00-1037	LF	12" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.34	2.40
22 07 19 00-1038	LF	12-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.69	2.45
22 07 19 00-1039	LF	13" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	12.94	2.49
22 07 19 00-1040	LF	13-1/2" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.05	2.49
22 07 19 00-1041	LF	14" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing.....	13.32	2.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 07 19 00-1042 LF 15" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	13.70	2.56
22 07 19 00-1043 LF 16" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.08	2.60
22 07 19 00-1044 LF 17" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.48	2.64
22 07 19 00-1045 LF 18" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	14.88	2.69
22 07 19 00-1046 LF 19" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.29	2.73
22 07 19 00-1047 LF 20" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	15.69	2.78
22 07 19 00-1048 LF 21" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.11	2.83
22 07 19 00-1049 LF 22" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.54	2.88
22 07 19 00-1050 LF 23" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	16.96	2.93
22 07 19 00-1051 LF 24" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.40	2.98
22 07 19 00-1052 LF 25" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	17.85	3.03
22 07 19 00-1053 LF 26" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.30	3.09
22 07 19 00-1054 LF 27" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	18.77	3.15
22 07 19 00-1055 LF 28" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.24	3.21
22 07 19 00-1056 LF 29" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	19.73	3.27
22 07 19 00-1057 LF 30" ID, 0.03" Polyvinyl Chloride (PVC) Insulation Jacketing	20.21	3.34

22 07 19 00-1058 Polyvinyl Chloride (PVC) Insulation Protective Jacketing For Fittings (22 07 19 00-0972)

22 07 19 00-1059 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	10.32	2.43
22 07 19 00-1060 EA 2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	10.84	2.52
22 07 19 00-1061 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	11.09	2.56
22 07 19 00-1062 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	11.34	2.60
22 07 19 00-1063 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	11.67	2.67
22 07 19 00-1064 EA 3" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	11.99	2.73
22 07 19 00-1065 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	12.52	2.83
22 07 19 00-1066 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	12.97	2.90
22 07 19 00-1067 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	13.63	2.98
22 07 19 00-1068 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	14.56	3.12
22 07 19 00-1069 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	15.54	3.27
22 07 19 00-1070 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	16.99	3.45
22 07 19 00-1071 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	19.91	3.64
22 07 19 00-1072 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	20.68	3.77
22 07 19 00-1073 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	22.46	3.86
22 07 19 00-1074 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	23.19	3.95
22 07 19 00-1075 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	25.88	4.10
22 07 19 00-1076 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	29.72	4.26
22 07 19 00-1077 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	31.88	4.43
22 07 19 00-1078 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	34.70	4.61
22 07 19 00-1079 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	39.78	4.82
22 07 19 00-1080 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	43.30	4.96
22 07 19 00-1081 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	45.67	5.12
22 07 19 00-1082 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	48.29	5.20
22 07 19 00-1083 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	51.65	5.29
22 07 19 00-1084 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	60.83	5.38
22 07 19 00-1085 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	75.27	5.46
22 07 19 00-1086 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 90 Degree Elbow Insulation Jacketing	90.88	5.56
22 07 19 00-1087 EA 1-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	10.32	2.43
22 07 19 00-1088 EA 2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	10.84	2.52
22 07 19 00-1089 EA 2-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	11.09	2.56
22 07 19 00-1090 EA 2-1/2" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	11.34	2.60
22 07 19 00-1091 EA 2-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	11.67	2.67
22 07 19 00-1092 EA 3" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	11.99	2.73
22 07 19 00-1093 EA 3-3/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	12.52	2.83
22 07 19 00-1094 EA 3-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	12.97	2.90
22 07 19 00-1095 EA 4-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	13.63	2.98
22 07 19 00-1096 EA 4-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	14.56	3.12
22 07 19 00-1097 EA 5-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	15.54	3.27
22 07 19 00-1098 EA 5-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	16.99	3.45
22 07 19 00-1099 EA 6-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	19.91	3.64
22 07 19 00-1100 EA 6-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	20.68	3.77
22 07 19 00-1101 EA 7-1/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	22.46	3.86
22 07 19 00-1102 EA 7-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	23.19	3.95
22 07 19 00-1103 EA 8-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	25.88	4.10
22 07 19 00-1104 EA 9-3/4" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	29.72	4.26
22 07 19 00-1105 EA 10-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	31.87	4.43
22 07 19 00-1106 EA 11-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	34.08	4.61
22 07 19 00-1107 EA 12-7/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	36.70	4.82
22 07 19 00-1108 EA 14-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	39.78	4.96
22 07 19 00-1109 EA 15-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	41.85	5.12
22 07 19 00-1110 EA 16-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	45.21	5.20
22 07 19 00-1111 EA 17-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	48.62	5.29
22 07 19 00-1112 EA 18-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	55.06	5.38
22 07 19 00-1113 EA 19-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	67.66	5.46
22 07 19 00-1114 EA 20-1/8" ID, Polyvinyl Chloride (PVC) 45 Degree Elbow Insulation Jacketing	74.11	5.56
22 07 19 00-1115 EA 1-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	14.81	3.41
22 07 19 00-1116 EA 2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	15.26	3.48
22 07 19 00-1117 EA 2-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	15.84	3.60
22 07 19 00-1118 EA 2-1/2" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	16.46	3.72
22 07 19 00-1119 EA 2-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	17.14	3.86
22 07 19 00-1120 EA 3" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	17.86	4.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 07 19 00-1121	EA	3-3/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	18.74	4.15
22 07 19 00-1122	EA	3-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	19.69	4.31
22 07 19 00-1123	EA	4-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	20.84	4.49
22 07 19 00-1124	EA	4-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	22.32	4.68
22 07 19 00-1125	EA	5-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	23.88	4.89
22 07 19 00-1126	EA	5-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	26.54	5.20
22 07 19 00-1127	EA	6-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	29.40	5.46
22 07 19 00-1128	EA	6-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	31.56	5.56
22 07 19 00-1129	EA	7-1/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	38.08	5.75
22 07 19 00-1130	EA	7-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	40.82	6.07
22 07 19 00-1131	EA	8-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	45.34	6.30
22 07 19 00-1132	EA	9-3/4" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	49.95	6.55
22 07 19 00-1133	EA	10-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	51.31	6.83
22 07 19 00-1134	EA	11-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	54.57	6.98
22 07 19 00-1135	EA	12-7/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	57.83	7.13
22 07 19 00-1136	EA	14-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	61.16	7.28
22 07 19 00-1137	EA	15-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	64.47	7.45
22 07 19 00-1138	EA	16-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	67.84	7.62
22 07 19 00-1139	EA	17-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	71.21	7.80
22 07 19 00-1140	EA	18-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	75.99	7.99
22 07 19 00-1141	EA	19-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	80.81	8.19
22 07 19 00-1142	EA	20-1/8" ID, Polyvinyl Chloride (PVC) Tee Insulation Jacketing	86.53	8.41
22 07 19 00-1143	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	14.23	2.34
22 07 19 00-1144	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	14.23	2.34
22 07 19 00-1145	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	15.87	2.43
22 07 19 00-1146	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	15.87	2.43
22 07 19 00-1147	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	19.81	2.52
22 07 19 00-1148	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	21.29	2.62
22 07 19 00-1149	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	23.02	2.73
22 07 19 00-1150	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	25.40	2.85
22 07 19 00-1151	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	27.52	2.98
22 07 19 00-1152	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	32.51	3.27
22 07 19 00-1153	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	43.23	3.64
22 07 19 00-1154	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	47.59	4.10
22 07 19 00-1155	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	57.41	4.37
22 07 19 00-1156	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	76.70	4.82
22 07 19 00-1157	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	77.70	5.04
22 07 19 00-1158	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	99.04	5.20
22 07 19 00-1159	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 90 Degree Elbow Insulation Jacketing	129.09	5.38
22 07 19 00-1160	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	13.69	2.34
22 07 19 00-1161	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	13.69	2.34
22 07 19 00-1162	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	15.22	2.43
22 07 19 00-1163	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	15.22	2.43
22 07 19 00-1164	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	18.74	2.52
22 07 19 00-1165	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	20.11	2.62
22 07 19 00-1166	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	21.72	2.73
22 07 19 00-1167	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	22.80	2.85
22 07 19 00-1168	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	25.79	2.98
22 07 19 00-1169	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	30.37	3.27
22 07 19 00-1170	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	40.08	3.64
22 07 19 00-1171	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	44.14	4.10
22 07 19 00-1172	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	53.02	4.37
22 07 19 00-1173	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	70.42	4.82
22 07 19 00-1174	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	86.70	5.04
22 07 19 00-1175	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	101.40	5.20
22 07 19 00-1176	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover 45 Degree Elbow Insulation Jacketing	116.62	5.38
22 07 19 00-1177	EA	3/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	20.44	3.52
22 07 19 00-1178	EA	1" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	20.44	3.52
22 07 19 00-1179	EA	1-1/4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	22.59	3.64
22 07 19 00-1180	EA	1-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	22.59	3.64
22 07 19 00-1181	EA	2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	27.70	3.77
22 07 19 00-1182	EA	2-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	29.66	3.90
22 07 19 00-1183	EA	3" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	32.11	4.10
22 07 19 00-1184	EA	3-1/2" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	33.69	4.26
22 07 19 00-1185	EA	4" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	38.30	4.49
22 07 19 00-1186	EA	5" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	41.98	4.89
22 07 19 00-1187	EA	6" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	55.02	5.46
22 07 19 00-1188	EA	8" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	60.23	6.07
22 07 19 00-1189	EA	10" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	78.14	6.55
22 07 19 00-1190	EA	12" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	103.13	7.13
22 07 19 00-1191	EA	14" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	120.63	7.62
22 07 19 00-1192	EA	16" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	139.35	7.80
22 07 19 00-1193	EA	18" ID, Polyvinyl Chloride (PVC) Mechanical Grooved Fitting Cover Tee Insulation Jacketing	151.10	7.99

22 07 19 00-1194 Insulation Foam Rubber (22 07 19)

22 07 19 00-1195 Covering 4x6 Sheet (22 07 19 00-1194)

22 07 19 00-1196	SF	1" Thick Foam Rubber Sheet Insulation	16.13	5.82
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 10 Plumbing Piping ⁽²²⁾

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

22 11 Facility Water Distribution ^(22 10)

22 11 16 Domestic Water Piping ^(22 11)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks. See CSI section 23 21 13 00-0000 for black steel piping and fitting.

22 11 16 00-0001 Galvanized Steel Pipe Assemblies ^(22 11 16)

Note: (ASTM A-53) Threaded and coupled. Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.

22 11 16 00-0002	LF	1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	14.68	3.55
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	3.66	
		For ASTM 120, Deduct	-0.44	
		For Work In Restricted Working Space, Add	3.53	
22 11 16 00-0003	LF	3/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	15.92	3.81
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	4.05	
		For ASTM 120, Deduct	-0.52	
		For Work In Restricted Working Space, Add	3.74	
22 11 16 00-0004	LF	1" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	17.70	4.18
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	4.64	
		For ASTM 120, Deduct	-0.66	
		For Work In Restricted Working Space, Add	4.00	
22 11 16 00-0005	LF	1-1/4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	20.48	4.35
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	5.68	
		For ASTM 120, Deduct	-0.95	
		For Work In Restricted Working Space, Add	4.25	
22 11 16 00-0006	LF	1-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	21.85	5.15
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	6.15	
		For ASTM 120, Deduct	-1.07	
		For Work In Restricted Working Space, Add	4.43	
22 11 16 00-0007	LF	2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	26.07	6.22
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	7.54	
		For ASTM 120, Deduct	-1.39	
		For Work In Restricted Working Space, Add	5.03	
22 11 16 00-0008	LF	2-1/2" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	37.44	7.36
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	11.93	
		For ASTM 120, Deduct	-2.67	
		For Work In Restricted Working Space, Add	5.90	
22 11 16 00-0009	LF	3" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	45.63	9.85
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	14.57	
		For ASTM 120, Deduct	-3.27	
		For Work In Restricted Working Space, Add	7.15	
22 11 16 00-0010	LF	4" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	70.37	11.39
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	25.01	
		For ASTM 120, Deduct	-6.56	
		For Work In Restricted Working Space, Add	7.98	
22 11 16 00-0011	LF	5" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	138.02	14.56
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	54.07	
		For ASTM 120, Deduct	-15.88	
		For Work In Restricted Working Space, Add	9.65	
22 11 16 00-0012	LF	6" Schedule 40 Threaded Galvanized Steel Pipe With 150 LB Malleable Iron Fitting Assembly	153.86	17.22
		Note: Includes all hangers and all galvanized malleable iron fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.		
		For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add	60.10	
		For ASTM 120, Deduct	-17.60	
		For Work In Restricted Working Space, Add	10.96	

22 11 16 00-0013 Galvanized Steel Pipe And Threaded Fittings ^(22 11 16)

Note: (ASTM A-53) Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0014			Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe (22 11 16 00-0013) Note: ASTM A-53. Includes coupling. Welded pipe has a weld bead on the inside.		
22 11 16 00-0015	LF		1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	6.53	3.55
			For Schedule 80 Pipe, Add	1.09	
			For ASTM 120, Deduct	-0.17	
			For Work In Restricted Working Space, Add	1.61	
22 11 16 00-0016	LF		3/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	7.24	3.81
			For Schedule 80 Pipe, Add	1.30	
			For ASTM 120, Deduct	-0.23	
			For Work In Restricted Working Space, Add	1.72	
22 11 16 00-0017	LF		1" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	8.46	4.18
			For Schedule 80 Pipe, Add	1.70	
			For ASTM 120, Deduct	-0.34	
			For Work In Restricted Working Space, Add	1.86	
22 11 16 00-0018	LF		1-1/4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	9.62	4.35
			For Schedule 80 Pipe, Add	2.12	
			For ASTM 120, Deduct	-0.46	
			For Work In Restricted Working Space, Add	1.97	
22 11 16 00-0019	LF		1-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	11.37	5.15
			For Schedule 80 Pipe, Add	2.52	
			For ASTM 120, Deduct	-0.55	
			For Work In Restricted Working Space, Add	2.32	
22 11 16 00-0020	LF		2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	14.25	6.22
			For Schedule 80 Pipe, Add	3.29	
			For ASTM 120, Deduct	-0.74	
			For Work In Restricted Working Space, Add	2.81	
22 11 16 00-0021	LF		2-1/2" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	18.87	7.36
			For Schedule 80 Pipe, Add	4.84	
			For ASTM 120, Deduct	-1.17	
			For Work In Restricted Working Space, Add	3.33	
22 11 16 00-0022	LF		3" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	24.96	9.85
			For Schedule 80 Pipe, Add	6.36	
			For ASTM 120, Deduct	-1.53	
			For Work In Restricted Working Space, Add	4.44	
22 11 16 00-0023	LF		4" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	31.60	11.39
			For Schedule 80 Pipe, Add	8.66	
			For ASTM 120, Deduct	-2.17	
			For Work In Restricted Working Space, Add	5.14	
22 11 16 00-0024	LF		5" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	41.21	14.56
			For Schedule 80 Pipe, Add	11.50	
			For ASTM 120, Deduct	-2.91	
			For Work In Restricted Working Space, Add	6.54	
22 11 16 00-0025	LF		6" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	50.97	17.22
			For Schedule 80 Pipe, Add	14.67	
			For ASTM 120, Deduct	-3.78	
			For Work In Restricted Working Space, Add	7.74	
22 11 16 00-0026	LF		8" Schedule 40, Continuous Weld, Threaded And Coupled, Galvanized Steel Pipe.....	58.34	20.81
			For Schedule 80 Pipe, Add	16.17	
			For ASTM 120, Deduct	-4.08	
			For Work In Restricted Working Space, Add	9.34	
22 11 16 00-0027			Seamless, Threaded And Coupled, Galvanized Steel Pipe (22 11 16 00-0013) Note: ASTM A-53. Includes coupling.		
22 11 16 00-0028	LF		1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	9.35	3.55
			For Schedule 80 Pipe, Add	2.44	
			For ASTM 120, Deduct	-0.60	
			For Work In Restricted Working Space, Add	1.61	
22 11 16 00-0029	LF		3/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	10.48	3.81
			For Schedule 80 Pipe, Add	2.86	
			For ASTM 120, Deduct	-0.71	
			For Work In Restricted Working Space, Add	1.72	
22 11 16 00-0030	LF		1" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	11.74	4.18
			For Schedule 80 Pipe, Add	3.28	
			For ASTM 120, Deduct	-0.83	
			For Work In Restricted Working Space, Add	1.86	
22 11 16 00-0031	LF		1-1/4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	13.52	4.35
			For Schedule 80 Pipe, Add	3.99	
			For ASTM 120, Deduct	-1.04	
			For Work In Restricted Working Space, Add	1.97	
22 11 16 00-0032	LF		1-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	15.66	5.15
			For Schedule 80 Pipe, Add	4.58	
			For ASTM 120, Deduct	-1.19	
			For Work In Restricted Working Space, Add	2.32	
22 11 16 00-0033	LF		2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	18.39	6.22
			For Schedule 80 Pipe, Add	5.27	
			For ASTM 120, Deduct	-1.36	
			For Work In Restricted Working Space, Add	2.81	
22 11 16 00-0034	LF		2-1/2" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	26.23	7.36
			For Schedule 80 Pipe, Add	8.37	
			For ASTM 120, Deduct	-2.27	
			For Work In Restricted Working Space, Add	3.33	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0035	LF		3" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	33.29	9.85
			<i>For Schedule 80 Pipe, Add</i>	10.36	
			<i>For ASTM 120, Deduct</i>	-2.78	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0036	LF		4" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	43.58	11.39
			<i>For Schedule 80 Pipe, Add</i>	14.41	
			<i>For ASTM 120, Deduct</i>	-3.97	
			<i>For Work In Restricted Working Space, Add</i>	5.14	
22 11 16 00-0037	LF		5" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	56.32	14.56
			<i>For Schedule 80 Pipe, Add</i>	18.75	
			<i>For ASTM 120, Deduct</i>	-5.18	
			<i>For Work In Restricted Working Space, Add</i>	6.54	
22 11 16 00-0038	LF		6" Schedule 40, Seamless, Threaded Galvanized Steel Pipe.....	69.95	17.22
			<i>For Schedule 80 Pipe, Add</i>	23.78	
			<i>For ASTM 120, Deduct</i>	-6.62	
			<i>For Work In Restricted Working Space, Add</i>	7.74	
22 11 16 00-0039			Galvanized Malleable Iron 90 Degree Elbows <small>(22 11 16 00-0013)</small>		
22 11 16 00-0040	EA		1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	28.39	15.80
			<i>For 300 LB Rating, Add</i>	17.50	
			<i>For ASTM 120, Deduct</i>	-0.71	
			<i>For Work In Restricted Working Space, Add</i>	7.10	
22 11 16 00-0041	EA		3/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	32.30	17.66
			<i>For 300 LB Rating, Add</i>	21.34	
			<i>For ASTM 120, Deduct</i>	-0.87	
			<i>For Work In Restricted Working Space, Add</i>	7.95	
22 11 16 00-0042	EA		1", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	40.35	19.70
			<i>For 300 LB Rating, Add</i>	38.36	
			<i>For ASTM 120, Deduct</i>	-1.61	
			<i>For Work In Restricted Working Space, Add</i>	8.88	
22 11 16 00-0043	EA		1-1/4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	50.50	22.37
			<i>For 300 LB Rating, Add</i>	59.84	
			<i>For ASTM 120, Deduct</i>	-2.55	
			<i>For Work In Restricted Working Space, Add</i>	10.05	
22 11 16 00-0044	EA		1-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	59.97	25.20
			<i>For 300 LB Rating, Add</i>	77.75	
			<i>For ASTM 120, Deduct</i>	-3.33	
			<i>For Work In Restricted Working Space, Add</i>	11.33	
22 11 16 00-0045	EA		2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	84.33	32.05
			<i>For 300 LB Rating, Add</i>	126.50	
			<i>For ASTM 120, Deduct</i>	-5.45	
			<i>For Work In Restricted Working Space, Add</i>	14.39	
22 11 16 00-0046	EA		2-1/2", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	166.13	47.40
			<i>For 300 LB Rating, Add</i>	327.70	
			<i>For ASTM 120, Deduct</i>	-14.27	
			<i>For Work In Restricted Working Space, Add</i>	21.30	
22 11 16 00-0047	EA		3", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	250.28	62.31
			<i>For 300 LB Rating, Add</i>	538.90	
			<i>For ASTM 120, Deduct</i>	-23.53	
			<i>For Work In Restricted Working Space, Add</i>	28.03	
22 11 16 00-0048	EA		4", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	376.57	66.63
			<i>For 300 LB Rating, Add</i>	946.57	
			<i>For ASTM 120, Deduct</i>	-41.50	
			<i>For Work In Restricted Working Space, Add</i>	29.98	
22 11 16 00-0049	EA		5", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,298.96	69.54
			<i>For 300 LB Rating, Add</i>	4,068.20	
			<i>For ASTM 120, Deduct</i>	-179.20	
			<i>For Work In Restricted Working Space, Add</i>	31.28	
22 11 16 00-0050	EA		6", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,210.38	72.71
			<i>For 300 LB Rating, Add</i>	3,751.20	
			<i>For ASTM 120, Deduct</i>	-165.21	
			<i>For Work In Restricted Working Space, Add</i>	32.70	
22 11 16 00-0051	EA		8", 150 LB, Galvanized Malleable Iron 90 Degree Elbow.....	1,442.64	75.98
			<i>For 300 LB Rating, Add</i>	4,524.52	
			<i>For ASTM 120, Deduct</i>	-199.31	
			<i>For Work In Restricted Working Space, Add</i>	34.17	
22 11 16 00-0052			Galvanized Malleable Iron Reducing 90 Degree Elbows <small>(22 11 16 00-0013)</small>		
22 11 16 00-0053	EA		3/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	35.18	16.68
			<i>For ASTM 120, Deduct</i>	-1.52	
			<i>For Work In Restricted Working Space, Add</i>	7.52	
22 11 16 00-0054	EA		1" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	41.00	18.72
			<i>For ASTM 120, Deduct</i>	-1.94	
			<i>For Work In Restricted Working Space, Add</i>	8.41	
22 11 16 00-0055	EA		1" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	40.37	17.75
			<i>For ASTM 120, Deduct</i>	-2.06	
			<i>For Work In Restricted Working Space, Add</i>	7.99	
22 11 16 00-0056	EA		1-1/4" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	53.28	21.04
			<i>For ASTM 120, Deduct</i>	-3.26	
			<i>For Work In Restricted Working Space, Add</i>	9.46	
22 11 16 00-0057	EA		1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow.....	56.11	19.97
			<i>For ASTM 120, Deduct</i>	-3.92	
			<i>For Work In Restricted Working Space, Add</i>	9.00	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0058	EA	1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	56.26	19.09
		<i>For ASTM 120, Deduct</i>		-4.15	
		<i>For Work In Restricted Working Space, Add</i>		8.57	
22 11 16 00-0059	EA	1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	70.38	23.78
		<i>For ASTM 120, Deduct</i>		-5.21	
		<i>For Work In Restricted Working Space, Add</i>		10.69	
22 11 16 00-0060	EA	1-1/2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	68.42	22.46
		<i>For ASTM 120, Deduct</i>		-5.21	
		<i>For Work In Restricted Working Space, Add</i>		10.10	
22 11 16 00-0061	EA	1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	66.88	21.39
		<i>For ASTM 120, Deduct</i>		-5.21	
		<i>For Work In Restricted Working Space, Add</i>		9.64	
22 11 16 00-0062	EA	2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	83.47	28.58
		<i>For ASTM 120, Deduct</i>		-6.09	
		<i>For Work In Restricted Working Space, Add</i>		12.86	
22 11 16 00-0063	EA	2" x 1-1/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	87.27	27.16
		<i>For ASTM 120, Deduct</i>		-6.98	
		<i>For Work In Restricted Working Space, Add</i>		12.22	
22 11 16 00-0064	EA	2" x 1", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	87.07	25.83
		<i>For ASTM 120, Deduct</i>		-7.24	
		<i>For Work In Restricted Working Space, Add</i>		11.63	
22 11 16 00-0065	EA	2" x 3/4", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	73.87	24.85
		<i>For ASTM 120, Deduct</i>		-5.49	
		<i>For Work In Restricted Working Space, Add</i>		11.17	
22 11 16 00-0066	EA	2-1/2" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	197.09	39.67
		<i>For ASTM 120, Deduct</i>		-20.64	
		<i>For Work In Restricted Working Space, Add</i>		17.85	
22 11 16 00-0067	EA	2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	207.70	36.30
		<i>For ASTM 120, Deduct</i>		-23.00	
		<i>For Work In Restricted Working Space, Add</i>		16.32	
22 11 16 00-0068	EA	3" x 2-1/2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	332.31	54.85
		<i>For ASTM 120, Deduct</i>		-37.52	
		<i>For Work In Restricted Working Space, Add</i>		24.66	
22 11 16 00-0069	EA	3" x 2", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	287.92	47.13
		<i>For ASTM 120, Deduct</i>		-32.58	
		<i>For Work In Restricted Working Space, Add</i>		21.21	
22 11 16 00-0070	EA	4" x 3", 150 LB, Galvanized Malleable Iron Reducing 90 Degree Elbow	.....	661.00	63.38
		<i>For ASTM 120, Deduct</i>		-84.89	
		<i>For Work In Restricted Working Space, Add</i>		28.52	
22 11 16 00-0071		Galvanized Malleable Iron 45 Degree Elbow <small>(22 11 16 00-0013)</small>			
22 11 16 00-0072	EA	1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	29.23	15.80
		<i>For 300 LB Rating, Add</i>		20.36	
		<i>For ASTM 120, Deduct</i>		-0.84	
		<i>For Work In Restricted Working Space, Add</i>		7.10	
22 11 16 00-0073	EA	3/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	34.50	17.66
		<i>For 300 LB Rating, Add</i>		28.82	
		<i>For ASTM 120, Deduct</i>		-1.20	
		<i>For Work In Restricted Working Space, Add</i>		7.95	
22 11 16 00-0074	EA	1", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	38.63	19.70
		<i>For 300 LB Rating, Add</i>		32.51	
		<i>For ASTM 120, Deduct</i>		-1.36	
		<i>For Work In Restricted Working Space, Add</i>		8.88	
22 11 16 00-0075	EA	1-1/4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	50.38	22.37
		<i>For 300 LB Rating, Add</i>		59.44	
		<i>For ASTM 120, Deduct</i>		-2.53	
		<i>For Work In Restricted Working Space, Add</i>		10.05	
22 11 16 00-0076	EA	1-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	57.62	25.20
		<i>For 300 LB Rating, Add</i>		69.76	
		<i>For ASTM 120, Deduct</i>		-2.98	
		<i>For Work In Restricted Working Space, Add</i>		11.33	
22 11 16 00-0077	EA	2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	77.34	32.05
		<i>For 300 LB Rating, Add</i>		102.74	
		<i>For ASTM 120, Deduct</i>		-4.41	
		<i>For Work In Restricted Working Space, Add</i>		14.39	
22 11 16 00-0078	EA	2-1/2", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	173.17	47.40
		<i>For 300 LB Rating, Add</i>		351.64	
		<i>For ASTM 120, Deduct</i>		-15.33	
		<i>For Work In Restricted Working Space, Add</i>		21.30	
22 11 16 00-0079	EA	3", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	242.03	62.31
		<i>For 300 LB Rating, Add</i>		510.85	
		<i>For ASTM 120, Deduct</i>		-22.29	
		<i>For Work In Restricted Working Space, Add</i>		28.03	
22 11 16 00-0080	EA	4", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	349.05	66.63
		<i>For 300 LB Rating, Add</i>		853.00	
		<i>For ASTM 120, Deduct</i>		-37.37	
		<i>For Work In Restricted Working Space, Add</i>		29.98	
22 11 16 00-0081	EA	5", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	1,110.91	69.54
		<i>For 300 LB Rating, Add</i>		3,428.83	
		<i>For ASTM 120, Deduct</i>		-151.00	
		<i>For Work In Restricted Working Space, Add</i>		31.28	
22 11 16 00-0082	EA	6", 150 LB, Galvanized Malleable Iron 45 Degree Elbow	.....	1,322.78	72.71
		<i>For 300 LB Rating, Add</i>		4,133.36	
		<i>For ASTM 120, Deduct</i>		-182.07	
		<i>For Work In Restricted Working Space, Add</i>		32.70	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0083	EA		8", 150 LB, Galvanized Malleable Iron 45 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,576.15 4,978.45 -219.34 34.17	75.98
22 11 16 00-0084 Galvanized Malleable Iron Tees (22 11 16 00-0013)					
22 11 16 00-0085	EA		1/2", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	33.90 16.43 -0.65 8.88	19.70
22 11 16 00-0086	EA		3/4", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	41.25 26.22 -1.07 10.24	22.81
22 11 16 00-0087	EA		1", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	51.84 41.49 -1.72 12.11	26.89
22 11 16 00-0088	EA		1-1/4", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	66.21 64.89 -2.74 14.39	32.05
22 11 16 00-0089	EA		1-1/2", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	79.93 80.51 -3.40 17.18	38.16
22 11 16 00-0090	EA		2", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	107.86 129.58 -5.53 21.30	47.40
22 11 16 00-0091	EA		2-1/2", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	180.95 357.45 -15.57 23.15	51.47
22 11 16 00-0092	EA		3", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	215.12 419.35 -18.25 28.03	62.31
22 11 16 00-0093	EA		4", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	414.09 986.33 -43.18 37.87	84.19
22 11 16 00-0094	EA		5", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,054.78 3,085.62 -135.73 44.97	99.95
22 11 16 00-0095	EA		6", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,197.65 3,499.90 -153.95 51.39	114.26
22 11 16 00-0096	EA		8", 150 LB, Galvanized Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,425.06 4,158.63 -182.93 61.67	135.67
22 11 16 00-0097 Galvanized Malleable Iron Reducing Tee (22 11 16 00-0013)					
22 11 16 00-0098	EA		1/2", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	39.61 35.84 -1.50 8.88	19.70
22 11 16 00-0099	EA		3/4", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	44.02 35.64 -1.48 10.24	22.81
22 11 16 00-0100	EA		1", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	54.24 49.65 -2.08 12.11	26.89
22 11 16 00-0101	EA		1-1/4", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	69.50 76.08 -3.23 14.39	32.05
22 11 16 00-0102	EA		1-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	83.86 93.88 -3.99 17.18	38.16
22 11 16 00-0103	EA		2", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	109.83 136.28 -5.82 21.30	47.40



SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0104 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....214.57 470.96 -20.57 23.23	51.65
22 11 16 00-0105 EA 3", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....272.78 610.45 -26.68 28.47	63.29
22 11 16 00-0106 EA 4", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....641.85 1,760.72 -77.34 37.87	84.19
22 11 16 00-0107 EA 5", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....1,849.41 5,787.36 -254.93 44.97	99.95
22 11 16 00-0108 EA 6", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....1,527.82 4,622.48 -203.48 51.39	114.26
22 11 16 00-0109 EA 8", 150 LB, Galvanized Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....1,832.62 5,572.93 -245.34 59.10	131.20
22 11 16 00-0110 Galvanized Malleable Iron Couplings (22 11 16 00-0013)		
22 11 16 00-0111 EA 1/2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....27.82 15.56 -0.62 7.10	15.80
22 11 16 00-0112 EA 3/4", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....31.28 17.88 -0.72 7.95	17.66
22 11 16 00-0113 EA 1", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....37.44 28.47 -1.18 8.88	19.70
22 11 16 00-0114 EA 1-1/4", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....44.57 39.68 -1.66 10.05	22.37
22 11 16 00-0115 EA 1-1/2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....50.36 45.07 -1.89 11.33	25.20
22 11 16 00-0116 EA 2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....66.38 65.47 -2.76 14.39	32.05
22 11 16 00-0117 EA 2-1/2", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....127.36 195.88 -8.45 21.30	47.40
22 11 16 00-0118 EA 3", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....168.76 261.73 -11.30 28.03	62.31
22 11 16 00-0119 EA 4", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....259.91 549.93 -24.00 29.98	66.63
22 11 16 00-0120 EA 5", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....554.74 1,537.85 -67.57 31.28	69.54
22 11 16 00-0121 EA 6", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....622.21 1,751.42 -76.98 32.70	72.71
22 11 16 00-0122 EA 8", 150 LB, Galvanized Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....732.43 2,109.80 -92.78 34.17	75.98
22 11 16 00-0123 Galvanized Malleable Iron Reducing Couplings (22 11 16 00-0013)		
22 11 16 00-0124 EA 1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling..... <i>For 300 LB Rating, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	.....28.71 18.59 -0.76 7.10	15.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0125 EA 3/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	31.88	17.66
For 300 LB Rating, Add	19.92	
For ASTM 120, Deduct	-0.81	
For Work In Restricted Working Space, Add	7.95	
22 11 16 00-0126 EA 1", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	38.58	19.70
For 300 LB Rating, Add	32.34	
For ASTM 120, Deduct	-1.35	
For Work In Restricted Working Space, Add	8.88	
22 11 16 00-0127 EA 1-1/4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	45.12	22.37
For 300 LB Rating, Add	41.55	
For ASTM 120, Deduct	-1.74	
For Work In Restricted Working Space, Add	10.05	
22 11 16 00-0128 EA 1-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	52.77	25.20
For 300 LB Rating, Add	53.27	
For ASTM 120, Deduct	-2.25	
For Work In Restricted Working Space, Add	11.33	
22 11 16 00-0129 EA 2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	68.42	32.05
For 300 LB Rating, Add	72.41	
For ASTM 120, Deduct	-3.07	
For Work In Restricted Working Space, Add	14.39	
22 11 16 00-0130 EA 2-1/2", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	128.07	47.40
For 300 LB Rating, Add	198.30	
For ASTM 120, Deduct	-8.56	
For Work In Restricted Working Space, Add	21.30	
22 11 16 00-0131 EA 3", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	166.62	62.31
For 300 LB Rating, Add	254.45	
For ASTM 120, Deduct	-10.98	
For Work In Restricted Working Space, Add	28.03	
22 11 16 00-0132 EA 4", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	264.03	66.63
For 300 LB Rating, Add	563.94	
For ASTM 120, Deduct	-24.62	
For Work In Restricted Working Space, Add	29.98	
22 11 16 00-0133 EA 5", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	578.45	69.54
For 300 LB Rating, Add	1,618.47	
For ASTM 120, Deduct	-71.13	
For Work In Restricted Working Space, Add	31.28	
22 11 16 00-0134 EA 6", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	649.22	72.71
For 300 LB Rating, Add	1,843.25	
For ASTM 120, Deduct	-81.03	
For Work In Restricted Working Space, Add	32.70	
22 11 16 00-0135 EA 8", 150 LB, Galvanized Malleable Iron Reducing Coupling.....	765.22	75.98
For 300 LB Rating, Add	2,221.29	
For ASTM 120, Deduct	-97.70	
For Work In Restricted Working Space, Add	34.17	
22 11 16 00-0136 Galvanized Malleable Iron Caps (22 11 16 00-0013)		
22 11 16 00-0137 EA 1/2", 150 LB, Galvanized Malleable Iron Cap	13.33	7.36
For 300 LB Rating, Add	8.25	
For ASTM 120, Deduct	-0.33	
For Work In Restricted Working Space, Add	3.33	
22 11 16 00-0138 EA 3/4", 150 LB, Galvanized Malleable Iron Cap	14.92	7.90
For 300 LB Rating, Add	11.22	
For ASTM 120, Deduct	-0.46	
For Work In Restricted Working Space, Add	3.55	
22 11 16 00-0139 EA 1", 150 LB, Galvanized Malleable Iron Cap	17.48	9.15
For 300 LB Rating, Add	13.84	
For ASTM 120, Deduct	-0.57	
For Work In Restricted Working Space, Add	4.10	
22 11 16 00-0140 EA 1-1/4", 150 LB, Galvanized Malleable Iron Cap	19.36	9.59
For 300 LB Rating, Add	18.00	
For ASTM 120, Deduct	-0.76	
For Work In Restricted Working Space, Add	4.30	
22 11 16 00-0141 EA 1-1/2", 150 LB, Galvanized Malleable Iron Cap	19.05	9.59
For 300 LB Rating, Add	16.94	
For ASTM 120, Deduct	-0.71	
For Work In Restricted Working Space, Add	4.30	
22 11 16 00-0142 EA 2", 150 LB, Galvanized Malleable Iron Cap	29.20	12.69
For 300 LB Rating, Add	35.52	
For ASTM 120, Deduct	-1.52	
For Work In Restricted Working Space, Add	5.73	
22 11 16 00-0143 EA 2-1/2", 150 LB, Galvanized Malleable Iron Cap	46.35	15.80
For 300 LB Rating, Add	78.57	
For ASTM 120, Deduct	-3.40	
For Work In Restricted Working Space, Add	7.10	
22 11 16 00-0144 EA 3", 150 LB, Galvanized Malleable Iron Cap	60.94	19.09
For 300 LB Rating, Add	111.57	
For ASTM 120, Deduct	-4.85	
For Work In Restricted Working Space, Add	8.59	
22 11 16 00-0145 EA 4", 150 LB, Galvanized Malleable Iron Cap	94.66	22.87
For 300 LB Rating, Add	207.42	
For ASTM 120, Deduct	-9.06	
For Work In Restricted Working Space, Add	10.28	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0146 EA 5", 150 LB, Galvanized Malleable Iron Cap.....	243.32	28.60
For 300 LB Rating, Add	684.27	
For ASTM 120, Deduct	-30.08	
For Work In Restricted Working Space, Add	12.85	
22 11 16 00-0147 EA 6", 150 LB, Galvanized Malleable Iron Cap.....	303.73	34.00
For 300 LB Rating, Add	862.24	
For ASTM 120, Deduct	-37.91	
For Work In Restricted Working Space, Add	15.31	
22 11 16 00-0148 EA 8", 150 LB, Galvanized Malleable Iron Cap.....	384.45	38.00
For 300 LB Rating, Add	1,116.88	
For ASTM 120, Deduct	-49.12	
For Work In Restricted Working Space, Add	17.09	
22 11 16 00-0149 Galvanized Malleable Iron Unions (22 11 16 00-0013)		
22 11 16 00-0150 EA 1/2", 150 LB, Galvanized Malleable Iron Union.....	45.92	19.70
For Work In Restricted Working Space, Add	8.88	
22 11 16 00-0151 EA 3/4", 150 LB, Galvanized Malleable Iron Union.....	52.90	22.81
For Work In Restricted Working Space, Add	10.24	
22 11 16 00-0152 EA 1", 150 LB, Galvanized Malleable Iron Union.....	64.92	26.89
For Work In Restricted Working Space, Add	12.11	
22 11 16 00-0153 EA 1-1/4", 150 LB, Galvanized Malleable Iron Union.....	83.49	32.05
For Work In Restricted Working Space, Add	14.39	
22 11 16 00-0154 EA 1-1/2", 150 LB, Galvanized Malleable Iron Union.....	100.30	38.16
For Work In Restricted Working Space, Add	17.18	
22 11 16 00-0155 EA 2", 150 LB, Galvanized Malleable Iron Union.....	120.48	47.40
For Work In Restricted Working Space, Add	21.30	
22 11 16 00-0156 EA 2-1/2", 150 LB, Galvanized Malleable Iron Union.....	276.69	69.86
For Work In Restricted Working Space, Add	31.45	
22 11 16 00-0157 EA 3", 150 LB, Galvanized Malleable Iron Union.....	378.47	91.86
For Work In Restricted Working Space, Add	41.38	
22 11 16 00-0158 EA 1/2", 250 LB, Galvanized Malleable Iron Union.....	62.78	19.70
For Work In Restricted Working Space, Add	8.87	
22 11 16 00-0159 EA 3/4", 250 LB, Galvanized Malleable Iron Union.....	64.31	22.81
For Work In Restricted Working Space, Add	10.24	
22 11 16 00-0160 EA 1", 250 LB, Galvanized Malleable Iron Union.....	77.74	26.89
For Work In Restricted Working Space, Add	12.10	
22 11 16 00-0161 EA 1-1/4", 250 LB, Galvanized Malleable Iron Union.....	104.61	32.05
For Work In Restricted Working Space, Add	14.39	
22 11 16 00-0162 EA 1-1/2", 250 LB, Galvanized Malleable Iron Union.....	122.47	38.16
For Work In Restricted Working Space, Add	17.18	
22 11 16 00-0163 EA 2", 250 LB, Galvanized Malleable Iron Union.....	163.08	47.40
For Work In Restricted Working Space, Add	21.30	
22 11 16 00-0164 EA 2-1/2", 250 LB, Galvanized Malleable Iron Union.....	347.05	69.86
For Work In Restricted Working Space, Add	31.45	
22 11 16 00-0165 EA 3", 250 LB, Galvanized Malleable Iron Union.....	509.57	91.86
For Work In Restricted Working Space, Add	41.38	
22 11 16 00-0166 EA 4", 250 LB, Galvanized Malleable Iron Union.....	730.49	98.33
For Work In Restricted Working Space, Add	44.25	
22 11 16 00-0167 EA 1/2", 300 LB, Galvanized Malleable Iron Union.....	67.41	19.70
For Work In Restricted Working Space, Add	8.87	
22 11 16 00-0168 EA 3/4", 300 LB, Galvanized Malleable Iron Union.....	75.16	22.81
For Work In Restricted Working Space, Add	10.24	
22 11 16 00-0169 EA 1", 300 LB, Galvanized Malleable Iron Union.....	94.76	26.89
For Work In Restricted Working Space, Add	12.10	
22 11 16 00-0170 EA 1-1/4", 300 LB, Galvanized Malleable Iron Union.....	123.85	32.05
For Work In Restricted Working Space, Add	14.39	
22 11 16 00-0171 EA 1-1/2", 300 LB, Galvanized Malleable Iron Union.....	148.64	38.16
For Work In Restricted Working Space, Add	17.18	
22 11 16 00-0172 EA 2", 300 LB, Galvanized Malleable Iron Union.....	180.67	47.40
For Work In Restricted Working Space, Add	21.30	
22 11 16 00-0173 EA 2-1/2", 300 LB, Galvanized Malleable Iron Union.....	410.73	69.86
For Work In Restricted Working Space, Add	31.45	
22 11 16 00-0174 EA 3", 300 LB, Galvanized Malleable Iron Union.....	655.30	91.86
For Work In Restricted Working Space, Add	41.38	
22 11 16 00-0175 EA 4", 300 LB, Galvanized Malleable Iron Union.....	1,445.10	98.33
For Work In Restricted Working Space, Add	44.25	
22 11 16 00-0176 Galvanized Steel Nipples (22 11 16 00-0013)		
Note: ASTM A-53.		
22 11 16 00-0177 EA 3/8" x Close, Schedule 40 Galvanized Steel Nipple.....	14.38	8.43
For Schedule 80 Nipples, Add	1.94	
For ASTM 120, Deduct	-0.26	
For Work In Restricted Working Space, Add	3.80	
22 11 16 00-0178 EA 1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	14.06	8.43
For Schedule 80 Nipples, Add	1.57	
For ASTM 120, Deduct	-0.21	
For Work In Restricted Working Space, Add	3.80	
22 11 16 00-0179 EA 3/4" x Close, Schedule 40 Galvanized Steel Nipple.....	14.36	8.43
For Schedule 80 Nipples, Add	1.92	
For ASTM 120, Deduct	-0.25	
For Work In Restricted Working Space, Add	3.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0180	EA		1" x Close, Schedule 40 Galvanized Steel Nipple.....	15.95	9.15
			<i>For Schedule 80 Nipples, Add</i>	2.62	
			<i>For ASTM 120, Deduct</i>	-0.35	
			<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0181	EA		1-1/4" x Close, Schedule 40 Galvanized Steel Nipple.....	17.87	9.85
			<i>For Schedule 80 Nipples, Add</i>	3.51	
			<i>For ASTM 120, Deduct</i>	-0.46	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0182	EA		1-1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	18.41	9.85
			<i>For Schedule 80 Nipples, Add</i>	4.13	
			<i>For ASTM 120, Deduct</i>	-0.54	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0183	EA		2" x Close, Schedule 40 Galvanized Steel Nipple.....	24.19	12.69
			<i>For Schedule 80 Nipples, Add</i>	5.81	
			<i>For ASTM 120, Deduct</i>	-0.77	
			<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-0184	EA		2-1/2" x Close, Schedule 40 Galvanized Steel Nipple.....	38.84	15.80
			<i>For Schedule 80 Nipples, Add</i>	17.31	
			<i>For ASTM 120, Deduct</i>	-2.28	
			<i>For Work In Restricted Working Space, Add</i>	7.10	
22 11 16 00-0185	EA		3" x Close, Schedule 40 Galvanized Steel Nipple.....	46.82	19.09
			<i>For Schedule 80 Nipples, Add</i>	20.74	
			<i>For ASTM 120, Deduct</i>	-2.73	
			<i>For Work In Restricted Working Space, Add</i>	8.59	
22 11 16 00-0186	EA		4" x Close, Schedule 40 Galvanized Steel Nipple.....	61.52	22.87
			<i>For Schedule 80 Nipples, Add</i>	31.08	
			<i>For ASTM 120, Deduct</i>	-4.09	
			<i>For Work In Restricted Working Space, Add</i>	10.28	
22 11 16 00-0187	EA		3/8" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	14.64	8.43
			<i>For Schedule 80 Nipples, Add</i>	2.23	
			<i>For ASTM 120, Deduct</i>	-0.29	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0188	EA		1/2" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	14.13	8.43
			<i>For Schedule 80 Nipples, Add</i>	1.65	
			<i>For ASTM 120, Deduct</i>	-0.22	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0189	EA		3/4" x 1-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	14.50	8.43
			<i>For Schedule 80 Nipples, Add</i>	2.07	
			<i>For ASTM 120, Deduct</i>	-0.27	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0190	EA		3/8" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	14.64	8.43
			<i>For Schedule 80 Nipples, Add</i>	2.23	
			<i>For ASTM 120, Deduct</i>	-0.29	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0191	EA		1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	14.13	8.43
			<i>For Schedule 80 Nipples, Add</i>	1.65	
			<i>For ASTM 120, Deduct</i>	-0.22	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0192	EA		3/4" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	14.50	8.43
			<i>For Schedule 80 Nipples, Add</i>	2.07	
			<i>For ASTM 120, Deduct</i>	-0.27	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0193	EA		1" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	16.36	9.15
			<i>For Schedule 80 Nipples, Add</i>	3.09	
			<i>For ASTM 120, Deduct</i>	-0.41	
			<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0194	EA		1-1/4" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	18.10	9.85
			<i>For Schedule 80 Nipples, Add</i>	3.77	
			<i>For ASTM 120, Deduct</i>	-0.50	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0195	EA		1-1/2" x 2" Long, Schedule 40 Galvanized Steel Nipple.....	18.67	9.85
			<i>For Schedule 80 Nipples, Add</i>	4.42	
			<i>For ASTM 120, Deduct</i>	-0.58	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0196	EA		3/8" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.29	8.43
			<i>For Schedule 80 Nipples, Add</i>	2.98	
			<i>For ASTM 120, Deduct</i>	-0.39	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0197	EA		1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	14.38	8.43
			<i>For Schedule 80 Nipples, Add</i>	1.94	
			<i>For ASTM 120, Deduct</i>	-0.26	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0198	EA		3/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	14.70	8.43
			<i>For Schedule 80 Nipples, Add</i>	2.30	
			<i>For ASTM 120, Deduct</i>	-0.30	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0199	EA		1" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	16.59	9.15
			<i>For Schedule 80 Nipples, Add</i>	3.35	
			<i>For ASTM 120, Deduct</i>	-0.44	
			<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0200	EA		1-1/4" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	18.42	9.85
			<i>For Schedule 80 Nipples, Add</i>	4.14	
			<i>For ASTM 120, Deduct</i>	-0.54	
			<i>For Work In Restricted Working Space, Add</i>	4.44	



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0201	EA	1-1/2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.12	9.85
		<i>For Schedule 80 Nipples, Add</i>	4.94	
		<i>For ASTM 120, Deduct</i>	-0.65	
		<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0202	EA	2" x 2-1/2" Long, Schedule 40 Galvanized Steel Nipple	24.83	12.69
		<i>For Schedule 80 Nipples, Add</i>	6.54	
		<i>For ASTM 120, Deduct</i>	-0.86	
		<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-0203	EA	3/8" x 3" Long, Schedule 40 Galvanized Steel Nipple	15.29	8.43
		<i>For Schedule 80 Nipples, Add</i>	2.98	
		<i>For ASTM 120, Deduct</i>	-0.39	
		<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0204	EA	1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	14.38	8.43
		<i>For Schedule 80 Nipples, Add</i>	1.94	
		<i>For ASTM 120, Deduct</i>	-0.26	
		<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0205	EA	3/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	14.70	8.43
		<i>For Schedule 80 Nipples, Add</i>	2.30	
		<i>For ASTM 120, Deduct</i>	-0.30	
		<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0206	EA	1" x 3" Long, Schedule 40 Galvanized Steel Nipple	16.59	9.15
		<i>For Schedule 80 Nipples, Add</i>	3.35	
		<i>For ASTM 120, Deduct</i>	-0.44	
		<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0207	EA	1-1/4" x 3" Long, Schedule 40 Galvanized Steel Nipple	18.42	9.85
		<i>For Schedule 80 Nipples, Add</i>	4.14	
		<i>For ASTM 120, Deduct</i>	-0.54	
		<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0208	EA	1-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	19.12	9.85
		<i>For Schedule 80 Nipples, Add</i>	4.94	
		<i>For ASTM 120, Deduct</i>	-0.65	
		<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0209	EA	2" x 3" Long, Schedule 40 Galvanized Steel Nipple	24.83	12.69
		<i>For Schedule 80 Nipples, Add</i>	6.54	
		<i>For ASTM 120, Deduct</i>	-0.86	
		<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-0210	EA	2-1/2" x 3" Long, Schedule 40 Galvanized Steel Nipple	39.42	15.80
		<i>For Schedule 80 Nipples, Add</i>	17.97	
		<i>For ASTM 120, Deduct</i>	-2.36	
		<i>For Work In Restricted Working Space, Add</i>	7.10	
22 11 16 00-0211	EA	3" x 3" Long, Schedule 40 Galvanized Steel Nipple	49.32	19.09
		<i>For Schedule 80 Nipples, Add</i>	23.59	
		<i>For ASTM 120, Deduct</i>	-3.10	
		<i>For Work In Restricted Working Space, Add</i>	8.59	
22 11 16 00-0212	EA	3/8" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.78	8.43
		<i>For Schedule 80 Nipples, Add</i>	3.53	
		<i>For ASTM 120, Deduct</i>	-0.47	
		<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0213	EA	1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	14.78	8.43
		<i>For Schedule 80 Nipples, Add</i>	2.39	
		<i>For ASTM 120, Deduct</i>	-0.32	
		<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0214	EA	3/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	15.29	8.43
		<i>For Schedule 80 Nipples, Add</i>	2.98	
		<i>For ASTM 120, Deduct</i>	-0.39	
		<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0215	EA	1" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	17.18	9.15
		<i>For Schedule 80 Nipples, Add</i>	4.02	
		<i>For ASTM 120, Deduct</i>	-0.53	
		<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0216	EA	1-1/4" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	19.12	9.85
		<i>For Schedule 80 Nipples, Add</i>	4.94	
		<i>For ASTM 120, Deduct</i>	-0.65	
		<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0217	EA	1-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	20.26	9.85
		<i>For Schedule 80 Nipples, Add</i>	6.24	
		<i>For ASTM 120, Deduct</i>	-0.82	
		<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0218	EA	2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	26.06	12.69
		<i>For Schedule 80 Nipples, Add</i>	7.95	
		<i>For ASTM 120, Deduct</i>	-1.05	
		<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-0219	EA	2-1/2" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	41.95	15.80
		<i>For Schedule 80 Nipples, Add</i>	20.85	
		<i>For ASTM 120, Deduct</i>	-2.74	
		<i>For Work In Restricted Working Space, Add</i>	7.10	
22 11 16 00-0220	EA	3" x 3-1/2" Long, Schedule 40 Galvanized Steel Nipple	52.91	19.09
		<i>For Schedule 80 Nipples, Add</i>	27.68	
		<i>For ASTM 120, Deduct</i>	-3.64	
		<i>For Work In Restricted Working Space, Add</i>	8.59	
22 11 16 00-0221	EA	3/8" x 4" Long, Schedule 40 Galvanized Steel Nipple	15.78	8.43
		<i>For Schedule 80 Nipples, Add</i>	3.53	
		<i>For ASTM 120, Deduct</i>	-0.47	
		<i>For Work In Restricted Working Space, Add</i>	3.80	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0222	EA		1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	14.78	8.43
			<i>For Schedule 80 Nipples, Add</i>	2.39	
			<i>For ASTM 120, Deduct</i>	-0.32	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0223	EA		3/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	15.78	8.43
			<i>For Schedule 80 Nipples, Add</i>	3.53	
			<i>For ASTM 120, Deduct</i>	-0.47	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0224	EA		1" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	17.18	9.15
			<i>For Schedule 80 Nipples, Add</i>	4.02	
			<i>For ASTM 120, Deduct</i>	-0.53	
			<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0225	EA		1-1/4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	19.12	9.85
			<i>For Schedule 80 Nipples, Add</i>	4.94	
			<i>For ASTM 120, Deduct</i>	-0.65	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0226	EA		1-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	20.26	9.85
			<i>For Schedule 80 Nipples, Add</i>	6.24	
			<i>For ASTM 120, Deduct</i>	-0.82	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0227	EA		2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	26.12	12.69
			<i>For Schedule 80 Nipples, Add</i>	8.01	
			<i>For ASTM 120, Deduct</i>	-1.05	
			<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-0228	EA		2-1/2" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	41.95	15.80
			<i>For Schedule 80 Nipples, Add</i>	20.85	
			<i>For ASTM 120, Deduct</i>	-2.74	
			<i>For Work In Restricted Working Space, Add</i>	7.10	
22 11 16 00-0229	EA		3" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	52.91	19.09
			<i>For Schedule 80 Nipples, Add</i>	27.68	
			<i>For ASTM 120, Deduct</i>	-3.64	
			<i>For Work In Restricted Working Space, Add</i>	8.59	
22 11 16 00-0230	EA		4" x 4" Long, Schedule 40 Galvanized Steel Nipple.....	66.86	22.87
			<i>For Schedule 80 Nipples, Add</i>	37.16	
			<i>For ASTM 120, Deduct</i>	-4.89	
			<i>For Work In Restricted Working Space, Add</i>	10.28	
22 11 16 00-0231	EA		3/8" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	16.95	8.43
			<i>For Schedule 80 Nipples, Add</i>	4.87	
			<i>For ASTM 120, Deduct</i>	-0.64	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0232	EA		1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.21	8.43
			<i>For Schedule 80 Nipples, Add</i>	2.88	
			<i>For ASTM 120, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0233	EA		3/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	15.79	8.43
			<i>For Schedule 80 Nipples, Add</i>	3.55	
			<i>For ASTM 120, Deduct</i>	-0.47	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0234	EA		1" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	17.98	9.15
			<i>For Schedule 80 Nipples, Add</i>	4.94	
			<i>For ASTM 120, Deduct</i>	-0.65	
			<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0235	EA		1-1/4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	20.14	9.85
			<i>For Schedule 80 Nipples, Add</i>	6.10	
			<i>For ASTM 120, Deduct</i>	-0.80	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0236	EA		1-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	21.40	9.85
			<i>For Schedule 80 Nipples, Add</i>	7.54	
			<i>For ASTM 120, Deduct</i>	-0.99	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0237	EA		2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	27.98	12.69
			<i>For Schedule 80 Nipples, Add</i>	10.13	
			<i>For ASTM 120, Deduct</i>	-1.33	
			<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-0238	EA		2-1/2" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	44.06	15.80
			<i>For Schedule 80 Nipples, Add</i>	23.26	
			<i>For ASTM 120, Deduct</i>	-3.06	
			<i>For Work In Restricted Working Space, Add</i>	7.10	
22 11 16 00-0239	EA		3" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	56.93	19.09
			<i>For Schedule 80 Nipples, Add</i>	32.26	
			<i>For ASTM 120, Deduct</i>	-4.25	
			<i>For Work In Restricted Working Space, Add</i>	8.59	
22 11 16 00-0240	EA		4" x 4-1/2" Long, Schedule 40 Galvanized Steel Nipple.....	70.82	22.87
			<i>For Schedule 80 Nipples, Add</i>	41.68	
			<i>For ASTM 120, Deduct</i>	-5.48	
			<i>For Work In Restricted Working Space, Add</i>	10.28	
22 11 16 00-0241	EA		3/8" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	16.95	8.43
			<i>For Schedule 80 Nipples, Add</i>	4.87	
			<i>For ASTM 120, Deduct</i>	-0.64	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0242	EA		1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	15.21	8.43
			<i>For Schedule 80 Nipples, Add</i>	2.88	
			<i>For ASTM 120, Deduct</i>	-0.38	
			<i>For Work In Restricted Working Space, Add</i>	3.80	



SAN BERNARDINO
COUNTY

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0243	EA		3/4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	15.79	8.43
			<i>For Schedule 80 Nipples, Add</i>	3.55	
			<i>For ASTM 120, Deduct</i>	-0.47	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0244	EA		1" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	17.98	9.15
			<i>For Schedule 80 Nipples, Add</i>	4.94	
			<i>For ASTM 120, Deduct</i>	-0.65	
			<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0245	EA		1-1/4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	20.14	9.85
			<i>For Schedule 80 Nipples, Add</i>	6.10	
			<i>For ASTM 120, Deduct</i>	-0.80	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0246	EA		1-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	21.40	9.85
			<i>For Schedule 80 Nipples, Add</i>	7.54	
			<i>For ASTM 120, Deduct</i>	-0.99	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0247	EA		2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	27.98	12.69
			<i>For Schedule 80 Nipples, Add</i>	10.13	
			<i>For ASTM 120, Deduct</i>	-1.33	
			<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-0248	EA		2-1/2" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	44.06	15.80
			<i>For Schedule 80 Nipples, Add</i>	23.26	
			<i>For ASTM 120, Deduct</i>	-3.06	
			<i>For Work In Restricted Working Space, Add</i>	7.10	
22 11 16 00-0249	EA		3" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	56.93	19.09
			<i>For Schedule 80 Nipples, Add</i>	32.26	
			<i>For ASTM 120, Deduct</i>	-4.25	
			<i>For Work In Restricted Working Space, Add</i>	8.59	
22 11 16 00-0250	EA		4" x 5" Long, Schedule 40 Galvanized Steel Nipple.....	70.82	22.87
			<i>For Schedule 80 Nipples, Add</i>	41.68	
			<i>For ASTM 120, Deduct</i>	-5.48	
			<i>For Work In Restricted Working Space, Add</i>	10.28	
22 11 16 00-0251	EA		3/8" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	17.42	8.43
			<i>For Schedule 80 Nipples, Add</i>	5.40	
			<i>For ASTM 120, Deduct</i>	-0.71	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0252	EA		1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	15.56	8.43
			<i>For Schedule 80 Nipples, Add</i>	3.28	
			<i>For ASTM 120, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0253	EA		3/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	16.42	8.43
			<i>For Schedule 80 Nipples, Add</i>	4.26	
			<i>For ASTM 120, Deduct</i>	-0.56	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0254	EA		1" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	18.56	9.15
			<i>For Schedule 80 Nipples, Add</i>	5.60	
			<i>For ASTM 120, Deduct</i>	-0.74	
			<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0255	EA		1-1/4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	21.00	9.85
			<i>For Schedule 80 Nipples, Add</i>	7.08	
			<i>For ASTM 120, Deduct</i>	-0.93	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0256	EA		1-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	22.23	9.85
			<i>For Schedule 80 Nipples, Add</i>	8.48	
			<i>For ASTM 120, Deduct</i>	-1.12	
			<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0257	EA		2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	29.42	12.69
			<i>For Schedule 80 Nipples, Add</i>	11.78	
			<i>For ASTM 120, Deduct</i>	-1.55	
			<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-0258	EA		2-1/2" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	46.07	15.80
			<i>For Schedule 80 Nipples, Add</i>	25.55	
			<i>For ASTM 120, Deduct</i>	-3.36	
			<i>For Work In Restricted Working Space, Add</i>	7.10	
22 11 16 00-0259	EA		3" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	58.56	19.09
			<i>For Schedule 80 Nipples, Add</i>	34.12	
			<i>For ASTM 120, Deduct</i>	-4.49	
			<i>For Work In Restricted Working Space, Add</i>	8.59	
22 11 16 00-0260	EA		4" x 6" Long, Schedule 40 Galvanized Steel Nipple.....	74.67	22.87
			<i>For Schedule 80 Nipples, Add</i>	46.07	
			<i>For ASTM 120, Deduct</i>	-6.06	
			<i>For Work In Restricted Working Space, Add</i>	10.28	
22 11 16 00-0261	EA		3/8" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	31.64	8.43
			<i>For Schedule 80 Nipples, Add</i>	21.61	
			<i>For ASTM 120, Deduct</i>	-2.84	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0262	EA		1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	17.75	8.43
			<i>For Schedule 80 Nipples, Add</i>	5.78	
			<i>For ASTM 120, Deduct</i>	-0.76	
			<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0263	EA		3/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	19.16	8.43
			<i>For Schedule 80 Nipples, Add</i>	7.39	
			<i>For ASTM 120, Deduct</i>	-0.97	
			<i>For Work In Restricted Working Space, Add</i>	3.80	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0264	EA			1" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	21.86	9.15
				<i>For Schedule 80 Nipples, Add</i>	9.36	
				<i>For ASTM 120, Deduct</i>	-1.23	
				<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0265	EA			1-1/4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	24.86	9.85
				<i>For Schedule 80 Nipples, Add</i>	11.48	
				<i>For ASTM 120, Deduct</i>	-1.51	
				<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0266	EA			1-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	26.34	9.85
				<i>For Schedule 80 Nipples, Add</i>	13.17	
				<i>For ASTM 120, Deduct</i>	-1.73	
				<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0267	EA			2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	35.93	12.69
				<i>For Schedule 80 Nipples, Add</i>	19.20	
				<i>For ASTM 120, Deduct</i>	-2.53	
				<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-0268	EA			2-1/2" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	52.51	15.80
				<i>For Schedule 80 Nipples, Add</i>	32.89	
				<i>For ASTM 120, Deduct</i>	-4.33	
				<i>For Work In Restricted Working Space, Add</i>	7.10	
22 11 16 00-0269	EA			3" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	68.95	19.09
				<i>For Schedule 80 Nipples, Add</i>	45.96	
				<i>For ASTM 120, Deduct</i>	-6.05	
				<i>For Work In Restricted Working Space, Add</i>	8.59	
22 11 16 00-0270	EA			4" x 8" Long, Schedule 40 Galvanized Steel Nipple.....	82.48	22.87
				<i>For Schedule 80 Nipples, Add</i>	54.97	
				<i>For ASTM 120, Deduct</i>	-7.23	
				<i>For Work In Restricted Working Space, Add</i>	10.28	
22 11 16 00-0271	EA			3/8" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	21.72	8.43
				<i>For Schedule 80 Nipples, Add</i>	10.31	
				<i>For ASTM 120, Deduct</i>	-1.36	
				<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0272	EA			1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	18.70	8.43
				<i>For Schedule 80 Nipples, Add</i>	6.86	
				<i>For ASTM 120, Deduct</i>	-0.90	
				<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0273	EA			3/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	19.87	8.43
				<i>For Schedule 80 Nipples, Add</i>	8.20	
				<i>For ASTM 120, Deduct</i>	-1.08	
				<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0274	EA			1" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	23.03	9.15
				<i>For Schedule 80 Nipples, Add</i>	10.69	
				<i>For ASTM 120, Deduct</i>	-1.41	
				<i>For Work In Restricted Working Space, Add</i>	4.10	
22 11 16 00-0275	EA			1-1/4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	26.83	9.85
				<i>For Schedule 80 Nipples, Add</i>	13.73	
				<i>For ASTM 120, Deduct</i>	-1.81	
				<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0276	EA			1-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	28.25	9.85
				<i>For Schedule 80 Nipples, Add</i>	15.34	
				<i>For ASTM 120, Deduct</i>	-2.02	
				<i>For Work In Restricted Working Space, Add</i>	4.44	
22 11 16 00-0277	EA			2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	38.79	12.69
				<i>For Schedule 80 Nipples, Add</i>	22.46	
				<i>For ASTM 120, Deduct</i>	-2.96	
				<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-0278	EA			2-1/2" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	56.54	15.80
				<i>For Schedule 80 Nipples, Add</i>	37.48	
				<i>For ASTM 120, Deduct</i>	-4.93	
				<i>For Work In Restricted Working Space, Add</i>	7.10	
22 11 16 00-0279	EA			3" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	74.63	19.09
				<i>For Schedule 80 Nipples, Add</i>	52.44	
				<i>For ASTM 120, Deduct</i>	-6.90	
				<i>For Work In Restricted Working Space, Add</i>	8.59	
22 11 16 00-0280	EA			4" x 10" Long, Schedule 40 Galvanized Steel Nipple.....	90.15	22.87
				<i>For Schedule 80 Nipples, Add</i>	63.71	
				<i>For ASTM 120, Deduct</i>	-8.38	
				<i>For Work In Restricted Working Space, Add</i>	10.28	
22 11 16 00-0281	EA			3/8" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	22.70	8.43
				<i>For Schedule 80 Nipples, Add</i>	11.42	
				<i>For ASTM 120, Deduct</i>	-1.50	
				<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0282	EA			1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	19.53	8.43
				<i>For Schedule 80 Nipples, Add</i>	7.81	
				<i>For ASTM 120, Deduct</i>	-1.03	
				<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0283	EA			3/4" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	20.74	8.43
				<i>For Schedule 80 Nipples, Add</i>	9.19	
				<i>For ASTM 120, Deduct</i>	-1.21	
				<i>For Work In Restricted Working Space, Add</i>	3.80	
22 11 16 00-0284	EA			1" x 12" Long, Schedule 40 Galvanized Steel Nipple.....	24.58	9.15
				<i>For Schedule 80 Nipples, Add</i>	12.46	
				<i>For ASTM 120, Deduct</i>	-1.64	
				<i>For Work In Restricted Working Space, Add</i>	4.10	



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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0285 EA 1-1/4" x 12" Long, Schedule 40 Galvanized Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.24 16.47 -2.17 4.44	9.85
22 11 16 00-0286 EA 1-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	30.19 17.56 -2.31 4.44	9.85
22 11 16 00-0287 EA 2" x 12" Long, Schedule 40 Galvanized Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	41.70 25.78 -3.39 5.73	12.69
22 11 16 00-0288 EA 2-1/2" x 12" Long, Schedule 40 Galvanized Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	60.45 41.94 -5.52 7.10	15.80
22 11 16 00-0289 EA 3" x 12" Long, Schedule 40 Galvanized Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	80.35 58.96 -7.76 8.59	19.09
22 11 16 00-0290 EA 4" x 12" Long, Schedule 40 Galvanized Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For ASTM 120, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	97.89 72.54 -9.54 10.28	22.87
22 11 16 00-0291 Galvanized Malleable Iron Square Head Plugs (22 11 16 00-0013)		
22 11 16 00-0292 EA 1/2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.65 18.18 2.84	6.30
22 11 16 00-0293 EA 3/4", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.77 18.25 3.18	7.10
22 11 16 00-0294 EA 1", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.51 20.02 3.55	7.90
22 11 16 00-0295 EA 1-1/4", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.12 30.49 4.02	8.96
22 11 16 00-0296 EA 1-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.86 40.89 4.53	10.03
22 11 16 00-0297 EA 2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	34.15 52.02 5.76	12.78
22 11 16 00-0298 EA 2-1/2", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.58 100.92 8.52	18.91
22 11 16 00-0299 EA 3", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.77 142.97 11.21	24.94
22 11 16 00-0300 EA 4", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.91 294.59 11.99	26.64
22 11 16 00-0301 EA 5", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	199.39 538.61 12.51	27.84
22 11 16 00-0302 EA 6", 150 LB, Galvanized Malleable Iron Square Head Plug..... <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	214.07 582.18 13.08	29.04
22 11 16 00-0303 Galvanized Malleable Iron Bushing (22 11 16 00-0013)		
22 11 16 00-0304 EA 3/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	36.53 7.52	16.68
22 11 16 00-0305 EA 1" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	40.32 7.99	17.75
22 11 16 00-0306 EA 1" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	41.02 8.41	18.72
22 11 16 00-0307 EA 1-1/4" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	47.76 8.57	19.09
22 11 16 00-0308 EA 1-1/4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	47.43 9.00	19.97
22 11 16 00-0309 EA 1-1/4" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	48.97 9.46	21.04
22 11 16 00-0310 EA 1-1/2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	56.06 9.22	20.50
22 11 16 00-0311 EA 1-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	57.47 9.64	21.39
22 11 16 00-0312 EA 1-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	56.52 10.10	22.46
22 11 16 00-0313 EA 1-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	56.72 10.69	23.78
22 11 16 00-0314 EA 2" x 1/2", 150 LB, Galvanized Malleable Iron Bushing..... <i>For Work In Restricted Working Space, Add</i>	67.47 10.75	23.88



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0315	EA		2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	66.69 11.17	24.85
22 11 16 00-0316	EA		2" x 1", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	66.63 11.63	25.83
22 11 16 00-0317	EA		2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	68.58 12.22	27.16
22 11 16 00-0318	EA		2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	67.29 12.86	28.58
22 11 16 00-0319	EA		2-1/2" x 3/4", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	94.56 14.63	32.49
22 11 16 00-0320	EA		2-1/2" x 1", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	96.10 15.09	33.55
22 11 16 00-0321	EA		2-1/2" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	98.05 15.68	34.79
22 11 16 00-0322	EA		2-1/2" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	99.35 16.32	36.30
22 11 16 00-0323	EA		2-1/2" x 2", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	99.32 17.85	39.67
22 11 16 00-0324	EA		3" x 3/4", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	120.43 17.99	39.94
22 11 16 00-0325	EA		3" x 1", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	121.96 18.45	41.01
22 11 16 00-0326	EA		3" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	123.92 19.04	42.34
22 11 16 00-0327	EA		3" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	124.88 19.68	43.76
22 11 16 00-0328	EA		3" x 2", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	124.45 21.21	47.13
22 11 16 00-0329	EA		3" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	139.08 24.66	54.85
22 11 16 00-0330	EA		4" x 3/4", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	189.47 18.83	41.79
22 11 16 00-0331	EA		4" x 1", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	190.96 19.27	42.82
22 11 16 00-0332	EA		4" x 1-1/4", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	192.84 19.84	44.11
22 11 16 00-0333	EA		4" x 1-1/2", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	194.90 20.45	45.48
22 11 16 00-0334	EA		4" x 2", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	184.91 21.93	48.73
22 11 16 00-0335	EA		4" x 2-1/2", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	210.94 25.27	56.18
22 11 16 00-0336	EA		4" x 3", 150 LB, Galvanized Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	213.39 28.52	63.38
22 11 16 00-0337			Galvanized Malleable Iron Floor Flange (22 11 16 00-0013)		
22 11 16 00-0338	EA		1/2", 150 LB, Galvanized Malleable Iron Floor Flange	53.29	32.43
22 11 16 00-0339	EA		3/4", 150 LB, Galvanized Malleable Iron Floor Flange	58.27	35.51
22 11 16 00-0340	EA		1", 150 LB, Galvanized Malleable Iron Floor Flange	66.70	40.11
22 11 16 00-0341	EA		1-1/4", 150 LB, Galvanized Malleable Iron Floor Flange	69.26	41.53
22 11 16 00-0342	EA		1-1/2", 150 LB, Galvanized Malleable Iron Floor Flange	75.36	45.18
22 11 16 00-0343	EA		2", 150 LB, Galvanized Malleable Iron Floor Flange	80.64	47.13
22 11 16 00-0344			Galvanized Cast Iron Flanges (22 11 16 00-0013)		
22 11 16 00-0345	EA		3/4", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	92.44 15.98	35.51
22 11 16 00-0346	EA		1", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	90.51 18.05	40.11
22 11 16 00-0347	EA		1-1/4", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	78.32 18.68	41.53
22 11 16 00-0348	EA		1-1/2", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	103.39 20.33	45.18
22 11 16 00-0349	EA		2", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	102.05 21.21	47.13
22 11 16 00-0350	EA		2-1/2", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	118.45 24.54	54.58
22 11 16 00-0351	EA		3", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	202.79 31.13	69.23
22 11 16 00-0352	EA		4", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	271.86 41.10	91.39
22 11 16 00-0353	EA		5", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	374.81 48.93	108.78
22 11 16 00-0354	EA		6", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	413.63 56.21	124.96
22 11 16 00-0355	EA		8", 125 LB, Galvanized Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	391.04 64.24	142.82
22 11 16 00-0356			Cut And Thread Existing In-Place Galvanized Steel Pipe (22 11 16 00-0013) Note: For use when connecting pipe to an existing in-place system.		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0357	EA	1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	28.91	
		<i>For Work In Restricted Working Space, Add</i>	8.67	
22 11 16 00-0358	EA	3/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	31.81	
		<i>For Work In Restricted Working Space, Add</i>	9.54	
22 11 16 00-0359	EA	1", Cut And Thread Existing In Place Galvanized Steel Pipe.....	34.70	
		<i>For Work In Restricted Working Space, Add</i>	10.41	
22 11 16 00-0360	EA	1-1/4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	37.59	
		<i>For Work In Restricted Working Space, Add</i>	11.28	
22 11 16 00-0361	EA	1-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	39.51	
		<i>For Work In Restricted Working Space, Add</i>	11.85	
22 11 16 00-0362	EA	2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	41.45	
		<i>For Work In Restricted Working Space, Add</i>	12.44	
22 11 16 00-0363	EA	2-1/2", Cut And Thread Existing In Place Galvanized Steel Pipe.....	43.38	
		<i>For Work In Restricted Working Space, Add</i>	13.01	
22 11 16 00-0364	EA	3", Cut And Thread Existing In Place Galvanized Steel Pipe.....	45.30	
		<i>For Work In Restricted Working Space, Add</i>	13.59	
22 11 16 00-0365	EA	4", Cut And Thread Existing In Place Galvanized Steel Pipe.....	47.23	
		<i>For Work In Restricted Working Space, Add</i>	14.17	
22 11 16 00-0366	EA	6", Cut And Thread Existing In Place Galvanized Steel Pipe.....	51.08	
		<i>For Work In Restricted Working Space, Add</i>	15.32	
22 11 16 00-0367	EA	8", Cut And Thread Existing In Place Galvanized Steel Pipe.....	54.93	
		<i>For Work In Restricted Working Space, Add</i>	16.48	
22 11 16 00-0368		Copper Pipe And Fittings <small>(22 11 16)</small> Note: Excludes hangers. See CSI section 22 11 16 00-0899 for pipe with fittings assembly.		
22 11 16 00-0369		Copper Tube/Pipe <small>(22 11 16 00-0369)</small> Note: Pipe based on inside diameter size. Excludes hangers and fittings (couplers, tees, elbows, etc).		
22 11 16 00-0370		Hard Drawn Type L Copper Tube/Pipe <small>(22 11 16 00-0369)</small>		
22 11 16 00-0371	LF	1/4" Hard Drawn Type L Copper Tube/Pipe.....	3.92	2.17
		<i>For Medical/Oxygen Service Tubing, Add</i>	0.05	
		<i>For <20, Add</i>	0.07	
		<i>For >150, Deduct</i>	-0.13	
		<i>For Work In Restricted Working Space, Add</i>	0.98	
22 11 16 00-0372	LF	3/8" Hard Drawn Type L Copper Tube/Pipe.....	4.37	2.25
		<i>For Medical/Oxygen Service Tubing, Add</i>	0.08	
		<i>For <20, Add</i>	0.10	
		<i>For >150, Deduct</i>	-0.20	
		<i>For Work In Restricted Working Space, Add</i>	1.02	
22 11 16 00-0373	LF	1/2" Hard Drawn Type L Copper Tube/Pipe.....	4.70	2.35
		<i>For Medical/Oxygen Service Tubing, Add</i>	0.09	
		<i>For <20, Add</i>	0.12	
		<i>For >150, Deduct</i>	-0.23	
		<i>For Work In Restricted Working Space, Add</i>	1.06	
22 11 16 00-0374	LF	3/4" Hard Drawn Type L Copper Tube/Pipe.....	5.64	2.49
		<i>For Medical/Oxygen Service Tubing, Add</i>	0.15	
		<i>For <20, Add</i>	0.19	
		<i>For >150, Deduct</i>	-0.38	
		<i>For Work In Restricted Working Space, Add</i>	1.12	
22 11 16 00-0375	LF	1" Hard Drawn Type L Copper Tube/Pipe.....	6.95	2.81
		<i>For Medical/Oxygen Service Tubing, Add</i>	0.22	
		<i>For <20, Add</i>	0.28	
		<i>For >150, Deduct</i>	-0.55	
		<i>For Work In Restricted Working Space, Add</i>	1.26	
22 11 16 00-0376	LF	1-1/4" Hard Drawn Type L Copper Tube/Pipe.....	10.05	4.17
		<i>For Medical/Oxygen Service Tubing, Add</i>	0.30	
		<i>For <20, Add</i>	0.38	
		<i>For >150, Deduct</i>	-0.76	
		<i>For Work In Restricted Working Space, Add</i>	1.88	
22 11 16 00-0377	LF	1-1/2" Hard Drawn Type L Copper Tube/Pipe.....	11.86	4.66
		<i>For Medical/Oxygen Service Tubing, Add</i>	0.39	
		<i>For <20, Add</i>	0.49	
		<i>For >150, Deduct</i>	-0.98	
		<i>For Work In Restricted Working Space, Add</i>	2.09	
22 11 16 00-0378	LF	2" Hard Drawn Type L Copper Tube/Pipe.....	16.33	5.74
		<i>For Medical/Oxygen Service Tubing, Add</i>	0.62	
		<i>For <20, Add</i>	0.77	
		<i>For >150, Deduct</i>	-1.54	
		<i>For Work In Restricted Working Space, Add</i>	2.58	
22 11 16 00-0379	LF	2-1/2" Hard Drawn Type L Copper Tube/Pipe.....	31.43	6.75
		<i>For Medical/Oxygen Service Tubing, Add</i>	0.89	
		<i>For <20, Add</i>	1.11	
		<i>For >150, Deduct</i>	-2.23	
		<i>For Work In Restricted Working Space, Add</i>	6.09	
22 11 16 00-0380	LF	3" Hard Drawn Type L Copper Tube/Pipe.....	38.74	7.96
		<i>For Medical/Oxygen Service Tubing, Add</i>	1.19	
		<i>For <20, Add</i>	1.49	
		<i>For >150, Deduct</i>	-2.97	
		<i>For Work In Restricted Working Space, Add</i>	7.16	
22 11 16 00-0381	LF	4" Hard Drawn Type L Copper Tube/Pipe.....	53.42	8.98
		<i>For Medical/Oxygen Service Tubing, Add</i>	2.12	
		<i>For <20, Add</i>	2.65	
		<i>For >150, Deduct</i>	-5.30	
		<i>For Work In Restricted Working Space, Add</i>	8.08	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0382	LF		5" Hard Drawn Type L Copper Tube/Pipe.....	77.74	10.31
			For Medical/Oxygen Service Tubing, Add	3.74	
			For <20, Add	4.68	
			For >150, Deduct	-9.36	
			For Work In Restricted Working Space, Add	9.28	
22 11 16 00-0383	LF		6" Hard Drawn Type L Copper Tube/Pipe.....	109.50	15.99
			For Medical/Oxygen Service Tubing, Add	4.93	
			For <20, Add	6.16	
			For >150, Deduct	-12.31	
			For Work In Restricted Working Space, Add	14.38	
22 11 16 00-0384	LF		8" Hard Drawn Type L Copper Tube/Pipe.....	169.32	17.77
			For Medical/Oxygen Service Tubing, Add	9.28	
			For <20, Add	11.60	
			For >150, Deduct	-23.21	
			For Work In Restricted Working Space, Add	15.98	
22 11 16 00-0385			Hard Drawn Type K Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0386	LF		1/4" Hard Drawn Type K Copper Tube/Pipe.....	4.24	2.33
			For Medical/Oxygen Service Tubing, Add	0.06	
			For <20, Add	0.08	
			For >150, Deduct	-0.15	
			For Work In Restricted Working Space, Add	1.05	
22 11 16 00-0387	LF		3/8" Hard Drawn Type K Copper Tube/Pipe.....	5.34	2.43
			For Medical/Oxygen Service Tubing, Add	0.11	
			For <20, Add	0.14	
			For >150, Deduct	-0.27	
			For Work In Restricted Working Space, Add	1.20	
22 11 16 00-0388	LF		1/2" Hard Drawn Type K Copper Tube/Pipe.....	5.48	2.52
			For Medical/Oxygen Service Tubing, Add	0.13	
			For <20, Add	0.16	
			For >150, Deduct	-0.32	
			For Work In Restricted Working Space, Add	1.17	
22 11 16 00-0389	LF		3/4" Hard Drawn Type K Copper Tube/Pipe.....	7.38	2.68
			For Medical/Oxygen Service Tubing, Add	0.23	
			For <20, Add	0.29	
			For >150, Deduct	-0.57	
			For Work In Restricted Working Space, Add	1.35	
22 11 16 00-0390	LF		1" Hard Drawn Type K Copper Tube/Pipe.....	8.61	3.02
			For Medical/Oxygen Service Tubing, Add	0.30	
			For <20, Add	0.38	
			For >150, Deduct	-0.76	
			For Work In Restricted Working Space, Add	1.44	
22 11 16 00-0391	LF		1-1/4" Hard Drawn Type K Copper Tube/Pipe.....	11.54	4.49
			For Medical/Oxygen Service Tubing, Add	0.38	
			For <20, Add	0.47	
			For >150, Deduct	-0.95	
			For Work In Restricted Working Space, Add	2.04	
22 11 16 00-0392	LF		1-1/2" Hard Drawn Type K Copper Tube/Pipe.....	13.73	5.00
			For Medical/Oxygen Service Tubing, Add	0.49	
			For <20, Add	0.61	
			For >150, Deduct	-1.22	
			For Work In Restricted Working Space, Add	2.30	
22 11 16 00-0393	LF		2" Hard Drawn Type K Copper Tube/Pipe.....	18.71	6.18
			For Medical/Oxygen Service Tubing, Add	0.75	
			For <20, Add	0.93	
			For >150, Deduct	-1.87	
			For Work In Restricted Working Space, Add	2.81	
22 11 16 00-0394	LF		2-1/2" Hard Drawn Type K Copper Tube/Pipe.....	34.29	7.26
			For Medical/Oxygen Service Tubing, Add	1.11	
			For <20, Add	1.39	
			For >150, Deduct	-2.78	
			For Work In Restricted Working Space, Add	6.11	
22 11 16 00-0395	LF		3" Hard Drawn Type K Copper Tube/Pipe.....	45.29	8.55
			For Medical/Oxygen Service Tubing, Add	1.52	
			For <20, Add	1.90	
			For >150, Deduct	-3.81	
			For Work In Restricted Working Space, Add	7.88	
22 11 16 00-0396	LF		4" Hard Drawn Type K Copper Tube/Pipe.....	63.67	9.66
			For Medical/Oxygen Service Tubing, Add	2.71	
			For <20, Add	3.39	
			For >150, Deduct	-6.78	
			For Work In Restricted Working Space, Add	8.93	
22 11 16 00-0397	LF		5" Hard Drawn Type K Copper Tube/Pipe.....	97.27	11.09
			For Medical/Oxygen Service Tubing, Add	4.97	
			For <20, Add	6.22	
			For >150, Deduct	-12.43	
			For Work In Restricted Working Space, Add	10.54	
22 11 16 00-0398	LF		6" Hard Drawn Type K Copper Tube/Pipe.....	145.79	17.18
			For Medical/Oxygen Service Tubing, Add	7.13	
			For <20, Add	8.92	
			For >150, Deduct	-17.83	
			For Work In Restricted Working Space, Add	16.99	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0399	LF		8" Hard Drawn Type K Copper Tube/Pipe	229.36	19.10
			<i>For Medical/Oxygen Service Tubing, Add</i>	13.36	
			<i>For <20, Add</i>	16.70	
			<i>For >150, Deduct</i>	-33.39	
			<i>For Work In Restricted Working Space, Add</i>	18.72	
22 11 16 00-0400			Hard Drawn Type M Copper Tube/Pipe (22 11 16 00-0369)		
22 11 16 00-0401	LF		3/8" Hard Drawn Type M Copper Tube/Pipe	3.70	2.03
			<i>For <20, Add</i>	0.08	
			<i>For >150, Deduct</i>	-0.15	
			<i>For Work In Restricted Working Space, Add</i>	0.88	
22 11 16 00-0402	LF		1/2" Hard Drawn Type M Copper Tube/Pipe	3.89	2.12
			<i>For <20, Add</i>	0.09	
			<i>For >150, Deduct</i>	-0.17	
			<i>For Work In Restricted Working Space, Add</i>	0.91	
22 11 16 00-0403	LF		3/4" Hard Drawn Type M Copper Tube/Pipe	4.61	2.24
			<i>For <20, Add</i>	0.14	
			<i>For >150, Deduct</i>	-0.28	
			<i>For Work In Restricted Working Space, Add</i>	0.97	
22 11 16 00-0404	LF		1" Hard Drawn Type M Copper Tube/Pipe	5.75	2.52
			<i>For <20, Add</i>	0.22	
			<i>For >150, Deduct</i>	-0.43	
			<i>For Work In Restricted Working Space, Add</i>	1.08	
22 11 16 00-0405	LF		1-1/4" Hard Drawn Type M Copper Tube/Pipe	8.67	3.76
			<i>For <20, Add</i>	0.31	
			<i>For >150, Deduct</i>	-0.63	
			<i>For Work In Restricted Working Space, Add</i>	1.66	
22 11 16 00-0406	LF		1-1/2" Hard Drawn Type M Copper Tube/Pipe	10.68	4.19
			<i>For <20, Add</i>	0.43	
			<i>For >150, Deduct</i>	-0.86	
			<i>For Work In Restricted Working Space, Add</i>	1.91	
22 11 16 00-0407	LF		2" Hard Drawn Type M Copper Tube/Pipe	14.68	5.17
			<i>For <20, Add</i>	0.68	
			<i>For >150, Deduct</i>	-1.36	
			<i>For Work In Restricted Working Space, Add</i>	2.37	
22 11 16 00-0408	LF		2-1/2" Hard Drawn Type M Copper Tube/Pipe	29.02	6.08
			<i>For <20, Add</i>	0.99	
			<i>For >150, Deduct</i>	-1.97	
			<i>For Work In Restricted Working Space, Add</i>	5.75	
22 11 16 00-0409	LF		3" Hard Drawn Type M Copper Tube/Pipe	34.63	7.16
			<i>For <20, Add</i>	1.31	
			<i>For >150, Deduct</i>	-2.62	
			<i>For Work In Restricted Working Space, Add</i>	6.46	
22 11 16 00-0410	LF		4" Hard Drawn Type M Copper Tube/Pipe	49.65	8.09
			<i>For <20, Add</i>	2.45	
			<i>For >150, Deduct</i>	-4.91	
			<i>For Work In Restricted Working Space, Add</i>	7.54	
22 11 16 00-0411	LF		5" Hard Drawn Type M Copper Tube/Pipe	76.63	9.29
			<i>For <20, Add</i>	4.76	
			<i>For >150, Deduct</i>	-9.52	
			<i>For Work In Restricted Working Space, Add</i>	8.70	
22 11 16 00-0412	LF		6" Hard Drawn Type M Copper Tube/Pipe	108.54	14.39
			<i>For <20, Add</i>	6.36	
			<i>For >150, Deduct</i>	-12.72	
			<i>For Work In Restricted Working Space, Add</i>	13.48	
22 11 16 00-0413	LF		8" Hard Drawn Type M Copper Tube/Pipe	169.97	16.00
			<i>For <20, Add</i>	12.06	
			<i>For >150, Deduct</i>	-24.11	
			<i>For Work In Restricted Working Space, Add</i>	14.82	
22 11 16 00-0414			Soft Drawn Type L Copper Tube (22 11 16 00-0369)		
22 11 16 00-0415	LF		1/4" Soft Drawn Type L Copper Tube	4.11	2.17
			<i>For <20, Add</i>	0.09	
			<i>For >150, Deduct</i>	-0.17	
			<i>For Work In Restricted Working Space, Add</i>	0.98	
22 11 16 00-0416	LF		3/8" Soft Drawn Type L Copper Tube	4.73	2.25
			<i>For <20, Add</i>	0.13	
			<i>For >150, Deduct</i>	-0.27	
			<i>For Work In Restricted Working Space, Add</i>	1.02	
22 11 16 00-0417	LF		1/2" Soft Drawn Type L Copper Tube	5.33	2.35
			<i>For <20, Add</i>	0.18	
			<i>For >150, Deduct</i>	-0.36	
			<i>For Work In Restricted Working Space, Add</i>	1.06	
22 11 16 00-0418	LF		5/8" Soft Drawn Type L Copper Tube	5.96	2.43
			<i>For <20, Add</i>	0.23	
			<i>For >150, Deduct</i>	-0.46	
			<i>For Work In Restricted Working Space, Add</i>	1.09	
22 11 16 00-0419	LF		3/4" Soft Drawn Type L Copper Tube	6.50	2.49
			<i>For <20, Add</i>	0.28	
			<i>For >150, Deduct</i>	-0.55	
			<i>For Work In Restricted Working Space, Add</i>	1.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0420 LF 1" Soft Drawn Type L Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	8.02 0.38 -0.76 1.26	2.81
22 11 16 00-0421 LF 1-1/4" Soft Drawn Type L Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	11.29 0.50 -1.01 1.88	4.17
22 11 16 00-0422 LF 1-1/2" Soft Drawn Type L Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	13.80 0.68 -1.36 2.09	4.66
22 11 16 00-0423 LF 2" Soft Drawn Type L Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	19.46 1.09 -2.17 2.58	5.74
22 11 16 00-0424 Soft Drawn Type K Copper Tube (22 11 16 00-0369)		
22 11 16 00-0425 LF 1/4" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4.20 0.10 -0.19 0.98	2.17
22 11 16 00-0426 LF 3/8" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5.01 0.16 -0.32 1.02	2.25
22 11 16 00-0427 LF 1/2" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5.57 0.20 -0.41 1.06	2.35
22 11 16 00-0428 LF 5/8" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6.07 0.24 -0.49 1.09	2.43
22 11 16 00-0429 LF 3/4" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	7.51 0.38 -0.75 1.12	2.49
22 11 16 00-0430 LF 1" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	9.20 0.50 -1.00 1.26	2.81
22 11 16 00-0431 LF 1-1/4" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	12.15 0.59 -1.18 1.88	4.17
22 11 16 00-0432 LF 1-1/2" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	15.17 0.82 -1.64 2.09	4.66
22 11 16 00-0433 LF 2" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	21.34 1.27 -2.55 2.58	5.74
22 11 16 00-0434 LF 2-1/2" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	29.42 1.91 -3.82 3.10	6.89
22 11 16 00-0435 LF 3" Soft Drawn Type K Copper Tube <i>For <20, Add</i> <i>For >150, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	38.75 2.66 -5.31 3.66	8.13
22 11 16 00-0436 Copper And Brass Fittings (22 11 16 00-0368) Note: All fittings are based on 95/5 solder.		
22 11 16 00-0437 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0438 EA 1/4" 90 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.34 3.05 -2.08 2.89 1.22 5.78	12.85
22 11 16 00-0439 EA 3/8" 90 Degree Copper Elbow <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Street Fitting, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.36 3.63 -2.47 3.47 1.29 6.94	15.42

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0440	EA	1/2"	90 Degree Copper Elbow.....	32.86	21.20
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.82	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.23	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.77	
			<i>For Street Fitting, Add</i>	0.42	
			<i>For Work In Restricted Working Space, Add</i>	9.54	
22 11 16 00-0441	EA	3/4"	90 Degree Copper Elbow.....	41.87	26.41
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.04	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.07	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.93	
			<i>For Street Fitting, Add</i>	0.94	
			<i>For Work In Restricted Working Space, Add</i>	11.85	
22 11 16 00-0442	EA	1"	90 Degree Copper Elbow.....	52.99	31.52
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.37	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.01	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.08	
			<i>For Street Fitting, Add</i>	2.30	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
22 11 16 00-0443	EA	1-1/4"	90 Degree Copper Elbow	59.70	34.12
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.09	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.54	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.66	
			<i>For Street Fitting, Add</i>	3.45	
			<i>For Work In Restricted Working Space, Add</i>	15.32	
22 11 16 00-0444	EA	1-1/2"	90 Degree Copper Elbow	69.38	37.30
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.06	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.26	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.39	
			<i>For Street Fitting, Add</i>	5.39	
			<i>For Work In Restricted Working Space, Add</i>	16.77	
22 11 16 00-0445	EA	2"	90 Degree Copper Elbow.....	87.22	41.83
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.63	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.49	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.40	
			<i>For Street Fitting, Add</i>	9.83	
			<i>For Work In Restricted Working Space, Add</i>	18.80	
22 11 16 00-0446	EA	2-1/2"	90 Degree Copper Elbow	112.09	42.60
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.00	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.80	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.59	
			<i>For Work In Restricted Working Space, Add</i>	19.17	
22 11 16 00-0447	EA	3"	90 Degree Copper Elbow.....	144.28	50.95
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.85	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.03	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.45	
			<i>For Work In Restricted Working Space, Add</i>	22.90	
22 11 16 00-0448	EA	4"	90 Degree Copper Elbow.....	273.15	72.25
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	24.49	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-19.07	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.24	
			<i>For Work In Restricted Working Space, Add</i>	32.48	
22 11 16 00-0449	EA	5"	90 Degree Copper Elbow.....	838.90	98.87
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	56.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-49.36	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	22.23	
			<i>For Work In Restricted Working Space, Add</i>	44.47	
22 11 16 00-0450	EA	6"	90 Degree Copper Elbow.....	1,136.40	143.88
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	78.39	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-67.60	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	32.35	
			<i>For Work In Restricted Working Space, Add</i>	64.70	
22 11 16 00-0451	EA	8"	90 Degree Copper Elbow.....	3,693.79	191.80
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	213.45	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-199.07	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	43.14	
			<i>For Work In Restricted Working Space, Add</i>	86.27	
22 11 16 00-0452			90 Degree Brass Elbows (22 11 16 00-0436)		
22 11 16 00-0453	EA	1/2"	Drop Ear 90 Degree Brass Elbow.....	38.39	21.20
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.10	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.51	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.77	
			<i>For Work In Restricted Working Space, Add</i>	9.54	
22 11 16 00-0454	EA	3/4"	Drop Ear 90 Degree Brass Elbow.....	58.70	26.41
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.89	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.91	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.93	
			<i>For Work In Restricted Working Space, Add</i>	11.85	
22 11 16 00-0455	EA	1/2"	Flanged Sink 90 Degree Brass Elbow	43.80	21.20
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.37	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.78	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.77	
			<i>For Work In Restricted Working Space, Add</i>	9.54	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0456	EA		3/8" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	32.97	15.42
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.96	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.81	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.47	
			<i>For Work In Restricted Working Space, Add</i>	6.94	
22 11 16 00-0457	EA		1/2" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	38.86	21.20
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.12	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.53	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.77	
			<i>For Work In Restricted Working Space, Add</i>	9.54	
22 11 16 00-0458	EA		3/4" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	51.91	26.41
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.55	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.57	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.93	
			<i>For Work In Restricted Working Space, Add</i>	11.85	
22 11 16 00-0459	EA		1" Drop Ear 90 Degree Brass Elbow, Solder X Threaded.....	86.82	31.52
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.06	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.70	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.08	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
22 11 16 00-0460			Reducing 90 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0461	EA		1/2" Reducing 90 Degree Copper Elbow.....	40.31	21.20
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.20	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.61	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.77	
			<i>For Work In Restricted Working Space, Add</i>	9.54	
22 11 16 00-0462	EA		3/4" Reducing 90 Degree Copper Elbow.....	45.54	26.41
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.23	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.25	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.93	
			<i>For Work In Restricted Working Space, Add</i>	11.85	
22 11 16 00-0463	EA		1" Reducing 90 Degree Copper Elbow.....	58.29	31.52
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.64	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.28	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.08	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
22 11 16 00-0464	EA		1-1/4" Reducing 90 Degree Copper Elbow.....	79.26	34.12
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.07	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.52	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.66	
			<i>For Work In Restricted Working Space, Add</i>	15.32	
22 11 16 00-0465	EA		1-1/2" Reducing 90 Degree Copper Elbow.....	92.93	37.30
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.24	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.44	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.39	
			<i>For Work In Restricted Working Space, Add</i>	16.77	
22 11 16 00-0466	EA		2" Reducing 90 Degree Copper Elbow.....	112.49	41.83
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.89	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.76	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.40	
			<i>For Work In Restricted Working Space, Add</i>	18.80	
22 11 16 00-0467			45 Degree Copper Elbows (22 11 16 00-0436)		
22 11 16 00-0468	EA		1/4" 45 Degree Copper Elbow.....	24.99	12.85
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.18	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.21	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.89	
			<i>For Street Fitting, Add</i>	2.28	
			<i>For Work In Restricted Working Space, Add</i>	5.78	
22 11 16 00-0469	EA		3/8" 45 Degree Copper Elbow.....	28.02	15.42
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.71	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.56	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.47	
			<i>For Street Fitting, Add</i>	1.96	
			<i>For Work In Restricted Working Space, Add</i>	6.94	
22 11 16 00-0470	EA		1/2" 45 Degree Copper Elbow.....	33.73	21.20
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.87	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.28	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.77	
			<i>For Street Fitting, Add</i>	0.77	
			<i>For Work In Restricted Working Space, Add</i>	9.54	
22 11 16 00-0471	EA		3/4" 45 Degree Copper Elbow.....	42.80	26.41
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.09	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.12	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.93	
			<i>For Street Fitting, Add</i>	1.32	
			<i>For Work In Restricted Working Space, Add</i>	11.85	
22 11 16 00-0472	EA		1" 45 Degree Copper Elbow.....	55.44	31.52
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.50	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.13	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.08	
			<i>For Street Fitting, Add</i>	3.28	
			<i>For Work In Restricted Working Space, Add</i>	14.17	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0473	EA		1-1/4" 45 Degree Copper Elbow	62.20	34.12
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.22	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.66	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.66	
			<i>For Street Fitting, Add</i>	4.45	
			<i>For Work In Restricted Working Space, Add</i>	15.32	
22 11 16 00-0474	EA		1-1/2" 45 Degree Copper Elbow	69.55	37.30
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.07	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.27	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.39	
			<i>For Street Fitting, Add</i>	5.46	
			<i>For Work In Restricted Working Space, Add</i>	16.77	
22 11 16 00-0475	EA		2" 45 Degree Copper Elbow	85.42	41.83
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.54	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.40	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.40	
			<i>For Work In Restricted Working Space, Add</i>	18.80	
22 11 16 00-0476	EA		2-1/2" 45 Degree Copper Elbow	111.51	42.60
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.97	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.77	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.59	
			<i>For Work In Restricted Working Space, Add</i>	19.17	
22 11 16 00-0477	EA		3" 45 Degree Copper Elbow	146.96	50.95
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.98	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.16	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.45	
			<i>For Work In Restricted Working Space, Add</i>	22.90	
22 11 16 00-0478	EA		4" 45 Degree Copper Elbow	258.88	72.25
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	23.77	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-18.36	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.24	
			<i>For Work In Restricted Working Space, Add</i>	32.48	
22 11 16 00-0479	EA		5" 45 Degree Copper Elbow	731.47	98.87
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	51.40	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-43.98	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	22.23	
			<i>For Work In Restricted Working Space, Add</i>	44.47	
22 11 16 00-0480	EA		6" 45 Degree Copper Elbow	1,134.83	143.88
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	78.31	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-67.53	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	32.35	
			<i>For Work In Restricted Working Space, Add</i>	64.70	
22 11 16 00-0481	EA		8" 45 Degree Copper Elbow	3,410.81	191.80
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	199.30	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-184.92	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	43.14	
			<i>For Work In Restricted Working Space, Add</i>	86.27	
22 11 16 00-0482			Straight Copper And Brass Tees (22 11 16 00-0436)		
22 11 16 00-0483	EA		1/4" Straight Copper Tee	35.31	19.28
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.66	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.21	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.34	
			<i>For Work In Restricted Working Space, Add</i>	8.67	
22 11 16 00-0484	EA		3/8" Straight Copper Tee	39.85	23.13
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.46	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.73	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.21	
			<i>For Work In Restricted Working Space, Add</i>	10.41	
22 11 16 00-0485	EA		1/2" Straight Copper Tee	49.99	32.19
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.32	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.91	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.23	
			<i>For Work In Restricted Working Space, Add</i>	14.46	
22 11 16 00-0486	EA		3/4" Straight Copper Tee	64.07	39.91
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.18	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.19	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.96	
			<i>For Work In Restricted Working Space, Add</i>	17.93	
22 11 16 00-0487	EA		1" Straight Copper Tee	84.29	47.61
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.35	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.78	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.70	
			<i>For Work In Restricted Working Space, Add</i>	21.40	
22 11 16 00-0488	EA		1-1/4" Straight Copper Tee	95.16	51.47
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.47	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.61	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.57	
			<i>For Work In Restricted Working Space, Add</i>	23.13	
22 11 16 00-0489	EA		1-1/2" Straight Copper Tee	111.17	55.90
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.94	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.75	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	12.58	
			<i>For Work In Restricted Working Space, Add</i>	25.16	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0490	EA		2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	137.87 16.34 -11.62 14.17 28.34	63.04
22 11 16 00-0491	EA		2-1/2" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.73 18.67 -13.88 14.38 28.76	63.91
22 11 16 00-0492	EA		3" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	246.59 23.87 -18.10 17.31 34.61	76.95
22 11 16 00-0493	EA		4" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	479.09 40.11 -32.03 24.23 48.46	107.75
22 11 16 00-0494	EA		5" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,259.12 85.06 -74.01 33.15 66.30	147.43
22 11 16 00-0495	EA		6" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,743.04 119.55 -103.35 48.59 97.19	216.12
22 11 16 00-0496	EA		8" Straight Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,905.42 338.41 -316.84 64.70 129.41	287.74
22 11 16 00-0497	EA		1/2" Cast Bronze Drop Ear Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.28 7.78 -5.37 7.23 14.46	32.19
22 11 16 00-0498			Reducing Copper Tees (22 11 16 00-0438)		
22 11 16 00-0499	EA		3/8" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	41.04 5.14 -3.59 4.63 9.26	20.53
22 11 16 00-0500	EA		1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	52.35 6.96 -4.79 6.51 13.01	28.91
22 11 16 00-0501	EA		3/4" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	60.47 8.61 -5.82 8.39 16.77	37.30
22 11 16 00-0502	EA		1" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.99 10.85 -7.47 10.12 20.24	45.01
22 11 16 00-0503	EA		1-1/4" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.29 12.09 -8.43 10.99 21.98	48.87
22 11 16 00-0504	EA		1-1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.15 13.56 -9.56 12.00 24.00	53.39
22 11 16 00-0505	EA		2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.68 15.70 -11.22 13.45 26.89	59.76
22 11 16 00-0506	EA		2-1/2" Reducing Copper Tee <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	186.38 18.55 -13.93 13.85 27.69	61.60

22 Plumbing**22 10 Plumbing Piping****22 11 Facility Water Distribution**

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0507 EA 3" Reducing Copper Tee.....	261.01	71.00
For Silver Solder Instead Of 95/5 Solder, Add	23.70	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-18.38	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.98	
For Work In Restricted Working Space, Add	31.95	
22 11 16 00-0508 EA 4" Reducing Copper Tee.....	456.61	87.60
For Silver Solder Instead Of 95/5 Solder, Add	35.97	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-29.40	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.70	
For Work In Restricted Working Space, Add	39.41	
22 11 16 00-0509 Copper Couplings (22 11 16 00-0436)		
22 11 16 00-0510 EA 1/4" Copper Coupling.....	19.89	12.85
For Silver Solder Instead Of 95/5 Solder, Add	2.92	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-1.96	
For Brazed Fittings Instead Of 95/5 Solder, Add	2.89	
For Work In Restricted Working Space, Add	5.78	
22 11 16 00-0511 EA 3/8" Copper Coupling.....	23.95	15.42
For Silver Solder Instead Of 95/5 Solder, Add	3.51	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-2.35	
For Brazed Fittings Instead Of 95/5 Solder, Add	3.47	
For Work In Restricted Working Space, Add	6.94	
22 11 16 00-0512 EA 1/2" Copper Coupling.....	32.48	21.20
For Silver Solder Instead Of 95/5 Solder, Add	4.81	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-3.21	
For Brazed Fittings Instead Of 95/5 Solder, Add	4.77	
For Work In Restricted Working Space, Add	9.54	
22 11 16 00-0513 EA 3/4" Copper Coupling.....	40.88	26.41
For Silver Solder Instead Of 95/5 Solder, Add	6.00	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.02	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.93	
For Work In Restricted Working Space, Add	11.85	
22 11 16 00-0514 EA 1" Copper Coupling.....	49.94	31.52
For Silver Solder Instead Of 95/5 Solder, Add	7.22	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-4.86	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.08	
For Work In Restricted Working Space, Add	14.17	
22 11 16 00-0515 EA 1-1/4" Copper Coupling.....	55.85	34.12
For Silver Solder Instead Of 95/5 Solder, Add	7.90	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.35	
For Brazed Fittings Instead Of 95/5 Solder, Add	7.66	
For Work In Restricted Working Space, Add	15.32	
22 11 16 00-0516 EA 1-1/2" Copper Coupling.....	62.22	37.30
For Silver Solder Instead Of 95/5 Solder, Add	8.70	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.91	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.39	
For Work In Restricted Working Space, Add	16.77	
22 11 16 00-0517 EA 2" Copper Coupling.....	73.16	41.45
For Silver Solder Instead Of 95/5 Solder, Add	9.92	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.79	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.40	
For Work In Restricted Working Space, Add	18.80	
22 11 16 00-0518 EA 2-1/2" Copper Coupling.....	81.96	40.30
For Silver Solder Instead Of 95/5 Solder, Add	10.13	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.12	
For Brazed Fittings Instead Of 95/5 Solder, Add	9.05	
For Work In Restricted Working Space, Add	18.11	
22 11 16 00-0519 EA 3" Copper Coupling.....	102.18	48.82
For Silver Solder Instead Of 95/5 Solder, Add	12.39	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.75	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.92	
For Work In Restricted Working Space, Add	21.83	
22 11 16 00-0520 EA 4" Copper Coupling.....	162.41	65.68
For Silver Solder Instead Of 95/5 Solder, Add	17.88	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-13.00	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.64	
For Work In Restricted Working Space, Add	29.29	
22 11 16 00-0521 EA 5" Copper Coupling.....	268.13	119.82
For Silver Solder Instead Of 95/5 Solder, Add	26.72	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-20.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.97	
For Work In Restricted Working Space, Add	39.94	
22 11 16 00-0522 EA 6" Copper Coupling.....	418.35	130.20
For Silver Solder Instead Of 95/5 Solder, Add	40.44	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-30.68	
For Brazed Fittings Instead Of 95/5 Solder, Add	29.29	
For Work In Restricted Working Space, Add	58.58	
22 11 16 00-0523 EA 8" Copper Coupling.....	982.34	172.63
For Silver Solder Instead Of 95/5 Solder, Add	75.03	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-62.08	
For Brazed Fittings Instead Of 95/5 Solder, Add	38.88	
For Work In Restricted Working Space, Add	77.75	

22 11 16 00-0524 Reducing Copper Couplings (22 11 16 00-0436)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0525	EA			3/8" Reducing Copper Coupling.....	20.62	12.82
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	2.96	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.00	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.89	
				<i>For Work In Restricted Working Space, Add</i>	5.78	
22 11 16 00-0526	EA			1/2" Reducing Copper Coupling.....	28.87	18.31
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.19	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.82	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.12	
				<i>For Work In Restricted Working Space, Add</i>	8.24	
22 11 16 00-0527	EA			3/4" Reducing Copper Coupling.....	38.08	23.81
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.47	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.69	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.35	
				<i>For Work In Restricted Working Space, Add</i>	10.70	
22 11 16 00-0528	EA			1" Reducing Copper Coupling.....	47.75	28.91
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.73	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.56	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.51	
				<i>For Work In Restricted Working Space, Add</i>	13.01	
22 11 16 00-0529	EA			1-1/4" Reducing Copper Coupling.....	55.24	32.77
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.68	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.22	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.37	
				<i>For Work In Restricted Working Space, Add</i>	14.75	
22 11 16 00-0530	EA			1-1/2" Reducing Copper Coupling.....	63.56	35.66
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.53	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.85	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.02	
				<i>For Work In Restricted Working Space, Add</i>	16.05	
22 11 16 00-0531	EA			2" Reducing Copper Coupling.....	74.86	39.51
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.67	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.71	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.89	
				<i>For Work In Restricted Working Space, Add</i>	17.78	
22 11 16 00-0532	EA			2-1/2" Reducing Copper Coupling.....	92.85	40.56
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.72	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.68	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	9.12	
				<i>For Work In Restricted Working Space, Add</i>	18.24	
22 11 16 00-0533	EA			3" Reducing Copper Coupling.....	109.74	47.04
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.50	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.99	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.52	
				<i>For Work In Restricted Working Space, Add</i>	21.04	
22 11 16 00-0534	EA			4" Reducing Copper Coupling.....	170.96	61.60
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.78	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.16	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.85	
				<i>For Work In Restricted Working Space, Add</i>	27.69	
22 11 16 00-0535	EA			5" Reducing Copper Coupling.....	436.30	85.82
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	34.68	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-28.25	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	19.30	
				<i>For Work In Restricted Working Space, Add</i>	38.61	
22 11 16 00-0536	EA			6" Reducing Copper Coupling.....	649.42	115.38
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	49.78	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-41.12	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	25.96	
				<i>For Work In Restricted Working Space, Add</i>	51.92	
22 11 16 00-0537	EA			8" Reducing Copper Coupling.....	1,261.87	168.13
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	88.30	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-75.70	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	37.81	
				<i>For Work In Restricted Working Space, Add</i>	75.62	
22 11 16 00-0538				Male Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0539	EA			1/4" Male Copper Adapter.....	30.08	12.53
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.43	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.47	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.89	
				<i>For Work In Restricted Working Space, Add</i>	5.78	
22 11 16 00-0540	EA			3/8" Male Copper Adapter.....	28.52	15.42
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.74	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.58	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.47	
				<i>For Work In Restricted Working Space, Add</i>	6.94	
22 11 16 00-0541	EA			1/2" Male Copper Adapter.....	31.09	19.28
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.45	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.00	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.34	
				<i>For Work In Restricted Working Space, Add</i>	8.67	

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0542	EA		3/4" Male Copper Adapter.....	39.36	24.10
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.53	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.75	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.35	
			<i>For Work In Restricted Working Space, Add</i>	10.70	
22 11 16 00-0543	EA		1" Male Copper Adapter.....	50.85	27.95
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.69	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.62	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.22	
			<i>For Work In Restricted Working Space, Add</i>	12.44	
22 11 16 00-0544	EA		1-1/4" Male Copper Adapter.....	61.87	31.81
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.91	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.50	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.23	
			<i>For Work In Restricted Working Space, Add</i>	14.46	
22 11 16 00-0545	EA		1-1/2" Male Copper Adapter.....	70.95	36.63
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.04	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.29	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.24	
			<i>For Work In Restricted Working Space, Add</i>	16.48	
22 11 16 00-0546	EA		2" Male Copper Adapter.....	97.46	46.75
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.91	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.39	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.55	
			<i>For Work In Restricted Working Space, Add</i>	21.11	
22 11 16 00-0547	EA		2-1/2" Male Copper Adapter.....	176.80	60.73
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.90	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.37	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	13.59	
			<i>For Work In Restricted Working Space, Add</i>	27.18	
22 11 16 00-0548	EA		3" Male Copper Adapter.....	234.82	80.99
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	23.81	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-17.78	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	18.11	
			<i>For Work In Restricted Working Space, Add</i>	36.21	
22 11 16 00-0549	EA		4" Male Copper Adapter.....	352.92	113.61
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	34.69	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-26.17	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	25.56	
			<i>For Work In Restricted Working Space, Add</i>	51.12	
22 11 16 00-0550			Female Copper Adapters (22 11 16 00-0436)		
22 11 16 00-0551	EA		1/4" Female Copper Adapter.....	26.18	12.53
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.24	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.27	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	2.89	
			<i>For Work In Restricted Working Space, Add</i>	5.78	
22 11 16 00-0552	EA		3/8" Female Copper Adapter.....	30.35	15.42
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	3.83	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.67	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.47	
			<i>For Work In Restricted Working Space, Add</i>	6.94	
22 11 16 00-0553	EA		1/2" Female Copper Adapter.....	32.40	19.28
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.51	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.07	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.34	
			<i>For Work In Restricted Working Space, Add</i>	8.67	
22 11 16 00-0554	EA		3/4" Female Copper Adapter.....	40.43	24.10
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.59	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.80	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.35	
			<i>For Work In Restricted Working Space, Add</i>	10.70	
22 11 16 00-0555	EA		1" Female Copper Adapter.....	52.37	27.95
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.76	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.69	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	6.22	
			<i>For Work In Restricted Working Space, Add</i>	12.44	
22 11 16 00-0556	EA		1-1/4" Female Copper Adapter.....	64.20	31.81
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.03	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.62	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.23	
			<i>For Work In Restricted Working Space, Add</i>	14.46	
22 11 16 00-0557	EA		1-1/2" Female Copper Adapter.....	80.01	36.63
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.49	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-6.75	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.24	
			<i>For Work In Restricted Working Space, Add</i>	16.48	
22 11 16 00-0558	EA		2" Female Copper Adapter.....	104.36	46.75
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.25	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.74	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.55	
			<i>For Work In Restricted Working Space, Add</i>	21.11	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0559	EA		2-1/2" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	205.06 18.60 -14.42 12.51 25.03	55.92
22 11 16 00-0560	EA		3" Female Copper Adapter <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	325.60 28.35 -22.32 18.11 36.21	80.99
22 11 16 00-0561			Wrot Copper, Solder Union (22 11 16 00-0436)		
22 11 16 00-0562	EA		1/4" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	38.39 4.23 -3.08 3.47 6.94	15.42
22 11 16 00-0563	EA		3/8" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.67 4.98 -3.58 4.19 8.39	18.61
22 11 16 00-0564	EA		1/2" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.42 5.69 -3.96 5.21 10.41	23.13
22 11 16 00-0565	EA		3/4" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.46 6.52 -4.55 5.93 11.85	26.41
22 11 16 00-0566	EA		1" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.77 8.11 -5.75 7.08 14.17	31.52
22 11 16 00-0567	EA		1-1/4" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.79 9.29 -6.69 7.81 15.62	34.70
22 11 16 00-0568	EA		1-1/2" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.76 10.77 -7.88 8.67 17.35	38.55
22 11 16 00-0569	EA		2" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	140.87 13.98 -10.51 10.41 20.82	46.26
22 11 16 00-0570	EA		2-1/2" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	271.25 21.20 -17.38 11.45 22.90	50.95
22 11 16 00-0571	EA		3" Wrot Copper, Solder Union..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	612.67 41.46 -36.05 16.24 32.48	72.25
22 11 16 00-0572			Cast Bronze, Solder Union (22 11 16 00-0436)		
22 11 16 00-0573	EA		1/4" Cast Bronze, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.02 4.51 -3.36 3.47 6.94	15.42
22 11 16 00-0574	EA		3/8" Cast Bronze, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	48.98 5.24 -3.85 4.19 8.39	18.61
22 11 16 00-0575	EA		1/2" Cast Bronze, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.90 5.77 -4.03 5.21 10.41	23.13
22 11 16 00-0576	EA		3/4" Cast Bronze, Solder Union <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	53.55 6.63 -4.65 5.93 11.85	26.41

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0577	EA		1" Cast Bronze, Solder Union	71.39	31.52
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	8.29	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.93	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.08	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
22 11 16 00-0578	EA		1-1/4" Cast Bronze, Solder Union	91.70	34.70
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	9.79	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-7.19	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.81	
			<i>For Work In Restricted Working Space, Add</i>	15.62	
22 11 16 00-0579	EA		1-1/2" Cast Bronze, Solder Union	110.10	38.55
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	11.29	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.40	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.67	
			<i>For Work In Restricted Working Space, Add</i>	17.35	
22 11 16 00-0580	EA		2" Cast Bronze, Solder Union	158.47	46.26
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	14.86	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.39	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.41	
			<i>For Work In Restricted Working Space, Add</i>	20.82	
22 11 16 00-0581	EA		2-1/2" Cast Bronze, Solder Union	271.23	50.95
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	21.19	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-17.38	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.45	
			<i>For Work In Restricted Working Space, Add</i>	22.90	
22 11 16 00-0582	EA		3" Cast Bronze, Solder Union	612.67	72.25
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	41.46	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-36.05	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	16.24	
			<i>For Work In Restricted Working Space, Add</i>	32.48	
22 11 16 00-0583			Cast Bronze, Solder X Female Threaded Union (22 11 16 00-0436)		
22 11 16 00-0584	EA		1/4" Cast Bronze, Solder X Female Threaded Union	51.62	15.42
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.89	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.74	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.47	
			<i>For Work In Restricted Working Space, Add</i>	6.94	
22 11 16 00-0585	EA		3/8" Cast Bronze, Solder X Female Threaded Union	57.42	18.61
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.67	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.27	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.19	
			<i>For Work In Restricted Working Space, Add</i>	8.39	
22 11 16 00-0586	EA		1/2" Cast Bronze, Solder X Female Threaded Union	58.11	23.13
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.38	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.64	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.21	
			<i>For Work In Restricted Working Space, Add</i>	10.41	
22 11 16 00-0587	EA		3/4" Cast Bronze, Solder X Female Threaded Union	71.42	26.41
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.52	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.55	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.93	
			<i>For Work In Restricted Working Space, Add</i>	11.85	
22 11 16 00-0588	EA		1" Cast Bronze, Solder X Female Threaded Union	113.60	31.52
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.40	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.04	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.08	
			<i>For Work In Restricted Working Space, Add</i>	14.17	
22 11 16 00-0589	EA		1-1/4" Cast Bronze, Solder X Female Threaded Union	175.74	34.70
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.99	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-11.39	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.81	
			<i>For Work In Restricted Working Space, Add</i>	15.62	
22 11 16 00-0590	EA		1-1/2" Cast Bronze, Solder X Female Threaded Union	214.53	38.55
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	16.51	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.62	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.67	
			<i>For Work In Restricted Working Space, Add</i>	17.35	
22 11 16 00-0591	EA		2" Cast Bronze, Solder X Female Threaded Union	334.64	46.26
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	23.67	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-20.20	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.41	
			<i>For Work In Restricted Working Space, Add</i>	20.82	
22 11 16 00-0592	EA		2-1/2" Cast Bronze, Solder X Female Threaded Union	579.15	50.95
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	36.59	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-32.77	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.45	
			<i>For Work In Restricted Working Space, Add</i>	22.90	
22 11 16 00-0593			Cast Bronze, Solder X Male Threaded Union (22 11 16 00-0436)		
22 11 16 00-0594	EA		1/4" Cast Bronze, Solder X Male Threaded Union	44.83	15.42
			<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.55	
			<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-3.40	
			<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.47	
			<i>For Work In Restricted Working Space, Add</i>	6.94	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0595	EA			3/8" Cast Bronze, Solder X Male Threaded Union.....	53.27	18.61
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	5.46	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.06	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	4.19	
				<i>For Work In Restricted Working Space, Add</i>	8.39	
22 11 16 00-0596	EA			1/2" Cast Bronze, Solder X Male Threaded Union.....	53.18	23.13
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	6.13	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-4.39	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.21	
				<i>For Work In Restricted Working Space, Add</i>	10.41	
22 11 16 00-0597	EA			3/4" Cast Bronze, Solder X Male Threaded Union.....	67.24	26.41
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	7.31	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-5.34	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	5.93	
				<i>For Work In Restricted Working Space, Add</i>	11.85	
22 11 16 00-0598	EA			1" Cast Bronze, Solder X Male Threaded Union.....	115.51	31.52
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	10.50	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-8.14	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.08	
				<i>For Work In Restricted Working Space, Add</i>	14.17	
22 11 16 00-0599	EA			1-1/4" Cast Bronze, Solder X Male Threaded Union.....	136.75	34.70
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	12.04	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-9.44	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	7.81	
				<i>For Work In Restricted Working Space, Add</i>	15.62	
22 11 16 00-0600	EA			1-1/2" Cast Bronze, Solder X Male Threaded Union.....	146.80	38.55
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	13.12	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-10.23	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	8.67	
				<i>For Work In Restricted Working Space, Add</i>	17.35	
22 11 16 00-0601	EA			2" Cast Bronze, Solder X Male Threaded Union.....	206.05	46.26
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	17.24	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-13.77	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	10.41	
				<i>For Work In Restricted Working Space, Add</i>	20.82	
22 11 16 00-0602	EA			2-1/2" Cast Bronze, Solder X Male Threaded Union.....	476.81	50.95
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	31.47	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-27.66	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	11.45	
				<i>For Work In Restricted Working Space, Add</i>	22.90	
22 11 16 00-0603				Copper Caps (22 11 16 00-0436)		
22 11 16 00-0604	EA			1/4" Copper Cap.....	4.54	2.43
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	0.59	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.41	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	0.54	
				<i>For Work In Restricted Working Space, Add</i>	1.08	
22 11 16 00-0605	EA			3/8" Copper Cap.....	5.33	2.57
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	0.65	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.46	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	0.58	
				<i>For Work In Restricted Working Space, Add</i>	1.16	
22 11 16 00-0606	EA			1/2" Copper Cap.....	4.85	2.77
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	0.65	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.45	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	0.61	
				<i>For Work In Restricted Working Space, Add</i>	1.23	
22 11 16 00-0607	EA			3/4" Copper Cap.....	6.56	3.46
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	0.84	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.58	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	0.77	
				<i>For Work In Restricted Working Space, Add</i>	1.54	
22 11 16 00-0608	EA			1" Copper Cap.....	9.86	4.39
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.14	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-0.82	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	0.98	
				<i>For Work In Restricted Working Space, Add</i>	1.95	
22 11 16 00-0609	EA			1-1/4" Copper Cap.....	13.39	6.01
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.56	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.12	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.34	
				<i>For Work In Restricted Working Space, Add</i>	2.67	
22 11 16 00-0610	EA			1-1/2" Copper Cap.....	17.00	7.08
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	1.90	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-1.37	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	1.57	
				<i>For Work In Restricted Working Space, Add</i>	3.14	
22 11 16 00-0611	EA			2" Copper Cap.....	35.39	15.76
				<i>For Silver Solder Instead Of 95/5 Solder, Add</i>	4.10	
				<i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i>	-2.94	
				<i>For Brazed Fittings Instead Of 95/5 Solder, Add</i>	3.50	
				<i>For Work In Restricted Working Space, Add</i>	7.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0612 EA 2-1/2" Copper Cap	71.61	23.97
For Silver Solder Instead Of 95/5 Solder, Add	7.13	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.36	
For Brazed Fittings Instead Of 95/5 Solder, Add	5.33	
For Work In Restricted Working Space, Add	10.65	
22 11 16 00-0613 EA 3" Copper Cap	98.29	31.45
For Silver Solder Instead Of 95/5 Solder, Add	9.57	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-7.24	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.99	
For Work In Restricted Working Space, Add	13.98	
22 11 16 00-0614 EA 4" Copper Cap	153.06	37.45
For Silver Solder Instead Of 95/5 Solder, Add	13.20	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.43	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.32	
For Work In Restricted Working Space, Add	16.64	
22 11 16 00-0615 EA 5" Cast Bronze Cap.....	763.00	51.39
For Silver Solder Instead Of 95/5 Solder, Add	45.85	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-42.00	
For Brazed Fittings Instead Of 95/5 Solder, Add	11.56	
For Work In Restricted Working Space, Add	23.11	
22 11 16 00-0616 EA 6" Cast Bronze Cap.....	1,465.29	66.57
For Silver Solder Instead Of 95/5 Solder, Add	83.13	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-78.20	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.79	
For Work In Restricted Working Space, Add	29.58	
22 11 16 00-0617 EA 8" Cast Bronze Cap.....	1,876.52	95.85
For Silver Solder Instead Of 95/5 Solder, Add	108.03	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-100.93	
For Brazed Fittings Instead Of 95/5 Solder, Add	21.30	
For Work In Restricted Working Space, Add	42.60	
22 11 16 00-0618 Copper Crosses (22 11 16 00-0436)		
22 11 16 00-0619 EA 1/2" Copper Cross.....	70.59	39.05
For Silver Solder Instead Of 95/5 Solder, Add	9.39	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.46	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.79	
For Work In Restricted Working Space, Add	17.57	
22 11 16 00-0620 EA 3/4" Copper Cross.....	96.12	48.55
For Silver Solder Instead Of 95/5 Solder, Add	12.08	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.45	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.92	
For Work In Restricted Working Space, Add	21.83	
22 11 16 00-0621 EA 1" Copper Cross.....	126.63	57.95
For Silver Solder Instead Of 95/5 Solder, Add	15.03	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-10.68	
For Brazed Fittings Instead Of 95/5 Solder, Add	13.05	
For Work In Restricted Working Space, Add	26.09	
22 11 16 00-0622 EA 1-1/4" Copper Cross.....	151.07	62.75
For Silver Solder Instead Of 95/5 Solder, Add	16.96	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-12.26	
For Brazed Fittings Instead Of 95/5 Solder, Add	14.11	
For Work In Restricted Working Space, Add	28.22	
22 11 16 00-0623 EA 1-1/2" Copper Cross.....	184.19	68.61
For Silver Solder Instead Of 95/5 Solder, Add	19.51	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-14.36	
For Brazed Fittings Instead Of 95/5 Solder, Add	15.44	
For Work In Restricted Working Space, Add	30.89	
22 11 16 00-0624 EA 2" Copper Cross.....	268.83	76.95
For Silver Solder Instead Of 95/5 Solder, Add	24.98	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-19.21	
For Brazed Fittings Instead Of 95/5 Solder, Add	17.31	
For Work In Restricted Working Space, Add	34.61	
22 11 16 00-0625 EA 2-1/2" Copper Cross.....	481.53	85.21
For Silver Solder Instead Of 95/5 Solder, Add	36.86	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-30.47	
For Brazed Fittings Instead Of 95/5 Solder, Add	19.17	
For Work In Restricted Working Space, Add	38.34	
22 11 16 00-0626 Cast Bronze Crosses (22 11 16 00-0436)		
22 11 16 00-0627 EA 3/8" Cast Bronze Cross.....	58.61	28.40
For Silver Solder Instead Of 95/5 Solder, Add	7.19	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-5.06	
For Brazed Fittings Instead Of 95/5 Solder, Add	6.39	
For Work In Restricted Working Space, Add	12.78	
22 11 16 00-0628 EA 1/2" Cast Bronze Cross.....	72.99	39.05
For Silver Solder Instead Of 95/5 Solder, Add	9.51	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-6.58	
For Brazed Fittings Instead Of 95/5 Solder, Add	8.79	
For Work In Restricted Working Space, Add	17.57	
22 11 16 00-0629 EA 3/4" Cast Bronze Cross.....	100.79	48.55
For Silver Solder Instead Of 95/5 Solder, Add	12.32	
For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct	-8.68	
For Brazed Fittings Instead Of 95/5 Solder, Add	10.92	
For Work In Restricted Working Space, Add	21.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0630 EA 1" Cast Bronze Cross..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.55 15.43 -11.08 13.05 26.09	57.95
22 11 16 00-0631 EA 1-1/4" Cast Bronze Cross..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.47 17.53 -12.83 14.11 28.22	62.75
22 11 16 00-0632 EA 1-1/2" Cast Bronze Cross..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	200.43 20.32 -15.17 15.44 30.89	68.61
22 11 16 00-0633 EA 2" Cast Bronze Cross..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	299.52 26.51 -20.75 17.31 34.61	76.95
22 11 16 00-0634 EA 2-1/2" Cast Bronze Cross..... <i>For Silver Solder Instead Of 95/5 Solder, Add</i> <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> <i>For Brazed Fittings Instead Of 95/5 Solder, Add</i> <i>For Work In Restricted Working Space, Add</i>	552.28 40.40 -34.00 19.17 38.34	85.21
22 11 16 00-0635 Flexible Corrugated Copper Supply Line (22 11 16 00-0436)		
22 11 16 00-0636 EA 3/4" Threaded x 3/4" Solder x 18" Long, Flexible Corrugated Copper Supply Line.....	75.68	26.41
22 11 16 00-0637 EA 3/4" Threaded x 3/4" Solder x 24" Long, Flexible Corrugated Copper Supply Line.....	80.03	26.41
22 11 16 00-0638 EA 3/4" Threaded x 3/4" Threaded x 12" Long, Flexible Corrugated Copper Supply Line.....	67.85	26.41
22 11 16 00-0639 EA 3/4" Threaded x 3/4" Threaded x 15" Long, Flexible Corrugated Copper Supply Line.....	72.78	26.41
22 11 16 00-0640 EA 3/4" Threaded x 3/4" Threaded x 18" Long, Flexible Corrugated Copper Supply Line.....	77.13	26.41
22 11 16 00-0641 EA 3/4" Threaded x 3/4" Threaded x 24" Long, Flexible Corrugated Copper Supply Line.....	80.03	26.41
22 11 16 00-0642 Crimped Copper Fittings (22 11 16 00-0368) Note: Viega ProPress type. Includes factory installed ethylene propylene diene monomer (EPDM) sealing elements.		
22 11 16 00-0643 Crimped Copper 90 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0644 EA 1/2" Crimped Copper 90 Degree Elbow.....	19.30	11.57
22 11 16 00-0645 EA 3/4" Crimped Copper 90 Degree Elbow.....	23.07	13.21
22 11 16 00-0646 EA 1" Crimped Copper 90 Degree Elbow.....	30.25	15.71
22 11 16 00-0647 EA 1-1/4" Crimped Copper 90 Degree Elbow.....	39.43	17.35
22 11 16 00-0648 EA 1-1/2" Crimped Copper 90 Degree Elbow.....	54.28	19.28
22 11 16 00-0649 EA 2" Crimped Copper 90 Degree Elbow.....	69.96	23.13
22 11 16 00-0650 EA 2-1/2" Crimped Copper 90 Degree Elbow.....	142.90	26.98
22 11 16 00-0651 EA 3" Crimped Copper 90 Degree Elbow.....	177.05	32.09
22 11 16 00-0652 EA 4" Crimped Copper 90 Degree Elbow.....	223.03	42.41
22 11 16 00-0653 Crimped Copper 45 Degree Elbows (22 11 16 00-0642)		
22 11 16 00-0654 EA 1/2" Crimped Copper 45 Degree Elbow.....	19.63	11.57
22 11 16 00-0655 EA 3/4" Crimped Copper 45 Degree Elbow.....	22.56	13.21
22 11 16 00-0656 EA 1" Crimped Copper 45 Degree Elbow.....	32.59	15.71
22 11 16 00-0657 EA 1-1/4" Crimped Copper 45 Degree Elbow.....	38.91	17.35
22 11 16 00-0658 EA 1-1/2" Crimped Copper 45 Degree Elbow.....	49.79	19.28
22 11 16 00-0659 EA 2" Crimped Copper 45 Degree Elbow.....	63.91	23.13
22 11 16 00-0660 EA 2-1/2" Crimped Copper 45 Degree Elbow.....	108.14	26.98
22 11 16 00-0661 EA 3" Crimped Copper 45 Degree Elbow.....	144.85	32.09
22 11 16 00-0662 EA 4" Crimped Copper 45 Degree Elbow.....	197.85	42.41
22 11 16 00-0663 Crimped Copper Straight Tees (22 11 16 00-0642)		
22 11 16 00-0664 EA 1/2" Crimped Copper Straight Tee.....	29.02	17.35
22 11 16 00-0665 EA 3/4" Crimped Copper Straight Tee.....	39.48	22.84
22 11 16 00-0666 EA 1" Crimped Copper Straight Tee.....	47.57	25.34
22 11 16 00-0667 EA 1-1/4" Crimped Copper Straight Tee.....	55.10	26.03
22 11 16 00-0668 EA 1-1/2" Crimped Copper Straight Tee.....	75.55	29.59
22 11 16 00-0669 EA 2" Crimped Copper Straight Tee.....	90.62	34.70
22 11 16 00-0670 EA 2-1/2" Crimped Copper Straight Tee.....	187.27	40.48
22 11 16 00-0671 EA 3" Crimped Copper Straight Tee.....	230.46	48.19
22 11 16 00-0672 EA 4" Crimped Copper Straight Tee.....	317.36	63.61
22 11 16 00-0673 Crimped Copper Reducing Tees (22 11 16 00-0642)		
22 11 16 00-0674 EA 3/4" Crimped Copper Reducing Tee.....	32.90	16.48
22 11 16 00-0675 EA 1" Crimped Copper Reducing Tee.....	46.92	21.68
22 11 16 00-0676 EA 1-1/4" Crimped Copper Reducing Tee.....	50.85	24.10
22 11 16 00-0677 EA 1-1/2" Crimped Copper Reducing Tee.....	64.83	24.77
22 11 16 00-0678 EA 2" Crimped Copper Reducing Tee.....	77.19	28.05



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0679 EA 2-1/2" Crimped Copper Reducing Tee	196.84	31.81
22 11 16 00-0680 EA 3" Crimped Copper Reducing Tee	239.80	38.55
22 11 16 00-0681 EA 4" Crimped Copper Reducing Tee	284.14	51.37
22 11 16 00-0682 Crimped Copper Couplings (22 11 16 00-0642)		
22 11 16 00-0683 EA 1/2" Crimped Copper Coupling	19.11	11.57
22 11 16 00-0684 EA 3/4" Crimped Copper Coupling	22.43	13.21
22 11 16 00-0685 EA 1" Crimped Copper Coupling	29.01	15.71
22 11 16 00-0686 EA 1-1/4" Crimped Copper Coupling	32.73	17.35
22 11 16 00-0687 EA 1-1/2" Crimped Copper Coupling	41.40	19.28
22 11 16 00-0688 EA 2" Crimped Copper Coupling	50.64	23.13
22 11 16 00-0689 EA 2-1/2" Crimped Copper Coupling	91.49	26.98
22 11 16 00-0690 EA 3" Crimped Copper Coupling	113.15	32.09
22 11 16 00-0691 EA 4" Crimped Copper Coupling	153.82	42.41
22 11 16 00-0692 Crimped Copper Reducing Couplings (22 11 16 00-0642)		
22 11 16 00-0693 EA 3/4" Crimped Copper Reducing Coupling	24.48	10.99
22 11 16 00-0694 EA 1" Crimped Copper Reducing Coupling	27.98	12.53
22 11 16 00-0695 EA 1-1/4" Crimped Copper Reducing Coupling	35.80	14.93
22 11 16 00-0696 EA 1-1/2" Crimped Copper Reducing Coupling	44.41	16.48
22 11 16 00-0697 EA 2" Crimped Copper Reducing Coupling	49.59	18.31
22 11 16 00-0698 EA 2-1/2" Crimped Copper FTG x C Reducing Coupling	93.03	21.87
22 11 16 00-0699 EA 3" Crimped Copper FTG x C Reducing Coupling	115.41	25.74
22 11 16 00-0700 EA 4" Crimped Copper FTG x C Reducing Coupling	150.24	34.02
22 11 16 00-0701 Crimped Copper Male Adapters (22 11 16 00-0642)		
22 11 16 00-0702 EA 1/2" Crimped Copper Male Adapter	19.50	11.57
22 11 16 00-0703 EA 3/4" Crimped Copper Male Adapter	23.66	13.21
22 11 16 00-0704 EA 1" Crimped Copper Male Adapter	30.76	15.71
22 11 16 00-0705 EA 1-1/4" Crimped Copper Male Adapter	41.71	17.35
22 11 16 00-0706 EA 1-1/2" Crimped Copper Male Adapter	50.90	19.28
22 11 16 00-0707 EA 2" Crimped Copper Male Adapter	77.05	23.13
22 11 16 00-0708 EA 2-1/2" Crimped Copper Male Adapter	142.90	26.98
22 11 16 00-0709 EA 3" Crimped Copper Male Adapter	177.05	32.09
22 11 16 00-0710 EA 4" Crimped Copper Male Adapter	212.77	42.41
22 11 16 00-0711 Crimped Copper Female Adapters (22 11 16 00-0642)		
22 11 16 00-0712 EA 1/2" Crimped Copper Female Adapter	19.95	11.57
22 11 16 00-0713 EA 3/4" Crimped Copper Female Adapter	23.99	13.21
22 11 16 00-0714 EA 1" Crimped Copper Female Adapter	31.42	15.71
22 11 16 00-0715 EA 1-1/4" Crimped Copper Female Adapter	43.66	17.35
22 11 16 00-0716 EA 1-1/2" Crimped Copper Female Adapter	54.54	19.28
22 11 16 00-0717 EA 2" Crimped Copper Female Adapter	78.22	23.13
22 11 16 00-0718 Crimped Copper Caps (22 11 16 00-0642)		
22 11 16 00-0719 EA 1/2" Crimped Copper Cap	12.45	5.78
22 11 16 00-0720 EA 3/4" Crimped Copper Cap	16.49	6.75
22 11 16 00-0721 EA 1" Crimped Copper Cap	21.39	7.71
22 11 16 00-0722 EA 1-1/4" Crimped Copper Cap	24.13	8.68
22 11 16 00-0723 EA 1-1/2" Crimped Copper Cap	32.17	9.93
22 11 16 00-0724 EA 2" Crimped Copper Cap	38.29	11.57
22 11 16 00-0725 EA 2-1/2" Crimped Copper Cap	87.22	13.50
22 11 16 00-0726 EA 3" Crimped Copper Cap	108.86	16.09
22 11 16 00-0727 EA 4" Crimped Copper Cap	144.75	21.20
22 11 16 00-0728 C x F NPT Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0729 EA 1/2" C x F NPT Crimped Bronze Union	34.67	15.71
22 11 16 00-0730 EA 3/4" C x F NPT Crimped Bronze Union	43.20	19.37
22 11 16 00-0731 EA 1" C x F NPT Crimped Bronze Union	58.35	23.23
22 11 16 00-0732 EA 1-1/4" C x F NPT Crimped Bronze Union	70.09	26.79
22 11 16 00-0733 EA 1-1/2" C x F NPT Crimped Bronze Union	86.16	26.22
22 11 16 00-0734 EA 2" C x F NPT Crimped Bronze Union	118.92	37.98
22 11 16 00-0735 C x C Crimped Bronze Unions (22 11 16 00-0642)		
22 11 16 00-0736 EA 1/2" C x C Bronze Crimped Union	31.14	11.57
22 11 16 00-0737 EA 3/4" C x C Bronze Crimped Union	37.84	13.21
22 11 16 00-0738 EA 1" C x C Bronze Crimped Union	52.49	15.71
22 11 16 00-0739 EA 1-1/4" C x C Bronze Crimped Union	67.27	17.35
22 11 16 00-0740 EA 1-1/2" C x C Bronze Crimped Union	84.92	19.28
22 11 16 00-0741 EA 2" C x C Bronze Crimped Union	126.17	23.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0742 C x Flange Crimped Bronze Flange (22 11 16 00-0642)		
22 11 16 00-0743 EA 2-1/2" C x Flange Crimped Bronze Flange	236.32	26.98
22 11 16 00-0744 EA 3" C x Flange Crimped Bronze Flange.....	258.98	32.09
22 11 16 00-0745 EA 4" C x Flange Crimped Bronze Flange.....	299.58	42.41
22 11 16 00-0746 Field Installed FKM Seals (22 11 16 00-0642)		
Note: For vacuum systems. Includes removing factory installed ethylene propylene diene monomer (EPDM) seal and installing FKM seal.		
22 11 16 00-0747 EA 1/2" Field Installed FKM Seal.....	5.43	
Note: To be used in conjunction with fittings.		
22 11 16 00-0748 EA 3/4" Field Installed FKM Seal.....	6.75	
Note: To be used in conjunction with fittings.		
22 11 16 00-0749 EA 1" Field Installed FKM Seal.....	7.73	
Note: To be used in conjunction with fittings.		
22 11 16 00-0750 EA 1-1/4" Field Installed FKM Seal.....	8.85	
Note: To be used in conjunction with fittings.		
22 11 16 00-0751 EA 1-1/2" Field Installed FKM Seal.....	11.90	
Note: To be used in conjunction with fittings.		
22 11 16 00-0752 EA 2" Field Installed FKM Seal.....	13.36	
Note: To be used in conjunction with fittings.		
22 11 16 00-0753 EA 2-1/2" Field Installed FKM Seal.....	19.03	
Note: To be used in conjunction with fittings.		
22 11 16 00-0754 EA 3" Field Installed FKM Seal.....	22.00	
Note: To be used in conjunction with fittings.		
22 11 16 00-0755 EA 4" Field Installed FKM Seal.....	29.82	
Note: To be used in conjunction with fittings.		
22 11 16 00-0756 Cut And Prepare Existing In-Place Copper Pipe (22 11 16 00-0368)		
22 11 16 00-0757 EA Up To 1/2", Cut And Prepare Existing In Place Copper Pipe.....	9.63	
22 11 16 00-0758 EA 3/4", Cut And Prepare Existing In Place Copper Pipe.....	10.41	
22 11 16 00-0759 EA 1", Cut And Prepare Existing In Place Copper Pipe.....	11.71	
22 11 16 00-0760 EA 1-1/4", Cut And Prepare Existing In Place Copper Pipe.....	12.29	
22 11 16 00-0761 EA 1-1/2", Cut And Prepare Existing In Place Copper Pipe.....	13.01	
22 11 16 00-0762 EA 2", Cut And Prepare Existing In Place Copper Pipe.....	14.31	
22 11 16 00-0763 EA 2-1/2", Cut And Prepare Existing In Place Copper Pipe.....	15.42	
22 11 16 00-0764 EA 3", Cut And Prepare Existing In Place Copper Pipe.....	18.21	
22 11 16 00-0765 EA 4", Cut And Prepare Existing In Place Copper Pipe.....	24.58	
22 11 16 00-0766 EA 6", Cut And Prepare Existing In Place Copper Pipe.....	35.12	
22 11 16 00-0767 EA 8", Cut And Prepare Existing In Place Copper Pipe.....	46.85	
22 11 16 00-0768 Sweat Brass Companion Flanges (22 11 16 00-0368)		
22 11 16 00-0769 EA 1" Sweat Brass Companion Flange	55.33	14.82
22 11 16 00-0770 EA 1-1/4" Sweat Brass Companion Flange	60.39	16.33
22 11 16 00-0771 EA 1-1/2" Sweat Brass Companion Flange	86.60	17.75
22 11 16 00-0772 EA 2" Sweat Brass Companion Flange	116.10	19.70
22 11 16 00-0773 EA 2-1/2" Sweat Brass Companion Flange	146.84	23.69
22 11 16 00-0774 EA 3" Sweat Brass Companion Flange	161.81	31.07
22 11 16 00-0775 EA 4" Sweat Brass Companion Flange	216.25	37.02
22 11 16 00-0776 EA 5" Sweat Brass Companion Flange	407.46	44.52
22 11 16 00-0777 EA 6" Sweat Brass Companion Flange	469.71	64.69
22 11 16 00-0778 EA 8" Copper Companion Flange.....	1,083.97	92.28
22 11 16 00-0779 Brass Compression Fittings (22 11 16 00-0368)		
22 11 16 00-0780 Brass Compression Unions (22 11 16 00-0779)		
22 11 16 00-0781 EA 1/4" Brass Compression Union	16.50	10.41
22 11 16 00-0782 EA 3/8" Brass Compression Union	16.74	10.41
22 11 16 00-0783 EA 1/2" Brass Compression Union	17.48	10.41
22 11 16 00-0784 EA 5/8" Brass Compression Union	17.83	10.41
22 11 16 00-0785 EA 3/4" Brass Compression Union	22.77	10.41
22 11 16 00-0786 EA 3/8" x 1/4" Brass Compression Union	16.91	10.41
22 11 16 00-0787 EA 1/2" x 3/8" Brass Compression Union	17.53	10.41
22 11 16 00-0788 EA 5/8" x 3/8" Brass Compression Union	17.97	10.41
22 11 16 00-0789 EA 5/8" x 1/2" Brass Compression Union	18.67	10.41
22 11 16 00-0790 Brass Compression Union Elbows (22 11 16 00-0779)		
22 11 16 00-0791 EA 1/4" Brass Compression Union Elbow	17.48	10.41
22 11 16 00-0792 EA 3/8" Brass Compression Union Elbow	17.87	10.41
22 11 16 00-0793 EA 1/2" Brass Compression Union Elbow	18.75	10.41
22 11 16 00-0794 EA 5/8" Brass Compression Union Elbow	20.10	10.41
22 11 16 00-0795 EA 3/4" Brass Compression Union Elbow	25.38	10.41
22 11 16 00-0796 EA 3/8" x 1/4" Brass Compression Union Elbow	17.87	10.41
22 11 16 00-0797 EA 1/2" x 3/8" Brass Compression Union Elbow	18.75	10.41
22 11 16 00-0798 EA 5/8" x 3/8" Brass Compression Union Elbow	18.99	10.41
22 11 16 00-0799 EA 5/8" x 1/2" Brass Compression Union Elbow	22.96	10.41



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0800			Brass Compression Union Tees (22 11 16 00-0779)		
	EA		1/4" Brass Compression Union Tee	17.78	10.41
	EA		3/8" Brass Compression Union Tee	18.60	10.41
	EA		1/2" Brass Compression Union Tee	19.47	10.41
	EA		5/8" Brass Compression Union Tee	22.23	10.41
	EA		3/4" Brass Compression Union Tee	31.77	10.41
	EA		3/8" x 3/8" x 1/4" Brass Compression Union Tee	19.18	10.41
	EA		1/2" x 1/2" x 3/8" Brass Compression Union Tee	23.66	10.41
	EA		5/8" x 5/8" x 3/8" Brass Compression Union Tee	23.23	10.41
	EA		5/8" x 5/8" x 1/2" Brass Compression Union Tee	23.73	10.41
22 11 16 00-0810			Brass Compression Male Connectors (22 11 16 00-0779)		
	EA		1/4" Brass Compression Male Connector	16.32	10.41
	EA		3/8" Brass Compression Male Connector	16.64	10.41
	EA		1/2" Brass Compression Male Connector	17.20	10.41
	EA		5/8" Brass Compression Male Connector	18.02	10.41
	EA		3/4" Brass Compression Male Connector	20.61	10.31
22 11 16 00-0816			Brass Compression Female Connectors (22 11 16 00-0779)		
	EA		1/4" Brass Compression Female Connector	16.67	10.41
	EA		3/8" Brass Compression Female Connector	17.09	10.41
	EA		1/2" Brass Compression Female Connector	17.79	10.41
	EA		5/8" Brass Compression Female Connector	18.25	10.41
	EA		3/4" Brass Compression Female Connector	25.58	10.22
22 11 16 00-0822			Dielectric Fittings (22 11 16 00-0368)		
22 11 16 00-0823			Copper x Female Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
	EA		1/2" Copper x Female Iron Pipe Thread Dielectric Union	42.00	23.13
	EA		3/4" Copper x Female Iron Pipe Thread Dielectric Union	46.81	26.41
	EA		1" Copper x Female Iron Pipe Thread Dielectric Union	56.19	29.03
	EA		1-1/4" Copper x Female Iron Pipe Thread Dielectric Union	68.74	31.95
	EA		1-1/2" Copper x Female Iron Pipe Thread Dielectric Union	83.75	35.51
	EA		2" Copper x Female Iron Pipe Thread Dielectric Union	106.90	42.60
22 11 16 00-0830			Female Brass Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
	EA		1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	46.61	23.13
	EA		3/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	54.40	26.41
	EA		1" Female Brass Thread x Iron Pipe Thread Dielectric Union	66.20	29.03
	EA		1-1/4" Female Brass Thread x Iron Pipe Thread Dielectric Union	82.02	31.95
	EA		1-1/2" Female Brass Thread x Iron Pipe Thread Dielectric Union	100.18	35.51
	EA		2" Female Brass Thread x Iron Pipe Thread Dielectric Union	126.17	42.60
22 11 16 00-0837			Female Iron Pipe Thread x Iron Pipe Thread Dielectric Unions (22 11 16 00-0822)		
	EA		1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	43.69	23.13
	EA		3/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	49.58	26.41
	EA		1" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	56.92	29.03
	EA		1-1/4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	66.17	31.95
	EA		1-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	81.21	35.51
	EA		2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Union	104.86	42.60
22 11 16 00-0844			Copper x Female Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		
	EA		2-1/2" Copper x Female Iron Pipe Thread Dielectric Flange	259.05	109.53
	EA		3" Copper x Female Iron Pipe Thread Dielectric Flange	324.14	137.93
	EA		4" Copper x Female Iron Pipe Thread Dielectric Flange	458.41	187.72
22 11 16 00-0848			Copper x Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flanges (22 11 16 00-0822)		
	EA		2-1/2" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	260.96	109.53
	EA		3" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	339.25	137.93
	EA		4" Female Iron Pipe Thread x Iron Pipe Thread Dielectric Flange	632.77	187.72
22 11 16 00-0852			Brass Push-Fit Fittings (22 11 16)		
	EA		1/4" x 1/4" Brass Push-Fit Coupling	19.14	9.63
			Note: (Sharkbite)		
	EA		3/8" x 3/8" Brass Push-Fit Coupling	23.12	10.29
			Note: (Sharkbite)		
	EA		1/2" x 1/2" Brass Push-Fit Coupling	24.31	11.57
			Note: (Sharkbite)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0856 EA 5/8" x 5/8" Brass Push-Fit Coupling Note: (Sharkbite)	27.61	12.34
22 11 16 00-0857 EA 3/4" x 3/4" Brass Push-Fit Coupling Note: (Sharkbite)	28.37	13.18
22 11 16 00-0858 EA 1" x 1" Brass Push-Fit Coupling Note: (Sharkbite)	38.82	15.74
22 11 16 00-0859 EA 1/2" x 3/8" Brass Push-Fit Reducing Coupling Note: (Sharkbite)	23.71	10.92
22 11 16 00-0860 EA 3/4" x 5/8" Brass Push-Fit Reducing Coupling Note: (Sharkbite)	27.19	11.95
22 11 16 00-0861 EA 1" x 3/4" Brass Push-Fit Reducing Coupling Note: (Sharkbite)	39.23	14.46
22 11 16 00-0862 EA 1/4" x 1/4" Brass Push-Fit Elbow Note: (Sharkbite)	19.82	9.63
22 11 16 00-0863 EA 3/8" x 3/8" Brass Push-Fit Elbow Note: (Sharkbite)	26.00	10.29
22 11 16 00-0864 EA 1/2" x 1/2" Brass Push-Fit Elbow Note: (Sharkbite)	24.68	11.57
22 11 16 00-0865 EA 5/8" x 5/8" Brass Push-Fit Elbow Note: (Sharkbite)	29.29	12.34
22 11 16 00-0866 EA 3/4" x 3/4" Brass Push-Fit Elbow Note: (Sharkbite)	27.89	13.18
22 11 16 00-0867 EA 1" x 1" Brass Push-Fit Elbow Note: (Sharkbite)	39.19	15.74
22 11 16 00-0868 EA 1/2" x 3/8" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	23.40	10.92
22 11 16 00-0869 EA 3/4" x 1/2" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	26.00	11.95
22 11 16 00-0870 EA 1" x 3/4" Brass Push-Fit Reducing Elbow Note: (Sharkbite)	47.49	14.46
22 11 16 00-0871 EA 1/4" x 1/4" x 1/4" Brass Push-Fit Tee Note: (Sharkbite)	29.99	14.46
22 11 16 00-0872 EA 3/8" x 3/8" x 3/8" Brass Push-Fit Tee Note: (Sharkbite)	36.90	15.42
22 11 16 00-0873 EA 1/2" x 1/2" x 1/2" Brass Push-Fit Tee Note: (Sharkbite)	35.02	17.35
22 11 16 00-0874 EA 5/8" x 5/8" x 5/8" Brass Push-Fit Tee Note: (Sharkbite)	43.22	18.51
22 11 16 00-0875 EA 3/4" x 3/4" x 3/4" Brass Push-Fit Tee Note: (Sharkbite)	40.66	19.76
22 11 16 00-0876 EA 1" x 1" x 1" Brass Push-Fit Tee Note: (Sharkbite)	54.30	23.61
22 11 16 00-0877 EA 1/2" x 1/2" x 1/4" Brass Push-Fit Reducing Tee Note: (Sharkbite)	38.13	16.38
22 11 16 00-0878 EA 1/2" x 1/2" x 3/8" Brass Push-Fit Reducing Tee Note: (Sharkbite)	38.42	16.71
22 11 16 00-0879 EA 3/4" x 3/4" x 1/2" Brass Push-Fit Reducing Tee Note: (Sharkbite)	39.21	18.96
22 11 16 00-0880 EA 1" x 1" x 3/4" Brass Push-Fit Reducing Tee Note: (Sharkbite)	52.46	22.33
22 11 16 00-0881 EA 1/4" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	22.45	10.60
22 11 16 00-0882 EA 3/8" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	22.35	10.92
22 11 16 00-0883 EA 1/2" x 1/2" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	22.39	11.57
22 11 16 00-0884 EA 3/4" x 3/4" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	25.61	13.18
22 11 16 00-0885 EA 1" x 1" Brass Push-Fit Pipe To FNPT Connector Note: (Sharkbite)	34.94	15.74
22 11 16 00-0886 EA 1/4" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	20.14	10.60
22 11 16 00-0887 EA 3/8" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	22.35	10.92
22 11 16 00-0888 EA 1/2" x 1/2" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	22.44	11.57
22 11 16 00-0889 EA 3/4" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	25.40	13.18
22 11 16 00-0890 EA 5/8" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	27.01	12.75
22 11 16 00-0891 EA 1" x 3/4" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	32.09	14.46
22 11 16 00-0892 EA 1" x 1" Brass Push-Fit Pipe To MNPT Connector Note: (Sharkbite)	35.37	15.74
22 11 16 00-0893 EA 1/2" Brass Push-Fit Ball Valve Note: (Sharkbite)	30.39	11.57
22 11 16 00-0894 EA 3/4" Brass Push-Fit Ball Valve Note: (Sharkbite)	35.40	13.18
22 11 16 00-0895 EA 1" Brass Push-Fit Ball Valve Note: (Sharkbite)	46.14	15.74
22 11 16 00-0896 EA 1/2" Brass Push-Fit Check Valve Note: (Sharkbite)	32.25	11.57
22 11 16 00-0897 EA 3/4" Brass Push-Fit Check Valve Note: (Sharkbite)	38.54	13.18

22 Plumbing
22 10 Plumbing Piping
 22 11 Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0898	EA	1" Brass Push-Fit Check Valve Note: (Sharkbite)	62.47	15.74
22 11 16 00-0899		Copper Pipe Assemblies ^(22 11 16) Note: Includes hangers and all coupling, elbow, tee and reducer fittings. All fittings are based on 95/5 solder. All hangers are complete assemblies installed in accordance with MSS SP 58 and 69. Excludes insulation. Not for use where detail is available.		
22 11 16 00-0900	LF	1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.16 <i>For Type M Tubing Instead Of Type L, Deduct</i> -0.99 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 2.42 <i>For For Brazed Fittings, Add</i> 0.60 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -1.67 <i>For Work In Restricted Working Space, Add</i> 4.52	18.29	2.70
22 11 16 00-0901	LF	3/4" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.33 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.13 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 2.75 <i>For For Brazed Fittings, Add</i> 0.68 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -1.90 <i>For Work In Restricted Working Space, Add</i> 5.13	20.81	3.47
22 11 16 00-0902	LF	1" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.53 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.28 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 2.92 <i>For For Brazed Fittings, Add</i> 0.72 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.02 <i>For Work In Restricted Working Space, Add</i> 5.37	22.58	4.14
22 11 16 00-0903	LF	1-1/4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 1.87 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.52 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.11 <i>For For Brazed Fittings, Add</i> 0.74 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.18 <i>For Work In Restricted Working Space, Add</i> 5.58 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -0.65	25.06	4.82
22 11 16 00-0904	LF	1-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.14 <i>For Type M Tubing Instead Of Type L, Deduct</i> -1.72 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.36 <i>For For Brazed Fittings, Add</i> 0.79 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.37 <i>For Work In Restricted Working Space, Add</i> 5.95 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -0.77	27.55	5.49
22 11 16 00-0905	LF	2" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 2.84 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.24 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 3.98 <i>For For Brazed Fittings, Add</i> 0.91 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -2.84 <i>For Work In Restricted Working Space, Add</i> 6.85 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.11	33.89	6.84
22 11 16 00-0906	LF	2-1/2" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 3.86 <i>For Type M Tubing Instead Of Type L, Deduct</i> -2.96 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 4.50 <i>For For Brazed Fittings, Add</i> 0.98 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.28 <i>For Work In Restricted Working Space, Add</i> 7.35 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -1.65	41.01	8.25
22 11 16 00-0907	LF	3" Inside Diameter Copper Pipe/Tubing Type L Assembly..... Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 5.05 <i>For Type M Tubing Instead Of Type L, Deduct</i> -3.80 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 5.12 <i>For For Brazed Fittings, Add</i> 1.06 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -3.79 <i>For Work In Restricted Working Space, Add</i> 7.96 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -2.29	49.37	9.59



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0908	LF		4" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 8.54 <i>For Type M Tubing Instead Of Type L, Deduct</i> -6.31 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 7.20 <i>For For Brazed Fittings, Add</i> 1.37 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -5.49 <i>For Work In Restricted Working Space, Add</i> 10.29 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -4.11	75.42	12.69
22 11 16 00-0909	LF		5" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 18.01 <i>For Type M Tubing Instead Of Type L, Deduct</i> -12.94 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 11.26 <i>For For Brazed Fittings, Add</i> 1.76 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -9.06 <i>For Work In Restricted Working Space, Add</i> 13.21 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -9.32	137.21	15.80
22 11 16 00-0910	LF		6" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 23.73 <i>For Type M Tubing Instead Of Type L, Deduct</i> -17.03 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 14.55 <i>For For Brazed Fittings, Add</i> 2.24 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -11.75 <i>For Work In Restricted Working Space, Add</i> 16.77 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -12.32	179.15	19.09
22 11 16 00-0911	LF		8" Inside Diameter Copper Pipe/Tubing Type L Assembly Note: Includes all hangers and couplings, elbow, tee, reducer fittings. All hangers are complete assemblies. Not for use where detail is available. <i>For Type K Tubing Instead Of Type L, Add</i> 62.49 <i>For Type M Tubing Instead Of Type L, Deduct</i> -43.86 <i>For Silver Solder Instead Of 95/5 Solder, Add</i> 27.54 <i>For For Brazed Fittings, Add</i> 2.78 <i>For 60/40 Or 50/50 Solder Where Applicable Instead Of 95/5 Solder, Deduct</i> -24.07 <i>For Work In Restricted Working Space, Add</i> 20.84 <i>For Drain-Waste-Vent (DWV) Tubing Instead Of Type L, Deduct</i> -34.24	411.85	22.81
22 11 16 00-0912			Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16) Note: Socket weld.		
22 11 16 00-0913			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe And Fittings (22 11 16 00-0912)		
22 11 16 00-0914			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pipe (22 11 16 00-0913)		
22 11 16 00-0915	LF		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.06	5.20	1.42
22 11 16 00-0916	LF		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.12	6.00	1.49
22 11 16 00-0917	LF		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.20	7.33	1.61
22 11 16 00-0918	LF		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.32	8.98	1.75
22 11 16 00-0919	LF		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.46	10.41	1.93
22 11 16 00-0920	LF		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.62	13.10	2.16
22 11 16 00-0921	LF		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 1.85	17.93	2.46
22 11 16 00-0922	LF		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 2.18	23.00	2.91
22 11 16 00-0923	LF		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 2.68	32.02	3.58
22 11 16 00-0924	LF		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 3.41	56.02	4.55
22 11 16 00-0925	LF		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i> 4.47	80.77	5.97
22 11 16 00-0926			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0927	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> 5.06	19.45	6.74
22 11 16 00-0928	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> 6.39	25.33	8.52
22 11 16 00-0929	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> 8.01	33.07	10.65
22 11 16 00-0930	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> 10.01	45.63	13.31
22 11 16 00-0931	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow <i>For Work In Restricted Working Space, Add</i> 11.08	50.76	14.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0932 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	59.84	14.73
<i>For Work In Restricted Working Space, Add</i>	12.35	
22 11 16 00-0933 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow	95.47	18.72
<i>For Work In Restricted Working Space, Add</i>	14.06	
22 11 16 00-0934 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	108.20	22.19
<i>For Work In Restricted Working Space, Add</i>	16.62	
22 11 16 00-0935 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	156.24	27.25
<i>For Work In Restricted Working Space, Add</i>	20.45	
22 11 16 00-0936 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	197.02	34.61
<i>For Work In Restricted Working Space, Add</i>	25.99	
22 11 16 00-0937 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 90 Degree Elbow.....	383.79	45.45
<i>For Work In Restricted Working Space, Add</i>	34.08	
22 11 16 00-0938 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbows (22 11 16 00-0913)		
22 11 16 00-0939 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	20.74	6.74
<i>For Work In Restricted Working Space, Add</i>	5.06	
22 11 16 00-0940 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	26.87	8.52
<i>For Work In Restricted Working Space, Add</i>	6.39	
22 11 16 00-0941 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	35.59	10.65
<i>For Work In Restricted Working Space, Add</i>	8.01	
22 11 16 00-0942 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	48.94	13.31
<i>For Work In Restricted Working Space, Add</i>	10.01	
22 11 16 00-0943 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	54.79	14.73
<i>For Work In Restricted Working Space, Add</i>	11.08	
22 11 16 00-0944 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	61.20	16.51
<i>For Work In Restricted Working Space, Add</i>	12.35	
22 11 16 00-0945 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow	96.33	18.72
<i>For Work In Restricted Working Space, Add</i>	14.06	
22 11 16 00-0946 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	108.09	22.19
<i>For Work In Restricted Working Space, Add</i>	16.62	
22 11 16 00-0947 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	140.46	27.25
<i>For Work In Restricted Working Space, Add</i>	20.45	
22 11 16 00-0948 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	226.61	34.61
<i>For Work In Restricted Working Space, Add</i>	25.99	
22 11 16 00-0949 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 45 Degree Elbow.....	404.74	45.45
<i>For Work In Restricted Working Space, Add</i>	34.08	
22 11 16 00-0950 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tees (22 11 16 00-0913)		
22 11 16 00-0951 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	30.00	10.12
<i>For Work In Restricted Working Space, Add</i>	7.59	
22 11 16 00-0952 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	39.47	12.78
<i>For Work In Restricted Working Space, Add</i>	9.59	
22 11 16 00-0953 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	49.35	16.07
<i>For Work In Restricted Working Space, Add</i>	12.03	
22 11 16 00-0954 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	69.53	20.06
<i>For Work In Restricted Working Space, Add</i>	15.02	
22 11 16 00-0955 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	77.72	22.19
<i>For Work In Restricted Working Space, Add</i>	16.62	
22 11 16 00-0956 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	95.08	24.67
<i>For Work In Restricted Working Space, Add</i>	18.53	
22 11 16 00-0957 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	125.00	28.13
<i>For Work In Restricted Working Space, Add</i>	21.09	
22 11 16 00-0958 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	142.60	33.19
<i>For Work In Restricted Working Space, Add</i>	24.92	
22 11 16 00-0959 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	172.55	40.92
<i>For Work In Restricted Working Space, Add</i>	30.67	
22 11 16 00-0960 EA 6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	267.33	52.01
<i>For Work In Restricted Working Space, Add</i>	38.98	
22 11 16 00-0961 EA 8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Tee.....	563.74	68.17
<i>For Work In Restricted Working Space, Add</i>	51.12	
22 11 16 00-0962 Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Crosses (22 11 16 00-0913)		
22 11 16 00-0963 EA 1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross.....	37.79	13.49
<i>For Work In Restricted Working Space, Add</i>	10.12	
22 11 16 00-0964 EA 3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross.....	49.07	17.04
<i>For Work In Restricted Working Space, Add</i>	12.78	
22 11 16 00-0965 EA 1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross.....	61.40	21.39
<i>For Work In Restricted Working Space, Add</i>	16.03	
22 11 16 00-0966 EA 1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	83.53	26.71
<i>For Work In Restricted Working Space, Add</i>	20.03	
22 11 16 00-0967 EA 1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	93.08	29.56
<i>For Work In Restricted Working Space, Add</i>	22.16	
22 11 16 00-0968 EA 2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross.....	111.04	32.93
<i>For Work In Restricted Working Space, Add</i>	24.71	
22 11 16 00-0969 EA 2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross	140.85	37.46
<i>For Work In Restricted Working Space, Add</i>	28.12	
22 11 16 00-0970 EA 3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross.....	162.03	44.29
<i>For Work In Restricted Working Space, Add</i>	33.23	
22 11 16 00-0971 EA 4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross.....	196.89	54.49
<i>For Work In Restricted Working Space, Add</i>	40.90	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-0972	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	291.59 51.98	69.32
22 11 16 00-0973	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cross..... <i>For Work In Restricted Working Space, Add</i>	565.99 68.16	90.88
22 11 16 00-0974			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld Reducing Inserts <small>(22 11 16 00-0913)</small>		
22 11 16 00-0975	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	17.18 4.69	6.22
22 11 16 00-0976	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	24.06 6.31	8.43
22 11 16 00-0977	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	41.32 8.26	11.01
22 11 16 00-0978	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	46.74 9.14	12.16
22 11 16 00-0979	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	55.39 10.20	13.58
22 11 16 00-0980	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	60.09 11.61	15.44
22 11 16 00-0981	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	73.10 13.71	18.28
22 11 16 00-0982	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	100.16 16.88	22.46
22 11 16 00-0983	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	164.95 21.44	28.58
22 11 16 00-0984	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	375.05 28.12	37.46
22 11 16 00-0985			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Thread Reducing Inserts <small>(22 11 16 00-0913)</small>		
22 11 16 00-0986	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	21.24 3.33	4.44
22 11 16 00-0987	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	26.56 4.69	6.22
22 11 16 00-0988	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	32.76 6.31	8.43
22 11 16 00-0989	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	40.57 8.26	11.01
22 11 16 00-0990	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	47.85 9.14	12.16
22 11 16 00-0991	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	60.93 10.20	13.58
22 11 16 00-0992	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	96.25 11.61	15.44
22 11 16 00-0993	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	196.04 13.71	18.28
22 11 16 00-0994	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Or Male Threaded Reducing Insert..... <i>For Work In Restricted Working Space, Add</i>	293.20 16.88	22.46
22 11 16 00-0995			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters <small>(22 11 16 00-0913)</small>		
22 11 16 00-0996	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	14.98 3.33	4.44
22 11 16 00-0997	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	20.88 4.69	6.22
22 11 16 00-0998	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	29.88 6.31	8.43
22 11 16 00-0999	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	40.57 8.26	11.01
22 11 16 00-1000	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	48.10 9.14	12.16
22 11 16 00-1001	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	57.87 10.20	13.58
22 11 16 00-1002	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	83.89 11.61	15.44
22 11 16 00-1003	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	100.35 13.71	18.28
22 11 16 00-1004	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Male Thread Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	148.65 16.88	22.46
22 11 16 00-1005			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters <small>(22 11 16 00-0913)</small>		



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1006	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	16.46	4.44
		<i>For Work In Restricted Working Space, Add</i>	3.33	
22 11 16 00-1007	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	21.35	6.22
		<i>For Work In Restricted Working Space, Add</i>	4.69	
22 11 16 00-1008	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	30.01	8.43
		<i>For Work In Restricted Working Space, Add</i>	6.31	
22 11 16 00-1009	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	41.00	11.01
		<i>For Work In Restricted Working Space, Add</i>	8.26	
22 11 16 00-1010	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	46.12	12.16
		<i>For Work In Restricted Working Space, Add</i>	9.14	
22 11 16 00-1011	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	56.25	13.58
		<i>For Work In Restricted Working Space, Add</i>	10.20	
22 11 16 00-1012	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	84.82	15.44
		<i>For Work In Restricted Working Space, Add</i>	11.61	
22 11 16 00-1013	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	116.67	18.28
		<i>For Work In Restricted Working Space, Add</i>	13.71	
22 11 16 00-1014	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Socket Weld x Female Thread Female Adapters.....	176.40	22.46
		<i>For Work In Restricted Working Space, Add</i>	16.88	
22 11 16 00-1015		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings (22 11 16 00-0913)		
22 11 16 00-1016	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	13.43	4.08
		<i>For Work In Restricted Working Space, Add</i>	3.04	
22 11 16 00-1017	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	18.87	5.68
		<i>For Work In Restricted Working Space, Add</i>	4.26	
22 11 16 00-1018	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	25.38	7.64
		<i>For Work In Restricted Working Space, Add</i>	5.73	
22 11 16 00-1019	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	34.41	10.03
		<i>For Work In Restricted Working Space, Add</i>	7.51	
22 11 16 00-1020	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	39.52	11.10
		<i>For Work In Restricted Working Space, Add</i>	8.31	
22 11 16 00-1021	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	44.62	12.34
		<i>For Work In Restricted Working Space, Add</i>	9.27	
22 11 16 00-1022	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	68.07	14.03
		<i>For Work In Restricted Working Space, Add</i>	10.54	
22 11 16 00-1023	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	74.78	16.60
		<i>For Work In Restricted Working Space, Add</i>	12.46	
22 11 16 00-1024	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	94.69	20.41
		<i>For Work In Restricted Working Space, Add</i>	15.34	
22 11 16 00-1025	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	150.92	26.01
		<i>For Work In Restricted Working Space, Add</i>	19.49	
22 11 16 00-1026	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Couplings.....	259.37	34.08
		<i>For Work In Restricted Working Space, Add</i>	25.56	
22 11 16 00-1027		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions (22 11 16 00-0913)		
22 11 16 00-1028	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	26.25	4.88
		<i>For Work In Restricted Working Space, Add</i>	3.65	
22 11 16 00-1029	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	31.82	6.83
		<i>For Work In Restricted Working Space, Add</i>	5.11	
22 11 16 00-1030	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	38.14	9.15
		<i>For Work In Restricted Working Space, Add</i>	6.87	
22 11 16 00-1031	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	65.84	11.98
		<i>For Work In Restricted Working Space, Add</i>	9.00	
22 11 16 00-1032	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	69.68	13.31
		<i>For Work In Restricted Working Space, Add</i>	9.96	
22 11 16 00-1033	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	97.63	14.82
		<i>For Work In Restricted Working Space, Add</i>	11.13	
22 11 16 00-1034	EA	2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	167.69	16.86
		<i>For Work In Restricted Working Space, Add</i>	12.65	
22 11 16 00-1035	EA	3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	239.57	19.97
		<i>For Work In Restricted Working Space, Add</i>	14.96	
22 11 16 00-1036	EA	4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	383.81	24.50
		<i>For Work In Restricted Working Space, Add</i>	18.40	
22 11 16 00-1037	EA	6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	513.45	31.15
		<i>For Work In Restricted Working Space, Add</i>	23.38	
22 11 16 00-1038	EA	8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Unions.....	634.25	40.92
		<i>For Work In Restricted Working Space, Add</i>	30.67	
22 11 16 00-1039		Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Caps (22 11 16 00-0913)		
22 11 16 00-1040	EA	1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap.....	8.58	1.33
		<i>For Work In Restricted Working Space, Add</i>	1.01	
22 11 16 00-1041	EA	3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap.....	14.50	2.84
		<i>For Work In Restricted Working Space, Add</i>	2.13	
22 11 16 00-1042	EA	1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap.....	24.53	4.62
		<i>For Work In Restricted Working Space, Add</i>	3.44	
22 11 16 00-1043	EA	1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap.....	26.87	4.97
		<i>For Work In Restricted Working Space, Add</i>	3.76	
22 11 16 00-1044	EA	1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap.....	28.47	5.50
		<i>For Work In Restricted Working Space, Add</i>	4.15	
22 11 16 00-1045	EA	2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap.....	39.00	6.22
		<i>For Work In Restricted Working Space, Add</i>	4.63	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1046	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	60.00 5.27	7.01
22 11 16 00-1047	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	64.16 6.23	8.34
22 11 16 00-1048	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	98.76 7.67	10.20
22 11 16 00-1049	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	214.60 9.75	12.96
22 11 16 00-1050	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) Cap <i>For Work In Restricted Working Space, Add</i>	276.44 12.78	17.04
22 11 16 00-1051			Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <small>(22 11 16 00-0913)</small>		
22 11 16 00-1052	EA		1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	20.66 2.42	3.20
22 11 16 00-1053	EA		3/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	24.84 3.41	4.53
22 11 16 00-1054	EA		1" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	30.29 4.58	6.13
22 11 16 00-1055	EA		1-1/4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	35.52 6.02	7.99
22 11 16 00-1056	EA		1-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	38.01 6.66	8.87
22 11 16 00-1057	EA		2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	45.70 7.40	9.85
22 11 16 00-1058	EA		2-1/2" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	60.96 8.44	11.27
22 11 16 00-1059	EA		3" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	68.99 9.96	13.31
22 11 16 00-1060	EA		4" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	86.29 12.28	16.33
22 11 16 00-1061	EA		6" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	123.33 15.60	20.77
22 11 16 00-1062	EA		8" Schedule 80 Chlorinated Polyvinyl Chloride (CPVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i>	229.07 20.45	27.25
22 11 16 00-1063			Red Brass Pipe And Fittings <small>(22 11 16)</small> Note: ASTM B43 And B251 (Pipe), ASME B16.15.		
22 11 16 00-1064			Schedule 40 Red Brass Pipe <small>(22 11 16 00-1063)</small>		
22 11 16 00-1065	LF		1/2" Schedule 40 Red Brass Pipe	13.25	1.86
22 11 16 00-1066	LF		3/4" Schedule 40 Red Brass Pipe	16.89	1.86
22 11 16 00-1067	LF		1" Schedule 40 Red Brass Pipe	22.30	1.86
22 11 16 00-1068	LF		1-1/4" Schedule 40 Red Brass Pipe	31.94	2.04
22 11 16 00-1069	LF		1-1/2" Schedule 40 Red Brass Pipe	36.59	2.22
22 11 16 00-1070	LF		2" Schedule 40 Red Brass Pipe	46.69	2.67
22 11 16 00-1071	LF		2-1/2" Schedule 40 Red Brass Pipe	66.99	3.02
22 11 16 00-1072	LF		3" Schedule 40 Red Brass Pipe	93.50	3.20
22 11 16 00-1073	LF		4" Schedule 40 Red Brass Pipe	132.92	3.20
22 11 16 00-1074			125 LB Cast Bronze, Screwed, 90 Degree Elbows <small>(22 11 16 00-1063)</small>		
22 11 16 00-1075	EA		1/2" 125 LB Cast Bronze, Screwed, 90 Degree Elbow	50.27	22.10
22 11 16 00-1076	EA		3/4" 125 LB Cast Bronze, Screwed, 90 Degree Elbow	56.73	24.32
22 11 16 00-1077	EA		1" 125 LB Cast Bronze, Screwed, 90 Degree Elbow	70.67	28.76
22 11 16 00-1078	EA		1-1/4" 125 LB Cast Bronze, Screwed, 90 Degree Elbow	83.26	30.89
22 11 16 00-1079	EA		1-1/2" 125 LB Cast Bronze, Screwed, 90 Degree Elbow	92.75	33.10
22 11 16 00-1080	EA		2" 125 LB Cast Bronze, Screwed, 90 Degree Elbow	113.44	35.33
22 11 16 00-1081	EA		2-1/2" 125 LB Cast Bronze, Screwed, 90 Degree Elbow	187.13	44.20
22 11 16 00-1082	EA		3" 125 LB Cast Bronze, Screwed, 90 Degree Elbow	256.88	52.98
22 11 16 00-1083	EA		4" 125 LB Cast Bronze, Screwed, 90 Degree Elbow	446.77	70.65
22 11 16 00-1084			125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbows <small>(22 11 16 00-1063)</small>		
22 11 16 00-1085	EA		1/2" 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	52.31	22.10
22 11 16 00-1086	EA		3/4" 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	59.70	24.32
22 11 16 00-1087	EA		1" 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	76.88	28.76
22 11 16 00-1088	EA		1-1/4" 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	91.38	30.89
22 11 16 00-1089	EA		1-1/2" 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	103.94	33.10
22 11 16 00-1090	EA		2" 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	137.87	35.33
22 11 16 00-1091	EA		2-1/2" 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	207.49	44.20
22 11 16 00-1092	EA		3" 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	319.44	52.98
22 11 16 00-1093	EA		4" 125 LB Cast Bronze, Screwed, 90 Degree Reducing Elbow	623.82	70.65
22 11 16 00-1094			125 LB Cast Bronze, Screwed, 45 Degree Elbows <small>(22 11 16 00-1063)</small>		
22 11 16 00-1095	EA		1/2" 125 LB Cast Bronze, Screwed, 45 Degree Elbow	51.31	22.10
22 11 16 00-1096	EA		3/4" 125 LB Cast Bronze, Screwed, 45 Degree Elbow	58.76	24.32
22 11 16 00-1097	EA		1" 125 LB Cast Bronze, Screwed, 45 Degree Elbow	74.75	28.76
22 11 16 00-1098	EA		1-1/4" 125 LB Cast Bronze, Screwed, 45 Degree Elbow	89.36	30.89



SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1099 EA 1-1/2" 125 LB Cast Bronze, Screwed, 45 Degree Elbow	100.88	33.10
22 11 16 00-1100 EA 2" 125 LB Cast Bronze, Screwed, 45 Degree Elbow	126.67	35.33
22 11 16 00-1101 EA 2-1/2" 125 LB Cast Bronze, Screwed, 45 Degree Elbow	195.25	44.20
22 11 16 00-1102 EA 3" 125 LB Cast Bronze, Screwed, 45 Degree Elbow	270.77	52.98
22 11 16 00-1103 EA 4" 125 LB Cast Bronze, Screwed, 45 Degree Elbow	582.68	70.65
22 11 16 00-1104 125 LB Cast Bronze, Screwed, Tees (22 11 16 00-1063)		
22 11 16 00-1105 EA 1/2" 125 LB Cast Bronze, Screwed, Tee.....	73.40	33.10
22 11 16 00-1106 EA 3/4" 125 LB Cast Bronze, Screwed, Tee.....	82.61	36.21
22 11 16 00-1107 EA 1" 125 LB Cast Bronze, Screwed, Tee.....	104.03	42.87
22 11 16 00-1108 EA 1-1/4" 125 LB Cast Bronze, Screwed, Tee.....	124.33	46.42
22 11 16 00-1109 EA 1-1/2" 125 LB Cast Bronze, Screwed, Tee.....	134.59	49.44
22 11 16 00-1110 EA 2" 125 LB Cast Bronze, Screwed, Tee.....	165.07	52.98
22 11 16 00-1111 EA 2-1/2" 125 LB Cast Bronze, Screwed, Tee.....	266.91	66.30
22 11 16 00-1112 EA 3" 125 LB Cast Bronze, Screwed, Tee.....	364.47	79.52
22 11 16 00-1113 EA 4" 125 LB Cast Bronze, Screwed, Tee.....	721.06	105.98
22 11 16 00-1114 125 LB Cast Bronze, Screwed, Reducing Tees (22 11 16 00-1063)		
22 11 16 00-1115 EA 1/2" 125 LB Cast Bronze, Screwed, Reducing Tee.....	76.44	33.10
22 11 16 00-1116 EA 3/4" 125 LB Cast Bronze, Screwed, Reducing Tee.....	84.66	36.21
22 11 16 00-1117 EA 1" 125 LB Cast Bronze, Screwed, Reducing Tee.....	112.18	42.87
22 11 16 00-1118 EA 1-1/4" 125 LB Cast Bronze, Screwed, Reducing Tee.....	130.44	46.42
22 11 16 00-1119 EA 1-1/2" 125 LB Cast Bronze, Screwed, Reducing Tee.....	150.88	49.44
22 11 16 00-1120 EA 2" 125 LB Cast Bronze, Screwed, Reducing Tee.....	190.52	52.98
22 11 16 00-1121 EA 2-1/2" 125 LB Cast Bronze, Screwed, Reducing Tee.....	316.41	66.30
22 11 16 00-1122 EA 3" 125 LB Cast Bronze, Screwed, Reducing Tee.....	579.58	79.52
22 11 16 00-1123 EA 4" 125 LB Cast Bronze, Screwed, Reducing Tee.....	890.73	105.98
22 11 16 00-1124 125 LB Cast Bronze, Screwed, Crosses (22 11 16 00-1063)		
22 11 16 00-1125 EA 1/2" 125 LB Cast Bronze, Screwed, Cross.....	102.61	44.20
22 11 16 00-1126 EA 3/4" 125 LB Cast Bronze, Screwed, Cross.....	117.55	48.55
22 11 16 00-1127 EA 1" 125 LB Cast Bronze, Screwed, Cross.....	146.42	57.43
22 11 16 00-1128 EA 1-1/4" 125 LB Cast Bronze, Screwed, Cross.....	177.10	61.87
22 11 16 00-1129 EA 1-1/2" 125 LB Cast Bronze, Screwed, Cross.....	206.09	66.30
22 11 16 00-1130 EA 2" 125 LB Cast Bronze, Screwed, Cross.....	288.47	70.65
22 11 16 00-1131 EA 2-1/2" 125 LB Cast Bronze, Screwed, Cross.....	455.01	88.31
22 11 16 00-1132 EA 3" 125 LB Cast Bronze, Screwed, Cross.....	620.28	105.98
22 11 16 00-1133 EA 4" 125 LB Cast Bronze, Screwed, Cross.....	1,117.66	141.39
22 11 16 00-1134 125 LB Cast Bronze, Screwed, Caps (22 11 16 00-1063)		
22 11 16 00-1135 EA 1/2" 125 LB Cast Bronze, Screwed, Cap.....	39.40	17.66
22 11 16 00-1136 EA 3/4" 125 LB Cast Bronze, Screwed, Cap.....	44.85	19.88
22 11 16 00-1137 EA 1" 125 LB Cast Bronze, Screwed, Cap.....	55.19	22.99
22 11 16 00-1138 EA 1-1/4" 125 LB Cast Bronze, Screwed, Cap.....	66.65	25.20
22 11 16 00-1139 EA 1-1/2" 125 LB Cast Bronze, Screwed, Cap.....	75.30	26.98
22 11 16 00-1140 EA 2" 125 LB Cast Bronze, Screwed, Cap.....	94.09	28.76
22 11 16 00-1141 EA 2-1/2" 125 LB Cast Bronze, Screwed, Cap.....	137.86	35.33
22 11 16 00-1142 EA 3" 125 LB Cast Bronze, Screwed, Cap.....	192.22	44.20
22 11 16 00-1143 EA 4" 125 LB Cast Bronze, Screwed, Cap.....	312.92	57.43
22 11 16 00-1144 125 LB Cast Bronze, Screwed, Couplings (22 11 16 00-1063)		
22 11 16 00-1145 EA 1/2" 125 LB Cast Bronze, Screwed, Coupling.....	49.27	22.10
22 11 16 00-1146 EA 3/4" 125 LB Cast Bronze, Screwed, Coupling.....	55.73	24.32
22 11 16 00-1147 EA 1" 125 LB Cast Bronze, Screwed, Coupling.....	69.65	28.76
22 11 16 00-1148 EA 1-1/4" 125 LB Cast Bronze, Screwed, Coupling.....	82.22	30.89
22 11 16 00-1149 EA 1-1/2" 125 LB Cast Bronze, Screwed, Coupling.....	92.75	33.10
22 11 16 00-1150 EA 2" 125 LB Cast Bronze, Screwed, Coupling.....	114.46	35.33
22 11 16 00-1151 EA 2-1/2" 125 LB Cast Bronze, Screwed, Coupling.....	159.62	44.20
22 11 16 00-1152 EA 3" 125 LB Cast Bronze, Screwed, Coupling.....	204.80	52.98
22 11 16 00-1153 EA 4" 125 LB Cast Bronze, Screwed, Coupling.....	344.96	70.65
22 11 16 00-1154 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducers (22 11 16 00-1063)		
22 11 16 00-1155 EA 1/2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer.....	42.80	17.66
22 11 16 00-1156 EA 3/4" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer.....	48.77	19.88
22 11 16 00-1157 EA 1" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer.....	66.00	26.54
22 11 16 00-1158 EA 1-1/4" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer.....	77.73	28.76
22 11 16 00-1159 EA 1-1/2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer.....	87.43	30.89
22 11 16 00-1160 EA 2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer.....	104.10	33.10
22 11 16 00-1161 EA 2-1/2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer.....	149.29	41.99
22 11 16 00-1162 EA 3" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer.....	180.23	48.55
22 11 16 00-1163 EA 4" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Pipe Sizes, Bell Reducer.....	305.69	64.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1164 125 LB Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducers <small>(22 11 16 00-1063)</small>		
22 11 16 00-1165 EA 3/4" 125 LB Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	43.65	17.66
22 11 16 00-1166 EA 1" 125 LB Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	75.94	24.32
22 11 16 00-1167 EA 1-1/4" 125 LB Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	97.58	26.54
22 11 16 00-1168 EA 1-1/2" 125 LB Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	113.37	28.76
22 11 16 00-1169 EA 2" 125 LB Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	149.26	33.10
22 11 16 00-1170 EA 2-1/2" 125 LB Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	226.29	41.99
22 11 16 00-1171 EA 3" 125 LB Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	270.93	44.20
22 11 16 00-1172 EA 4" 125 LB Cast Bronze, Screwed, Reducing 2 Or More Pipe Sizes, Bell Reducer	310.35	57.43
22 11 16 00-1173 125 LB Cast Bronze, Screwed, Unions <small>(22 11 16 00-1063)</small>		
22 11 16 00-1174 EA 1/2" 125 LB Cast Bronze, Screwed, Union	51.63	17.66
22 11 16 00-1175 EA 3/4" 125 LB Cast Bronze, Screwed, Union	61.26	19.44
22 11 16 00-1176 EA 1" 125 LB Cast Bronze, Screwed, Union	75.47	22.99
22 11 16 00-1177 EA 1-1/4" 125 LB Cast Bronze, Screwed, Union	92.22	24.76
22 11 16 00-1178 EA 1-1/2" 125 LB Cast Bronze, Screwed, Union	103.92	26.54
22 11 16 00-1179 EA 2" 125 LB Cast Bronze, Screwed, Union	122.29	30.00
22 11 16 00-1180 125 LB Cast Bronze, Screwed, Companion Flanges <small>(22 11 16 00-1063)</small>		
22 11 16 00-1181 EA 1/2" 125 LB Cast Bronze, Screwed, Companion Flange	134.42	22.10
22 11 16 00-1182 EA 3/4" 125 LB Cast Bronze, Screwed, Companion Flange	147.41	26.54
22 11 16 00-1183 EA 1" 125 LB Cast Bronze, Screwed, Companion Flange	169.20	30.89
22 11 16 00-1184 EA 1-1/4" 125 LB Cast Bronze, Screwed, Companion Flange	192.13	33.10
22 11 16 00-1185 EA 1-1/2" 125 LB Cast Bronze, Screwed, Companion Flange	226.15	35.33
22 11 16 00-1186 EA 2" 125 LB Cast Bronze, Screwed, Companion Flange	282.43	37.55
22 11 16 00-1187 EA 2-1/2" 125 LB Cast Bronze, Screwed, Companion Flange	354.89	44.20
22 11 16 00-1188 EA 3" 125 LB Cast Bronze, Screwed, Companion Flange	439.91	55.21
22 11 16 00-1189 EA 4" 125 LB Cast Bronze, Screwed, Companion Flange	626.60	77.31
22 11 16 00-1190 125 LB Cast Bronze, Screwed, Square Head Plugs <small>(22 11 16 00-1063)</small>		
22 11 16 00-1191 EA 1/2" 125 LB Cast Bronze, Screwed, Square Head Plug	14.32	
22 11 16 00-1192 EA 3/4" 125 LB Cast Bronze, Screwed, Square Head Plug	14.54	
22 11 16 00-1193 EA 1" 125 LB Cast Bronze, Screwed, Square Head Plug	22.34	
22 11 16 00-1194 EA 1-1/4" 125 LB Cast Bronze, Screwed, Square Head Plug	25.43	
22 11 16 00-1195 EA 1-1/2" 125 LB Cast Bronze, Screwed, Square Head Plug	28.58	
22 11 16 00-1196 EA 2" 125 LB Cast Bronze, Screwed, Square Head Plug	42.50	
22 11 16 00-1197 EA 2-1/2" 125 LB Cast Bronze, Screwed, Square Head Plug	63.38	
22 11 16 00-1198 EA 3" 125 LB Cast Bronze, Screwed, Square Head Plug	91.74	
22 11 16 00-1199 EA 4" 125 LB Cast Bronze, Screwed, Square Head Plug	152.34	
22 11 16 00-1200 125 LB Cast Bronze, Screwed, Counter Sunk Plugs <small>(22 11 16 00-1063)</small>		
22 11 16 00-1201 EA 1/2" 125 LB Cast Bronze, Screwed, Counter Sunk Plug	5.10	
22 11 16 00-1202 EA 3/4" 125 LB Cast Bronze, Screwed, Counter Sunk Plug	6.10	
22 11 16 00-1203 EA 1" 125 LB Cast Bronze, Screwed, Counter Sunk Plug	9.18	
22 11 16 00-1204 EA 1-1/4" 125 LB Cast Bronze, Screwed, Counter Sunk Plug	14.26	
22 11 16 00-1205 EA 1-1/2" 125 LB Cast Bronze, Screwed, Counter Sunk Plug	22.59	
22 11 16 00-1206 EA 2" 125 LB Cast Bronze, Screwed, Counter Sunk Plug	35.01	
22 11 16 00-1207 EA 2-1/2" 125 LB Cast Bronze, Screwed, Counter Sunk Plug	68.13	
22 11 16 00-1208 EA 3" 125 LB Cast Bronze, Screwed, Counter Sunk Plug	110.34	
22 11 16 00-1209 EA 4" 125 LB Cast Bronze, Screwed, Counter Sunk Plug	269.12	
22 11 16 00-1210 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushings <small>(22 11 16 00-1063)</small>		
22 11 16 00-1211 EA 1/2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	4.06	
22 11 16 00-1212 EA 3/4" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	5.10	
22 11 16 00-1213 EA 1" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	7.14	
22 11 16 00-1214 EA 1-1/4" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	12.22	
22 11 16 00-1215 EA 1-1/2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	17.32	
22 11 16 00-1216 EA 2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	21.41	
22 11 16 00-1217 EA 2-1/2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	53.97	
22 11 16 00-1218 EA 3" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	79.44	
22 11 16 00-1219 EA 4" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Hex Bushing	173.99	
22 11 16 00-1220 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushings <small>(22 11 16 00-1063)</small>		
22 11 16 00-1221 EA 1/2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	7.14	
22 11 16 00-1222 EA 3/4" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	10.17	
22 11 16 00-1223 EA 1" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	17.73	
22 11 16 00-1224 EA 1-1/4" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	24.08	
22 11 16 00-1225 EA 1-1/2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	30.10	
22 11 16 00-1226 EA 2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	37.92	
22 11 16 00-1227 EA 2-1/2" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	77.43	
22 11 16 00-1228 EA 3" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing	122.50	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 16 00-1229	EA	4" 125 LB Cast Bronze, Screwed, Reducing 1 Or 2 Sizes, Flush Bushing.....	257.43
22 11 16 00-1230		1/2" Red Brass Pipe Nipples (22 11 16 00-1063)	
		Note: Threaded both ends.	
22 11 16 00-1231	EA	1/2" x Close, Red Brass Pipe Nipple.....	7.09
22 11 16 00-1232	EA	1/2" x 1-1/2" Long, Red Brass Pipe Nipple.....	8.31
22 11 16 00-1233	EA	1/2" x 2" Long, Red Brass Pipe Nipple.....	10.17
22 11 16 00-1234	EA	1/2" x 2-1/2" Long, Red Brass Pipe Nipple.....	12.09
22 11 16 00-1235	EA	1/2" x 3" Long, Red Brass Pipe Nipple.....	14.00
22 11 16 00-1236	EA	1/2" x 3-1/2" Long, Red Brass Pipe Nipple.....	16.52
22 11 16 00-1237	EA	1/2" x 4" Long, Red Brass Pipe Nipple.....	18.53
22 11 16 00-1238	EA	1/2" x 4-1/2" Long, Red Brass Pipe Nipple.....	20.35
22 11 16 00-1239	EA	1/2" x 5" Long, Red Brass Pipe Nipple.....	22.26
22 11 16 00-1240	EA	1/2" x 5-1/2" Long, Red Brass Pipe Nipple.....	24.36
22 11 16 00-1241	EA	1/2" x 6" Long, Red Brass Pipe Nipple.....	26.23
22 11 16 00-1242		3/4" Red Brass Pipe Nipples (22 11 16 00-1063)	
		Note: Threaded both ends.	
22 11 16 00-1243	EA	3/4" x Close, Red Brass Pipe Nipple.....	10.36
22 11 16 00-1244	EA	3/4" x 1-1/2" Long, Red Brass Pipe Nipple.....	10.92
22 11 16 00-1245	EA	3/4" x 2" Long, Red Brass Pipe Nipple.....	13.21
22 11 16 00-1246	EA	3/4" x 2-1/2" Long, Red Brass Pipe Nipple.....	15.54
22 11 16 00-1247	EA	3/4" x 3" Long, Red Brass Pipe Nipple.....	17.64
22 11 16 00-1248	EA	3/4" x 3-1/2" Long, Red Brass Pipe Nipple.....	20.25
22 11 16 00-1249	EA	3/4" x 4" Long, Red Brass Pipe Nipple.....	22.77
22 11 16 00-1250	EA	3/4" x 4-1/2" Long, Red Brass Pipe Nipple.....	25.58
22 11 16 00-1251	EA	3/4" x 5" Long, Red Brass Pipe Nipple.....	27.91
22 11 16 00-1252	EA	3/4" x 5-1/2" Long, Red Brass Pipe Nipple.....	32.16
22 11 16 00-1253	EA	3/4" x 6" Long, Red Brass Pipe Nipple.....	33.79
22 11 16 00-1254		1" Red Brass Pipe Nipples (22 11 16 00-1063)	
		Note: Threaded both ends.	
22 11 16 00-1255	EA	1" x Close, Red Brass Pipe Nipple.....	15.77
22 11 16 00-1256	EA	1" x 1-1/2" Long, Red Brass Pipe Nipple.....	17.36
22 11 16 00-1257	EA	1" x 2" Long, Red Brass Pipe Nipple.....	18.95
22 11 16 00-1258	EA	1" x 2-1/2" Long, Red Brass Pipe Nipple.....	22.54
22 11 16 00-1259	EA	1" x 3" Long, Red Brass Pipe Nipple.....	25.48
22 11 16 00-1260	EA	1" x 3-1/2" Long, Red Brass Pipe Nipple.....	30.01
22 11 16 00-1261	EA	1" x 4" Long, Red Brass Pipe Nipple.....	33.60
22 11 16 00-1262	EA	1" x 4-1/2" Long, Red Brass Pipe Nipple.....	37.15
22 11 16 00-1263	EA	1" x 5" Long, Red Brass Pipe Nipple.....	40.79
22 11 16 00-1264	EA	1" x 5-1/2" Long, Red Brass Pipe Nipple.....	44.62
22 11 16 00-1265	EA	1" x 6" Long, Red Brass Pipe Nipple.....	48.16
22 11 16 00-1266		1-1/4" Red Brass Pipe Nipples (22 11 16 00-1063)	
		Note: Threaded both ends.	
22 11 16 00-1267	EA	1-1/4" x Close, Red Brass Pipe Nipple.....	23.34
22 11 16 00-1268	EA	1-1/4" x 1-1/2" Long, Red Brass Pipe Nipple.....	24.87
22 11 16 00-1269	EA	1-1/4" x 2" Long, Red Brass Pipe Nipple.....	26.74
22 11 16 00-1270	EA	1-1/4" x 2-1/2" Long, Red Brass Pipe Nipple.....	32.20
22 11 16 00-1271	EA	1-1/4" x 3" Long, Red Brass Pipe Nipple.....	37.62
22 11 16 00-1272	EA	1-1/4" x 3-1/2" Long, Red Brass Pipe Nipple.....	44.15
22 11 16 00-1273	EA	1-1/4" x 4" Long, Red Brass Pipe Nipple.....	49.56
22 11 16 00-1274	EA	1-1/4" x 4-1/2" Long, Red Brass Pipe Nipple.....	54.98
22 11 16 00-1275	EA	1-1/4" x 5" Long, Red Brass Pipe Nipple.....	60.44
22 11 16 00-1276	EA	1-1/4" x 5-1/2" Long, Red Brass Pipe Nipple.....	66.13
22 11 16 00-1277	EA	1-1/4" x 6" Long, Red Brass Pipe Nipple.....	71.55
22 11 16 00-1278		1-1/2" Red Brass Pipe Nipples (22 11 16 00-1063)	
		Note: Threaded both ends.	
22 11 16 00-1279	EA	1-1/2" x Close, Red Brass Pipe Nipple.....	29.03
22 11 16 00-1280	EA	1-1/2" x 1-1/2" Long, Red Brass Pipe Nipple.....	30.29
22 11 16 00-1281	EA	1-1/2" x 2" Long, Red Brass Pipe Nipple.....	31.55
22 11 16 00-1282	EA	1-1/2" x 2-1/2" Long, Red Brass Pipe Nipple.....	38.36
22 11 16 00-1283	EA	1-1/2" x 3" Long, Red Brass Pipe Nipple.....	43.50
22 11 16 00-1284	EA	1-1/2" x 3-1/2" Long, Red Brass Pipe Nipple.....	51.15
22 11 16 00-1285	EA	1-1/2" x 4" Long, Red Brass Pipe Nipple.....	57.59
22 11 16 00-1286	EA	1-1/2" x 4-1/2" Long, Red Brass Pipe Nipple.....	64.27
22 11 16 00-1287	EA	1-1/2" x 5" Long, Red Brass Pipe Nipple.....	70.71
22 11 16 00-1288	EA	1-1/2" x 5-1/2" Long, Red Brass Pipe Nipple.....	77.01
22 11 16 00-1289	EA	1-1/2" x 6" Long, Red Brass Pipe Nipple.....	83.31
22 11 16 00-1290		2" Red Brass Pipe Nipples (22 11 16 00-1063)	
		Note: Threaded both ends.	
22 11 16 00-1291	EA	2" x Close, Red Brass Pipe Nipple.....	44.62



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 16 00-1292 EA 2" x 1-1/2" Long, Red Brass Pipe Nipple.....	46.18	
22 11 16 00-1293 EA 2" x 2" Long, Red Brass Pipe Nipple.....	47.72	
22 11 16 00-1294 EA 2" x 2-1/2" Long, Red Brass Pipe Nipple.....	49.28	
22 11 16 00-1295 EA 2" x 3" Long, Red Brass Pipe Nipple.....	55.82	
22 11 16 00-1296 EA 2" x 3-1/2" Long, Red Brass Pipe Nipple.....	65.81	
22 11 16 00-1297 EA 2" x 4" Long, Red Brass Pipe Nipple.....	73.93	
22 11 16 00-1298 EA 2" x 4-1/2" Long, Red Brass Pipe Nipple.....	82.05	
22 11 16 00-1299 EA 2" x 5" Long, Red Brass Pipe Nipple.....	89.37	
22 11 16 00-1300 EA 2" x 5-1/2" Long, Red Brass Pipe Nipple.....	98.57	
22 11 16 00-1301 EA 2" x 6" Long, Red Brass Pipe Nipple.....	106.64	
22 11 16 00-1302 Cross-Linked Polyethylene Tubing, ASTM F877 (22 11 16) Note: Aboveground, domestic water usage.		
22 11 16 00-1303 Cross-Linked Polyethylene Tubing (22 11 16 00-1302)		
22 11 16 00-1304 LF 3/8" Cross-Linked Polyethylene Tubing.....	3.30	
For Work In Restricted Working Space, Add	0.84	
22 11 16 00-1305 LF 1/2" Cross-Linked Polyethylene Tubing.....	3.59	
For Work In Restricted Working Space, Add	0.91	
22 11 16 00-1306 LF 3/4" Cross-Linked Polyethylene Tubing.....	4.29	
For Work In Restricted Working Space, Add	0.98	
22 11 16 00-1307 LF 1" Cross-Linked Polyethylene Tubing.....	5.22	
For Work In Restricted Working Space, Add	1.03	
22 11 16 00-1308 Cross-Linked Polyethylene Forged Brass PEX Fittings (22 11 16 00-1302) Note: Aboveground, domestic water usage.		
22 11 16 00-1309 Male Adapters (22 11 16 00-1308)		
22 11 16 00-1310 EA 3/8" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing.....	18.45	
For Work In Restricted Working Space, Add	4.34	
22 11 16 00-1311 EA 1/2" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing.....	19.87	
For Work In Restricted Working Space, Add	4.63	
22 11 16 00-1312 EA 1/2" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing.....	21.77	
For Work In Restricted Working Space, Add	4.91	
22 11 16 00-1313 EA 3/4" x 3/4", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing.....	22.74	
For Work In Restricted Working Space, Add	5.21	
22 11 16 00-1314 EA 3/4" x 1/2", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing.....	21.77	
For Work In Restricted Working Space, Add	4.91	
22 11 16 00-1315 EA 1" x 1", (PE x Threaded) Forged Brass Male Adapter For PEX Tubing.....	28.77	
For Work In Restricted Working Space, Add	5.78	
22 11 16 00-1316 Female Adapters (22 11 16 00-1308)		
22 11 16 00-1317 EA 1/2" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing.....	20.34	
For Work In Restricted Working Space, Add	4.63	
22 11 16 00-1318 EA 1/2" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing.....	23.05	
For Work In Restricted Working Space, Add	4.91	
22 11 16 00-1319 EA 3/4" x 3/4", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing.....	24.02	
For Work In Restricted Working Space, Add	5.21	
22 11 16 00-1320 EA 3/4" x 1/2", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing.....	23.05	
For Work In Restricted Working Space, Add	4.91	
22 11 16 00-1321 EA 1" x 1", (PE x Threaded) Forged Brass Female Adapter For PEX Tubing.....	29.35	
For Work In Restricted Working Space, Add	5.78	
22 11 16 00-1322 Tube Adapters (22 11 16 00-1308)		
22 11 16 00-1323 EA 3/8" x 1/2" Forged Brass Tube Adapter For PEX Tubing.....	16.56	
For Work In Restricted Working Space, Add	4.34	
22 11 16 00-1324 EA 1/2" Forged Brass Tube Adapter For PEX Tubing.....	17.52	
For Work In Restricted Working Space, Add	4.63	
22 11 16 00-1325 EA 3/4" Forged Brass Tube Adapter For PEX Tubing.....	21.22	
For Work In Restricted Working Space, Add	5.21	
22 11 16 00-1326 EA 1" Forged Brass Tube Adapter For PEX Tubing.....	27.58	
For Work In Restricted Working Space, Add	5.78	
22 11 16 00-1327 Plugs (22 11 16 00-1308)		
22 11 16 00-1328 EA 3/8" Forged Brass Plug For PEX Tubing.....	8.38	
For Work In Restricted Working Space, Add	2.03	
22 11 16 00-1329 EA 1/2" Forged Brass Plug For PEX Tubing.....	9.34	
For Work In Restricted Working Space, Add	2.31	
22 11 16 00-1330 EA 3/4" Forged Brass Plug For PEX Tubing.....	10.78	
For Work In Restricted Working Space, Add	2.60	
22 11 16 00-1331 EA 1" Forged Brass Plug For PEX Tubing.....	13.50	
For Work In Restricted Working Space, Add	2.89	
22 11 16 00-1332 Tees (22 11 16 00-1308)		
22 11 16 00-1333 EA 3/8" Forged Brass Tee For PEX Tubing.....	23.66	
For Work In Restricted Working Space, Add	6.08	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 11 16 00-1334	EA	1/2" Forged Brass Tee For PEX Tubing.....	26.54	
		<i>For Work In Restricted Working Space, Add</i>	6.94	
22 11 16 00-1335	EA	3/4" Forged Brass Tee For PEX Tubing.....	31.77	
		<i>For Work In Restricted Working Space, Add</i>	7.81	
22 11 16 00-1336	EA	1" Forged Brass Tee For PEX Tubing.....	41.20	
		<i>For Work In Restricted Working Space, Add</i>	8.67	
22 11 16 00-1337	EA	1/2" Forged Brass Reducing Tee For PEX Tubing.....	25.58	
		<i>For Work In Restricted Working Space, Add</i>	6.65	
22 11 16 00-1338	EA	3/4" Forged Brass Reducing Tee For PEX Tubing.....	29.84	
		<i>For Work In Restricted Working Space, Add</i>	7.23	
22 11 16 00-1339	EA	1" Forged Brass Reducing Tee For PEX Tubing.....	37.38	
		<i>For Work In Restricted Working Space, Add</i>	7.81	
22 11 16 00-1340		Couplings (22 11 16 00-1308)		
22 11 16 00-1341	EA	3/8" Forged Brass Coupling For PEX Tubing.....	15.25	
		<i>For Work In Restricted Working Space, Add</i>	4.05	
22 11 16 00-1342	EA	1/2" Forged Brass Coupling For PEX Tubing.....	17.28	
		<i>For Work In Restricted Working Space, Add</i>	4.63	
22 11 16 00-1343	EA	3/4" Forged Brass Coupling For PEX Tubing.....	19.80	
		<i>For Work In Restricted Working Space, Add</i>	5.21	
22 11 16 00-1344	EA	1" Forged Brass Coupling For PEX Tubing.....	24.43	
		<i>For Work In Restricted Working Space, Add</i>	5.78	
22 11 16 00-1345	EA	3/4" x 1/2" Forged Brass Reducing Coupling For PEX Tubing.....	18.83	
		<i>For Work In Restricted Working Space, Add</i>	4.91	
22 11 16 00-1346	EA	1" x 3/4" Forged Brass Reducing Coupling For PEX Tubing.....	23.46	
		<i>For Work In Restricted Working Space, Add</i>	5.49	
22 11 16 00-1347		Fitting Reducers (22 11 16 00-1308)		
22 11 16 00-1348	EA	3/8" x 1/2" Forged Brass Fitting Reducer For PEX Tubing.....	16.91	
		<i>For Work In Restricted Working Space, Add</i>	4.34	
22 11 16 00-1349	EA	1/2" Forged Brass Fitting Reducer For PEX Tubing.....	17.87	
		<i>For Work In Restricted Working Space, Add</i>	4.63	
22 11 16 00-1350	EA	3/4" Forged Brass Fitting Reducer For PEX Tubing.....	21.92	
		<i>For Work In Restricted Working Space, Add</i>	5.21	
22 11 16 00-1351	EA	1" Forged Brass Fitting Reducer For PEX Tubing.....	31.57	
		<i>For Work In Restricted Working Space, Add</i>	5.78	
22 11 16 00-1352		90 Degree Elbows (22 11 16 00-1308)		
22 11 16 00-1353	EA	3/8" Forged Brass 90 Degree Elbow For PEX Tubing.....	16.29	
		<i>For Work In Restricted Working Space, Add</i>	4.05	
22 11 16 00-1354	EA	1/2" Forged Brass 90 Degree Elbow For PEX Tubing.....	18.21	
		<i>For Work In Restricted Working Space, Add</i>	4.63	
22 11 16 00-1355	EA	3/4" Forged Brass 90 Degree Elbow For PEX Tubing.....	21.92	
		<i>For Work In Restricted Working Space, Add</i>	5.21	
22 11 16 00-1356	EA	3/4" x 1/2" Forged Brass 90 Degree Elbow For PEX Tubing.....	20.95	
		<i>For Work In Restricted Working Space, Add</i>	4.91	
22 11 16 00-1357	EA	1/2" Drop 90 Degree Elbow For PEX Tubing.....	25.49	
		<i>For Work In Restricted Working Space, Add</i>	4.63	
22 11 16 00-1358	EA	3/4" Forged Brass Drop 90 Degree Elbow For PEX Tubing.....	28.47	
		<i>For Work In Restricted Working Space, Add</i>	5.21	
22 11 16 00-1359	EA	3/4" x 1/2" Forged Brass Drop 90 Degree Elbow For PEX Tubing.....	27.50	
		<i>For Work In Restricted Working Space, Add</i>	4.91	
22 11 19		Domestic Water Piping Specialties (22 11)		
22 11 19 00-0001		Rubber Hose And Clamps (22 11 19)		
22 11 19 00-0002		General Purpose Hose (22 11 19 00-0001)		
		Note: For medium pressure (up to 200/250 psi) applications requiring excellent resistance to air, oil and heat.		
22 11 19 00-0003	LF	3/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	4.61	1.92
22 11 19 00-0004	LF	1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.18	1.92
22 11 19 00-0005	LF	5/8" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.92	1.92
22 11 19 00-0006	LF	3/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	5.95	1.92
22 11 19 00-0007	LF	1" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	7.41	2.88
22 11 19 00-0008	LF	1-1/4" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	10.74	2.88
22 11 19 00-0009	LF	1-1/2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	11.74	3.83
22 11 19 00-0010	LF	2" Inside Diameter Ethylene Propylene Diene Monomer (EPDM) Rubber Hose And Clamp.....	19.83	3.83
22 11 19 00-0011		Reinforced EPDM Water Hose Assembly (22 11 19 00-0001)		
		Note: Includes male/female camlock, 150 psi, synthetic fiber with steel wire helix reinforcement.		
22 11 19 00-0012	LF	1-1/2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	24.84	3.83
22 11 19 00-0013	LF	2" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	29.03	3.83
22 11 19 00-0014	LF	3" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	40.68	4.72
22 11 19 00-0015	LF	4" Inside Diameter, Ethylene Propylene Diene Monomer (EPDM) Rubber Hose, Male/Female Camlocks, Synthetic Fiber With Steel Wire Helix Reinforcement.....	56.29	6.37



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0016 Chemical Resistant Rubber Hoses (22 11 19 00-0001)				
	22 11 19 00-0017 EA	50' x 6" Brown Gum Rubber, Chemical Resistant Flexible Hose	1,092.21	206.70
	22 11 19 00-0018 EA	50' x 6" Nitrile Rubber, Low pH Resistance, Flexible Hose	1,536.94	206.70
22 11 19 00-0019 Water Pump Hose (22 11 19 00-0001)				
	22 11 19 00-0020 EA	2" Inside Diameter, 20' Rubber Discharge Hose	256.70	58.56
	22 11 19 00-0021 EA	2" Inside Diameter, 20' Rubber Intake Hose	267.50	58.56
22 11 19 00-0022 Barbed Hose x Threaded Male Pipe, Steel Coupling (22 11 19 00-0001)				
	22 11 19 00-0023 EA	3/8" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	23.13	8.05
	22 11 19 00-0024 EA	1/2" Inside Diameter Barbed Hose x 1/2" Threaded Male Pipe, Steel Coupling	24.59	8.63
	22 11 19 00-0025 EA	5/8" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	26.30	9.20
	22 11 19 00-0026 EA	3/4" Inside Diameter Barbed Hose x 3/4" Threaded Male Pipe, Steel Coupling	29.46	10.35
	22 11 19 00-0027 EA	1" Inside Diameter Barbed Hose x 1" Threaded Male Pipe, Steel Coupling	35.85	12.66
	22 11 19 00-0028 EA	1-1/4" Inside Diameter Barbed Hose x 1-1/4" Threaded Male Pipe, Steel Coupling	42.58	15.15
	22 11 19 00-0029 EA	1-1/2" Inside Diameter Barbed Hose x 1-1/2" Threaded Male Pipe, Steel Coupling	55.06	19.94
	22 11 19 00-0030 EA	2" Inside Diameter Barbed Hose x 2" Threaded Male Pipe, Steel Coupling	69.23	24.92
22 11 19 00-0031 Worm-Drive Hose Clamp (22 11 19 00-0001)				
	22 11 19 00-0032 EA	3/8" To 1" Diameter Worm Drive Hose Clamp	9.82	2.88
	22 11 19 00-0033 EA	1/2" To 1-1/6" Diameter Worm Drive Hose Clamp	10.40	2.88
	22 11 19 00-0034 EA	5/8" To 1-1/2" Diameter Worm Drive Hose Clamp	11.02	2.88
	22 11 19 00-0035 EA	3/4" To 2" Diameter Worm Drive Hose Clamp	11.73	2.88
	22 11 19 00-0036 EA	1" To 2-1/2" Diameter Worm Drive Hose Clamp	12.55	2.88
	22 11 19 00-0037 EA	1-1/4" To 2-3/4" Diameter Worm Drive Hose Clamp	13.56	3.83
	22 11 19 00-0038 EA	1-1/2" To 3" Diameter Worm Drive Hose Clamp	14.66	3.83
22 11 19 00-0039 Trap Primer And Accessories (22 11 19)				
22 11 19 00-0040 Trap Primer (22 11 19 00-0039)				
	22 11 19 00-0041 EA	1/2" Inlet/Outlet, Flow Through Automatic Trap Primer (JR Smith 2699)	216.70	14.46
	22 11 19 00-0042 EA	1/2" Inlet/Outlet, Automatic Trap Primer, Up To Two Floor Drains (PPP PR-500)	133.27	9.63
	22 11 19 00-0043 EA	1/2" Inlet/Outlet, Automatic Trap Primer, Up To Four Floor Drains (PPP PO-500)	129.21	9.63
22 11 19 00-0044 Trap Primer Distribution Unit (22 11 19 00-0039)				
	22 11 19 00-0045 EA	Molded Plastic Four Opening Trap Primer Distribution Unit (PPP DU-U)	117.00	19.28
		Note: Can be used for two, three or four drains.		
	22 11 19 00-0046 EA	Copper Four Opening Trap Primer Distribution Unit (PPP DU-4)	127.93	19.28
		Note: Can be used for two, three or four drains.		
22 11 19 00-0047 Trap Primer Manifold (22 11 19 00-0039)				
	22 11 19 00-0048 EA	Two Outlet Manifold	174.68	25.93
	22 11 19 00-0049 EA	Four Outlet Manifold	262.06	29.50
	22 11 19 00-0050 EA	Six Outlet Manifold	347.04	31.23
	22 11 19 00-0051 EA	Eight Outlet Manifold	435.95	36.63
22 11 19 00-0052 Sewage Air Release Valves (22 11 19)				
22 11 19 00-0053 Cast Iron, Sewage Air Release Valves (22 11 19 00-0052)				
		Note: Stainless steel float.		
	22 11 19 00-0054 EA	2" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)	770.27	35.19
		For Back Flush Attachment, Add	650.00	
	22 11 19 00-0055 EA	3" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)	946.66	58.81
		For Back Flush Attachment, Add	650.00	
	22 11 19 00-0056 EA	4" x 1/2" NPT, Cast Iron, Sewage Air Release Valve (Apco 400)	1,200.39	74.24
		For Back Flush Attachment, Add	650.00	
22 11 19 00-0057 Cast Iron, Sewage Air Vacuum Valves (22 11 19 00-0052)				
		Note: Stainless steel float.		
	22 11 19 00-0058 EA	2" x 1" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 401)	786.93	35.19
		For Back Flush Attachment, Add	650.00	
	22 11 19 00-0059 EA	2" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 402)	1,540.98	35.19
		For Back Flush Attachment, Add	650.00	
	22 11 19 00-0060 EA	3" x 2" NPT, Cast Iron, Sewage Air Vacuum Valve (Apco 403)	1,850.69	58.81
		For Back Flush Attachment, Add	650.00	
	22 11 19 00-0061 EA	4" NPT x 4" With Hood, Cast Iron, Sewage Air Vacuum Valve (Apco 404)	2,739.72	74.24
22 11 19 00-0062 Cast Iron, Sewage Combination Air Valves (22 11 19 00-0052)				
		Note: Stainless steel float.		
	22 11 19 00-0063 EA	2" x 1" NPT, Sewage Combination Air Valve (Apco 443)	1,678.46	35.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0064 EA 2" x 2" NPT, Sewage Combination Air Valve (Apco 445).....	2,313.77	35.19
22 11 19 00-0065 EA 3" x 3" NPT, Sewage Combination Air Valve (Apco 447).....	2,708.88	58.81
22 11 19 00-0066 EA 4" x 4" NPT, Sewage Combination Air Valve (Apco 449).....	3,312.55	74.24
22 11 19 00-0067 Brass, Anti Siphon Vacuum Breakers (22 11 19)		
Note: Watts 288A		
22 11 19 00-0068 EA 1/2" Brass, Anti Siphon Vacuum Breaker.....	82.80	24.10
22 11 19 00-0069 EA 3/4" Brass, Anti Siphon Vacuum Breaker.....	94.85	26.98
22 11 19 00-0070 EA 1" Brass, Anti Siphon Vacuum Breaker.....	187.04	30.85
22 11 19 00-0071 EA 1-1/4" Brass, Anti Siphon Vacuum Breaker.....	293.54	35.66
22 11 19 00-0072 EA 1-1/2" Brass, Anti Siphon Vacuum Breaker.....	350.34	39.51
22 11 19 00-0073 EA 2" Brass, Anti Siphon Vacuum Breaker.....	509.61	48.19
22 11 19 00-0074 EA 2-1/2" Brass, Anti Siphon Vacuum Breaker.....	1,316.83	60.24
22 11 19 00-0075 Anti Siphon Pressure Vacuum Breakers (22 11 19)		
Note: Watts 800M4QT		
22 11 19 00-0076 EA 1/2" Anti Siphon Pressure Type Vacuum Breaker.....	229.38	24.10
22 11 19 00-0077 EA 3/4" Anti Siphon Pressure Type Vacuum Breaker.....	202.21	26.98
22 11 19 00-0078 EA 1" Anti Siphon Pressure Type Vacuum Breaker.....	286.75	30.85
22 11 19 00-0079 EA 1-1/4" Anti Siphon Pressure Type Vacuum Breaker.....	512.88	35.66
22 11 19 00-0080 EA 1-1/2" Anti Siphon Pressure Type Vacuum Breaker.....	624.07	39.51
22 11 19 00-0081 EA 2" Anti Siphon Pressure Type Vacuum Breaker.....	632.22	48.19
22 11 19 00-0082 Bellows Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0083 EA Up To 11 Fixture Unit Capacity, 3/4" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5005).....	207.12	11.53
22 11 19 00-0084 EA >11 To 32 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5010).....	402.48	13.95
22 11 19 00-0085 EA >32 To 60 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5020).....	588.16	13.95
22 11 19 00-0086 EA >60 To 113 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5030).....	1,432.58	13.95
22 11 19 00-0087 EA >113 To 154 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5040).....	1,613.44	13.95
22 11 19 00-0088 EA >154 To 330 Fixture Unit Capacity, 1" Nipple, Stainless Steel, Hydrotrol Water Hammer Arrestor (Jay R. Smith® 5050).....	1,976.25	13.95
22 11 19 00-0089 Piston Type Water Hammer Arrestors (22 11 19)		
22 11 19 00-0090 Threaded Piston Type Water Hammer Arrestors (22 11 19 00-0089)		
22 11 19 00-0091 EA Up To 11 Fixture Unit Capacity, 1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-A).....	124.91	6.43
22 11 19 00-0092 EA >11 To 32 Fixture Unit Capacity, 3/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-B).....	238.96	7.41
22 11 19 00-0093 EA >32 To 60 Fixture Unit Capacity, 1" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-C).....	354.55	8.04
22 11 19 00-0094 EA >60 To 113 Fixture Unit Capacity, 1-1/4" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-D).....	870.34	10.36
22 11 19 00-0095 EA >113 To 154 Fixture Unit Capacity, 1-1/2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-E).....	1,060.10	12.85
22 11 19 00-0096 EA >154 To 330 Fixture Unit Capacity, 2" M.P.T Brass Connection, Copper Body, Piston Type Water Hammer Arrestor (MI Fab MWH-F).....	1,206.16	13.95
22 11 19 00-0097 Escutcheons (22 11 19)		
22 11 19 00-0098 Brass Escutcheons (22 11 19 00-0097)		
22 11 19 00-0099 Shallow Brass Escutcheons (22 11 19 00-0098)		
22 11 19 00-0100 EA 3/8" IPS, Antique Or Polished Brass Shallow Escutcheon.....	10.82	2.41
22 11 19 00-0101 EA 1/2" IPS, Antique Or Polished Brass Shallow Escutcheon.....	11.66	2.41
22 11 19 00-0102 Deep Bell Brass Escutcheons (22 11 19 00-0098)		
22 11 19 00-0103 EA 3/8" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	12.74	2.70
22 11 19 00-0104 EA 1/2" IPS, Antique Or Polished Deep Bell Brass Escutcheon.....	12.77	2.70
22 11 19 00-0105 Chrome Plated Brass Escutcheons With Setscrew (22 11 19 00-0098)		
22 11 19 00-0106 EA 3/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	23.97	2.41
22 11 19 00-0107 EA 1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	24.25	2.41
22 11 19 00-0108 EA 5/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	24.66	2.41
22 11 19 00-0109 EA 3/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	26.15	2.41
22 11 19 00-0110 EA 7/8" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	26.45	2.90
22 11 19 00-0111 EA 1" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	27.90	2.90
22 11 19 00-0112 EA 1-1/4" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	28.80	3.18
22 11 19 00-0113 EA 1-1/2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	30.03	3.37
22 11 19 00-0114 EA 2" IPS, Chrome Plated Brass Escutcheon With Setscrew.....	43.98	3.85



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0115 Plastic Escutcheons (22 11 19 00-0097)		
22 11 19 00-0116 Split-Ring White Plastic Escutcheons (22 11 19 00-0115)		
22 11 19 00-0117 EA 3/8" IPS, Split-Ring White Plastic Escutcheon	5.04	2.40
22 11 19 00-0118 EA 1/2" IPS, Split-Ring White Plastic Escutcheon	5.04	2.40
22 11 19 00-0119 EA 3/4" IPS, Split-Ring White Plastic Escutcheon	5.62	2.68
22 11 19 00-0120 EA 1" IPS, Split-Ring White Plastic Escutcheon	6.12	2.88
22 11 19 00-0121 EA 1-1/4" IPS, Split-Ring White Plastic Escutcheon	6.62	3.16
22 11 19 00-0122 EA 1-1/2" IPS, Split-Ring White Plastic Escutcheon	7.11	3.35
22 11 19 00-0123 EA 2" IPS, Split-Ring White Plastic Escutcheon	8.10	3.83
22 11 19 00-0124 EA 2-1/2" IPS, Split-Ring White Plastic Escutcheon	9.07	4.13
22 11 19 00-0125 EA 3" IPS, Split-Ring White Plastic Escutcheon	10.05	4.32
22 11 19 00-0126 EA 4" IPS, Split-Ring White Plastic Escutcheon	11.49	4.80
22 11 19 00-0127 Chrome Plate Plastic Escutcheons (22 11 19 00-0115)		
22 11 19 00-0128 EA 1/2" IPS, Chrome Plate Plastic Escutcheon	5.44	2.40
22 11 19 00-0129 EA 3/4" IPS, Chrome Plate Plastic Escutcheon	5.96	2.68
22 11 19 00-0130 EA 1" IPS, Chrome Plate Plastic Escutcheon	6.56	2.88
22 11 19 00-0131 EA 1-1/4" IPS, Chrome Plate Plastic Escutcheon	7.17	3.16
22 11 19 00-0132 EA 1-1/2" IPS, Chrome Plate Plastic Escutcheon	7.66	3.35
22 11 19 00-0133 EA 2" IPS, Chrome Plate Plastic Escutcheon	9.04	3.83
22 11 19 00-0134 EA 2-1/2" IPS, Chrome Plate Plastic Escutcheon	10.77	4.13
22 11 19 00-0135 EA 3" IPS, Chrome Plate Plastic Escutcheon	11.30	4.32
22 11 19 00-0136 EA 4" IPS, Chrome Plate Plastic Escutcheon	12.35	4.80
22 11 19 00-0137 Stainless Steel Escutcheons (22 11 19 00-0097)		
22 11 19 00-0138 Shallow Stainless Steel Escutcheons (22 11 19 00-0137)		
22 11 19 00-0139 EA 3/8" IPS, Shallow Stainless Steel Escutcheon	12.33	2.41
22 11 19 00-0140 EA 1/2" IPS, Shallow Stainless Steel Escutcheon	12.33	2.41
22 11 19 00-0141 EA 3/4" IPS, Shallow Stainless Steel Escutcheon	16.90	2.70
22 11 19 00-0142 Chrome Plated Steel Escutcheons (22 11 19 00-0097)		
22 11 19 00-0143 Split-Ring Chrome Plated Steel Escutcheons (22 11 19 00-0142)		
22 11 19 00-0144 EA 1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	5.65	2.40
22 11 19 00-0145 EA 3/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	6.12	2.68
22 11 19 00-0146 EA 1" IPS, Split-Ring Chrome Plated Steel Escutcheon	6.76	2.88
22 11 19 00-0147 EA 1-1/4" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.24	3.16
22 11 19 00-0148 EA 1-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	7.72	3.35
22 11 19 00-0149 EA 2" IPS, Split-Ring Chrome Plated Steel Escutcheon	8.93	3.83
22 11 19 00-0150 EA 2-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	15.11	4.13
22 11 19 00-0151 EA 3" IPS, Split-Ring Chrome Plated Steel Escutcheon	16.05	4.32
22 11 19 00-0152 EA 3-1/2" IPS, Split-Ring Chrome Plated Steel Escutcheon	20.50	4.60
22 11 19 00-0153 EA 4" IPS, Split-Ring Chrome Plated Steel Escutcheon	17.41	4.80
22 11 19 00-0154 EA 5" IPS, Split-Ring Chrome Plated Steel Escutcheon	23.34	5.27
22 11 19 00-0155 EA 6" IPS, Split-Ring Chrome Plated Steel Escutcheon	27.61	5.75
22 11 19 00-0156 Split-Ring/Springs Chrome Plated Steel Escutcheons (22 11 19 00-0142)		
22 11 19 00-0157 EA 3/8" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	10.42	2.40
22 11 19 00-0158 EA 1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	10.42	2.40
22 11 19 00-0159 EA 3/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	11.07	2.68
22 11 19 00-0160 EA 1" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	8.80	2.88
22 11 19 00-0161 EA 1-1/4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	13.27	3.16
22 11 19 00-0162 EA 1-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	13.99	3.35
22 11 19 00-0163 EA 2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	16.72	3.83
22 11 19 00-0164 EA 2-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	19.57	4.13
22 11 19 00-0165 EA 3" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	24.55	4.32
22 11 19 00-0166 EA 3-1/2" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	30.87	4.60
22 11 19 00-0167 EA 4" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	31.18	4.80
22 11 19 00-0168 EA 5" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	54.04	5.27
22 11 19 00-0169 EA 6" IPS, Split-Ring/Springs Chrome Plated Steel Escutcheon	56.17	5.75
22 11 19 00-0170 Deep Bell Chrome Plated Steel Escutcheons (22 11 19 00-0142)		
22 11 19 00-0171 EA 3/8" IPS, Deep Bell Chrome Plated Steel Escutcheon	7.11	2.70
22 11 19 00-0172 EA 1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon	6.97	2.70
22 11 19 00-0173 EA 3/4" IPS, Deep Bell Chrome Plated Steel Escutcheon	6.67	2.70
22 11 19 00-0174 EA 1" IPS, Deep Bell Chrome Plated Steel Escutcheon	7.56	2.90
22 11 19 00-0175 EA 1-1/4" IPS, Deep Bell Chrome Plated Steel Escutcheon	8.22	3.18
22 11 19 00-0176 EA 1-1/2" IPS, Deep Bell Chrome Plated Steel Escutcheon	9.11	3.37
22 11 19 00-0177 Shallow Chrome Plated Steel Escutcheons (22 11 19 00-0142)		
22 11 19 00-0178 EA 3/8" IPS, Shallow Chrome Plated Steel Escutcheon	6.12	2.41



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0179	EA	1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.12	2.41
22 11 19 00-0180	EA	3/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.26	2.41
22 11 19 00-0181	EA	1" IPS, Shallow Chrome Plated Steel Escutcheon.....	6.72	2.90
22 11 19 00-0182	EA	1-1/4" IPS, Shallow Chrome Plated Steel Escutcheon.....	7.28	3.18
22 11 19 00-0183	EA	1-1/2" IPS, Shallow Chrome Plated Steel Escutcheon.....	8.16	3.37
22 11 19 00-0184	EA	2" IPS, Shallow Chrome Plated Steel Escutcheon.....	9.22	3.85
22 11 19 00-0185		Wall Hydrants <small>(22 11 19)</small>		
		Note: Female inlet connection, 3/4" hose thread outlet.		
22 11 19 00-0186		Cast Bronze, Non-Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants <small>(22 11 19 00-0185)</small>		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0187	EA	6" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	648.28	24.10
		For Cast Bronze Box, Add	32.92	
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0188	EA	12" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	683.74	28.91
		For Cast Bronze Box, Add	32.92	
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0189	EA	18" Thick Wall, Cast Bronze, Non Freeze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant	703.48	34.80
		For Cast Bronze Box, Add	32.92	
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0190		Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrants		
		<small>(22 11 19 00-0185)</small>		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0191	EA	Cast Bronze, Stainless Steel Box, Integral Vacuum Breaker Wall Hydrant.....	655.66	40.48
		For Cast Bronze Box, Add	32.92	
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0192		Cast Bronze Non-Freezing Wall Hydrant <small>(22 11 19 00-0185)</small>		
		Note: 3/4" HPT outlet. 3/4" NPT female and 1" NPT male inlet connection. Includes wall clamp.		
22 11 19 00-0193	EA	3" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	355.25	29.88
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0194	EA	4" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	438.60	29.88
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0195	EA	6" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	438.60	29.88
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0196	EA	8" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	438.60	29.88
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0197	EA	10" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	458.00	60.24
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0198	EA	12" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	458.00	60.24
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0199	EA	18" Thick Wall, Cast Bronze, Non Freeze, Nikaloy Face, Integral Vacuum Breaker Wall Hydrant	516.02	60.24
		For 1" NPT Outlet, Add	77.59	
22 11 19 00-0200		Stainless Steel Box Type Wall Hydrants <small>(22 11 19 00-0185)</small>		
		Note: With 3/4" NPT female and 3/4" NPT male inlet connection.		
22 11 19 00-0201	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8140).....	324.85	24.10
22 11 19 00-0202	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8141).....	353.93	24.10
22 11 19 00-0203	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8150).....	357.89	24.10
22 11 19 00-0204	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8151).....	401.51	24.10
22 11 19 00-0205	EA	Recessed Stainless Steel Hose Box With Wall Flange Less Door (Acorn 8145).....	564.29	33.73
		Note: Includes hot and cold hose connections.		
22 11 19 00-0206	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange Less Door (Acorn 8146).....	581.47	33.73
		Note: Includes hot and cold hose connections.		
22 11 19 00-0207	EA	Recessed Stainless Steel Hose Box With Wall Flange And Door (Acorn 8155).....	581.47	33.73
		Note: Includes hot and cold hose connections.		
22 11 19 00-0208	EA	Recessed Stainless Steel Hose Box With Vacuum Breaker, Wall Flange And Door (Acorn 8156).....	622.45	33.73
		Note: Includes hot and cold hose connections.		
22 11 19 00-0209		Washer Boxes And Dryer Outlets <small>(22 11 19)</small>		
22 11 19 00-0210		Dryer Vent Kit <small>(22 11 19 00-0209)</small>		
		Note: Includes 4" flexible tubing plastic hood clamps and tailpipe.		
22 11 19 00-0211	EA	Dryer Vent Kit With Hood, 4" x 5' Flexible Vent And Clamps	67.86	12.53
22 11 19 00-0212		Washer Boxes And Dryer Vents <small>(22 11 19 00-0209)</small>		
		Note: Includes 1/2" supply valves and mounting brackets.		
22 11 19 00-0213	EA	2" Washing Machine Outlet Box, Plastic, Two 1/2" Supply Valves.....	233.11	19.28
22 11 19 00-0214		Ice Maker Outlet Box <small>(22 11 19)</small>		
		Note: Includes one 1/2" quarter turn ball valve and connections wall mount.		
22 11 19 00-0215	EA	Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount.....	120.63	19.28
22 11 19 00-0216	EA	Plastic Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve With Water Hammer Arrestor, Wall Mount.....	149.08	19.28
22 11 19 00-0217	EA	Steel Ice Maker Outlet Box, 1/2" Quarter Turn Ball Valve, Wall Mount	164.73	19.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0218 Tempering Controllers For Potable Hot Water <small>(22 11 19)</small>		
22 11 19 00-0219 Point-Of-Use Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0218)</small>		
<small>Note: Point-of-Use Water Tempering Valves: ASSE 1016, or 1070, with piston-control mechanism, positive shutoff of hot water when cold water supply is lost, bronze body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner.</small>		
22 11 19 00-0220 EA 1/2" Inlets, 1/2" Outlet Sink/Faucet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-2007).....	343.68	23.33
22 11 19 00-0221 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4004).....	176.30	23.33
22 11 19 00-0222 EA 1/2" Inlets, 1/2" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4008).....	199.28	23.33
22 11 19 00-0223 EA 3/4" Inlets, 3/4" Outlet Point-Of-Use Thermostatic Mixing Valve (Bradley S59-4016).....	230.44	31.43
22 11 19 00-0224 Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0218)</small>		
<small>Note: Standard Thermostatic, Water Mixing Valves: ASSE 1017, liquid-filled motor and piston control mechanism with positive shutoff of hot water when coldwater supply is lost. Water flow is shut off in event of thermostat failure. Bronze valve body and cap with replaceable corrosion-resistant components, including stainless steel piston and liner. Equipped with integral check stops and removable strainers.</small>		
22 11 19 00-0225 EA 3/4" Inlets, 3/4" Outlet, 25 GPM Thermostatic Mixing Valve (Bradley S59-2025).....	922.70	33.65
22 11 19 00-0226 EA 3/4" Inlets, 1" Outlet, 45 GPM Thermostatic Mixing Valve (Bradley S59-2045).....	1,037.00	41.44
22 11 19 00-0227 EA 1" Inlets, 1-1/4" Outlet, 80 GPM Thermostatic Mixing Valve (Bradley S59-2080).....	1,246.09	48.21
22 11 19 00-0228 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM Thermostatic Mixing Valve (Bradley S59-2130).....	1,611.08	50.67
22 11 19 00-0229 EA 2" Inlets, 2" Outlet, 220 GPM Thermostatic Mixing Valve (Bradley S59-2200).....	2,162.14	65.74
22 11 19 00-0230 High Low Temperature Thermostatic Mixing Valves (Bradley) <small>(22 11 19 00-0218)</small>		
<small>Note: High Low Temperature Thermostatic Mixing Valves: ASSE 1017, liquid-filled thermal motor and piston control mechanism with positive shutoff of hot water when cold water supply is lost, and allowing restricted cold flow in event of loss or interruption of hot water supply. Flow is shut off in the event of thermostat failure. Equipped with integral check stops, thermometer, and removable strainers.</small>		
22 11 19 00-0231 EA 3/4" Inlets, 1" Outlet, 45 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3045).....	2,340.12	51.82
22 11 19 00-0232 EA 1" Inlets, 1-1/4" Outlet, 80 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3080).....	3,043.23	60.26
22 11 19 00-0233 EA 1-1/4" Inlets, 1-1/2" Outlet, 130 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3130).....	3,546.68	63.33
22 11 19 00-0234 EA 2" Inlets, 2" Outlet, 220 GPM High-Low Thermostatic Mixing Valve (Bradley S59-3200).....	3,933.48	82.16
22 11 19 00-0235 Thermostatic Mixing Valves (Leonard) <small>(22 11 19 00-0218)</small>		
<small>Note: Thermostatic Water Mixing Valve with Integral combination checkstops with strainers, 125 PSI (8.6 BAR) maximum operating pressure, Copper encapsulated thermostatic assembly with Teflon coated brass shuttle, Locking temperature regulating handle, Top or bottom supply/outlet connections, Integral circulation port connection</small>		
22 11 19 00-0236 EA 3/4" In x 3/4" Out Thermostatic Mixing Valve (Leonard LV-981-RF).....	672.75	33.65
<small>Note: For hot water or two pipe low pressure steam.</small>		
22 11 19 00-0237 EA 1" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-982-RF).....	792.73	41.44
<small>Note: For hot water or two pipe low pressure steam.</small>		
22 11 19 00-0238 EA 1-1/4" In x 1-1/4" Out Thermostatic Mixing Valve (Leonard LV-983-RF).....	973.27	48.21
<small>Note: For hot water or two pipe low pressure steam.</small>		
22 11 19 00-0239 EA 1-1/4" In x 1-1/2" Out Thermostatic Mixing Valve (Leonard LV-984-RF).....	1,186.97	50.69
<small>Note: For hot water or two pipe low pressure steam.</small>		
22 11 19 00-0240 EA 2" In x 2" Out Thermostatic Mixing Valve (Leonard LV-985-RF).....	1,759.93	65.74
<small>Note: For hot water or two pipe low pressure steam.</small>		
22 11 19 00-0241 Water Mixing/Self Operating Temperature Regulator <small>(22 11 19 00-0218)</small>		
<small>Note: Includes high rate spring, temperature adjustment screw, temperature dial and remote bulb with 8' capillary tube.</small>		
22 11 19 00-0242 EA 3/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	2,946.17	48.19
22 11 19 00-0243 EA 1" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,114.95	60.73
22 11 19 00-0244 EA 1-1/4" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,426.07	73.25
22 11 19 00-0245 EA 1-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	3,767.22	85.78
22 11 19 00-0246 EA 2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	4,488.33	112.77
22 11 19 00-0247 EA 2-1/2" Valve Size, Water Mixing/Self Operating Temperature Regulator (Powers #11 Type WM Regulator).....	5,311.61	128.60
22 11 19 00-0248 Thermostatic Mixing Valves (Holby) <small>(22 11 19 00-0218)</small>		
22 11 19 00-0249 EA 2-1/2" Thermostatic Mixing Valve (Holby HOLBY2500).....	3,117.98	65.76
22 11 19 00-0250 Backflow Preventer Valves <small>(22 11 19)</small>		
22 11 19 00-0251 Double Check Valve Backflow Preventer Assemblies <small>(22 11 19 00-0250)</small>		
22 11 19 00-0252 Threaded Double Check Valve Assemblies <small>(22 11 19 00-0251)</small>		
22 11 19 00-0253 Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0252)</small>		
<small>Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and two epoxy coated bronze body check valves (Watts 007 QT or 719 QT series).</small>		
22 11 19 00-0254 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	300.71	25.83
<small>For Work In Restricted Working Space, Add</small>		
	19.37	
<small>For Owner Furnished Material, Deduct</small>		
	-236.13	
22 11 19 00-0255 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	358.13	36.63
<small>For Work In Restricted Working Space, Add</small>		
	27.47	
<small>For Owner Furnished Material, Deduct</small>		
	-266.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0256 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	414.26	44.72
<i>For Work In Restricted Working Space, Add</i>	33.54	
<i>For Owner Furnished Material, Deduct</i>	-302.45	
22 11 19 00-0257 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	574.46	52.05
<i>For Work In Restricted Working Space, Add</i>	39.04	
<i>For Owner Furnished Material, Deduct</i>	-444.34	
22 11 19 00-0258 EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	708.71	59.76
<i>For Work In Restricted Working Space, Add</i>	44.53	
<i>For Owner Furnished Material, Deduct</i>	-560.29	
22 11 19 00-0259 EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 007 QT or 719 QT series).....	820.92	77.11
<i>For Work In Restricted Working Space, Add</i>	57.83	
<i>For Owner Furnished Material, Deduct</i>	-628.15	
22 11 19 00-0260 Double Check Valve Assemblies With Quarter Turn Shut-Offs And Strainer		
<small>(22 11 19 00-0252)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, two epoxy coated bronze body check valves, and bronze strainer (Watts 007 QT-S or 719 QT-S series).		
22 11 19 00-0261 EA 1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	368.28	25.83
<i>For Work In Restricted Working Space, Add</i>	19.37	
<i>For Owner Furnished Material, Deduct</i>	-303.70	
22 11 19 00-0262 EA 3/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	457.09	36.63
<i>For Work In Restricted Working Space, Add</i>	27.47	
<i>For Owner Furnished Material, Deduct</i>	-365.53	
22 11 19 00-0263 EA 1" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	535.58	44.72
<i>For Work In Restricted Working Space, Add</i>	33.54	
<i>For Owner Furnished Material, Deduct</i>	-423.77	
22 11 19 00-0264 EA 1-1/4" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	747.33	52.05
<i>For Work In Restricted Working Space, Add</i>	39.04	
<i>For Owner Furnished Material, Deduct</i>	-617.21	
22 11 19 00-0265 EA 1-1/2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	912.31	59.76
<i>For Work In Restricted Working Space, Add</i>	44.53	
<i>For Owner Furnished Material, Deduct</i>	-763.89	
22 11 19 00-0266 EA 2" Threaded Double Check Valve Assembly With Quarter Turn Shut-offs And Strainer (Watts 007 QT-S or 719 QT-S).....	1,102.02	77.11
<i>For Work In Restricted Working Space, Add</i>	57.83	
<i>For Owner Furnished Material, Deduct</i>	-909.25	
22 11 19 00-0267 Flanged Double Check Valve Assemblies <small>(22 11 19 00-0251)</small>		
22 11 19 00-0268 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0267)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 NRS series).		
22 11 19 00-0269 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	3,825.49	213.02
<i>For Work In Restricted Working Space, Add</i>	85.21	
<i>For Owner Furnished Material, Deduct</i>	-3,541.47	
22 11 19 00-0270 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF007 NRS).....	4,203.99	239.64
<i>For Work In Restricted Working Space, Add</i>	94.53	
<i>For Owner Furnished Material, Deduct</i>	-3,888.90	
22 11 19 00-0271 Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0267)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF007 OSY series).		
22 11 19 00-0272 EA 2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF007 OSY).....	4,185.45	213.02
<i>For Work In Restricted Working Space, Add</i>	85.21	
<i>For Owner Furnished Material, Deduct</i>	-3,901.43	
22 11 19 00-0273 EA 3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 007 OSY).....	4,803.93	239.64
<i>For Work In Restricted Working Space, Add</i>	94.53	
<i>For Owner Furnished Material, Deduct</i>	-4,488.84	
22 11 19 00-0274 Double Check Valve Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0267)</small>		
Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 NRS series).		
22 11 19 00-0275 EA 2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	3,851.43	213.02
<i>For Work In Restricted Working Space, Add</i>	85.20	
<i>For Owner Furnished Material, Deduct</i>	-3,567.43	
22 11 19 00-0276 EA 3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	2,959.65	239.64
<i>For Work In Restricted Working Space, Add</i>	94.53	
<i>For Owner Furnished Material, Deduct</i>	-2,644.55	
22 11 19 00-0277 EA 4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	4,628.85	355.02
<i>For Work In Restricted Working Space, Add</i>	141.93	
<i>For Owner Furnished Material, Deduct</i>	-4,155.74	
22 11 19 00-0278 EA 6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series).....	7,100.63	531.03
<i>For Work In Restricted Working Space, Add</i>	287.78	
<i>For Owner Furnished Material, Deduct</i>	-6,141.36	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 11 19 00-0279	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series) .....16,043.59		796.54
				<i>For Work In Restricted Working Space, Add</i>	431.74	
				<i>For Owner Furnished Material, Deduct</i>	-14,604.45	
	22 11 19 00-0280	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts LF709 NRS series) .....20,574.31		942.14
				<i>For Work In Restricted Working Space, Add</i>	513.90	
				<i>For Owner Furnished Material, Deduct</i>	-18,861.32	
	22 11 19 00-0281			Double Check Valve Assemblies With Non-Rising Stem Shut-Offs And Strainer <small>(22 11 19 00-0267)</small>		
				Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, two epoxy coated iron body check valves, and iron body strainer (Watts 709 NRS-S series).		
	22 11 19 00-0282	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series) .....5,389.04		355.02
				<i>For Work In Restricted Working Space, Add</i>	141.92	
				<i>For Owner Furnished Material, Deduct</i>	-4,915.97	
	22 11 19 00-0283	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series) .....9,011.07		531.03
				<i>For Work In Restricted Working Space, Add</i>	287.78	
				<i>For Owner Furnished Material, Deduct</i>	-8,051.80	
	22 11 19 00-0284	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs And Strainer (Watts LF709 NRS-S-FDA series) .....23,833.52		942.14
				<i>For Work In Restricted Working Space, Add</i>	513.90	
				<i>For Owner Furnished Material, Deduct</i>	-22,120.53	
	22 11 19 00-0285			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0267)</small>		
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and two epoxy coated iron body check valves (Watts LF709 OSY series).		
	22 11 19 00-0286	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) .....4,086.93		213.02
				<i>For Work In Restricted Working Space, Add</i>	85.20	
				<i>For Owner Furnished Material, Deduct</i>	-3,802.93	
	22 11 19 00-0287	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) .....4,491.42		239.64
				<i>For Work In Restricted Working Space, Add</i>	94.53	
				<i>For Owner Furnished Material, Deduct</i>	-4,176.33	
	22 11 19 00-0288	EA		4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) .....4,904.60		355.02
				<i>For Work In Restricted Working Space, Add</i>	141.92	
				<i>For Owner Furnished Material, Deduct</i>	-4,431.53	
	22 11 19 00-0289	EA		6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) .....8,273.22		531.03
				<i>For Work In Restricted Working Space, Add</i>	287.78	
				<i>For Owner Furnished Material, Deduct</i>	-7,313.95	
	22 11 19 00-0290	EA		8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) .....17,017.18		796.54
				<i>For Work In Restricted Working Space, Add</i>	431.67	
				<i>For Owner Furnished Material, Deduct</i>	-15,578.27	
	22 11 19 00-0291	EA		10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts LF709 OSY series) .....21,830.82		942.14
				<i>For Work In Restricted Working Space, Add</i>	513.90	
				<i>For Owner Furnished Material, Deduct</i>	-20,117.83	
	22 11 19 00-0292			Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0267)</small>		
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 OSY series).		
	22 11 19 00-0293	EA		2-1/2" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) .....2,460.01		213.02
				<i>For Work In Restricted Working Space, Add</i>	85.20	
				<i>For Owner Furnished Material, Deduct</i>	-2,176.01	
	22 11 19 00-0294	EA		3" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) .....2,708.83		239.64
				<i>For Work In Restricted Working Space, Add</i>	94.53	
				<i>For Owner Furnished Material, Deduct</i>	-2,393.74	
	22 11 19 00-0295	EA		4" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) .....3,084.53		355.02
				<i>For Work In Restricted Working Space, Add</i>	141.92	
				<i>For Owner Furnished Material, Deduct</i>	-2,611.46	
	22 11 19 00-0296	EA		6" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) .....5,042.66		531.03
				<i>For Work In Restricted Working Space, Add</i>	287.78	
				<i>For Owner Furnished Material, Deduct</i>	-4,083.39	
	22 11 19 00-0297	EA		8" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) .....9,512.11		796.54
				<i>For Work In Restricted Working Space, Add</i>	431.67	
				<i>For Owner Furnished Material, Deduct</i>	-8,073.20	
	22 11 19 00-0298	EA		10" Flanged Double Check Valve Assembly With Outside Stem And Yoke Shut-offs (Watts 757 OSY series) .....10,351.88		942.14
				<i>For Work In Restricted Working Space, Add</i>	513.90	
				<i>For Owner Furnished Material, Deduct</i>	-8,638.89	
	22 11 19 00-0299			N-Pattern Double Check Valve Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0267)</small>		
				Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N OSY series).		
	22 11 19 00-0300	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) .....3,232.10		213.02
				<i>For Work In Restricted Working Space, Add</i>	85.20	
				<i>For Owner Furnished Material, Deduct</i>	-2,948.10	
	22 11 19 00-0301	EA		3" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series) .....3,480.92		239.64
				<i>For Work In Restricted Working Space, Add</i>	94.53	
				<i>For Owner Furnished Material, Deduct</i>	-3,165.83	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0302	EA		4" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757 OSY series).....	4,374.73	355.02
			<i>For Work In Restricted Working Space, Add</i>	141.92	
			<i>For Owner Furnished Material, Deduct</i>	-3,901.66	
22 11 19 00-0303	EA		6" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	7,202.50	531.03
			<i>For Work In Restricted Working Space, Add</i>	287.78	
			<i>For Owner Furnished Material, Deduct</i>	-6,243.23	
22 11 19 00-0304	EA		8" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	12,713.22	796.54
			<i>For Work In Restricted Working Space, Add</i>	431.67	
			<i>For Owner Furnished Material, Deduct</i>	-11,274.31	
22 11 19 00-0305	EA		10" N-Pattern Flanged Double Check Valve Assembly With Outside Stem And Yoke Shutoffs (Watts 757N OSY series).....	15,128.74	942.14
			<i>For Work In Restricted Working Space, Add</i>	513.90	
			<i>For Owner Furnished Material, Deduct</i>	-13,415.75	
22 11 19 00-0306			Double Check Valve Assemblies With Non-Rising Stem Shut-Off Valves (22 11 19 00-0267)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757 NRS series).		
22 11 19 00-0307	EA		2-1/2" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	2,306.44	213.02
			<i>For Work In Restricted Working Space, Add</i>	85.20	
			<i>For Owner Furnished Material, Deduct</i>	-2,022.44	
22 11 19 00-0308	EA		3" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	2,562.24	239.64
			<i>For Work In Restricted Working Space, Add</i>	94.53	
			<i>For Owner Furnished Material, Deduct</i>	-2,247.15	
22 11 19 00-0309	EA		4" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	2,944.84	355.02
			<i>For Work In Restricted Working Space, Add</i>	141.92	
			<i>For Owner Furnished Material, Deduct</i>	-2,471.77	
22 11 19 00-0310	EA		6" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	4,932.92	531.03
			<i>For Work In Restricted Working Space, Add</i>	287.78	
			<i>For Owner Furnished Material, Deduct</i>	-3,973.65	
22 11 19 00-0311	EA		8" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	9,406.36	796.54
			<i>For Work In Restricted Working Space, Add</i>	431.67	
			<i>For Owner Furnished Material, Deduct</i>	-7,967.45	
22 11 19 00-0312	EA		10" Flanged Double Check Valve Assembly With NRS Shut-offs (Watts 757 NRS series).....	10,647.15	942.14
			<i>For Work In Restricted Working Space, Add</i>	513.90	
			<i>For Owner Furnished Material, Deduct</i>	-8,934.16	
22 11 19 00-0313			N-Pattern Double Check Valve Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0267)		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and single stainless steel housing and sleeve for two check valves (Watts 757N NRS series).		
22 11 19 00-0314	EA		2-1/2" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	3,013.79	213.02
			<i>For Work In Restricted Working Space, Add</i>	85.20	
			<i>For Owner Furnished Material, Deduct</i>	-2,729.79	
22 11 19 00-0315	EA		3" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	3,262.61	239.64
			<i>For Work In Restricted Working Space, Add</i>	94.53	
			<i>For Owner Furnished Material, Deduct</i>	-2,947.52	
22 11 19 00-0316	EA		4" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	4,156.69	355.02
			<i>For Work In Restricted Working Space, Add</i>	141.92	
			<i>For Owner Furnished Material, Deduct</i>	-3,683.62	
22 11 19 00-0317	EA		6" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	6,970.27	531.03
			<i>For Work In Restricted Working Space, Add</i>	287.78	
			<i>For Owner Furnished Material, Deduct</i>	-6,011.00	
22 11 19 00-0318	EA		8" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	12,361.71	796.54
			<i>For Work In Restricted Working Space, Add</i>	431.67	
			<i>For Owner Furnished Material, Deduct</i>	-10,922.80	
22 11 19 00-0319	EA		10" N-Pattern Flanged Double Check Valve Assembly With NRS Shutoffs (Watts 757 NRS series).....	14,776.21	942.14
			<i>For Work In Restricted Working Space, Add</i>	513.90	
			<i>For Owner Furnished Material, Deduct</i>	-13,063.22	
22 11 19 00-0320			Double Check Valve Assemblies With Butterfly Shut-Off Valves (22 11 19 00-0267)		
			Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757 BFG series).		
22 11 19 00-0321	EA		2-1/2" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	2,669.63	213.02
			<i>For Work In Restricted Working Space, Add</i>	85.20	
			<i>For Owner Furnished Material, Deduct</i>	-2,385.63	
22 11 19 00-0322	EA		3" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	2,918.45	239.64
			<i>For Work In Restricted Working Space, Add</i>	94.53	
			<i>For Owner Furnished Material, Deduct</i>	-2,603.36	
22 11 19 00-0323	EA		4" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	3,294.15	355.02
			<i>For Work In Restricted Working Space, Add</i>	141.92	
			<i>For Owner Furnished Material, Deduct</i>	-2,821.08	
22 11 19 00-0324	EA		6" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	5,257.56	531.03
			<i>For Work In Restricted Working Space, Add</i>	287.78	
			<i>For Owner Furnished Material, Deduct</i>	-4,298.29	
22 11 19 00-0325	EA		8" Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series).....	9,727.01	796.54
			<i>For Work In Restricted Working Space, Add</i>	431.67	
			<i>For Owner Furnished Material, Deduct</i>	-8,288.10	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 19 00-0326			N-Pattern Double Check Valve Assemblies With Butterfly Shut-Offs <small>(22 11 19 00-0267)</small> Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, and single stainless steel housing and sleeve for two check valves (Watts 757N BFG series).		
22 11 19 00-0327	EA		2-1/2" N-Pattern Flanged Double Check Assembly With Butterfly Valves (Watts 757 BFG series)	3,441.72	213.02
			For Work In Restricted Working Space, Add	85.20	
			For Owner Furnished Material, Deduct	-3,157.72	
22 11 19 00-0328	EA		3" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	3,690.54	239.64
			For Work In Restricted Working Space, Add	94.53	
			For Owner Furnished Material, Deduct	-3,375.45	
22 11 19 00-0329	EA		4" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	4,584.35	355.02
			For Work In Restricted Working Space, Add	141.92	
			For Owner Furnished Material, Deduct	-4,111.28	
22 11 19 00-0330	EA		6" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	7,417.45	531.03
			For Work In Restricted Working Space, Add	287.78	
			For Owner Furnished Material, Deduct	-6,458.18	
22 11 19 00-0331	EA		8" N-Pattern Flanged Double Check Valve Assembly With Butterfly Valves (Watts 757 BFG series)	9,727.01	796.54
			For Work In Restricted Working Space, Add	431.67	
			For Owner Furnished Material, Deduct	-8,288.10	

22 11 19 00-0332			Grooved Double Check Valve Assemblies <small>(22 11 19 00-0251)</small>		
22 11 19 00-0333			Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0332)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757 QT series).		
22 11 19 00-0334	EA		2-1/2" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series)	2,306.44	113.61
			For Work In Restricted Working Space, Add	85.20	
			For Owner Furnished Material, Deduct	-2,022.44	
22 11 19 00-0335	EA		3" Grooved Double Check Valve Assembly With Quarter Turn Shut-offs (Watts 757 QT series)	2,562.24	126.04
			For Work In Restricted Working Space, Add	94.53	
			For Owner Furnished Material, Deduct	-2,247.15	

22 11 19 00-0336			N-Patten Double Check Valve Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0332)</small> Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and single stainless steel housing and sleeve for two check valves (Watts 757N QT series).		
22 11 19 00-0337	EA		2-1/2" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....	3,013.79	113.61
			For Work In Restricted Working Space, Add	85.20	
			For Owner Furnished Material, Deduct	-2,729.79	
22 11 19 00-0338	EA		3" N-Pattern Grooved Double Check Valve Assembly With QT Shutoffs (Watts 757 QT series).....	3,262.61	126.04
			For Work In Restricted Working Space, Add	94.53	
			For Owner Furnished Material, Deduct	-2,947.52	

22 11 19 00-0339			Reduced Pressure Zone Backflow Preventer Assemblies <small>(22 11 19 00-0250)</small>		
22 11 19 00-0340			Threaded Reduced Pressure Zone Assemblies <small>(22 11 19 00-0339)</small>		
22 11 19 00-0341			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs <small>(22 11 19 00-0340)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 009 QT series).		
22 11 19 00-0342	EA		1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	330.54	22.36
			For Work In Restricted Working Space, Add	16.77	
			For Owner Furnished Material, Deduct	-274.64	
22 11 19 00-0343	EA		3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	349.66	24.67
			For Work In Restricted Working Space, Add	18.50	
			For Owner Furnished Material, Deduct	-287.98	
22 11 19 00-0344	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009 QT series)	405.71	25.83
			For Work In Restricted Working Space, Add	19.37	
			For Owner Furnished Material, Deduct	-341.13	
22 11 19 00-0345	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M3 QT series)	545.89	36.63
			For Work In Restricted Working Space, Add	27.47	
			For Owner Furnished Material, Deduct	-454.33	
22 11 19 00-0346	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	648.36	44.72
			For Work In Restricted Working Space, Add	33.54	
			For Owner Furnished Material, Deduct	-536.55	
22 11 19 00-0347	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	971.80	52.05
			For Work In Restricted Working Space, Add	39.04	
			For Owner Furnished Material, Deduct	-841.68	
22 11 19 00-0348	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,029.69	59.76
			For Work In Restricted Working Space, Add	44.53	
			For Owner Furnished Material, Deduct	-881.27	
22 11 19 00-0349	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 009M2 QT series)	1,238.54	77.11
			For Work In Restricted Working Space, Add	57.83	
			For Owner Furnished Material, Deduct	-1,045.77	

22 11 19 00-0350			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0340)</small> Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 009 QT-S series).		
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0351	EA		1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	363.79	22.36
			<i>For Work In Restricted Working Space, Add</i>	16.77	
			<i>For Owner Furnished Material, Deduct</i>	-307.89	
22 11 19 00-0352	EA		3/8" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	384.70	24.67
			<i>For Work In Restricted Working Space, Add</i>	18.50	
			<i>For Owner Furnished Material, Deduct</i>	-323.02	
22 11 19 00-0353	EA		1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	453.73	36.63
			<i>For Work In Restricted Working Space, Add</i>	19.37	
			<i>For Owner Furnished Material, Deduct</i>	-389.15	
22 11 19 00-0354	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	621.35	36.63
			<i>For Work In Restricted Working Space, Add</i>	27.47	
			<i>For Owner Furnished Material, Deduct</i>	-529.79	
22 11 19 00-0355	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	742.71	44.72
			<i>For Work In Restricted Working Space, Add</i>	33.54	
			<i>For Owner Furnished Material, Deduct</i>	-630.90	
22 11 19 00-0356	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,100.49	52.05
			<i>For Work In Restricted Working Space, Add</i>	39.04	
			<i>For Owner Furnished Material, Deduct</i>	-970.37	
22 11 19 00-0357	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,211.29	59.76
			<i>For Work In Restricted Working Space, Add</i>	44.53	
			<i>For Owner Furnished Material, Deduct</i>	-1,062.87	
22 11 19 00-0358	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 009 QT-S series).....	1,461.34	77.11
			<i>For Work In Restricted Working Space, Add</i>	57.83	
			<i>For Owner Furnished Material, Deduct</i>	-1,268.57	
22 11 19 00-0359			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0340) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 919 QT series).		
22 11 19 00-0360	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	545.89	36.63
			<i>For Work In Restricted Working Space, Add</i>	27.47	
			<i>For Owner Furnished Material, Deduct</i>	-454.33	
22 11 19 00-0361	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	648.36	44.72
			<i>For Work In Restricted Working Space, Add</i>	33.54	
			<i>For Owner Furnished Material, Deduct</i>	-536.55	
22 11 19 00-0362	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	971.80	52.05
			<i>For Work In Restricted Working Space, Add</i>	39.04	
			<i>For Owner Furnished Material, Deduct</i>	-841.68	
22 11 19 00-0363	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,029.69	59.76
			<i>For Work In Restricted Working Space, Add</i>	44.53	
			<i>For Owner Furnished Material, Deduct</i>	-881.27	
22 11 19 00-0364	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 919 QT series).....	1,238.54	77.11
			<i>For Work In Restricted Working Space, Add</i>	57.83	
			<i>For Owner Furnished Material, Deduct</i>	-1,045.77	
22 11 19 00-0365			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0340) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, and captured spring assemblies (Watts 909 QT series).		
22 11 19 00-0366	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,106.38	36.63
			<i>For Work In Restricted Working Space, Add</i>	27.47	
			<i>For Owner Furnished Material, Deduct</i>	-1,014.82	
22 11 19 00-0367	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909QT).....	1,310.29	44.72
			<i>For Work In Restricted Working Space, Add</i>	33.54	
			<i>For Owner Furnished Material, Deduct</i>	-1,198.48	
22 11 19 00-0368	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	2,007.71	52.05
			<i>For Work In Restricted Working Space, Add</i>	39.04	
			<i>For Owner Furnished Material, Deduct</i>	-1,877.59	
22 11 19 00-0369	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts LF909M1QT).....	2,172.08	59.76
			<i>For Work In Restricted Working Space, Add</i>	44.53	
			<i>For Owner Furnished Material, Deduct</i>	-2,023.66	
22 11 19 00-0370	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs (Watts 909M1QT).....	2,523.95	77.11
			<i>For Work In Restricted Working Space, Add</i>	57.83	
			<i>For Owner Furnished Material, Deduct</i>	-2,331.18	
22 11 19 00-0371			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer (22 11 19 00-0340) Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts LF909 QT-S series).		
22 11 19 00-0372	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	1,483.61	36.63
			<i>For Work In Restricted Working Space, Add</i>	27.47	
			<i>For Owner Furnished Material, Deduct</i>	-1,392.05	
22 11 19 00-0373	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909QT-S).....	1,764.22	44.72
			<i>For Work In Restricted Working Space, Add</i>	33.54	
			<i>For Owner Furnished Material, Deduct</i>	-1,652.41	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0374	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	2,681.52	52.05
			<i>For Work In Restricted Working Space, Add</i>	39.04	
			<i>For Owner Furnished Material, Deduct</i>	-2,551.40	
22 11 19 00-0375	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	2,930.46	59.76
			<i>For Work In Restricted Working Space, Add</i>	44.53	
			<i>For Owner Furnished Material, Deduct</i>	-2,782.04	
22 11 19 00-0376	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts LF909M1QT-S).....	3,484.27	77.11
			<i>For Work In Restricted Working Space, Add</i>	57.83	
			<i>For Owner Furnished Material, Deduct</i>	-3,291.50	
22 11 19 00-0377			Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs And Strainer <small>(22 11 19 00-0340)</small>		
			Note: Includes ball type test cocks, two quarter-turn (QT) full port resilient seated bronze body ball valves, bronze strainer, and captured spring assemblies (Watts 919 QT-S series).		
22 11 19 00-0378	EA		3/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	621.35	36.63
			<i>For Work In Restricted Working Space, Add</i>	27.47	
			<i>For Owner Furnished Material, Deduct</i>	-529.79	
22 11 19 00-0379	EA		1" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	742.71	44.72
			<i>For Work In Restricted Working Space, Add</i>	33.54	
			<i>For Owner Furnished Material, Deduct</i>	-630.90	
22 11 19 00-0380	EA		1-1/4" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,100.49	52.05
			<i>For Work In Restricted Working Space, Add</i>	39.04	
			<i>For Owner Furnished Material, Deduct</i>	-970.37	
22 11 19 00-0381	EA		1-1/2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,211.29	59.76
			<i>For Work In Restricted Working Space, Add</i>	44.53	
			<i>For Owner Furnished Material, Deduct</i>	-1,062.87	
22 11 19 00-0382	EA		2" Threaded Reduced Pressure Zone Assembly With Quarter Turn Shut-offs And Strainer (Watts 919QT-S series).....	1,461.34	77.11
			<i>For Work In Restricted Working Space, Add</i>	57.83	
			<i>For Owner Furnished Material, Deduct</i>	-1,268.57	
22 11 19 00-0383			Flanged Reduced Pressure Zone Assemblies <small>(22 11 19 00-0339)</small>		
22 11 19 00-0384			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs <small>(22 11 19 00-0383)</small>		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 NRS series).		
22 11 19 00-0385	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	3,523.72	213.02
			<i>For Work In Restricted Working Space, Add</i>	85.21	
			<i>For Owner Furnished Material, Deduct</i>	-3,239.70	
22 11 19 00-0386	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF009 NRS series).....	3,969.38	239.64
			<i>For Work In Restricted Working Space, Add</i>	94.53	
			<i>For Owner Furnished Material, Deduct</i>	-3,654.29	
22 11 19 00-0387			Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Strainer <small>(22 11 19 00-0383)</small>		
			Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF009 NRS-S-FDA series).		
22 11 19 00-0388	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	4,188.14	213.02
			<i>For Work In Restricted Working Space, Add</i>	85.21	
			<i>For Owner Furnished Material, Deduct</i>	-3,904.12	
22 11 19 00-0389	EA		3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF009 NRS-S-FDA series).....	4,741.25	239.64
			<i>For Work In Restricted Working Space, Add</i>	94.53	
			<i>For Owner Furnished Material, Deduct</i>	-4,426.16	
22 11 19 00-0390			Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs <small>(22 11 19 00-0383)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF009 OSY series).		
22 11 19 00-0391	EA		2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	3,778.03	213.02
			<i>For Work In Restricted Working Space, Add</i>	85.21	
			<i>For Owner Furnished Material, Deduct</i>	-3,494.01	
22 11 19 00-0392	EA		3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF009 OSY series).....	4,392.03	239.64
			<i>For Work In Restricted Working Space, Add</i>	94.53	
			<i>For Owner Furnished Material, Deduct</i>	-4,076.94	
22 11 19 00-0393			Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs And Strainer <small>(22 11 19 00-0383)</small>		
			Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies. (Watts LF009 OSY-S-FDA Series)		

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0394	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	4,188.14	213.02
		<i>For Work In Restricted Working Space, Add</i>	85.21	
		<i>For Owner Furnished Material, Deduct</i>	-3,904.12	
22 11 19 00-0395	EA	3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs And Strainer (Watts LF009 OSY-S-FDA series).....	4,741.25	239.64
		<i>For Work In Restricted Working Space, Add</i>	94.53	
		<i>For Owner Furnished Material, Deduct</i>	-4,426.16	
22 11 19 00-0396		Reduced Pressure Zone Assemblies With Quarter Turn Shut-Offs (22 11 19 00-0383) Note: Includes ball type test cocks, two quarter turn (QT) resilient seated iron body ball valves, and captured spring assemblies (Watts LF009 QT-FDA series).		
22 11 19 00-0397	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	4,642.13	213.02
		<i>For Work In Restricted Working Space, Add</i>	85.21	
		<i>For Owner Furnished Material, Deduct</i>	-4,358.11	
22 11 19 00-0398	EA	3" Flanged Reduced Pressure Zone Assembly With QT Shut-offs (Watts LF009 QT-FDA series).....	5,368.95	239.64
		<i>For Work In Restricted Working Space, Add</i>	94.53	
		<i>For Owner Furnished Material, Deduct</i>	-5,053.86	
22 11 19 00-0399		Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Offs (22 11 19 00-0383) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 NRS series).		
22 11 19 00-0400	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	6,004.97	213.02
		<i>For Work In Restricted Working Space, Add</i>	85.20	
		<i>For Owner Furnished Material, Deduct</i>	-5,720.97	
22 11 19 00-0401	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	6,820.47	239.64
		<i>For Work In Restricted Working Space, Add</i>	94.53	
		<i>For Owner Furnished Material, Deduct</i>	-6,505.37	
22 11 19 00-0402	EA	4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	8,605.50	355.02
		<i>For Work In Restricted Working Space, Add</i>	141.93	
		<i>For Owner Furnished Material, Deduct</i>	-8,132.39	
22 11 19 00-0403	EA	6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909 NRS series).....	13,159.15	531.03
		<i>For Work In Restricted Working Space, Add</i>	402.92	
		<i>For Owner Furnished Material, Deduct</i>	-11,816.09	
22 11 19 00-0404	EA	8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	21,775.39	796.54
		<i>For Work In Restricted Working Space, Add</i>	604.38	
		<i>For Owner Furnished Material, Deduct</i>	-19,760.79	
22 11 19 00-0405	EA	10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs (Watts LF909M1 NRS series).....	27,885.72	942.14
		<i>For Work In Restricted Working Space, Add</i>	513.90	
		<i>For Owner Furnished Material, Deduct</i>	-26,172.73	
22 11 19 00-0406		Reduced Pressure Zone Assemblies With Non-Rising Stem Shut-Off And Epoxy Coated Strainer (22 11 19 00-0383) Note: Includes ball type test cocks, two non-rising stem (NRS) resilient seated iron body gate valves, iron body strainer, and captured spring assemblies (Watts LF909 NRS-S-FDA series).		
22 11 19 00-0407	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	6,466.12	213.02
		<i>For Work In Restricted Working Space, Add</i>	85.20	
		<i>For Owner Furnished Material, Deduct</i>	-6,182.12	
22 11 19 00-0408	EA	3" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	7,305.79	239.64
		<i>For Work In Restricted Working Space, Add</i>	94.53	
		<i>For Owner Furnished Material, Deduct</i>	-6,990.70	
22 11 19 00-0409	EA	4" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	9,349.57	355.02
		<i>For Work In Restricted Working Space, Add</i>	141.92	
		<i>For Owner Furnished Material, Deduct</i>	-8,876.50	
22 11 19 00-0410	EA	6" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	14,175.96	531.03
		<i>For Work In Restricted Working Space, Add</i>	287.78	
		<i>For Owner Furnished Material, Deduct</i>	-13,216.69	
22 11 19 00-0411	EA	8" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	22,928.89	796.54
		<i>For Work In Restricted Working Space, Add</i>	431.67	
		<i>For Owner Furnished Material, Deduct</i>	-21,489.98	
22 11 19 00-0412	EA	10" Flanged Reduced Pressure Zone Assembly With NRS Shut-offs And Strainer (Watts LF909 NRS-S-FDA series).....	31,060.48	942.14
		<i>For Work In Restricted Working Space, Add</i>	513.90	
		<i>For Owner Furnished Material, Deduct</i>	-29,347.49	
22 11 19 00-0413		Reduced Pressure Zone Assemblies With Outside Stem And Yoke Shut-Offs (22 11 19 00-0383) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, and captured spring assemblies (Watts LF909 OSY series).		
22 11 19 00-0414	EA	2-1/2" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series).....	6,384.63	213.02
		<i>For Work In Restricted Working Space, Add</i>	85.20	
		<i>For Owner Furnished Material, Deduct</i>	-6,100.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0415 EA 3" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	7,255.66 94.53 -6,940.56	239.64
22 11 19 00-0416 EA 4" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	9,146.34 141.93 -8,673.23	355.02
22 11 19 00-0417 EA 6" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909 OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	13,563.78 287.78 -12,604.51	531.03
22 11 19 00-0418 EA 8" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	22,517.70 431.67 -21,078.79	796.54
22 11 19 00-0419 EA 10" Flanged Reduced Pressure Zone Assembly With Outside Stem And Yoke Shut-offs (Watts LF909M1 OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	29,629.59 513.90 -27,916.60	942.14
22 11 19 00-0420 Double Check Detector Assemblies (22 11 19 00-0250)		
22 11 19 00-0421 Flanged Double Check Detector Assemblies With Meter (22 11 19 00-0420)		
22 11 19 00-0422 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0421) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, two epoxy coated iron body check valves, and meter (Watts 709 DCDA OSY series).		
22 11 19 00-0423 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,812.93 94.53 -4,497.94	239.64
22 11 19 00-0424 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,075.27 141.92 -4,602.20	355.02
22 11 19 00-0425 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	6,935.39 287.78 -5,976.12	531.03
22 11 19 00-0426 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,241.10 431.67 -10,802.19	796.54
22 11 19 00-0427 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 007 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	16,475.93 513.90 -14,762.94	942.14
22 11 19 00-0428 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs And Meter (22 11 19 00-0421) Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA OSY series).		
22 11 19 00-0429 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,616.18 85.21 -3,332.16	213.02
22 11 19 00-0430 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,864.75 94.53 -3,549.66	239.64
22 11 19 00-0431 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	4,245.60 141.92 -3,772.53	355.02
22 11 19 00-0432 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	5,857.86 287.78 -4,898.59	531.03
22 11 19 00-0433 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	10,293.56 431.67 -8,854.65	796.54
22 11 19 00-0434 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs And Meter (Watts 757 DCDA OSY series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	12,142.58 513.90 -10,429.59	942.14
22 11 19 00-0435 Double Check Detector Assembly With Butterfly Valves And Meter (22 11 19 00-0421) Note: Includes ball type test cocks, two resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves, and meter (Watts 757 DCDA BFG series).		
22 11 19 00-0436 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series) <i>For Work In Restricted Working Space, Add</i> <i>For Owner Furnished Material, Deduct</i>	3,825.84 85.21 -3,541.82	213.02

22	Plumbing
22 10	Plumbing Piping
22 11	Facility Water Distribution



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0437 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	4,074.42	239.64
<i>For Work In Restricted Working Space, Add</i>	94.53	
<i>For Owner Furnished Material, Deduct</i>	-3,759.33	
22 11 19 00-0438 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	4,455.23	355.02
<i>For Work In Restricted Working Space, Add</i>	141.92	
<i>For Owner Furnished Material, Deduct</i>	-3,982.16	
22 11 19 00-0439 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	6,072.77	531.03
<i>For Work In Restricted Working Space, Add</i>	287.78	
<i>For Owner Furnished Material, Deduct</i>	-5,113.50	
22 11 19 00-0440 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves And Meter (Watts 757 DCDA BFG series).....	10,035.72	796.54
<i>For Work In Restricted Working Space, Add</i>	431.67	
<i>For Owner Furnished Material, Deduct</i>	-8,596.81	
22 11 19 00-0441 Flanged Double Check Detector Assemblies Without Meter <small>(22 11 19 00-0420)</small>		
22 11 19 00-0442 Double Check Detector Assembly With Outside Stem And Yoke Shut-Offs Less Meter <small>(22 11 19 00-0441)</small>		
Note: Includes ball type test cocks, two outside stem and yoke resilient seated iron body gate valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA OSY LM series).		
22 11 19 00-0443 EA 2-1/2" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	3,549.98	213.02
<i>For Work In Restricted Working Space, Add</i>	85.21	
22 11 19 00-0444 EA 3" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	3,798.58	239.64
<i>For Work In Restricted Working Space, Add</i>	94.53	
22 11 19 00-0445 EA 4" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	4,179.43	355.02
<i>For Work In Restricted Working Space, Add</i>	141.92	
22 11 19 00-0446 EA 6" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	5,791.69	531.03
<i>For Work In Restricted Working Space, Add</i>	287.78	
22 11 19 00-0447 EA 8" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	10,227.43	796.54
<i>For Work In Restricted Working Space, Add</i>	431.67	
22 11 19 00-0448 EA 10" Flanged Double Check Detector Assembly With Outside Stem And Yoke Shut-offs Less Meter (Watts 757 DCDA OSY LM series)	12,076.36	942.14
<i>For Work In Restricted Working Space, Add</i>	513.90	
22 11 19 00-0449 Double Check Detector Assembly With Butterfly Valves Less Meter <small>(22 11 19 00-0441)</small>		
Note: Includes ball type test cocks, two butterfly resilient seated iron body butterfly valves, single stainless steel housing and sleeve for two check valves (Watts 757 DCDA BFG LM series).		
22 11 19 00-0450 EA 2-1/2" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series).....	3,759.63	213.02
<i>For Work In Restricted Working Space, Add</i>	85.21	
22 11 19 00-0451 EA 3" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	4,008.20	239.64
<i>For Work In Restricted Working Space, Add</i>	94.53	
22 11 19 00-0452 EA 4" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	4,389.05	355.02
<i>For Work In Restricted Working Space, Add</i>	141.92	
22 11 19 00-0453 EA 6" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	6,006.55	531.03
<i>For Work In Restricted Working Space, Add</i>	287.78	
22 11 19 00-0454 EA 8" Flanged Double Check Detector Assembly With Butterfly Valves Less Meter (Watts 757 DCDA BFG LM series)	10,442.34	796.54
<i>For Work In Restricted Working Space, Add</i>	431.67	
22 11 19 00-0455 Backflow Preventer Accessories <small>(22 11 19 00-0250)</small>		
22 11 19 00-0456 Air Gap <small>(22 11 19 00-0455)</small>		
22 11 19 00-0457 EA Up To 1" Diameter Air Gap For Backflow Preventer	86.94	12.05
22 11 19 00-0458 EA 1-1/4" To 2" Diameter Air Gap For Backflow Preventer	106.82	14.46
22 11 19 00-0459 EA 2-1/2" To 3" Diameter Air Gap For Backflow Preventer	197.13	19.28
22 11 19 00-0460 EA 4" To 6" Diameter Air Gap For Backflow Preventer.....	388.00	33.73
22 11 19 00-0461 EA 8" To 10" Diameter Air Gap For Backflow Preventer.....	416.92	48.19
22 11 19 00-0462 Brass Test Cocks <small>(22 11 19 00-0455)</small>		
22 11 19 00-0463 EA 1/8" Or 1/4" Brass Test Cock	35.34	4.82
22 11 19 00-0464 Backflow Valve Enclosures <small>(22 11 19 00-0250)</small>		
22 11 19 00-0465 Flip-Top, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0464)</small>		
Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0466 EA 19" Length x 11" Width x 22" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	781.90	86.74
<i>For Heated Enclosure, Add</i>	95.60	
22 11 19 00-0467 EA 27" Length x 13" Width x 23" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	960.22	86.74
<i>For Heated Enclosure, Add</i>	122.35	
22 11 19 00-0468 EA 27" Length x 13" Width x 35" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,215.50	79.88
<i>For Heated Enclosure, Add</i>	162.36	
22 11 19 00-0469 EA 33" Length x 21" Width x 25" Height, Flip-Top, Insulated Fiberglass Valve Enclosure.....	1,264.53	106.51
<i>For Heated Enclosure, Add</i>	163.05	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0470	EA		39" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	1,325.01 172.13	106.51
22 11 19 00-0471	EA		47" Length x 13" Width x 28" Height, Flip-Top, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	1,560.71 207.48	106.51
22 11 19 00-0472	EA		39" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	1,566.91 208.41	106.51
22 11 19 00-0473	EA		47" Length x 13" Width x 36" Height, Flip-Top, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	1,968.53 268.65	106.51
22 11 19 00-0474	EA		70" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	4,529.06 639.42	159.76
22 11 19 00-0475	EA		83" Length x 26" Width x 45" Height, Flip-Top, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	6,555.79 943.43	159.76
22 11 19 00-0476	EA		70" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	6,230.15 894.58	159.76
22 11 19 00-0477	EA		83" Length x 26" Width x 55" Height, Flip-Top, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	7,501.10 1,078.57	186.38
22 11 19 00-0478			One-Piece Drop Over, Insulated Fiberglass Valve Enclosures <small>(22 11 19 00-0464)</small> Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0479	EA		20" Length x 6-1/2" Width x 22" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	426.22 77.53	23.13
22 11 19 00-0480	EA		27" Length x 14" Width x 26" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	590.59 110.41	23.13
22 11 19 00-0481	EA		38-1/2" Length x 12" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	739.51 140.80	21.30
22 11 19 00-0482	EA		47" Length x 13" Width x 28" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	1,114.78 215.85	21.30
22 11 19 00-0483	EA		70" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	2,882.59 563.20	39.94
22 11 19 00-0484	EA		83" Length x 26" Width x 45" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	3,932.39 773.16	39.94
22 11 19 00-0485	EA		45" Length x 35" Width x 35" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	2,622.07 511.10	39.94
22 11 19 00-0486	EA		53" Length x 44" Width x 44" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	2,966.32 579.95	39.94
22 11 19 00-0487	EA		61" Length x 52" Width x 50" Height, One-Piece Drop Over, Insulated Fiberglass Valve Enclosure <i>For Heated Enclosure, Add</i>	4,636.39 913.96	39.94
22 11 19 00-0488			Lift-Off Lightweight Backflow Valve Enclosures With Recessed Locksheild Brackets <small>(22 11 19 00-0464)</small> Note: 1-1/2", 0.095" wall tubular steel framework with 1" x 1" x 1/8" angle iron, 1/2" #13 gauge diamond pattern rolled expanded metal, all welded construction. Excludes concrete pad.		
22 11 19 00-0489	EA		22" Length x 10" Width x 24" Height, Backflow Preventer Caged Enclosures Note: BP-1	502.81	86.74
22 11 19 00-0490	EA		30" Length x 10" Width x 24" Height, Backflow Preventer Caged Enclosures Note: BP-2	563.74	106.51
22 11 19 00-0491	EA		40" Length x 10" Width x 24" Height, Backflow Preventer Caged Enclosures Note: BP-3	608.52	106.51
22 11 19 00-0492	EA		46" Length x 10" Width x 30" Height, Backflow Preventer Caged Enclosures Note: BP-4	736.14	106.51
22 11 19 00-0493			Sectional, Insulated Aluminum Valve Enclosures <small>(22 11 19 00-0464)</small> Note: Dimensions listed are inside dimensions. Includes anchor kit. Excludes concrete pad.		
22 11 19 00-0494	EA		70" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,890.17 840.15 474.25 848.66	173.49
22 11 19 00-0495	EA		83" Length x 26" Width x 55" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,490.28 930.17 474.25 848.66	173.49
22 11 19 00-0496	EA		53" Length x 33" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	4,601.94 650.35 474.25 848.66	159.76
22 11 19 00-0497	EA		53" Length x 44" Width x 44" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,045.43 716.87 474.25 848.66	159.76
22 11 19 00-0498	EA		90" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,873.85 827.82 474.25 848.66	213.02
22 11 19 00-0499	EA		102" Length x 32" Width x 50-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,584.06 934.36 474.25 848.66	213.02
22 11 19 00-0500	EA		90" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,584.06 934.36 474.25 848.66	213.02

22 Plumbing
22 10 Plumbing Piping
22 11 Facility Water Distribution



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0501	EA		102" Length x 32" Width x 57-1/2" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,272.56 1,037.63 474.25 848.66	213.02
22 11 19 00-0502	EA		62" Length x 39" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	5,463.52 772.93 474.25 848.66	186.38
22 11 19 00-0503	EA		62" Length x 53" Width x 46" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	6,396.43 906.21 474.25 848.66	213.02
22 11 19 00-0504	EA		105" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,471.04 1,067.40 474.25 848.66	213.02
22 11 19 00-0505	EA		125" Length x 36" Width x 53" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,200.35 1,173.47 474.25 848.66	226.33
22 11 19 00-0506	EA		105" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,411.09 1,200.22 474.25 848.66	245.78
22 11 19 00-0507	EA		125" Length x 36" Width x 64" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,322.16 1,333.27 474.25 848.66	260.23
22 11 19 00-0508	EA		105" Length x 36" Width x 80" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	9,642.94 1,386.53 474.25 848.66	239.64
22 11 19 00-0509	EA		72" Length x 45" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,005.84 997.62 474.25 848.66	213.02
22 11 19 00-0510	EA		72" Length x 45" Width x 60" Height, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	7,466.39 1,066.71 474.25 848.66	213.02
22 11 19 00-0511	EA		72" Length x 65" Width x 52" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,446.91 1,210.45 474.25 848.66	226.33
22 11 19 00-0512	EA		72" Length x 65" Width x 60" Height, Sectional, Insulated Aluminum Valve Enclosure <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,233.75 1,475.15 474.25 848.66	239.64
22 11 19 00-0513	EA		118" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	8,932.74 1,280.00 474.25 848.66	106.51
22 11 19 00-0514	EA		142" Length x 40" Width x 58" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,730.44 1,546.33 474.25 848.66	106.51
22 11 19 00-0515	EA		118" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	10,375.34 1,493.06 474.25 848.66	159.76
22 11 19 00-0516	EA		142" Length x 40" Width x 74" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	12,037.07 1,735.67 474.25 848.66	159.76
22 11 19 00-0517	EA		142" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	11,107.74 1,599.59 474.25 848.66	159.76
22 11 19 00-0518	EA		172" Length x 42" Width x 65" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	12,980.36 1,873.83 474.25 848.66	186.38
22 11 19 00-0519	EA		142" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	13,024.73 1,873.83 474.25 848.66	159.76
22 11 19 00-0520	EA		172" Length x 42" Width x 85" Height, Sectional, Insulated Aluminum Valve Enclosure..... <i>For Heated Enclosure, Add</i> <i>For One 24" Fluorescent Light Fixture, Add</i> <i>For Two 24" Fluorescent Light Fixture, Add</i>	15,449.39 2,230.87 474.25 848.66	159.76
22 11 19 00-0521			Faucets (Hose Bibbs) <small>(22 11 19)</small>		
22 11 19 00-0522			Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends <small>(22 11 19 00-0521)</small>		
22 11 19 00-0523	EA		1/2", 125 LB Bronze Garden Hose Valves (Hose Bibbs), Screwed Ends.....	49.77	9.63



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 19 00-0524	EA		3/4" Faucet, Bronze Garden Hose Valve With Screwed Ends, 125#	57.85	10.60
22 11 19 00-0525	EA		3/4" Hose Valve With Screwed Ends And Vacuum Breaker, 125#	19.35	7.23
22 11 19 00-0526			Chrome Plated Brass Hose Valves, Screwed Ends (22 11 19 00-0521)		
22 11 19 00-0527	EA		3/4" Hose Valve With Screwed Ends; Chicago Faucets #387-CP	195.57	29.50
22 11 19 00-0528			Antisiphon Freezeless Wall Faucet (22 11 19 00-0521)		
22 11 19 00-0529	EA		4" Long, 1/2" Antisiphon Freezeless Wall Faucet	132.06	24.10
22 11 19 00-0530	EA		6" Long, 1/2" Antisiphon Freezeless Wall Faucet	142.44	26.70
22 11 19 00-0531	EA		8" Long, 1/2" Antisiphon Freezeless Wall Faucet	150.41	28.24
22 11 19 00-0532	EA		10" Long, 1/2" Antisiphon Freezeless Wall Faucet	158.36	30.26
22 11 19 00-0533	EA		12" Long, 1/2" Antisiphon Freezeless Wall Faucet	166.43	32.09
22 11 19 00-0534			Keyed, Recessed Valve Boxes (22 11 19)		
22 11 19 00-0535	EA		8" x 8" x 4" Painted Steel, Keyed, Recessed Valve Box	226.94	28.75
22 11 19 00-0536	EA		8" x 8" x 6" Painted Steel, Keyed, Recessed Valve Box	251.15	28.75
22 11 19 00-0537	EA		8" x 8" x 8" Painted Steel, Keyed, Recessed Valve Box	287.45	28.75
22 11 19 00-0538	EA		12" x 12" x 4" Painted Steel, Keyed, Recessed Valve Box	282.43	38.34
22 11 19 00-0539	EA		12" x 12" x 6" Painted Steel, Keyed, Recessed Valve Box	318.74	38.34
22 11 19 00-0540	EA		12" x 12" x 8" Painted Steel, Keyed, Recessed Valve Box	329.63	38.34
22 11 19 00-0541	EA		8" x 8" x 4" Stainless Steel, Keyed, Recessed Valve Box	265.67	28.75
22 11 19 00-0542	EA		8" x 8" x 6" Stainless Steel, Keyed, Recessed Valve Box	318.92	28.75
22 11 19 00-0543	EA		8" x 8" x 8" Stainless Steel, Keyed, Recessed Valve Box	366.12	28.75
22 11 19 00-0544	EA		12" x 12" x 4" Stainless Steel, Keyed, Recessed Valve Box	350.21	38.34
22 11 19 00-0545	EA		12" x 12" x 6" Stainless Steel, Keyed, Recessed Valve Box	397.41	38.34
22 11 19 00-0546	EA		12" x 12" x 8" Stainless Steel, Keyed, Recessed Valve Box	415.56	38.34
22 11 23			Domestic Water Pumps (22 11)		
22 11 23 13			Domestic Water Packaged Booster Pumps And Tanks (22 11 23)		
Note: Includes motor starter and controls.					
22 11 23 13-0001			Simplex Domestic Water Packaged Booster Pumps And Tank (22 11 23 13)		
22 11 23 13-0002	EA		1 HP Simplex Domestic Water Packaged Booster Pump And Tank	6,792.37	284.02
22 11 23 13-0003	EA		1.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	7,129.32	381.65
22 11 23 13-0004	EA		2 HP Simplex Domestic Water Packaged Booster Pump And Tank	7,512.68	479.28
22 11 23 13-0005	EA		3 HP Simplex Domestic Water Packaged Booster Pump And Tank	7,872.84	576.91
22 11 23 13-0006	EA		5 HP Simplex Domestic Water Packaged Booster Pump And Tank	8,743.73	674.55
22 11 23 13-0007	EA		7.5 HP Simplex Domestic Water Packaged Booster Pump And Tank	9,730.68	772.18
22 11 23 13-0008	EA		10 HP Simplex Domestic Water Packaged Booster Pump And Tank	10,439.06	869.81
22 11 23 13-0009			Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0010	EA		100 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	18,590.31	1,149.27
22 11 23 13-0011	EA		200 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	22,262.57	1,221.09
22 11 23 13-0012	EA		300 GPM Duplex Domestic Water Packaged Booster Pumps And Hydrocumulator	25,949.64	1,292.92
22 11 23 13-0013			Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator (22 11 23 13)		
22 11 23 13-0014	EA		200 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	24,241.65	1,221.09
22 11 23 13-0015	EA		300 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	30,002.69	1,292.92
22 11 23 13-0016	EA		500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	37,156.86	1,436.58
22 11 23 13-0017	EA		750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	46,884.13	1,580.24
22 11 23 13-0018	EA		1,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	56,611.40	1,723.90
22 11 23 13-0019	EA		1,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	65,896.66	1,939.39
22 11 23 13-0020	EA		2,500 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	75,181.92	2,154.87
22 11 23 13-0021	EA		3,750 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	84,467.18	2,370.36
22 11 23 13-0022	EA		5,000 GPM Triplex Domestic Water Packaged Booster Pumps And Hydrocumulator	93,932.01	2,657.68
22 11 23 13-0023			Variable Speed Duplex Domestic Water Pressure Booster Skid (22 11 23 13)		
Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.					
22 11 23 13-0024	EA		40 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-1)	24,667.82	1,181.53
22 11 23 13-0025	EA		40 GPM At 80 To 120 PSI, 80 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-2)	25,782.51	1,181.53
22 11 23 13-0026	EA		80 GPM At 80 PSI, 120 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-3)	27,375.26	1,181.53
22 11 23 13-0027	EA		80 GPM At 130 To 150 PSI, 120 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-4)	29,671.20	1,181.53
22 11 23 13-0028	EA		160 GPM At 40 To 50 PSI, 200 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-5)	28,047.63	1,255.38



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 11 23 13-0029	EA	160 GPM At 60 To 80 PSI, 200 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-6).....	30,051.89	1,255.38
22 11 23 13-0030	EA	160 GPM At 90 To 110 PSI, 200 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-7).....	32,773.86	1,255.38
22 11 23 13-0031	EA	160 To 200 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-8).....	34,986.28	1,255.38
22 11 23 13-0032	EA	240 To 280 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-9).....	30,634.69	1,329.23
22 11 23 13-0033	EA	280 To 320 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-10).....	32,613.53	1,329.23
22 11 23 13-0034	EA	240 To 320 GPM At 90 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-11).....	37,038.39	1,329.23
22 11 23 13-0035	EA	240 To 320 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-12).....	44,464.79	1,329.23
22 11 23 13-0036	EA	360 To 400 GPM At 40 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-13).....	32,335.16	1,329.23
22 11 23 13-0037	EA	360 To 400 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-14).....	36,371.51	1,329.23
22 11 23 13-0038	EA	360 To 400 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-15).....	45,256.32	1,329.23
22 11 23 13-0039	EA	360 To 400 GPM At 120 To 140 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-16).....	44,999.74	1,329.23
22 11 23 13-0040	EA	440 To 480 GPM At 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-17).....	53,640.15	1,476.92
22 11 23 13-0041	EA	440 To 480 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-18).....	36,998.53	1,476.92
22 11 23 13-0042	EA	440 To 480 GPM At 60 To 90 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-19).....	45,089.38	1,476.92
22 11 23 13-0043	EA	440 To 480 GPM At 100 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-20).....	44,834.01	1,476.92
22 11 23 13-0044	EA	440 To 600 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-21).....	54,037.13	1,476.92
22 11 23 13-0045	EA	440 To 600 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Duplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV2-22).....	65,294.13	1,476.92
22 11 23 13-0046	EA	60 GPM At 40 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-1).....	31,096.94	1,181.53
22 11 23 13-0047		Variable Speed Triplex Domestic Water Pressure Booster Skid <small>(22 11 23 13)</small> Note: AB1953 compliant, UL listed and labeled. Includes stainless steel headers with check, isolation, thermal relief valves, and start up support. The standard control package is integrated in a NEMA 1 enclosure and is outfitted with an individual VFD's which are controlled through a HOA and internally programmed PID logic for system control.		
22 11 23 13-0048	EA	60 GPM At 80 To 130 PSI, 120 GPM At 50 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-2).....	31,096.94	1,181.53
22 11 23 13-0049	EA	120 GPM At 100 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-3).....	34,749.62	1,181.53
22 11 23 13-0050	EA	60 GPM At 140 To 150 PSI, 120 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-4).....	37,901.24	1,181.53
22 11 23 13-0051	EA	180 GPM At 40 To 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-5).....	34,934.24	1,255.38
22 11 23 13-0052	EA	180 GPM At 100 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-6).....	38,064.08	1,255.38
22 11 23 13-0053	EA	240 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-7).....	35,665.26	1,255.38
22 11 23 13-0054	EA	240 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-8).....	38,355.76	1,255.38
22 11 23 13-0055	EA	240 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-9).....	42,055.65	1,255.38
22 11 23 13-0056	EA	240 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-10).....	45,122.55	1,255.38
22 11 23 13-0057	EA	300 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-11).....	36,026.58	1,329.23
22 11 23 13-0058	EA	300 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-12).....	38,717.07	1,329.23
22 11 23 13-0059	EA	300 GPM At 80 To 100 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-13).....	42,415.75	1,329.23
22 11 23 13-0060	EA	300 GPM At 110 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-14).....	45,482.65	1,329.23
22 11 23 13-0061	EA	360 GPM At 40 To 60 PSI, 420 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-15).....	39,052.33	1,329.23
22 11 23 13-0062	EA	360 GPM At 70 To 80 PSI, 420 GPM At 60 To 70 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-16).....	41,636.32	1,329.23
22 11 23 13-0063	EA	360 GPM At 90 To 130 PSI, 420 GPM At 80 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-17).....	48,020.65	1,329.23
22 11 23 13-0064	EA	360 GPM At 140 To 150 PSI, 420 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-18).....	58,438.91	1,329.23
22 11 23 13-0065	EA	480 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-19).....	39,949.24	1,476.92
22 11 23 13-0066	EA	480 GPM At 50 To 70 PSI, 520 To 600 GPM At 40 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-20).....	42,534.44	1,476.92
22 11 23 13-0067	EA	480 GPM At 80 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-21).....	48,918.77	1,476.92



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 11 23 13-0068	EA	480 GPM At 120 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-22)	59,335.82	1,476.92
22 11 23 13-0069	EA	540 GPM At 40 PSI, 600 GPM At 40 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-23)	42,115.67	1,476.92
22 11 23 13-0070	EA	540 GPM At 50 To 90 PSI, 600 GPM At 50 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-24)	47,917.85	1,476.92
22 11 23 13-0071	EA	540 GPM At 100 To 110 PSI, 600 GPM At 90 To 110 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-25)	60,521.92	1,476.92
22 11 23 13-0072	EA	540 GPM At 120 To 130 PSI, 600 GPM At 120 To 130 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-26)	61,743.11	1,476.92
22 11 23 13-0073	EA	540 GPM At 140 To 150 PSI, 600 GPM At 140 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-27)	76,374.43	1,476.92
22 11 23 13-0074	EA	660 GPM At 40 To 50 PSI, 720 GPM At 40 To 50 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-28)	47,761.91	1,772.30
22 11 23 13-0075	EA	660 GPM At 60 To 90 PSI, 720,780,840,900 GPM At 60 To 80 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-29)	57,324.49	1,772.30
22 11 23 13-0076	EA	660, 720, 780 GPM At 100 PSI, 840 To 900 GPM At 90 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-30)	60,950.55	1,772.30
22 11 23 13-0077	EA	660, 720, 780, 840, 900 GPM At 110 To 120 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-31)	73,388.80	1,772.30
22 11 23 13-0078	EA	660, 720, 780, 840, 900 GPM At 130 To 150 PSI, NEMA 1, Variable Speed Triplex Domestic Water Pressure Booster Skid (FlowTherm Systems FMV3-32)	90,794.13	1,772.30

22 11 23 23 Domestic-Water In-Line Pumps (22 11 23)

22 11 23 23-0001 Bronze In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0002	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL30B)	706.64	159.76
22 11 23 23-0003	EA	1/6 HP, 3/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL36B)	722.78	159.76
22 11 23 23-0004	EA	1/6 HP, 1" To 1-1/4" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL45B)	753.90	162.87
22 11 23 23-0005	EA	1/6 HP, 1-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL50B)	824.83	169.52
22 11 23 23-0006	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PL75B)	1,401.44	175.82
22 11 23 23-0007	EA	1/6 HP, 2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2AB)	1,487.90	175.82
22 11 23 23-0008	EA	1/4 HP, 2-1/2" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2AB)	2,182.18	193.58
22 11 23 23-0009	EA	1/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G LD3 AB)	2,282.06	212.67
22 11 23 23-0010	EA	1/3 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G HD3 AB)	2,748.79	233.98
22 11 23 23-0011	EA	1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB35S)	2,820.49	257.51
22 11 23 23-0012	EA	3/4 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB37S)	3,085.21	282.82
22 11 23 23-0013	EA	1 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB38S)	4,364.75	311.24
22 11 23 23-0014	EA	1-1/2 HP, 3" Flanges, Bronze In-Line Centrifugal Domestic Water Booster Pump (B&G PDB40S)	5,008.75	326.32

22 11 23 23-0015 Cast Iron In-Line Centrifugal Domestic Water Booster Pumps (22 11 23 23)

Note: ODP motor.

22 11 23 23-0016	EA	1/12 HP, 3/4" To 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL30)	732.02	159.76
22 11 23 23-0017	EA	1/6 HP, 3/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL36)	1,159.78	159.76
22 11 23 23-0018	EA	1/6 HP, 1" To 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	1,166.20	162.87
22 11 23 23-0019	EA	1/6 HP, 1-1/4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL45)	1,186.81	166.41
22 11 23 23-0020	EA	1/6 HP, 1-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL50)	1,193.01	169.52
22 11 23 23-0021	EA	1/6 HP, 2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PL75)	1,217.35	175.82
22 11 23 23-0022	EA	1/4 HP, 2-1/2" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 2-1/2)	1,475.23	193.58
22 11 23 23-0023	EA	1/3 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G HD30)	1,894.01	233.98
22 11 23 23-0024	EA	1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD35S)	2,001.90	257.51
22 11 23 23-0025	EA	3/4 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD37S)	2,325.78	282.82
22 11 23 23-0026	EA	1 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD38S)	3,096.77	311.24
22 11 23 23-0027	EA	1-1/2 HP, 3" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G PD40S)	3,598.37	326.32
22 11 23 23-0028	EA	2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,260.08	342.75
22 11 23 23-0029	EA	3 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,509.60	376.76
22 11 23 23-0030	EA	5 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x7, BF)	3,855.81	399.58
22 11 23 23-0031	EA	7-1/2 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	4,836.81	443.98
22 11 23 23-0032	EA	10 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	5,167.49	532.86
22 11 23 23-0033	EA	15 HP, 4" Flanges, Cast Iron In-Line Centrifugal Domestic Water Booster Pump (B&G 80, 4x4x9-1/2, BF)	6,556.99	621.84

22 12 Facility Potable-Water Storage Tanks (22 10)

22 12 23 Facility Indoor Potable-Water Storage Tanks (22 12)

22 12 23 13 Facility Steel, Indoor Potable-Water Storage Pressure Tanks (22 12 23)

22 12 23 13-0001 Insulated Glass Lined Storage Tank (A.O. Smith TJ, TJV And TJH) (22 12 23 13)

22 12 23 13-0002	EA	80 Gallon ASME Rated Tank, 150PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJ-80A)	1,914.40	355.02
22 12 23 13-0003	EA	119 Gallon 150 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-120M)	2,372.65	443.78
22 12 23 13-0004	EA	140 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-140A)	4,298.53	488.16
22 12 23 13-0005	EA	200 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-200A)	4,751.92	532.53
22 12 23 13-0006	EA	250 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-250A)	9,322.04	576.91
22 12 23 13-0007	EA	350 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-350A)	8,062.77	621.29

22 Plumbing**22 10 Plumbing Piping****22 12 Facility Potable-Water Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 12 23 13-0008 EA 400 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-400A)	13,742.82	665.67
22 12 23 13-0009 EA 500 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-500A)	12,688.02	710.04
22 12 23 13-0010 EA 750 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-750A)	13,779.50	754.42
22 12 23 13-0011 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Jacketed, Insulated, Glass Lined Water Heater Storage Tank (TJV-1000A)	16,393.72	798.80
22 12 23 13-0012 Uninsulated Glass Lined Storage Tank (A.O. Smith T) (22 12 23 13)		
22 12 23 13-0013 EA 80 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-80S)	1,650.76	355.02
22 12 23 13-0014 EA 120 Gallon 150 PSA, Uninsulated, Glass Lined Water Storage Tank (T-120S)	3,115.22	443.78
22 12 23 13-0015 EA 140 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-140A)	3,879.23	488.16
22 12 23 13-0016 EA 200 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200S)	4,777.87	532.53
22 12 23 13-0017 EA 200 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-200A)	4,077.33	532.53
22 12 23 13-0018 EA 250 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-250A)	6,245.68	576.91
22 12 23 13-0019 EA 325 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-325A)	6,758.76	621.29
22 12 23 13-0020 EA 350 Gallon 150 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350S)	6,440.52	621.29
22 12 23 13-0021 EA 350 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-350A)	5,890.01	621.29
22 12 23 13-0022 EA 400 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-400A)	8,014.42	665.67
22 12 23 13-0023 EA 500 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-500A)	8,691.20	710.04
22 12 23 13-0024 EA 750 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-750A)	10,073.41	754.42
22 12 23 13-0025 EA 1,000 Gallon ASME Rated Tank, 125 PSI, Uninsulated, Glass Lined Water Storage Tank (T-1000A)	18,750.94	798.80
22 12 23 26 Facility Plastic, Indoor Potable-Water Storage Non-Pressure Tanks (22 12 23)		
22 12 23 26-0001 Horizontal Non-Pressurized Polyethylene Tanks (22 12 23 26)		
Note: Excludes excavation and backfill.		
22 12 23 26-0002 EA 100 Gallon Horizontal Non-Pressurized Polyethylene Tank	497.96	199.70
For Saddle Assembly, Add	548.09	
22 12 23 26-0003 EA 150 Gallon Horizontal Non-Pressurized Polyethylene Tank	582.98	232.99
For Saddle Assembly, Add	548.09	
22 12 23 26-0004 EA 200 Gallon Horizontal Non-Pressurized Polyethylene Tank	688.33	266.27
For Saddle Assembly, Add	617.20	
22 12 23 26-0005 EA 300 Gallon Horizontal Non-Pressurized Polyethylene Tank	830.27	299.55
For Saddle Assembly, Add	886.04	
22 12 23 26-0006 EA 335 Gallon Horizontal Non-Pressurized Polyethylene Tank	987.11	332.84
For Two Tie Down Bands, Add	321.11	
22 12 23 26-0007 EA 535 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,268.86	442.61
For Two Tie Down Bands, Add	340.08	
22 12 23 26-0008 EA 1,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	1,851.32	516.38
For Three Tie Down Bands, Add	571.10	
22 12 23 26-0009 EA 1,335 Gallon Horizontal Non-Pressurized Polyethylene Tank	2,622.85	590.15
For Three Tie Down Bands, Add	575.16	
22 12 23 26-0010 EA 1,635 Gallon Horizontal Non-Pressurized Polyethylene Tank	3,251.00	663.92
For Four Tie Down Bands, Add	777.72	
22 12 23 26-0011 EA 2,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	3,795.78	737.69
For Four Tie Down Bands, Add	1,054.14	
22 12 23 26-0012 EA 2,635 Gallon Horizontal Non-Pressurized Polyethylene Tank	5,350.11	811.46
For Four Tie Down Bands, Add	1,357.65	
22 12 23 26-0013 EA 3,135 Gallon Horizontal Non-Pressurized Polyethylene Tank	6,180.16	885.22
For Four Tie Down Bands, Add	1,460.63	
22 12 23 26-0014 EA 4,035 Gallon Horizontal Non-Pressurized Polyethylene Tank	8,848.73	1,180.30
For Four Tie Down Bands, Add	1,639.49	
22 12 23 26-0015 EA 5,025 Gallon Horizontal Non-Pressurized Polyethylene Tank	11,339.06	1,180.30
For Five Tie Down Bands, Add	2,543.93	
22 12 23 26-0016 Vertical Non-Pressurized Polyethylene Tanks (22 12 23 26)		
22 12 23 26-0017 EA 100 Gallon Vertical Non-Pressurized Polyethylene Tank	559.61	266.27
22 12 23 26-0018 EA 160 Gallon Vertical Non-Pressurized Polyethylene Tank	661.75	282.91
22 12 23 26-0019 EA 210 Gallon Vertical Non-Pressurized Polyethylene Tank	723.23	299.55
22 12 23 26-0020 EA 300 Gallon Vertical Non-Pressurized Polyethylene Tank	866.52	332.84
22 12 23 26-0021 EA 405 Gallon Vertical Non-Pressurized Polyethylene Tank	994.56	399.40
22 12 23 26-0022 EA 500 Gallon Vertical Non-Pressurized Polyethylene Tank	1,172.75	465.97
22 12 23 26-0023 EA 800 Gallon Vertical Non-Pressurized Polyethylene Tank	1,605.26	590.15
22 12 23 26-0024 EA 1,000 Gallon Vertical Non-Pressurized Polyethylene Tank	2,070.27	737.69
22 12 23 26-0025 EA 2,000 Gallon Vertical Non-Pressurized Polyethylene Tank	2,749.35	885.22
22 12 23 26-0026 EA 3,000 Gallon Vertical Non-Pressurized Polyethylene Tank	3,555.81	1,032.77
22 12 23 26-0027 EA 4,000 Gallon Vertical Non-Pressurized Polyethylene Tank	5,125.12	1,180.30
22 12 23 26-0028 EA 5,000 Gallon Vertical Non-Pressurized Polyethylene Tank	6,854.32	1,327.84
22 12 23 26-0029 EA 6,250 Gallon Vertical Non-Pressurized Polyethylene Tank	7,761.05	1,475.38
22 12 23 26-0030 EA 7,000 Gallon Vertical Non-Pressurized Polyethylene Tank	8,551.25	1,622.91
22 12 23 26-0031 EA 8,000 Gallon Vertical Non-Pressurized Polyethylene Tank	9,821.11	1,770.45
22 12 23 26-0032 EA 9,150 Gallon Vertical Non-Pressurized Polyethylene Tank	11,067.94	1,917.99
22 12 23 26-0033 EA 10,500 Gallon Vertical Non-Pressurized Polyethylene Tank	13,602.00	2,065.53
22 12 23 26-0034 EA 12,500 Gallon Vertical Non-Pressurized Polyethylene Tank	16,326.00	2,360.60

22 13 Facility Sanitary Sewerage (22 10)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 13 13 Facility Sanitary Sewers (22 13)

22 13 13 00-0001

Fixture Rough-In (22 13 13)

Note: Excludes fixture. Not for use when individual component details are available, on remodeling work where partial pipe and fittings are installed or on residential projects. For use on commercial restrooms with multiple toilets, urinals and lavatories. Includes waste and vent pipe and fittings and domestic water supply pipe and fittings. Waste piping is included from fixture outlet tee to floor, vent piping is included from outlet tee within the wall to the ceiling and domestic water supply from ceiling to fixture and stub out with caps. Based on vertical floor to floor of 12'. Use detailed tasks (i.e. individual pipe and fittings, insulation, hangers, etc.) instead of rough-in assembly where possible.

22 13 13 00-0002

Single Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)

Note: Single fixtures have one fixture to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0003	EA	Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	840.64
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.			
22 13 13 00-0004	EA	Wall Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,107.53
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.			
22 13 13 00-0005	EA	Tank Type Floor Mounted Water Closet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	766.46
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.			
22 13 13 00-0006	EA	Wall Mounted Urinal, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	495.24
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.			
22 13 13 00-0007	EA	Wall Mounted Lavatory, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	583.58
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.			
22 13 13 00-0008	EA	Countertop Kitchen Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	746.01
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.			
22 13 13 00-0009	EA	Bathtub, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	792.45
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.			
22 13 13 00-0010	EA	Free Standing Water Cooler, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	479.14
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.			
22 13 13 00-0011	EA	Floor Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	766.46
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.			
22 13 13 00-0012	EA	Wall Mounted Service Sink, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	789.67
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.			
22 13 13 00-0013	EA	Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	745.28
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.			
22 13 13 00-0014	EA	Bidet, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	840.64
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.			
22 13 13 00-0015	EA	Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,316.52
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.			
22 13 13 00-0016	EA	Bathtub/Shower, Single Fixture Rough-In, Cast Iron Waste And Vent Pipe	814.67
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.			

22 13 13 00-0017

Double Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)

Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0018	EA	Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,090.65
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.			
22 13 13 00-0019	EA	Wall Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,484.38
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.			
22 13 13 00-0020	EA	Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	942.07
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.			
22 13 13 00-0021	EA	Wall Mounted Urinal, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	590.66
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.			
22 13 13 00-0022	EA	Wall Mounted Lavatory, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	795.77
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.			
22 13 13 00-0023	EA	Countertop Kitchen Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	842.58
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.			
22 13 13 00-0024	EA	Free Standing Water Cooler, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	559.06
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.			
22 13 13 00-0025	EA	Floor Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	950.93
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.			
22 13 13 00-0026	EA	Wall Mounted Service Sink, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	831.24
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.			
22 13 13 00-0027	EA	Shower, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	809.07
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.			
22 13 13 00-0028	EA	Bidet, Double Fixture Rough-In, Cast Iron Waste And Vent Pipe	1,090.65
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucets.			

22 13 13 00-0029

Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe (22 13 13 00-0001)

Note: Gang fixtures include multiple fixtures to one pipe riser. Includes cast iron waste and vent pipe and fittings and copper domestic water supply pipe and fittings.

22 13 13 00-0030	EA	Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe	544.91
Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0031 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....742.19 Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.	742.19	
22 13 13 00-0032 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....471.48 Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture.	471.48	
22 13 13 00-0033 EA Wall Mounted Urinal, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe .....295.77 Note: Includes cast iron waste pipe and vent and copper domestic supply. Excludes fixture, carrier and flush valve.	295.77	
22 13 13 00-0034 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....397.90 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	397.90	
22 13 13 00-0035 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....421.27 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	421.27	
22 13 13 00-0036 EA Free Standing Water Cooler, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe.....301.72 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture.	301.72	
22 13 13 00-0037 EA Rough-in Service Sink, Floor Mounted, Gang Mounted Fixture Including Cast Iron Waste Pipe And Vent And Copper Domestic Supply, Not Including Fixture Or Faucet.....475.03 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	475.03	
22 13 13 00-0038 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe .....415.61 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	415.61	
22 13 13 00-0039 EA Shower, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe .....404.95 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture, shower heads and faucets.	404.95	
22 13 13 00-0040 EA Bidet, Gang Fixture Rough-In, Cast Iron Waste And Vent Pipe .....538.69 Note: Includes cast iron waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	538.69	
22 13 13 00-0041 Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe (22 13 13 00-0001) Note: Single fixtures have one fixture to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0042 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Water Closet.....407.13 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	407.13	
22 13 13 00-0043 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Water Closet.....391.41 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	391.41	
22 13 13 00-0044 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Tank Type, Floor Mounted, Water Closet.....396.80 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	396.80	
22 13 13 00-0045 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Urinal .....228.54 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	228.54	
22 13 13 00-0046 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Wall Mounted, Lavatory .....266.87 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	266.87	
22 13 13 00-0047 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Countertop, Kitchen Sink .....377.64 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	377.64	
22 13 13 00-0048 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Bathtub .....370.94 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	370.94	
22 13 13 00-0049 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Free Standing, Water Cooler .....229.60 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	229.60	
22 13 13 00-0050 EA Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe, Floor Mounted, Service Sink.....396.80 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	396.80	
22 13 13 00-0051 EA Wall Mounted Service Sink, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....429.47 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.	429.47	
22 13 13 00-0052 EA Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....390.55 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	390.55	
22 13 13 00-0053 EA Bidet, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....407.02 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.	407.02	
22 13 13 00-0054 EA Floor Mounted Circular Wash Fountain, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....622.91 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.	622.91	
22 13 13 00-0055 EA Bathtub/Shower, Single Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....390.36 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.	390.36	
22 13 13 00-0056 Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe (22 13 13 00-0001) Note: Double fixtures have two "back-to-back" waste connections to one riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0057 EA Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....474.15 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.	474.15	
22 13 13 00-0058 EA Wall Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....507.56 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.	507.56	
22 13 13 00-0059 EA Tank Type Floor Mounted Water Closet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe .....414.33 Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.	414.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 13 00-0060 EA Wall Mounted Urinal, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	241.69	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0061 EA Wall Mounted Lavatory, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	377.85	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures, carrier and faucets.		
22 13 13 00-0062 EA Countertop Kitchen Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	390.94	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures and faucets.		
22 13 13 00-0063 EA Free Standing Water Cooler, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	240.61	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixtures.		
22 13 13 00-0064 EA Floor Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	422.21	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0065 EA Wall Mounted Service Sink, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	435.20	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0066 EA Shower, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	415.40	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0067 EA Bidet, Double Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	474.15	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0068 Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe (22 13 13 00-0001)		
Note: Gang fixtures include multiple fixtures to one pipe riser. Includes PVC waste and vent pipe and fittings and copper domestic water supply pipe and fittings.		
22 13 13 00-0069 EA Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	236.72	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and flush valve.		
22 13 13 00-0070 EA Wall Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	253.35	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0071 EA Tank Type Floor Mounted Water Closet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	207.42	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0072 EA Wall Mounted Urinal, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	120.89	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and flush valve.		
22 13 13 00-0073 EA Wall Mounted Lavatory, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	188.90	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0074 EA Countertop Kitchen Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	195.25	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0075 EA Free Standing Water Cooler, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	120.30	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture.		
22 13 13 00-0076 EA Floor Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	211.03	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 13 00-0077 EA Wall Mounted Service Sink, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe.....	217.63	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, carrier and faucet.		
22 13 13 00-0078 EA Shower, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	208.08	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture, shower head and faucet.		
22 13 13 00-0079 EA Bidet, Gang Fixture Rough-In, Polyvinyl Chloride (PVC) Waste And Vent Pipe	230.83	
Note: Includes polyvinyl chloride (PVC) waste and vent pipe and copper domestic supply. Excludes fixture and faucet.		
22 13 16 Sanitary Waste And Vent Piping (22 13)		
22 13 16 00-0001 Cast Iron Soil Pipe Assemblies (22 13 16)		
22 13 16 00-0002 Underground Bell And Spigot Cast Iron Soil Pipe Assemblies (22 13 16 00-0001)		
Note: Includes fittings and gaskets. Fittings are assumed every 10'. Excludes excavation, backfill and compaction. Not for use where detail is available.		
22 13 16 00-0003 LF 2" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	27.50	5.59
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	4.10	
22 13 16 00-0004 LF 3" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	39.26	8.43
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	5.57	
22 13 16 00-0005 LF 4" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	50.93	10.74
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	7.16	
22 13 16 00-0006 LF 5" Underground Bell And Spigot Cast Iron Soil Pipe Assembly	59.95	13.36
Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available.		
For Work In Restricted Working Space, Add	7.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0007 LF 6" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	70.33 8.35	14.56
22 13 16 00-0008 LF 8" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	111.25 11.72	20.69
22 13 16 00-0009 LF 10" Underground Bell And Spigot Cast Iron Soil Pipe Assembly Note: Includes all fittings and gaskets. Excludes earthwork excavation, backfill and compaction. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	162.65 13.26	20.69
22 13 16 00-0010 Aboveground No Hub Cast Iron Soil Pipe Assemblies (22 13 16 00-0001) Note: Includes fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.		
22 13 16 00-0011 LF 1-1/2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	23.68 4.67	5.32
22 13 16 00-0012 LF 2" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	25.16 5.02	5.68
22 13 16 00-0013 LF 3" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	32.15 6.16	8.25
22 13 16 00-0014 LF 4" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	38.19 7.37	10.74
22 13 16 00-0015 LF 5" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	49.58 8.89	13.11
22 13 16 00-0016 LF 6" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	55.76 9.69	14.31
22 13 16 00-0017 LF 8" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	85.64 13.35	20.52
22 13 16 00-0018 LF 10" Aboveground No Hub Cast Iron Soil Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 20'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	118.14 15.52	23.31
22 13 16 00-0019 Bell And Spigot Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service weight, ASTM A74 and CISPI 301 (Fitting Requirements).		
22 13 16 00-0020 Bell And Spigot Cast Iron Pipe (22 13 16 00-0019) Note: Excludes excavation, hangers, gaskets, and fittings.		
22 13 16 00-0021 LF 2" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.52 4.65 0.42 2.54	5.59
22 13 16 00-0022 LF 3" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.55 6.67 0.63 3.80	8.43
22 13 16 00-0023 LF 4" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.78 8.67 0.81 4.84	10.74
22 13 16 00-0024 LF 5" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.11 12.23 1.00 6.00	13.36
22 13 16 00-0025 LF 6" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	57.27 14.90 1.09 6.54	14.56
22 13 16 00-0026 LF 8" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.20 23.17 1.55 9.31	20.69
22 13 16 00-0027 LF 10" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	126.76 38.57 1.75 10.48	23.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0028 LF 12" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	179.97 56.03 2.33 13.97	31.08
22 13 16 00-0029 LF 15" Bell And Spigot Cast Iron Pipe..... <i>For Extra Heavy Pipe, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	250.86 81.89 2.79 16.76	37.28
22 13 16 00-0030 Bell And Spigot Cast Iron Fittings (22 13 16 00-0019)		
22 13 16 00-0031 Bell And Spigot Cast Iron Long Sweeps (22 13 16 00-0030)		
22 13 16 00-0032 EA 2" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.13 17.49 1.91 11.45	25.48
22 13 16 00-0033 EA 3" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.33 35.48 2.40 14.39	32.05
22 13 16 00-0034 EA 4" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.95 47.29 3.19 19.16	42.60
22 13 16 00-0035 EA 6" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	312.20 79.61 4.24 25.42	56.52
22 13 16 00-0036 EA 8" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	616.46 177.57 5.46 32.74	72.81
22 13 16 00-0037 EA 10" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	842.91 248.01 6.72 40.29	89.58
22 13 16 00-0038 EA 12" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,292.23 386.67 9.37 56.24	125.01
22 13 16 00-0039 EA 15" Bell And Spigot Cast Iron Long Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,397.73 747.86 13.05 78.30	174.09
22 13 16 00-0040 Bell And Spigot Cast Iron Short Sweeps (22 13 16 00-0030)		
22 13 16 00-0041 EA 2" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.94 12.87 1.91 11.45	25.48
22 13 16 00-0042 EA 3" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	127.20 27.73 2.40 14.39	32.05
22 13 16 00-0043 EA 4" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	174.06 38.57 3.19 19.16	42.60
22 13 16 00-0044 EA 5" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	262.58 66.70 3.60 21.60	48.05
22 13 16 00-0045 EA 6" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	316.94 81.27 4.24 25.42	56.52
22 13 16 00-0046 EA 8" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	521.07 144.18 5.46 32.74	72.81
22 13 16 00-0047 EA 10" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	761.52 219.52 6.72 40.29	89.58
22 13 16 00-0048 EA 12" Bell And Spigot Cast Iron Short Sweep..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,261.87 376.05 9.37 56.24	125.01
22 13 16 00-0049 Bell And Spigot Cast Iron 1/4 Bends (22 13 16 00-0030)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0050 EA 2" Bell And Spigot Cast Iron 1/4 Bend.....	67.45	25.38
For Extra Heavy Fittings, Add	10.28	
For Above Ground Cast Iron Pipe Installation, Add	1.90	
For Work In Restricted Working Space, Add	11.43	
22 13 16 00-0051 EA 3" Bell And Spigot Cast Iron 1/4 Bend.....	101.55	28.58
For Extra Heavy Fittings, Add	20.53	
For Above Ground Cast Iron Pipe Installation, Add	2.14	
For Work In Restricted Working Space, Add	12.86	
22 13 16 00-0052 EA 4" Bell And Spigot Cast Iron 1/4 Bend.....	145.15	38.07
For Extra Heavy Fittings, Add	30.83	
For Above Ground Cast Iron Pipe Installation, Add	2.85	
For Work In Restricted Working Space, Add	17.12	
22 13 16 00-0053 EA 5" Bell And Spigot Cast Iron 1/4 Bend.....	182.59	42.91
For Extra Heavy Fittings, Add	41.41	
For Above Ground Cast Iron Pipe Installation, Add	3.21	
For Work In Restricted Working Space, Add	19.29	
22 13 16 00-0054 EA 6" Bell And Spigot Cast Iron 1/4 Bend.....	219.61	51.39
For Extra Heavy Fittings, Add	49.88	
For Above Ground Cast Iron Pipe Installation, Add	3.86	
For Work In Restricted Working Space, Add	23.13	
22 13 16 00-0055 EA 8" Bell And Spigot Cast Iron 1/4 Bend.....	454.11	67.05
For Extra Heavy Fittings, Add	123.77	
For Above Ground Cast Iron Pipe Installation, Add	5.02	
For Work In Restricted Working Space, Add	30.15	
22 13 16 00-0056 EA 10" Bell And Spigot Cast Iron 1/4 Bend.....	669.10	81.37
For Extra Heavy Fittings, Add	191.50	
For Above Ground Cast Iron Pipe Installation, Add	6.10	
For Work In Restricted Working Space, Add	36.59	
22 13 16 00-0057 EA 12" Bell And Spigot Cast Iron 1/4 Bend.....	881.74	96.03
For Extra Heavy Fittings, Add	258.21	
For Above Ground Cast Iron Pipe Installation, Add	7.20	
For Work In Restricted Working Space, Add	43.20	
22 13 16 00-0058 EA 15" Bell And Spigot Cast Iron 1/4 Bend.....	2,249.88	151.47
For Extra Heavy Fittings, Add	707.99	
For Above Ground Cast Iron Pipe Installation, Add	11.35	
For Work In Restricted Working Space, Add	68.12	
22 13 16 00-0059 Bell And Spigot Cast Iron 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0060 EA 2" Bell And Spigot Cast Iron 1/8 Bend.....	61.61	25.48
For Extra Heavy Fittings, Add	8.20	
For Above Ground Cast Iron Pipe Installation, Add	1.91	
For Work In Restricted Working Space, Add	11.45	
22 13 16 00-0061 EA 3" Bell And Spigot Cast Iron 1/8 Bend.....	96.35	32.05
For Extra Heavy Fittings, Add	16.93	
For Above Ground Cast Iron Pipe Installation, Add	2.40	
For Work In Restricted Working Space, Add	14.39	
22 13 16 00-0062 EA 4" Bell And Spigot Cast Iron 1/8 Bend.....	137.25	42.60
For Extra Heavy Fittings, Add	25.69	
For Above Ground Cast Iron Pipe Installation, Add	3.19	
For Work In Restricted Working Space, Add	19.16	
22 13 16 00-0063 EA 5" Bell And Spigot Cast Iron 1/8 Bend.....	173.03	53.70
For Extra Heavy Fittings, Add	32.39	
For Above Ground Cast Iron Pipe Installation, Add	4.02	
For Work In Restricted Working Space, Add	24.14	
22 13 16 00-0064 EA 6" Bell And Spigot Cast Iron 1/8 Bend.....	200.02	59.87
For Extra Heavy Fittings, Add	38.57	
For Above Ground Cast Iron Pipe Installation, Add	4.49	
For Work In Restricted Working Space, Add	26.94	
22 13 16 00-0065 EA 8" Bell And Spigot Cast Iron 1/8 Bend.....	396.16	80.32
For Extra Heavy Fittings, Add	96.51	
For Above Ground Cast Iron Pipe Installation, Add	6.02	
For Work In Restricted Working Space, Add	36.12	
22 13 16 00-0066 EA 10" Bell And Spigot Cast Iron 1/8 Bend.....	553.63	99.09
For Extra Heavy Fittings, Add	141.76	
For Above Ground Cast Iron Pipe Installation, Add	7.43	
For Work In Restricted Working Space, Add	44.58	
22 13 16 00-0067 EA 12" Bell And Spigot Cast Iron 1/8 Bend.....	893.45	128.51
For Extra Heavy Fittings, Add	245.29	
For Above Ground Cast Iron Pipe Installation, Add	9.63	
For Work In Restricted Working Space, Add	57.78	
22 13 16 00-0068 EA 15" Bell And Spigot Cast Iron 1/8 Bend.....	1,708.80	151.47
For Extra Heavy Fittings, Add	518.61	
For Above Ground Cast Iron Pipe Installation, Add	11.35	
For Work In Restricted Working Space, Add	68.12	
22 13 16 00-0069 Bell And Spigot Cast Iron Wyes (22 13 16 00-0030)		
22 13 16 00-0070 EA 2" Bell And Spigot Cast Iron Wye.....	107.89	56.90
For Extra Heavy Fittings, Add	7.89	
For Above Ground Cast Iron Pipe Installation, Add	4.27	
For Work In Restricted Working Space, Add	25.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0071 EA 3" Bell And Spigot Cast Iron Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.67 14.78 4.67 28.03	62.31
22 13 16 00-0072 EA 4" Bell And Spigot Cast Iron Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.61 19.68 6.12 36.72	81.66
22 13 16 00-0073 EA 5" Bell And Spigot Cast Iron Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	232.27 32.79 6.93 41.58	92.42
22 13 16 00-0074 EA 6" Bell And Spigot Cast Iron Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	291.18 44.42 8.21 49.28	109.54
22 13 16 00-0075 EA 8" Bell And Spigot Cast Iron Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	531.13 108.93 11.00 65.97	146.67
22 13 16 00-0076 EA 10" Bell And Spigot Cast Iron Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	743.42 172.89 12.47 74.83	166.40
22 13 16 00-0077 EA 12" Bell And Spigot Cast Iron Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,098.36 278.15 15.18 91.10	202.54
22 13 16 00-0078 EA 15" Bell And Spigot Cast Iron Wye..... <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,701.48 476.28 17.03 102.21	227.25
22 13 16 00-0079 Bell And Spigot Cast Iron Reducing Wyes (22 13 16 00-0030)		
22 13 16 00-0080 EA 3" x 2" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	170.29 28.39 4.46 26.75	59.46
22 13 16 00-0081 EA 4" x 2" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	207.28 33.97 5.51 33.07	73.49
22 13 16 00-0082 EA 4" x 3" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	231.19 41.35 5.65 33.91	75.36
22 13 16 00-0083 EA 6" x 2" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.01 68.92 7.35 44.13	98.16
22 13 16 00-0084 EA 6" x 3" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	352.90 71.05 7.49 44.97	99.95
22 13 16 00-0085 EA 6" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	369.46 73.35 7.99 47.96	106.63
22 13 16 00-0086 EA 8" x 2" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	542.04 127.83 8.84 53.04	117.95
22 13 16 00-0087 EA 8" x 3" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	566.52 135.22 9.01 54.06	120.21
22 13 16 00-0088 EA 8" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	580.26 137.02 9.44 56.63	125.89
22 13 16 00-0089 EA 8" x 6" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	685.40 166.39 10.50 63.00	140.04
22 13 16 00-0090 EA 10" x 3" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	844.22 226.62 9.84 59.02	131.22
22 13 16 00-0091 EA 10" x 4" Bell And Spigot Cast Iron Reducing Wye <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	878.22 235.48 10.27 61.63	136.98

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0092	EA		10" x 6" Bell And Spigot Cast Iron Reducing Wye.....	960.80	151.47
			<i>For Extra Heavy Fittings, Add</i>	256.81	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.35	
			<i>For Work In Restricted Working Space, Add</i>	68.12	
22 13 16 00-0093	EA		10" x 8" Bell And Spigot Cast Iron Reducing Wye.....	1,269.50	160.64
			<i>For Extra Heavy Fittings, Add</i>	360.03	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.04	
			<i>For Work In Restricted Working Space, Add</i>	72.25	
22 13 16 00-0094	EA		12" x 4" Bell And Spigot Cast Iron Reducing Wye.....	1,306.54	160.64
			<i>For Extra Heavy Fittings, Add</i>	373.00	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.04	
			<i>For Work In Restricted Working Space, Add</i>	72.25	
22 13 16 00-0095	EA		12" x 6" Bell And Spigot Cast Iron Reducing Wye.....	1,359.98	174.09
			<i>For Extra Heavy Fittings, Add</i>	384.65	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.05	
			<i>For Work In Restricted Working Space, Add</i>	78.30	
22 13 16 00-0096	EA		12" x 8" Bell And Spigot Cast Iron Reducing Wye.....	1,596.52	182.72
			<i>For Extra Heavy Fittings, Add</i>	462.92	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.69	
			<i>For Work In Restricted Working Space, Add</i>	82.17	
22 13 16 00-0097	EA		12" x 10" Bell And Spigot Cast Iron Reducing Wye.....	1,939.94	188.14
			<i>For Extra Heavy Fittings, Add</i>	580.25	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.10	
			<i>For Work In Restricted Working Space, Add</i>	84.62	
22 13 16 00-0098	EA		15" x 4" Bell And Spigot Cast Iron Reducing Wye.....	3,204.72	177.40
			<i>For Extra Heavy Fittings, Add</i>	1,028.56	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.30	
			<i>For Work In Restricted Working Space, Add</i>	79.79	
22 13 16 00-0099	EA		15" x 6" Bell And Spigot Cast Iron Reducing Wye.....	3,344.79	191.98
			<i>For Extra Heavy Fittings, Add</i>	1,069.92	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.39	
			<i>For Work In Restricted Working Space, Add</i>	86.37	
22 13 16 00-0100	EA		15" x 8" Bell And Spigot Cast Iron Reducing Wye.....	3,413.44	200.27
			<i>For Extra Heavy Fittings, Add</i>	1,089.61	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.01	
			<i>For Work In Restricted Working Space, Add</i>	90.08	
22 13 16 00-0101	EA		15" x 10" Bell And Spigot Cast Iron Reducing Wye.....	3,492.97	207.08
			<i>For Extra Heavy Fittings, Add</i>	1,113.90	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.52	
			<i>For Work In Restricted Working Space, Add</i>	93.12	
22 13 16 00-0102	EA		15" x 12" Bell And Spigot Cast Iron Reducing Wye.....	3,581.40	219.13
			<i>For Extra Heavy Fittings, Add</i>	1,138.51	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.43	
			<i>For Work In Restricted Working Space, Add</i>	98.56	
22 13 16 00-0103			Bell And Spigot Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0030)		
22 13 16 00-0104	EA		2" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	117.55	56.90
			<i>For Extra Heavy Fittings, Add</i>	11.27	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.27	
			<i>For Work In Restricted Working Space, Add</i>	25.60	
22 13 16 00-0105	EA		3" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	141.63	62.31
			<i>For Extra Heavy Fittings, Add</i>	16.87	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.67	
			<i>For Work In Restricted Working Space, Add</i>	28.03	
22 13 16 00-0106	EA		4" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	188.97	81.66
			<i>For Extra Heavy Fittings, Add</i>	23.30	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.12	
			<i>For Work In Restricted Working Space, Add</i>	36.72	
22 13 16 00-0107	EA		5" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	265.95	96.96
			<i>For Extra Heavy Fittings, Add</i>	42.22	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.27	
			<i>For Work In Restricted Working Space, Add</i>	43.59	
22 13 16 00-0108	EA		6" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	333.01	120.25
			<i>For Extra Heavy Fittings, Add</i>	53.46	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.01	
			<i>For Work In Restricted Working Space, Add</i>	54.08	
22 13 16 00-0109	EA		8" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	608.59	157.93
			<i>For Extra Heavy Fittings, Add</i>	130.14	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.84	
			<i>For Work In Restricted Working Space, Add</i>	71.03	
22 13 16 00-0110	EA		10" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	877.72	207.08
			<i>For Extra Heavy Fittings, Add</i>	198.56	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	15.52	
			<i>For Work In Restricted Working Space, Add</i>	93.12	
22 13 16 00-0111	EA		12" Bell And Spigot Cast Iron Combination Wye And 1/8 Bend.....	1,176.53	266.19
			<i>For Extra Heavy Fittings, Add</i>	272.10	
			<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.96	
			<i>For Work In Restricted Working Space, Add</i>	119.73	

22 13 16 00-0112 Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0030)



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0113	EA			3" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	125.33	59.46
				<i>For Extra Heavy Fittings, Add</i>	12.65	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.46	
				<i>For Work In Restricted Working Space, Add</i>	26.75	
22 13 16 00-0114	EA			4" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	176.63	73.49
				<i>For Extra Heavy Fittings, Add</i>	23.24	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.51	
				<i>For Work In Restricted Working Space, Add</i>	33.07	
22 13 16 00-0115	EA			4" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	190.73	75.36
				<i>For Extra Heavy Fittings, Add</i>	27.19	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.65	
				<i>For Work In Restricted Working Space, Add</i>	33.91	
22 13 16 00-0116	EA			6" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	285.98	98.16
				<i>For Extra Heavy Fittings, Add</i>	48.61	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.35	
				<i>For Work In Restricted Working Space, Add</i>	44.13	
22 13 16 00-0117	EA			6" x 3" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	297.82	99.95
				<i>For Extra Heavy Fittings, Add</i>	51.78	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.49	
				<i>For Work In Restricted Working Space, Add</i>	44.97	
22 13 16 00-0118	EA			6" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	315.71	106.63
				<i>For Extra Heavy Fittings, Add</i>	54.54	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.99	
				<i>For Work In Restricted Working Space, Add</i>	47.96	
22 13 16 00-0119	EA			8" x 2" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	434.27	117.95
				<i>For Extra Heavy Fittings, Add</i>	90.11	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.84	
				<i>For Work In Restricted Working Space, Add</i>	53.04	
22 13 16 00-0120	EA			8" x 4" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	446.23	125.89
				<i>For Extra Heavy Fittings, Add</i>	90.11	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.44	
				<i>For Work In Restricted Working Space, Add</i>	56.63	
22 13 16 00-0121	EA			8" x 6" Bell And Spigot Cast Iron Reducing Combination Wye And 1/8 Bend.....	563.43	140.04
				<i>For Extra Heavy Fittings, Add</i>	123.70	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	10.50	
				<i>For Work In Restricted Working Space, Add</i>	63.00	
22 13 16 00-0122				Bell And Spigot Cast Iron Double Wyes (22 13 16 00-0030)		
22 13 16 00-0123	EA			2" Bell And Spigot Cast Iron Double Wye.....	191.10	68.07
				<i>For Extra Heavy Fittings, Add</i>	31.18	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.10	
				<i>For Work In Restricted Working Space, Add</i>	30.61	
22 13 16 00-0124	EA			3" Bell And Spigot Cast Iron Double Wye.....	278.19	85.82
				<i>For Extra Heavy Fittings, Add</i>	52.35	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.43	
				<i>For Work In Restricted Working Space, Add</i>	38.59	
22 13 16 00-0125	EA			4" Bell And Spigot Cast Iron Double Wye.....	377.52	108.55
				<i>For Extra Heavy Fittings, Add</i>	75.16	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.14	
				<i>For Work In Restricted Working Space, Add</i>	48.84	
22 13 16 00-0126	EA			6" Bell And Spigot Cast Iron Double Wye.....	728.68	168.30
				<i>For Extra Heavy Fittings, Add</i>	166.72	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.62	
				<i>For Work In Restricted Working Space, Add</i>	75.70	
22 13 16 00-0127	EA			8" Bell And Spigot Cast Iron Double Wye.....	1,456.67	198.27
				<i>For Extra Heavy Fittings, Add</i>	405.81	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	14.86	
				<i>For Work In Restricted Working Space, Add</i>	89.16	
22 13 16 00-0128	EA			10" Bell And Spigot Cast Iron Double Wye.....	1,929.96	221.84
				<i>For Extra Heavy Fittings, Add</i>	559.08	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	16.63	
				<i>For Work In Restricted Working Space, Add</i>	99.78	
22 13 16 00-0129	EA			12" Bell And Spigot Cast Iron Double Wye.....	1,339.47	266.19
				<i>For Extra Heavy Fittings, Add</i>	329.13	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	19.96	
				<i>For Work In Restricted Working Space, Add</i>	119.73	
22 13 16 00-0130	EA			15" Bell And Spigot Cast Iron Double Wye.....	3,771.75	279.37
				<i>For Extra Heavy Fittings, Add</i>	1,173.44	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	20.95	
				<i>For Work In Restricted Working Space, Add</i>	125.72	
22 13 16 00-0131				Bell And Spigot Cast Iron Reducing Double Wyes (22 13 16 00-0030)		
22 13 16 00-0132	EA			3" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....	173.29	80.50
				<i>For Extra Heavy Fittings, Add</i>	18.40	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.04	
				<i>For Work In Restricted Working Space, Add</i>	36.22	
22 13 16 00-0133	EA			4" x 2" Bell And Spigot Cast Iron Reducing Double Wye.....	201.37	92.48
				<i>For Extra Heavy Fittings, Add</i>	21.94	
				<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.93	
				<i>For Work In Restricted Working Space, Add</i>	41.60	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0134 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Wye	218.13	97.01
For Extra Heavy Fittings, Add	25.42	
For Above Ground Cast Iron Pipe Installation, Add	7.28	
For Work In Restricted Working Space, Add	43.65	
22 13 16 00-0135 EA 6" x 2" Bell And Spigot Cast Iron Reducing Double Wye	283.40	116.74
For Extra Heavy Fittings, Add	37.94	
For Above Ground Cast Iron Pipe Installation, Add	8.75	
For Work In Restricted Working Space, Add	52.50	
22 13 16 00-0136 EA 6" x 3" Bell And Spigot Cast Iron Reducing Double Wye	300.39	121.19
For Extra Heavy Fittings, Add	41.55	
For Above Ground Cast Iron Pipe Installation, Add	9.08	
For Work In Restricted Working Space, Add	54.50	
22 13 16 00-0137 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Wye	345.55	132.16
For Extra Heavy Fittings, Add	51.59	
For Above Ground Cast Iron Pipe Installation, Add	9.91	
For Work In Restricted Working Space, Add	59.44	
22 13 16 00-0138 EA 8" x 4" Bell And Spigot Cast Iron Reducing Double Wye	556.29	152.78
For Extra Heavy Fittings, Add	114.56	
For Above Ground Cast Iron Pipe Installation, Add	11.45	
For Work In Restricted Working Space, Add	68.70	
22 13 16 00-0139 EA 8" x 6" Bell And Spigot Cast Iron Reducing Double Wye	606.08	180.80
For Extra Heavy Fittings, Add	117.23	
For Above Ground Cast Iron Pipe Installation, Add	13.56	
For Work In Restricted Working Space, Add	81.34	
22 13 16 00-0140 EA 10" x 4" Bell And Spigot Cast Iron Reducing Double Wye	592.63	163.43
For Extra Heavy Fittings, Add	121.65	
For Above Ground Cast Iron Pipe Installation, Add	12.25	
For Work In Restricted Working Space, Add	73.52	
22 13 16 00-0141 EA 10" x 6" Bell And Spigot Cast Iron Reducing Double Wye	690.68	191.98
For Extra Heavy Fittings, Add	140.98	
For Above Ground Cast Iron Pipe Installation, Add	14.39	
For Work In Restricted Working Space, Add	86.37	
22 13 16 00-0142 EA 10" x 8" Bell And Spigot Cast Iron Reducing Double Wye	850.83	209.26
For Extra Heavy Fittings, Add	187.97	
For Above Ground Cast Iron Pipe Installation, Add	15.69	
For Work In Restricted Working Space, Add	94.13	
22 13 16 00-0143 EA 12" x 6" Bell And Spigot Cast Iron Reducing Double Wye	869.06	214.07
For Extra Heavy Fittings, Add	191.83	
For Above Ground Cast Iron Pipe Installation, Add	16.05	
For Work In Restricted Working Space, Add	96.29	
22 13 16 00-0144 EA 12" x 8" Bell And Spigot Cast Iron Reducing Double Wye	1,110.48	232.92
For Extra Heavy Fittings, Add	266.44	
For Above Ground Cast Iron Pipe Installation, Add	17.46	
For Work In Restricted Working Space, Add	104.76	
22 13 16 00-0145 Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0146 EA 2" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend.....	159.17	68.07
For Extra Heavy Fittings, Add	20.00	
For Above Ground Cast Iron Pipe Installation, Add	5.10	
For Work In Restricted Working Space, Add	30.61	
22 13 16 00-0147 EA 3" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend.....	214.38	91.06
For Extra Heavy Fittings, Add	27.24	
For Above Ground Cast Iron Pipe Installation, Add	6.83	
For Work In Restricted Working Space, Add	40.97	
22 13 16 00-0148 EA 4" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend.....	280.21	113.87
For Extra Heavy Fittings, Add	38.33	
For Above Ground Cast Iron Pipe Installation, Add	8.53	
For Work In Restricted Working Space, Add	51.21	
22 13 16 00-0149 EA 6" Bell And Spigot Cast Iron Double Combination Wye And 1/8 Bend.....	621.55	188.09
For Extra Heavy Fittings, Add	118.84	
For Above Ground Cast Iron Pipe Installation, Add	14.10	
For Work In Restricted Working Space, Add	84.60	
22 13 16 00-0150 Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0030)</small>		
22 13 16 00-0151 EA 3" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	212.73	81.66
For Extra Heavy Fittings, Add	31.62	
For Above Ground Cast Iron Pipe Installation, Add	6.12	
For Work In Restricted Working Space, Add	36.72	
22 13 16 00-0152 EA 4" x 2" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	252.50	92.48
For Extra Heavy Fittings, Add	39.84	
For Above Ground Cast Iron Pipe Installation, Add	6.93	
For Work In Restricted Working Space, Add	41.60	
22 13 16 00-0153 EA 4" x 3" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	283.48	102.96
For Extra Heavy Fittings, Add	45.21	
For Above Ground Cast Iron Pipe Installation, Add	7.72	
For Work In Restricted Working Space, Add	46.29	
22 13 16 00-0154 EA 6" x 4" Bell And Spigot Cast Iron Reducing Double Combination Wye And 1/8 Bend.....	572.85	140.29
For Extra Heavy Fittings, Add	126.87	
For Above Ground Cast Iron Pipe Installation, Add	10.52	
For Work In Restricted Working Space, Add	63.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0155 Bell And Spigot Cast Iron Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0156 EA 2" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.96 15.59 4.27 25.63	56.98
22 13 16 00-0157 EA 3" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	147.82 19.04 4.67 28.03	62.31
22 13 16 00-0158 EA 4" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	238.28 43.32 5.73 34.35	76.33
22 13 16 00-0159 EA 5" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	348.58 77.13 6.41 38.47	85.48
22 13 16 00-0160 EA 6" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	418.15 92.55 7.69 46.12	102.53
22 13 16 00-0161 EA 8" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	897.17 243.68 10.05 60.28	134.01
22 13 16 00-0162 EA 10" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,347.80 385.96 12.25 73.52	163.43
22 13 16 00-0163 EA 12" Bell And Spigot Cast Iron Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,010.45 602.90 14.39 86.37	191.98
22 13 16 00-0164 Bell And Spigot Cast Iron Reducing Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0165 EA 3" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	174.51 29.87 4.46 26.75	59.46
22 13 16 00-0166 EA 4" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	206.63 35.77 5.22 31.33	69.67
22 13 16 00-0167 EA 4" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	216.48 39.22 5.22 31.33	69.67
22 13 16 00-0168 EA 6" x 2" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	330.88 64.33 7.35 44.13	98.16
22 13 16 00-0169 EA 6" x 3" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.46 68.10 7.49 44.97	99.95
22 13 16 00-0170 EA 6" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	373.68 74.83 7.99 47.96	106.63
22 13 16 00-0171 EA 8" x 4" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	636.05 156.55 9.44 56.63	125.89
22 13 16 00-0172 EA 8" x 6" Bell And Spigot Cast Iron Reducing Sanitary Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	798.40 205.94 10.50 63.00	140.04
22 13 16 00-0173 Bell And Spigot Cast Iron Vent Tees (22 13 16 00-0030)		
22 13 16 00-0174 EA 2" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	111.36 9.11 4.27 25.60	56.90
22 13 16 00-0175 EA 3" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.72 15.85 4.67 28.03	62.31
22 13 16 00-0176 EA 4" Bell And Spigot Cast Iron Vent Tee <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	183.76 21.48 6.12 36.72	81.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0177 EA 5" Bell And Spigot Cast Iron Vent Tee	236.88	96.96
For Extra Heavy Fittings, Add	32.05	
For Above Ground Cast Iron Pipe Installation, Add	7.27	
For Work In Restricted Working Space, Add	43.59	
22 13 16 00-0178 EA 6" Bell And Spigot Cast Iron Vent Tee	298.22	120.25
For Extra Heavy Fittings, Add	41.29	
For Above Ground Cast Iron Pipe Installation, Add	9.01	
For Work In Restricted Working Space, Add	54.08	
22 13 16 00-0179 EA 8" Bell And Spigot Cast Iron Vent Tee	511.26	157.93
For Extra Heavy Fittings, Add	96.08	
For Above Ground Cast Iron Pipe Installation, Add	11.84	
For Work In Restricted Working Space, Add	71.03	
22 13 16 00-0180 Bell And Spigot Cast Iron Tapped Sanitary Tees (22 13 16 00-0030)		
22 13 16 00-0181 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Tee	114.41	56.90
For Extra Heavy Fittings, Add	10.17	
For Above Ground Cast Iron Pipe Installation, Add	4.27	
For Work In Restricted Working Space, Add	25.60	
22 13 16 00-0182 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Tee	126.30	62.31
For Extra Heavy Fittings, Add	11.50	
For Above Ground Cast Iron Pipe Installation, Add	4.67	
For Work In Restricted Working Space, Add	28.03	
22 13 16 00-0183 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Tee	162.90	81.66
For Extra Heavy Fittings, Add	14.18	
For Above Ground Cast Iron Pipe Installation, Add	6.12	
For Work In Restricted Working Space, Add	36.72	
22 13 16 00-0184 Bell And Spigot Cast Iron Tapped Sanitary Crosses (22 13 16 00-0030)		
22 13 16 00-0185 EA 2" Bell And Spigot Cast Iron Tapped Sanitary Cross	116.33	56.90
For Extra Heavy Fittings, Add	10.85	
For Above Ground Cast Iron Pipe Installation, Add	4.27	
For Work In Restricted Working Space, Add	25.60	
22 13 16 00-0186 EA 3" Bell And Spigot Cast Iron Tapped Sanitary Cross	129.95	62.31
For Extra Heavy Fittings, Add	12.78	
For Above Ground Cast Iron Pipe Installation, Add	4.67	
For Work In Restricted Working Space, Add	28.03	
22 13 16 00-0187 EA 4" Bell And Spigot Cast Iron Tapped Sanitary Cross	172.09	81.66
For Extra Heavy Fittings, Add	17.40	
For Above Ground Cast Iron Pipe Installation, Add	6.12	
For Work In Restricted Working Space, Add	36.72	
22 13 16 00-0188 Bell And Spigot Cast Iron Reducers (22 13 16 00-0030)		
22 13 16 00-0189 EA 3" x 2" Bell And Spigot Cast Iron Reducer	64.43	32.05
For Extra Heavy Fittings, Add	5.76	
For Above Ground Cast Iron Pipe Installation, Add	2.40	
For Work In Restricted Working Space, Add	14.39	
22 13 16 00-0190 EA 4" x 2" Bell And Spigot Cast Iron Reducer	80.61	42.25
For Extra Heavy Fittings, Add	6.02	
For Above Ground Cast Iron Pipe Installation, Add	3.17	
For Work In Restricted Working Space, Add	19.02	
22 13 16 00-0191 EA 4" x 3" Bell And Spigot Cast Iron Reducer	86.21	42.60
For Extra Heavy Fittings, Add	7.83	
For Above Ground Cast Iron Pipe Installation, Add	3.19	
For Work In Restricted Working Space, Add	19.16	
22 13 16 00-0192 EA 6" x 2" Bell And Spigot Cast Iron Reducer	110.35	51.90
For Extra Heavy Fittings, Add	11.37	
For Above Ground Cast Iron Pipe Installation, Add	3.89	
For Work In Restricted Working Space, Add	23.36	
22 13 16 00-0193 EA 6" x 3" Bell And Spigot Cast Iron Reducer	115.41	52.59
For Extra Heavy Fittings, Add	12.78	
For Above Ground Cast Iron Pipe Installation, Add	3.94	
For Work In Restricted Working Space, Add	23.67	
22 13 16 00-0194 EA 6" x 4" Bell And Spigot Cast Iron Reducer	119.11	53.70
For Extra Heavy Fittings, Add	13.52	
For Above Ground Cast Iron Pipe Installation, Add	4.02	
For Work In Restricted Working Space, Add	24.14	
22 13 16 00-0195 EA 8" x 2" Bell And Spigot Cast Iron Reducer	154.28	55.33
For Extra Heavy Fittings, Add	24.96	
For Above Ground Cast Iron Pipe Installation, Add	4.15	
For Work In Restricted Working Space, Add	24.89	
22 13 16 00-0196 EA 8" x 3" Bell And Spigot Cast Iron Reducer	174.02	68.01
For Extra Heavy Fittings, Add	25.22	
For Above Ground Cast Iron Pipe Installation, Add	5.10	
For Work In Restricted Working Space, Add	30.59	
22 13 16 00-0197 EA 8" x 4" Bell And Spigot Cast Iron Reducer	178.60	69.75
For Extra Heavy Fittings, Add	25.89	
For Above Ground Cast Iron Pipe Installation, Add	5.23	
For Work In Restricted Working Space, Add	31.39	
22 13 16 00-0198 EA 8" x 6" Bell And Spigot Cast Iron Reducer	184.47	72.81
For Extra Heavy Fittings, Add	26.37	
For Above Ground Cast Iron Pipe Installation, Add	5.46	
For Work In Restricted Working Space, Add	32.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0199 EA 10" x 4" Bell And Spigot Cast Iron Reducer	230.37	81.71
<i>For Extra Heavy Fittings, Add</i>	37.74	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.13	
<i>For Work In Restricted Working Space, Add</i>	36.76	
22 13 16 00-0200 EA 10" x 6" Bell And Spigot Cast Iron Reducer	242.88	85.82
<i>For Extra Heavy Fittings, Add</i>	39.96	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.44	
<i>For Work In Restricted Working Space, Add</i>	38.62	
22 13 16 00-0201 EA 10" x 8" Bell And Spigot Cast Iron Reducer	258.79	89.58
<i>For Extra Heavy Fittings, Add</i>	43.57	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.72	
<i>For Work In Restricted Working Space, Add</i>	40.29	
22 13 16 00-0202 EA 12" x 4" Bell And Spigot Cast Iron Reducer	321.55	97.09
<i>For Extra Heavy Fittings, Add</i>	61.62	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	7.28	
<i>For Work In Restricted Working Space, Add</i>	43.65	
22 13 16 00-0203 EA 12" x 6" Bell And Spigot Cast Iron Reducer	358.64	113.58
<i>For Extra Heavy Fittings, Add</i>	65.90	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	8.52	
<i>For Work In Restricted Working Space, Add</i>	51.11	
22 13 16 00-0204 EA 12" x 8" Bell And Spigot Cast Iron Reducer	387.88	129.38
<i>For Extra Heavy Fittings, Add</i>	67.85	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	9.70	
<i>For Work In Restricted Working Space, Add</i>	58.20	
22 13 16 00-0205 EA 12" x 10" Bell And Spigot Cast Iron Reducer	424.93	149.03
<i>For Extra Heavy Fittings, Add</i>	70.53	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.17	
<i>For Work In Restricted Working Space, Add</i>	67.03	
22 13 16 00-0206 EA 15" x 6" Bell And Spigot Cast Iron Reducer	555.32	149.03
<i>For Extra Heavy Fittings, Add</i>	116.17	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	11.17	
<i>For Work In Restricted Working Space, Add</i>	67.03	
22 13 16 00-0207 EA 15" x 8" Bell And Spigot Cast Iron Reducer	590.88	160.64
<i>For Extra Heavy Fittings, Add</i>	122.51	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.04	
<i>For Work In Restricted Working Space, Add</i>	72.25	
22 13 16 00-0208 EA 15" x 10" Bell And Spigot Cast Iron Reducer	615.28	169.36
<i>For Extra Heavy Fittings, Add</i>	126.46	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	12.70	
<i>For Work In Restricted Working Space, Add</i>	76.19	
22 13 16 00-0209 EA 15" x 12" Bell And Spigot Cast Iron Reducer	648.32	180.80
<i>For Extra Heavy Fittings, Add</i>	132.02	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	13.56	
<i>For Work In Restricted Working Space, Add</i>	81.34	
22 13 16 00-0210 Bell And Spigot Cast Iron P-Traps (22 13 16 00-0030)		
22 13 16 00-0211 EA 2" Bell And Spigot Cast Iron P-Trap	66.30	25.48
<i>For Extra Heavy Fittings, Add</i>	9.85	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.91	
<i>For Work In Restricted Working Space, Add</i>	11.45	
22 13 16 00-0212 EA 3" Bell And Spigot Cast Iron P-Trap	88.90	32.05
<i>For Extra Heavy Fittings, Add</i>	14.33	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	2.40	
<i>For Work In Restricted Working Space, Add</i>	14.39	
22 13 16 00-0213 EA 4" Bell And Spigot Cast Iron P-Trap	121.19	42.60
<i>For Extra Heavy Fittings, Add</i>	20.07	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.19	
<i>For Work In Restricted Working Space, Add</i>	19.16	
22 13 16 00-0214 EA 5" Bell And Spigot Cast Iron P-Trap	194.94	48.05
<i>For Extra Heavy Fittings, Add</i>	43.03	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	3.60	
<i>For Work In Restricted Working Space, Add</i>	21.60	
22 13 16 00-0215 EA 6" Bell And Spigot Cast Iron P-Trap	261.77	56.52
<i>For Extra Heavy Fittings, Add</i>	61.96	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	4.24	
<i>For Work In Restricted Working Space, Add</i>	25.42	
22 13 16 00-0216 EA 8" Bell And Spigot Cast Iron P-Trap	581.73	72.81
<i>For Extra Heavy Fittings, Add</i>	165.41	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	5.46	
<i>For Work In Restricted Working Space, Add</i>	32.74	
22 13 16 00-0217 EA 10" Bell And Spigot Cast Iron P-Trap	644.89	89.58
<i>For Extra Heavy Fittings, Add</i>	178.70	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	6.72	
<i>For Work In Restricted Working Space, Add</i>	40.29	
22 13 16 00-0218 Bell And Spigot Cast Iron Deep Seal P-Traps (22 13 16 00-0030)		
22 13 16 00-0219 EA 2" Bell And Spigot Cast Iron Deep Seal P-Trap	76.99	25.48
<i>For Extra Heavy Fittings, Add</i>	13.59	
<i>For Above Ground Cast Iron Pipe Installation, Add</i>	1.91	
<i>For Work In Restricted Working Space, Add</i>	11.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0220	EA		3" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.91 21.68 2.40 14.39	32.05
22 13 16 00-0221	EA		4" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.25 33.74 3.19 19.16	42.60
22 13 16 00-0222	EA		5" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	265.16 64.64 4.02 24.14	53.70
22 13 16 00-0223	EA		6" Bell And Spigot Cast Iron Deep Seal P-Trap <i>For Extra Heavy Fittings, Add</i> <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	281.38 67.05 4.49 26.94	59.87
22 13 16 00-0224			Bell And Spigot Cast Iron Running Traps With Single Vent (22 13 16 00-0030)		
22 13 16 00-0225	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.46 4.67 28.03	61.50
22 13 16 00-0226	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	236.77 6.12 36.72	80.85
22 13 16 00-0227	EA		5" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	323.13 7.05 42.30	93.27
22 13 16 00-0228	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	650.12 7.99 47.96	105.69
22 13 16 00-0229	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,135.01 9.44 56.63	124.49
22 13 16 00-0230	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Single Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,311.64 10.50 63.00	138.90
22 13 16 00-0231			Bell And Spigot Cast Running Traps With Double Vent (22 13 16 00-0030)		
22 13 16 00-0232	EA		3" x 3" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	226.80 6.43 38.59	84.94
22 13 16 00-0233	EA		4" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	310.05 8.14 48.84	107.21
22 13 16 00-0234	EA		6" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	724.58 9.91 59.44	130.62
22 13 16 00-0235	EA		6" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	840.33 11.98 71.88	158.10
22 13 16 00-0236	EA		8" x 4" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,299.34 11.45 68.70	150.95
22 13 16 00-0237	EA		8" x 6" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,522.96 13.56 81.34	179.23
22 13 16 00-0238	EA		10" x 8" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,356.04 15.69 94.13	206.82
22 13 16 00-0239	EA		12" x 10" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,645.71 18.11 108.68	239.13
22 13 16 00-0240	EA		15" x 12" Bell And Spigot Cast Iron Running Trap With Double Vent <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,046.19 20.96 125.77	276.58
22 13 16 00-0241			Bell And Spigot Cast Iron Scission Joint Fittings (22 13 16 00-0030)		
22 13 16 00-0242	EA		2" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.49 1.90 11.42	
22 13 16 00-0243	EA		3" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	191.34 2.14 12.83	
22 13 16 00-0244	EA		4" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	220.70 2.87 17.19	
22 13 16 00-0245	EA		5" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	272.67 3.33 19.97	
22 13 16 00-0246	EA		6" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	331.15 4.02 24.13	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	22 13 16 00-0247	EA		8" Bell And Spigot Cast Iron Scission Joint Fitting <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	628.93 5.08 30.49	
	22 13 16 00-0248			Cut And Prepare Existing In-Place Cast Iron Pipe (22 13 16 00-0019) Note: For use when connecting pipe to an existing in-place system.		
	22 13 16 00-0249	EA		2", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.60 0.53 3.18	
	22 13 16 00-0250	EA		3", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	11.57 0.58 3.47	
	22 13 16 00-0251	EA		4", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.46 0.72 4.34	
	22 13 16 00-0252	EA		6", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.35 0.87 5.21	
	22 13 16 00-0253	EA		8", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.13 1.16 6.94	
	22 13 16 00-0254	EA		10", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.98 1.35 8.09	
	22 13 16 00-0255	EA		12", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.80 1.59 9.54	
	22 13 16 00-0256	EA		15", Cut And Prepare Existing In-Place Cast Iron Pipe..... <i>For Above Ground Cast Iron Pipe Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.63 1.83 10.99	
	22 13 16 00-0257			Joint Material (22 13 16 00-0019) Note: Labor costs are included in the installation costs for fittings.		
	22 13 16 00-0258	LB		Lead (1 LB/Diameter Inch) Joint Material.....	5.18	
	22 13 16 00-0259	LB		Oakum (1/8 LB/Diameter Inch) Joint Material.....	9.75	
	22 13 16 00-0260	EA		2" Dual Tite Rubber Gasket.....	3.02	
	22 13 16 00-0261	EA		3" Dual Tite Rubber Gasket.....	4.14	
	22 13 16 00-0262	EA		4" Dual Tite Rubber Gasket.....	5.14	
	22 13 16 00-0263	EA		6" Dual Tite Rubber Gasket.....	8.52	
	22 13 16 00-0264	EA		8" Dual Tite Rubber Gasket.....	18.80	
	22 13 16 00-0265	EA		10" Dual Tite Rubber Gasket.....	28.83	
	22 13 16 00-0266	EA		12" Dual Tite Rubber Gasket.....	36.73	
	22 13 16 00-0267	EA		15" Dual Tite Rubber Gasket.....	43.63	
	22 13 16 00-0268			No Hub Cast Iron Soil Pipe And Fittings (22 13 16) Note: Service Weight. Excludes hangers.		
	22 13 16 00-0269			No Hub Cast Iron Pipe (22 13 16 00-0268) Note: Excludes couplings.		
	22 13 16 00-0270	LF		1-1/2" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.65 0.40 2.40	5.32
	22 13 16 00-0271	LF		2" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.45 0.43 2.57	5.68
	22 13 16 00-0272	LF		3" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.18 0.62 3.73	8.25
	22 13 16 00-0273	LF		4" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.89 0.81 4.84	10.74
	22 13 16 00-0274	LF		5" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.83 0.98 5.90	13.11
	22 13 16 00-0275	LF		6" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.49 1.07 6.43	14.31
	22 13 16 00-0276	LF		8" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	54.84 1.54 9.21	20.52
	22 13 16 00-0277	LF		10" No Hub Cast Iron Pipe..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.94 1.75 10.48	23.31
	22 13 16 00-0278			No Hub Cast Iron Fittings (22 13 16 00-0268)		
	22 13 16 00-0279			No Hub Cast Iron Long Sweeps (22 13 16 00-0278)		
	22 13 16 00-0280	EA		1-1/2" No Hub Cast Iron Long Sweep..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.98 1.89 11.33	25.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0281 EA 2" No Hub Cast Iron Long Sweep	50.28	25.20
For Below Ground Installation, Add	1.89	
For Work In Restricted Working Space, Add	11.33	
22 13 16 00-0282 EA 3" No Hub Cast Iron Long Sweep	58.97	28.85
For Below Ground Installation, Add	2.16	
For Work In Restricted Working Space, Add	12.99	
22 13 16 00-0283 EA 4" No Hub Cast Iron Long Sweep	80.63	38.16
For Below Ground Installation, Add	2.86	
For Work In Restricted Working Space, Add	17.18	
22 13 16 00-0284 EA 5" No Hub Cast Iron Long Sweep	107.86	43.25
For Below Ground Installation, Add	3.24	
For Work In Restricted Working Space, Add	19.45	
22 13 16 00-0285 EA 6" No Hub Cast Iron Long Sweep	128.10	51.56
For Below Ground Installation, Add	3.87	
For Work In Restricted Working Space, Add	23.21	
22 13 16 00-0286 EA 8" No Hub Cast Iron Long Sweep	238.46	66.53
For Below Ground Installation, Add	4.99	
For Work In Restricted Working Space, Add	29.93	
22 13 16 00-0287 No Hub Cast Iron Reducing Long Sweeps (22 13 16 00-0278)		
22 13 16 00-0288 EA 3" x 2" No Hub Cast Iron Reducing Long Sweep	71.89	28.85
For Below Ground Installation, Add	2.16	
For Work In Restricted Working Space, Add	12.99	
22 13 16 00-0289 EA 4" x 3" No Hub Cast Iron Reducing Long Sweep	105.26	38.16
For Below Ground Installation, Add	2.86	
For Work In Restricted Working Space, Add	17.18	
22 13 16 00-0290 No Hub Cast Iron Short Sweeps (22 13 16 00-0278)		
22 13 16 00-0291 EA 2" No Hub Cast Iron Short Sweep	47.69	25.20
For Below Ground Installation, Add	1.89	
For Work In Restricted Working Space, Add	11.33	
22 13 16 00-0292 EA 3" No Hub Cast Iron Short Sweep	56.92	28.85
For Below Ground Installation, Add	2.16	
For Work In Restricted Working Space, Add	12.99	
22 13 16 00-0293 EA 4" No Hub Cast Iron Short Sweep	79.55	38.16
For Below Ground Installation, Add	2.86	
For Work In Restricted Working Space, Add	17.18	
22 13 16 00-0294 EA 5" No Hub Cast Iron Short Sweep	108.26	43.25
For Below Ground Installation, Add	3.24	
For Work In Restricted Working Space, Add	19.45	
22 13 16 00-0295 EA 6" No Hub Cast Iron Short Sweep	121.79	51.56
For Below Ground Installation, Add	3.87	
For Work In Restricted Working Space, Add	23.21	
22 13 16 00-0296 EA 8" No Hub Cast Iron Short Sweep	219.40	66.53
For Below Ground Installation, Add	4.99	
For Work In Restricted Working Space, Add	29.93	
22 13 16 00-0297 EA 10" No Hub Cast Iron Short Sweep	350.11	93.15
For Below Ground Installation, Add	6.98	
For Work In Restricted Working Space, Add	41.90	
22 13 16 00-0298 No Hub Cast Iron 1/4 Bends (22 13 16 00-0278)		
22 13 16 00-0299 EA 1-1/2" No Hub Cast Iron 1/4 Bend	43.92	24.14
For Below Ground Installation, Add	1.81	
For Work In Restricted Working Space, Add	10.87	
22 13 16 00-0300 EA 2" No Hub Cast Iron 1/4 Bend	45.90	25.20
For Below Ground Installation, Add	1.89	
For Work In Restricted Working Space, Add	11.33	
22 13 16 00-0301 EA 3" No Hub Cast Iron 1/4 Bend	54.02	28.85
For Below Ground Installation, Add	2.16	
For Work In Restricted Working Space, Add	12.99	
22 13 16 00-0302 EA 4" No Hub Cast Iron 1/4 Bend	73.15	38.16
For Below Ground Installation, Add	2.86	
For Work In Restricted Working Space, Add	17.18	
22 13 16 00-0303 EA 5" No Hub Cast Iron 1/4 Bend	100.30	43.25
For Below Ground Installation, Add	3.24	
For Work In Restricted Working Space, Add	19.45	
22 13 16 00-0304 EA 6" No Hub Cast Iron 1/4 Bend	116.70	51.56
For Below Ground Installation, Add	3.87	
For Work In Restricted Working Space, Add	23.21	
22 13 16 00-0305 EA 8" No Hub Cast Iron 1/4 Bend	204.56	66.53
For Below Ground Installation, Add	4.99	
For Work In Restricted Working Space, Add	29.93	
22 13 16 00-0306 No Hub Cast Iron 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0307 EA 1-1/2" No Hub Cast Iron 1/8 Bend	42.27	24.14
For Below Ground Installation, Add	1.81	
For Work In Restricted Working Space, Add	10.87	
22 13 16 00-0308 EA 2" No Hub Cast Iron 1/8 Bend	43.94	25.20
For Below Ground Installation, Add	1.89	
For Work In Restricted Working Space, Add	11.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0309 EA 3" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	52.09 2.16 12.99	28.85
22 13 16 00-0310 EA 4" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.83 2.86 17.18	38.16
22 13 16 00-0311 EA 6" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.93 4.23 25.36	56.36
22 13 16 00-0312 EA 8" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	181.24 5.55 33.29	74.02
22 13 16 00-0313 EA 10" No Hub Cast Iron 1/8 Bend..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	269.14 6.83 40.97	91.06
22 13 16 00-0314 No Hub Cast Iron Wyes (22 13 16 00-0278)		
22 13 16 00-0315 EA 1-1/2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	67.63 2.85 17.07	37.99
22 13 16 00-0316 EA 2" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.04 3.86 23.15	51.47
22 13 16 00-0317 EA 3" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	99.36 4.23 25.36	56.36
22 13 16 00-0318 EA 4" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	135.03 5.55 33.29	74.02
22 13 16 00-0319 EA 5" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.33 6.31 37.87	84.19
22 13 16 00-0320 EA 6" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	211.65 7.49 44.97	99.95
22 13 16 00-0321 EA 8" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	344.65 9.98 59.87	133.14
22 13 16 00-0322 EA 10" No Hub Cast Iron Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	535.90 11.09 66.52	147.89
22 13 16 00-0323 No Hub Cast Iron Reducing Wyes (22 13 16 00-0278)		
22 13 16 00-0324 EA 3" x 1-1/2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	85.36 3.68 22.10	49.17
22 13 16 00-0325 EA 3" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	96.22 4.23 25.36	56.36
22 13 16 00-0326 EA 4" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.41 4.67 28.03	62.31
22 13 16 00-0327 EA 4" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.88 5.19 31.14	69.23
22 13 16 00-0328 EA 6" x 2" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.86 6.38 38.27	85.05
22 13 16 00-0329 EA 6" x 3" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	170.78 6.66 39.97	88.90
22 13 16 00-0330 EA 6" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	196.84 7.79 46.72	103.90
22 13 16 00-0331 EA 8" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	240.02 7.85 47.09	104.68
22 13 16 00-0332 EA 8" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	275.05 8.62 51.74	115.07
22 13 16 00-0333 EA 10" x 4" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	401.07 9.19 55.14	122.58
22 13 16 00-0334 EA 10" x 6" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	424.07 9.84 59.02	131.22
22 13 16 00-0335 EA 10" x 8" No Hub Cast Iron Reducing Wye..... <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	483.05 10.50 63.02	140.12

22 13 16 00-0336 No Hub Cast Iron Combination Wye And 1/8 Bends (22 13 16 00-0278)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0337 EA 1-1/2" No Hub Cast Iron Combination Wye And 1/8 Bend	77.09	44.20
For Below Ground Installation, Add	3.31	
For Work In Restricted Working Space, Add	19.87	
22 13 16 00-0338 EA 2" No Hub Cast Iron Combination Wye And 1/8 Bend	88.48	51.47
For Below Ground Installation, Add	3.86	
For Work In Restricted Working Space, Add	23.15	
22 13 16 00-0339 EA 3" No Hub Cast Iron Combination Wye And 1/8 Bend	102.67	56.36
For Below Ground Installation, Add	4.23	
For Work In Restricted Working Space, Add	25.36	
22 13 16 00-0340 EA 4" No Hub Cast Iron Combination Wye And 1/8 Bend	144.37	74.02
For Below Ground Installation, Add	5.55	
For Work In Restricted Working Space, Add	33.29	
22 13 16 00-0341 EA 6" No Hub Cast Iron Combination Wye And 1/8 Bend	254.84	113.87
For Below Ground Installation, Add	8.53	
For Work In Restricted Working Space, Add	51.21	
22 13 16 00-0342 EA 8" No Hub Cast Iron Combination Wye And 1/8 Bend	430.18	146.09
For Below Ground Installation, Add	10.95	
For Work In Restricted Working Space, Add	65.71	
22 13 16 00-0343 EA 10" No Hub Cast Iron Combination Wye And 1/8 Bend	507.22	176.63
For Below Ground Installation, Add	13.24	
For Work In Restricted Working Space, Add	79.43	
22 13 16 00-0344 No Hub Cast Iron Reducing Combination Wye And 1/8 Bends (22 13 16 00-0278)		
22 13 16 00-0345 EA 2" x 1-1/2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	89.02	51.47
For Below Ground Installation, Add	3.86	
For Work In Restricted Working Space, Add	23.15	
22 13 16 00-0346 EA 3" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	97.88	56.36
For Below Ground Installation, Add	4.23	
For Work In Restricted Working Space, Add	25.36	
22 13 16 00-0347 EA 4" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	111.71	62.31
For Below Ground Installation, Add	4.67	
For Work In Restricted Working Space, Add	28.03	
22 13 16 00-0348 EA 4" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	127.08	69.23
For Below Ground Installation, Add	5.19	
For Work In Restricted Working Space, Add	31.14	
22 13 16 00-0349 EA 6" x 2" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	170.47	85.05
For Below Ground Installation, Add	6.38	
For Work In Restricted Working Space, Add	38.27	
22 13 16 00-0350 EA 6" x 3" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	187.58	88.90
For Below Ground Installation, Add	6.66	
For Work In Restricted Working Space, Add	39.97	
22 13 16 00-0351 EA 6" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	211.55	103.90
For Below Ground Installation, Add	7.79	
For Work In Restricted Working Space, Add	46.72	
22 13 16 00-0352 EA 8" x 4" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	267.51	104.68
For Below Ground Installation, Add	7.85	
For Work In Restricted Working Space, Add	47.09	
22 13 16 00-0353 EA 8" x 6" No Hub Cast Iron Reducing Combination Wye And 1/8 Bend	337.89	115.07
For Below Ground Installation, Add	8.62	
For Work In Restricted Working Space, Add	51.74	
22 13 16 00-0354 No Hub Cast Iron Double Wyes (22 13 16 00-0278)		
22 13 16 00-0355 EA 2" No Hub Cast Iron Double Wye	111.09	63.99
For Below Ground Installation, Add	4.80	
For Work In Restricted Working Space, Add	28.79	
22 13 16 00-0356 EA 3" No Hub Cast Iron Double Wye	144.71	77.92
For Below Ground Installation, Add	5.84	
For Work In Restricted Working Space, Add	35.03	
22 13 16 00-0357 EA 4" No Hub Cast Iron Double Wye	185.18	85.21
For Below Ground Installation, Add	6.39	
For Work In Restricted Working Space, Add	38.31	
22 13 16 00-0358 EA 6" No Hub Cast Iron Double Wye	287.86	125.99
For Below Ground Installation, Add	9.44	
For Work In Restricted Working Space, Add	56.65	
22 13 16 00-0359 EA 8" No Hub Cast Iron Double Wye	522.15	169.36
For Below Ground Installation, Add	12.70	
For Work In Restricted Working Space, Add	76.19	
22 13 16 00-0360 No Hub Cast Iron Reducing Double Wyes (22 13 16 00-0278)		
22 13 16 00-0361 EA 3" x 2" No Hub Cast Iron Double Wye	130.25	70.91
For Below Ground Installation, Add	5.32	
For Work In Restricted Working Space, Add	31.89	
22 13 16 00-0362 EA 4" x 2" No Hub Cast Iron Double Wye	154.61	81.66
For Below Ground Installation, Add	6.12	
For Work In Restricted Working Space, Add	36.73	
22 13 16 00-0363 EA 4" x 3" No Hub Cast Iron Double Wye	169.76	89.02
For Below Ground Installation, Add	6.67	
For Work In Restricted Working Space, Add	40.04	
22 13 16 00-0364 EA 6" x 4" No Hub Cast Iron Double Wye	246.85	111.08
For Below Ground Installation, Add	8.33	
For Work In Restricted Working Space, Add	49.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0365 No Hub Cast Iron Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0366 EA 2" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	141.81 5.76 34.58	76.86
22 13 16 00-0367 EA 3" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.82 6.39 38.31	85.21
22 13 16 00-0368 EA 4" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	247.58 8.45 50.72	112.81
22 13 16 00-0369 EA 6" No Hub Cast Iron Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	352.72 13.05 78.32	174.14
22 13 16 00-0370 No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bends <small>(22 13 16 00-0278)</small>		
22 13 16 00-0371 EA 3" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.95 4.96 29.75	66.12
22 13 16 00-0372 EA 4" x 2" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.75 5.76 34.58	76.86
22 13 16 00-0373 EA 4" x 3" No Hub Cast Iron Reducing Double Combination Wye And 1/8 Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	177.47 6.30 37.77	83.96
22 13 16 00-0374 No Hub Cast Iron Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0375 EA 1-1/2" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	66.01 2.79 16.75	37.19
22 13 16 00-0376 EA 2" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	88.58 3.86 23.15	51.47
22 13 16 00-0377 EA 3" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	98.15 4.23 25.36	56.36
22 13 16 00-0378 EA 4" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	132.27 5.55 33.29	74.02
22 13 16 00-0379 EA 5" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	178.90 6.31 37.87	84.19
22 13 16 00-0380 EA 6" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	211.24 7.49 44.97	99.95
22 13 16 00-0381 EA 8" No Hub Cast Iron Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	378.75 9.98 59.87	133.14
22 13 16 00-0382 No Hub Cast Iron Reducing Sanitary Tees <small>(22 13 16 00-0278)</small>		
22 13 16 00-0383 EA 2" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.34 3.15 18.88	41.99
22 13 16 00-0384 EA 3" x 1-1/2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	86.31 3.68 22.10	49.17
22 13 16 00-0385 EA 3" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.83 3.86 23.15	51.47
22 13 16 00-0386 EA 3" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	102.88 3.86 23.15	51.47
22 13 16 00-0387 EA 4" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	120.64 5.22 31.33	69.67
22 13 16 00-0388 EA 4" x 3" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.81 5.22 31.33	69.67
22 13 16 00-0389 EA 5" x 2" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.57 6.00 35.97	79.99
22 13 16 00-0390 EA 5" x 3" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	161.99 6.00 35.97	79.99
22 13 16 00-0391 EA 5" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.53 6.00 35.97	79.99
22 13 16 00-0392 EA 6" x 4" No Hub Cast Iron Reducing Sanitary Tee <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	168.79 6.25 37.47	83.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0393 EA 8" x 6" No Hub Cast Iron Reducing Sanitary Tee.....	301.83	112.27
For Below Ground Installation, Add	8.42	
For Work In Restricted Working Space, Add	50.49	
22 13 16 00-0394 No Hub Cast Iron Sanitary Tapped Tees (22 13 16 00-0278)		
22 13 16 00-0395 EA 2" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee.....	49.20	25.20
For Below Ground Installation, Add	1.89	
For Work In Restricted Working Space, Add	11.33	
22 13 16 00-0396 EA 3" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee.....	57.02	28.85
For Below Ground Installation, Add	2.16	
For Work In Restricted Working Space, Add	12.99	
22 13 16 00-0397 EA 4" x 1-1/2 Or 1-1/4" No Hub Cast Iron Sanitary Tapped Tee.....	71.29	38.16
For Below Ground Installation, Add	2.86	
For Work In Restricted Working Space, Add	17.18	
22 13 16 00-0398 No Hub Cast Iron Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0399 EA 2" No Hub Cast Iron Cleanout Tee.....	47.21	25.20
For Below Ground Installation, Add	1.89	
For Work In Restricted Working Space, Add	11.33	
22 13 16 00-0400 EA 3" No Hub Cast Iron Cleanout Tee.....	58.47	28.85
For Below Ground Installation, Add	2.16	
For Work In Restricted Working Space, Add	12.99	
22 13 16 00-0401 EA 4" No Hub Cast Iron Cleanout Tee.....	83.94	38.16
For Below Ground Installation, Add	2.86	
For Work In Restricted Working Space, Add	17.18	
22 13 16 00-0402 EA 6" No Hub Cast Iron Cleanout Tee.....	136.56	56.36
For Below Ground Installation, Add	4.23	
For Work In Restricted Working Space, Add	25.36	
22 13 16 00-0403 No Hub Cast Iron Two-Way Cleanout Tees (22 13 16 00-0278)		
22 13 16 00-0404 EA 4" No Hub Cast Iron Single Two-Way Cleanout Tee.....	187.13	74.02
For Below Ground Installation, Add	5.55	
For Work In Restricted Working Space, Add	33.29	
22 13 16 00-0405 EA 4" No Hub Cast Iron Double Two-Way Cleanout Tee.....	239.38	112.45
For Below Ground Installation, Add	8.43	
For Work In Restricted Working Space, Add	50.59	
22 13 16 00-0406 No Hub Cast Iron Cleanout Plugs (22 13 16 00-0278)		
22 13 16 00-0407 EA 2" No Hub Cast Iron Cleanout Plug.....	41.78	25.20
For Below Ground Installation, Add	1.89	
For Work In Restricted Working Space, Add	11.33	
22 13 16 00-0408 EA 3" No Hub Cast Iron Cleanout Plug.....	49.60	28.85
For Below Ground Installation, Add	2.16	
For Work In Restricted Working Space, Add	12.99	
22 13 16 00-0409 EA 4" No Hub Cast Iron Cleanout Plug.....	69.23	38.16
For Below Ground Installation, Add	2.86	
For Work In Restricted Working Space, Add	17.18	
22 13 16 00-0410 EA 6" No Hub Cast Iron Cleanout Plug.....	106.88	56.36
For Below Ground Installation, Add	4.23	
For Work In Restricted Working Space, Add	25.36	
22 13 16 00-0411 EA 8" No Hub Cast Iron Cleanout Plug.....	141.68	74.02
For Below Ground Installation, Add	5.55	
For Work In Restricted Working Space, Add	33.29	
22 13 16 00-0412 No Hub Cast Iron Sanitary Crosses (22 13 16 00-0278)		
22 13 16 00-0413 EA 1-1/2" No Hub Cast Iron Sanitary Cross.....	88.34	49.70
For Below Ground Installation, Add	3.73	
For Work In Restricted Working Space, Add	22.37	
22 13 16 00-0414 EA 2" No Hub Cast Iron Sanitary Cross.....	94.38	51.47
For Below Ground Installation, Add	3.86	
For Work In Restricted Working Space, Add	23.15	
22 13 16 00-0415 EA 3" No Hub Cast Iron Sanitary Cross.....	111.60	56.36
For Below Ground Installation, Add	4.23	
For Work In Restricted Working Space, Add	25.36	
22 13 16 00-0416 EA 4" No Hub Cast Iron Sanitary Cross.....	161.85	74.02
For Below Ground Installation, Add	5.55	
For Work In Restricted Working Space, Add	33.29	
22 13 16 00-0417 EA 3" x 2" No Hub Cast Iron Sanitary Cross.....	123.49	66.12
For Below Ground Installation, Add	4.96	
For Work In Restricted Working Space, Add	29.74	
22 13 16 00-0418 EA 4" x 2" No Hub Cast Iron Sanitary Cross.....	136.46	68.07
For Below Ground Installation, Add	5.10	
For Work In Restricted Working Space, Add	30.62	
22 13 16 00-0419 EA 4" x 3" No Hub Cast Iron Sanitary Cross.....	148.05	71.09
For Below Ground Installation, Add	5.33	
For Work In Restricted Working Space, Add	31.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 13 16 00-0420 No Hub Cast Iron Reducers (22 13 16 00-0278)

22 13 16 00-0421 EA 3" x 2" No Hub Cast Iron Reducer	82.95	51.47
For Below Ground Installation, Add	3.86	
For Work In Restricted Working Space, Add	23.15	
22 13 16 00-0422 EA 4" x 2" No Hub Cast Iron Reducer	113.22	69.67
For Below Ground Installation, Add	5.22	
For Work In Restricted Working Space, Add	31.33	
22 13 16 00-0423 EA 4" x 3" No Hub Cast Iron Reducer	113.49	69.67
For Below Ground Installation, Add	5.22	
For Work In Restricted Working Space, Add	31.33	
22 13 16 00-0424 EA 5" x 2" No Hub Cast Iron Reducer	132.82	79.99
For Below Ground Installation, Add	6.00	
For Work In Restricted Working Space, Add	35.97	
22 13 16 00-0425 EA 5" x 3" No Hub Cast Iron Reducer	134.61	79.99
For Below Ground Installation, Add	6.00	
For Work In Restricted Working Space, Add	35.97	
22 13 16 00-0426 EA 5" x 4" No Hub Cast Iron Reducer	135.31	79.99
For Below Ground Installation, Add	6.00	
For Work In Restricted Working Space, Add	35.97	
22 13 16 00-0427 EA 6" x 3" No Hub Cast Iron Reducer	155.53	88.90
For Below Ground Installation, Add	6.66	
For Work In Restricted Working Space, Add	39.97	
22 13 16 00-0428 EA 6" x 4" No Hub Cast Iron Reducer	155.80	88.90
For Below Ground Installation, Add	6.66	
For Work In Restricted Working Space, Add	39.97	
22 13 16 00-0429 EA 6" x 5" No Hub Cast Iron Reducer	156.61	88.90
For Below Ground Installation, Add	6.66	
For Work In Restricted Working Space, Add	39.97	
22 13 16 00-0430 EA 8" x 2" No Hub Cast Iron Reducer	215.96	124.23
For Below Ground Installation, Add	9.31	
For Work In Restricted Working Space, Add	55.88	
22 13 16 00-0431 EA 8" x 3" No Hub Cast Iron Reducer	218.02	124.23
For Below Ground Installation, Add	9.31	
For Work In Restricted Working Space, Add	55.88	
22 13 16 00-0432 EA 8" x 4" No Hub Cast Iron Reducer	221.33	124.23
For Below Ground Installation, Add	9.31	
For Work In Restricted Working Space, Add	55.88	
22 13 16 00-0433 EA 8" x 5" No Hub Cast Iron Reducer	224.77	124.23
For Below Ground Installation, Add	9.31	
For Work In Restricted Working Space, Add	55.88	
22 13 16 00-0434 EA 8" x 6" No Hub Cast Iron Reducer	225.17	124.23
For Below Ground Installation, Add	9.31	
For Work In Restricted Working Space, Add	55.88	
22 13 16 00-0435 EA 10" x 4" No Hub Cast Iron Reducer	260.24	131.05
For Below Ground Installation, Add	9.82	
For Work In Restricted Working Space, Add	58.93	
22 13 16 00-0436 EA 10" x 6" No Hub Cast Iron Reducer	276.67	136.80
For Below Ground Installation, Add	10.26	
For Work In Restricted Working Space, Add	61.55	
22 13 16 00-0437 EA 10" x 8" No Hub Cast Iron Reducer	308.29	148.50
For Below Ground Installation, Add	11.13	
For Work In Restricted Working Space, Add	66.79	

22 13 16 00-0438 No Hub Cast Iron Blind Plugs (22 13 16 00-0278)

22 13 16 00-0439 EA 1-1/2" No Hub Cast Iron Blind Plug	39.54	24.14
For Below Ground Installation, Add	1.81	
For Work In Restricted Working Space, Add	10.87	
22 13 16 00-0440 EA 2" No Hub Cast Iron Blind Plug	40.94	25.20
For Below Ground Installation, Add	1.89	
For Work In Restricted Working Space, Add	11.33	
22 13 16 00-0441 EA 3" No Hub Cast Iron Blind Plug	48.92	28.85
For Below Ground Installation, Add	2.16	
For Work In Restricted Working Space, Add	12.99	
22 13 16 00-0442 EA 4" No Hub Cast Iron Blind Plug	64.81	38.16
For Below Ground Installation, Add	2.86	
For Work In Restricted Working Space, Add	17.18	
22 13 16 00-0443 EA 5" No Hub Cast Iron Blind Plug	79.98	44.54
For Below Ground Installation, Add	3.30	
For Work In Restricted Working Space, Add	19.79	
22 13 16 00-0444 EA 6" No Hub Cast Iron Blind Plug	91.54	51.56
For Below Ground Installation, Add	3.87	
For Work In Restricted Working Space, Add	23.21	
22 13 16 00-0445 EA 8" No Hub Cast Iron Blind Plug	144.46	66.53
For Below Ground Installation, Add	4.99	
For Work In Restricted Working Space, Add	29.93	
22 13 16 00-0446 EA 10" No Hub Cast Iron Blind Plug	171.70	71.67
For Below Ground Installation, Add	5.37	
For Work In Restricted Working Space, Add	32.24	

22 13 16 00-0447 No Hub Cast Iron P-Traps (22 13 16 00-0278)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0448 EA 2" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.47 1.89 11.33	25.20
22 13 16 00-0449 EA 3" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.97 2.16 12.99	28.85
22 13 16 00-0450 EA 4" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	103.60 2.86 17.18	38.16
22 13 16 00-0451 EA 5" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	171.36 3.27 19.60	43.60
22 13 16 00-0452 EA 6" No Hub Cast Iron P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	184.08 3.90 23.38	51.99
22 13 16 00-0453 No Hub Cast Iron Deep Seal P-Traps (22 13 16 00-0278)		
22 13 16 00-0454 EA 2" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.90 2.40 14.39	32.05
22 13 16 00-0455 EA 3" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.40 3.19 19.16	42.60
22 13 16 00-0456 EA 4" No Hub Cast Iron Deep Seal P-Trap <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.81 4.22 25.29	56.27
22 13 16 00-0457 No Hub Cast Iron Closet Flanges (22 13 16 00-0278)		
22 13 16 00-0458 EA 4" No Hub Cast Iron Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	75.81 2.86 17.18	38.16
22 13 16 00-0459 EA 4" x 2-1/2" No Hub Cast Iron Offset Closet Flange <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	79.66 2.86 17.18	38.16
22 13 16 00-0460 No Hub Cast Iron Closet Bends (22 13 16 00-0278)		
22 13 16 00-0461 EA 4" x 16" No Hub Cast Iron Closet Bend <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	129.88 2.86 17.18	38.16
22 13 16 00-0462 No Hub Cast Iron Threaded Adapter (22 13 16 00-0278)		
22 13 16 00-0463 EA 1-1/4" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.02 2.40 14.39	32.05
22 13 16 00-0464 EA 1-1/2" No Hub Cast Iron Threaded Adapter <i>For Below Ground Installation, Add</i> <i>For Work In Restricted Working Space, Add</i>	61.12 2.40 14.39	32.05
22 13 16 00-0465 No Hub Couplings (22 13 16 00-0278)		
Note: Includes stainless steel shield/clamps assembly with elastomeric gasket, ASTM C 564. (Fernco NH).		
22 13 16 00-0466 EA 1-1/2" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	5.84 0.76 1.58	
22 13 16 00-0467 EA 2" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	5.84 0.76 1.58	
22 13 16 00-0468 EA 3" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	6.93 0.90 1.87	
22 13 16 00-0469 EA 4" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	8.23 1.07 2.22	
22 13 16 00-0470 EA 5" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	19.02 2.47 5.14	
22 13 16 00-0471 EA 6" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	20.90 2.72 5.64	
22 13 16 00-0472 EA 8" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	39.37 5.12 10.63	
22 13 16 00-0473 EA 10" No Hub Coupling <i>For Medium Duty (Fernco MD-2000), Add</i> <i>For Heavy Duty (Fernco HD-4000), Add</i>	54.24 7.05 14.64	
22 13 16 00-0474 EA 2" x 1-1/2" No Hub Reducing Coupling 22 13 16 00-0475 EA 3" x 2" No Hub Reducing Coupling 22 13 16 00-0476 EA 4" x 2" No Hub Reducing Coupling 22 13 16 00-0477 EA 4" x 3" No Hub Reducing Coupling	6.93 10.75 14.99 12.77	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 13 16 00-0478	Cast Iron Mechanical Joint Couplings With Neoprene Gasket And Bolts <small>(22 13 16 00-0278)</small> Note: For underground connections. See CSI section 22 13 16 00-0860 for additional FERNCO couplings.		
	22 13 16 00-0479 EA 1-1/2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	22.22	
	22 13 16 00-0480 EA 2" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	22.94	
	22 13 16 00-0481 EA 3" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	24.08	
	22 13 16 00-0482 EA 4" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	28.10	
	22 13 16 00-0483 EA 5" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	53.04	
	22 13 16 00-0484 EA 6" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	72.82	
	22 13 16 00-0485 EA 8" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	127.58	
	22 13 16 00-0486 EA 10" Cast Iron Mechanical Joint Coupling With Neoprene Gasket And Bolts	194.95	
22 13 16 00-0487	Cut And Prepare Existing Pipe In-Place <small>(22 13 16 00-0268)</small> Note: For use when connecting pipe to an existing in-place system.		
	22 13 16 00-0488 EA Cut And Prepare 1-1/2" Cast Iron Pipe, No Hub	8.67	
	<i>For Work In Restricted Working Space, Add</i>	2.60	
	22 13 16 00-0489 EA Cut And Prepare 2" Cast Iron Pipe, No Hub	10.60	
	<i>For Work In Restricted Working Space, Add</i>	3.18	
	22 13 16 00-0490 EA Cut And Prepare 3" Cast Iron Pipe, No Hub	11.57	
	<i>For Work In Restricted Working Space, Add</i>	3.47	
	22 13 16 00-0491 EA Cut And Prepare 4" Cast Iron Pipe, No Hub	14.46	
	<i>For Work In Restricted Working Space, Add</i>	4.34	
	22 13 16 00-0492 EA Cut And Prepare 6" Cast Iron Pipe, No Hub	17.35	
	<i>For Work In Restricted Working Space, Add</i>	5.21	
	22 13 16 00-0493 EA Cut And Prepare 8" Cast Iron Pipe, No Hub	23.13	
	<i>For Work In Restricted Working Space, Add</i>	6.94	
	22 13 16 00-0494 EA Cut And Prepare 10" Cast Iron Pipe, No Hub	26.99	
	<i>For Work In Restricted Working Space, Add</i>	8.10	
22 13 16 00-0495	Copper Drain-Waste-Vent (DWV) Pipe <small>(22 13 16 00-0436)</small> See CSI section 22 11 16 00-0436 for copper and brass fittings.		
	22 13 16 00-0496 LF 1-1/4" Hard Drawn DWV Copper Tube/Pipe	10.44	4.17
	22 13 16 00-0497 LF 1-1/2" Hard Drawn DWV Copper Tube/Pipe	12.23	4.66
	22 13 16 00-0498 LF 2" Hard Drawn DWV Copper Tube/Pipe	15.57	5.74
	22 13 16 00-0499 LF 3" Hard Drawn DWV Copper Tube/Pipe	36.00	7.96
	22 13 16 00-0500 LF 4" Hard Drawn DWV Copper Tube/Pipe	47.29	8.98
	22 13 16 00-0501 LF 5" Hard Drawn DWV Copper Tube/Pipe	82.78	10.31
	22 13 16 00-0502 LF 6" Hard Drawn DWV Copper Tube/Pipe	119.83	15.99
22 13 16 00-0503	Polyvinyl Chloride (PVC) Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 13 16 00-0503)</small> Note: Aboveground installation. See CSI section 33 31 11 00-0018 for underground installation.		
22 13 16 00-0504	Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assemblies <small>(22 13 16 00-0503)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
	22 13 16 00-0505 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	18.50	3.73
	<i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
	<i>For Work In Restricted Working Space, Add</i>	4.27	
	22 13 16 00-0506 LF 2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	20.60	4.44
	<i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
	<i>For Work In Restricted Working Space, Add</i>	4.75	
	22 13 16 00-0507 LF 3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	27.85	6.39
	<i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
	<i>For Work In Restricted Working Space, Add</i>	5.90	
	22 13 16 00-0508 LF 4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	32.49	6.92
	<i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
	<i>For Work In Restricted Working Space, Add</i>	6.45	
	22 13 16 00-0509 LF 6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	45.79	8.87
	<i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
	<i>For Work In Restricted Working Space, Add</i>	8.26	
	22 13 16 00-0510 LF 8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	56.92	11.80
	<i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
	<i>For Work In Restricted Working Space, Add</i>	9.46	
	22 13 16 00-0511 LF 10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe Assembly	77.74	15.80
	<i>Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available.</i>		
	<i>For Work In Restricted Working Space, Add</i>	12.34	
22 13 16 00-0512	Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <small>(22 13 16 00-0503)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0513	Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe (ASTM D-2665) <small>(22 13 16 00-0512)</small> Note: Excludes fittings or hangers.		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0514	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	6.40 1.66	3.73
22 13 16 00-0515	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	7.77 2.00	4.44
22 13 16 00-0516	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	11.81 2.87	6.39
22 13 16 00-0517	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	13.54 3.11	6.92
22 13 16 00-0518	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	18.49 3.85	8.57
22 13 16 00-0519	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	25.73 5.14	11.39
22 13 16 00-0520	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV Pipe <i>For Work In Restricted Working Space, Add</i>	36.01 6.85	15.24
22 13 16 00-0521			Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe (ASTM F-891) <small>(22 13 16 00-0512)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0522	LF		1-1/2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	6.14 1.66	3.73
22 13 16 00-0523	LF		2" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	7.47 2.00	4.44
22 13 16 00-0524	LF		3" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	11.23 2.87	6.39
22 13 16 00-0525	LF		4" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	12.77 3.11	6.92
22 13 16 00-0526	LF		6" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	17.05 3.85	8.57
22 13 16 00-0527	LF		8" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	23.71 5.14	11.39
22 13 16 00-0528	LF		10" Schedule 40 Polyvinyl Chloride (PVC) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	33.82 6.85	15.24
22 13 16 00-0529			Polyvinyl Chloride (PVC) DWV Fittings (ASTM D-2665) <small>(22 13 16 00-0503)</small>		
22 13 16 00-0530			Polyvinyl Chloride (PVC) DWV 1/4 Bends <small>(22 13 16 00-0529)</small>		
22 13 16 00-0531	EA		1-1/2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	24.26 6.66	14.82
22 13 16 00-0532	EA		2" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	31.03 8.52	18.91
22 13 16 00-0533	EA		3" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	46.32 11.45	25.38
22 13 16 00-0534	EA		4" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	61.69 13.31	29.56
22 13 16 00-0535	EA		6" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	163.02 17.31	38.43
22 13 16 00-0536	EA		8" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	258.08 23.30	51.75
22 13 16 00-0537	EA		10" Polyvinyl Chloride (PVC) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	341.41 31.06	68.96
22 13 16 00-0538			Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0529)</small>		
22 13 16 00-0539	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	30.07 6.66	14.82
22 13 16 00-0540	EA		2" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	34.37 8.52	18.91
22 13 16 00-0541	EA		3" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	54.91 11.45	25.38
22 13 16 00-0542	EA		4" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	77.45 13.31	29.56
22 13 16 00-0543	EA		6" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	132.58 17.31	38.43
22 13 16 00-0544	EA		8" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	218.08 23.30	51.75
22 13 16 00-0545	EA		10" Polyvinyl Chloride (PVC) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	340.69 31.06	68.96
22 13 16 00-0546			Polyvinyl Chloride (PVC) DWV 1/8 Bends <small>(22 13 16 00-0529)</small>		
22 13 16 00-0547	EA		1-1/2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	24.74 6.66	14.82
22 13 16 00-0548	EA		2" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	30.99 8.52	18.91
22 13 16 00-0549	EA		3" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	45.60 11.45	25.38
22 13 16 00-0550	EA		4" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	58.19 13.31	29.56
22 13 16 00-0551	EA		6" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	154.10 17.31	38.43



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0552	EA		8" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	237.36 23.30	51.75
22 13 16 00-0553	EA		10" Polyvinyl Chloride (PVC) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	280.47 31.06	68.96
22 13 16 00-0554			Polyvinyl Chloride (PVC) DWV Sanitary Tees <small>(22 13 16 00-0529)</small>		
22 13 16 00-0555	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	36.98 9.98	22.19
22 13 16 00-0556	EA		2" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	47.89 12.78	28.40
22 13 16 00-0557	EA		3" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	71.34 17.18	38.16
22 13 16 00-0558	EA		4" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	93.43 19.97	44.38
22 13 16 00-0559	EA		6" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	242.77 25.96	57.60
22 13 16 00-0560	EA		8" Polyvinyl Chloride (PVC) DWV Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	318.46 34.95	77.57
22 13 16 00-0561			Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <small>(22 13 16 00-0529)</small>		
22 13 16 00-0562	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	43.07 10.92	24.23
22 13 16 00-0563	EA		2" x 1-1/2" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	48.73 11.85	26.27
22 13 16 00-0564	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	44.79 11.85	26.27
22 13 16 00-0565	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	60.04 14.78	32.84
22 13 16 00-0566	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	62.64 15.71	34.88
22 13 16 00-0567	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	69.95 16.64	36.92
22 13 16 00-0568	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	94.99 17.57	39.05
22 13 16 00-0569	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	112.96 19.04	42.25
22 13 16 00-0570	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	230.97 23.96	53.16
22 13 16 00-0571	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	625.77 29.96	66.47
22 13 16 00-0572	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	649.39 31.95	70.91
22 13 16 00-0573			Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <small>(22 13 16 00-0529)</small>		
22 13 16 00-0574	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	55.52 13.31	29.56
22 13 16 00-0575	EA		2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	73.12 17.04	37.81
22 13 16 00-0576	EA		3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	122.09 22.90	50.86
22 13 16 00-0577	EA		4" Polyvinyl Chloride (PVC) DWV Double Sanitary Tees <i>For Work In Restricted Working Space, Add</i>	162.33 26.63	59.11
22 13 16 00-0578			Polyvinyl Chloride (PVC) DWV Reducing Double Sanitary Tees <small>(22 13 16 00-0529)</small>		
22 13 16 00-0579	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	65.34 15.18	33.73
22 13 16 00-0580	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	95.00 18.11	40.20
22 13 16 00-0581	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	107.61 19.97	44.38
22 13 16 00-0582	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	163.16 21.83	48.47
22 13 16 00-0583	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Sanitary Tee <i>For Work In Restricted Working Space, Add</i>	175.40 24.76	54.94
22 13 16 00-0584			Polyvinyl Chloride (PVC) DWV Reducers <small>(22 13 16 00-0529)</small>		
22 13 16 00-0585	EA		2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	29.43 7.59	16.86
22 13 16 00-0586	EA		3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	43.38 9.05	20.06
22 13 16 00-0587	EA		3" x 2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	44.34 9.98	22.19
22 13 16 00-0588	EA		4" x 2" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	58.28 10.92	24.23
22 13 16 00-0589	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	64.15 12.38	27.52
22 13 16 00-0590	EA		6" x 3" Polyvinyl Chloride (PVC) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	163.52 14.38	31.95



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0591	EA		6" x 4" Polyvinyl Chloride (PVC) DWV Reducers	143.86	34.00
			<i>For Work In Restricted Working Space, Add</i>	15.31	
22 13 16 00-0592	EA		8" x 4" Polyvinyl Chloride (PVC) DWV Reducers	315.75	40.65
			<i>For Work In Restricted Working Space, Add</i>	18.31	
22 13 16 00-0593	EA		8" x 6" Polyvinyl Chloride (PVC) DWV Reducers	277.25	45.08
			<i>For Work In Restricted Working Space, Add</i>	20.30	
22 13 16 00-0594	EA		10" x 6" Polyvinyl Chloride (PVC) DWV Reducers	365.88	53.70
			<i>For Work In Restricted Working Space, Add</i>	24.19	
22 13 16 00-0595	EA		10" x 8" Polyvinyl Chloride (PVC) DWV Reducers	304.60	60.36
			<i>For Work In Restricted Working Space, Add</i>	27.18	
22 13 16 00-0596			Polyvinyl Chloride (PVC) DWV P-Traps (22 13 16 00-0529)		
22 13 16 00-0597	EA		1-1/2" Polyvinyl Chloride (PVC) DWV P-Traps	40.52	22.19
			<i>For Work In Restricted Working Space, Add</i>	9.98	
22 13 16 00-0598	EA		2" Polyvinyl Chloride (PVC) DWV P-Traps	52.47	28.40
			<i>For Work In Restricted Working Space, Add</i>	12.78	
22 13 16 00-0599	EA		3" Polyvinyl Chloride (PVC) DWV P-Traps	106.39	38.16
			<i>For Work In Restricted Working Space, Add</i>	17.18	
22 13 16 00-0600	EA		4" Polyvinyl Chloride (PVC) DWV P-Traps	183.60	44.38
			<i>For Work In Restricted Working Space, Add</i>	19.97	
22 13 16 00-0601	EA		6" Polyvinyl Chloride (PVC) DWV P-Traps	293.46	57.60
			<i>For Work In Restricted Working Space, Add</i>	25.96	
22 13 16 00-0602			Polyvinyl Chloride (PVC) DWV Closet Flanges (22 13 16 00-0529)		
22 13 16 00-0603	EA		4" Polyvinyl Chloride (PVC) DWV Closet Flanges	58.27	29.56
			<i>For Work In Restricted Working Space, Add</i>	13.31	
22 13 16 00-0604	EA		4" x 3" Polyvinyl Chloride (PVC) DWV Closet Flanges	50.98	27.52
			<i>For Work In Restricted Working Space, Add</i>	12.38	
22 13 16 00-0605			Polyvinyl Chloride (PVC) DWV Wyes (22 13 16 00-0529)		
22 13 16 00-0606	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Wyes	40.68	22.19
			<i>For Work In Restricted Working Space, Add</i>	9.98	
22 13 16 00-0607	EA		2" Polyvinyl Chloride (PVC) DWV Wyes	50.04	28.40
			<i>For Work In Restricted Working Space, Add</i>	12.78	
22 13 16 00-0608	EA		3" Polyvinyl Chloride (PVC) DWV Wyes	74.08	38.16
			<i>For Work In Restricted Working Space, Add</i>	17.18	
22 13 16 00-0609	EA		4" Polyvinyl Chloride (PVC) DWV Wyes	97.93	44.38
			<i>For Work In Restricted Working Space, Add</i>	19.97	
22 13 16 00-0610	EA		6" Polyvinyl Chloride (PVC) DWV Wyes	225.90	57.60
			<i>For Work In Restricted Working Space, Add</i>	25.96	
22 13 16 00-0611	EA		8" Polyvinyl Chloride (PVC) DWV Wyes	286.41	77.57
			<i>For Work In Restricted Working Space, Add</i>	34.95	
22 13 16 00-0612	EA		10" Polyvinyl Chloride (PVC) DWV Wyes	378.28	103.40
			<i>For Work In Restricted Working Space, Add</i>	46.60	
22 13 16 00-0613			Polyvinyl Chloride (PVC) DWV Reducing Wyes (22 13 16 00-0529)		
22 13 16 00-0614	EA		2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	49.60	24.23
			<i>For Work In Restricted Working Space, Add</i>	10.92	
22 13 16 00-0615	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	52.59	26.27
			<i>For Work In Restricted Working Space, Add</i>	11.85	
22 13 16 00-0616	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	69.83	32.84
			<i>For Work In Restricted Working Space, Add</i>	14.78	
22 13 16 00-0617	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	65.38	34.88
			<i>For Work In Restricted Working Space, Add</i>	15.71	
22 13 16 00-0618	EA		4" x 4" x 1-1/2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	88.12	36.92
			<i>For Work In Restricted Working Space, Add</i>	16.64	
22 13 16 00-0619	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Reducing Wyes	83.77	39.05
			<i>For Work In Restricted Working Space, Add</i>	17.57	
22 13 16 00-0620	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes	92.87	42.25
			<i>For Work In Restricted Working Space, Add</i>	19.04	
22 13 16 00-0621	EA		6" x 6" x 3" Polyvinyl Chloride (PVC) DWV Reducing Wyes	203.20	51.12
			<i>For Work In Restricted Working Space, Add</i>	23.03	
22 13 16 00-0622	EA		6" x 6" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes	241.57	53.16
			<i>For Work In Restricted Working Space, Add</i>	23.96	
22 13 16 00-0623	EA		8" x 8" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes	245.48	66.47
			<i>For Work In Restricted Working Space, Add</i>	29.96	
22 13 16 00-0624	EA		8" x 8" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes	297.06	70.91
			<i>For Work In Restricted Working Space, Add</i>	31.95	
22 13 16 00-0625	EA		10" x 10" x 4" Polyvinyl Chloride (PVC) DWV Reducing Wyes	289.82	83.70
			<i>For Work In Restricted Working Space, Add</i>	37.72	
22 13 16 00-0626	EA		10" x 10" x 6" Polyvinyl Chloride (PVC) DWV Reducing Wyes	345.27	88.14
			<i>For Work In Restricted Working Space, Add</i>	39.72	
22 13 16 00-0627	EA		10" x 10" x 8" Polyvinyl Chloride (PVC) DWV Reducing Wyes	394.22	94.79
			<i>For Work In Restricted Working Space, Add</i>	42.71	
22 13 16 00-0628			Polyvinyl Chloride (PVC) DWV Double Wyes (22 13 16 00-0529)		
22 13 16 00-0629	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes	60.14	29.56
			<i>For Work In Restricted Working Space, Add</i>	13.31	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0630	EA		2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	77.06 17.04	37.81
22 13 16 00-0631	EA		3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	128.66 22.90	50.86
22 13 16 00-0632	EA		4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	194.84 26.63	59.11
22 13 16 00-0633	EA		6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	355.63 34.61	76.86
22 13 16 00-0634	EA		8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	426.48 46.60	103.49
22 13 16 00-0635	EA		10" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	639.15 62.12	137.93
22 13 16 00-0636			Polyvinyl Chloride (PVC) DWV Reducing Double Wyes (22 13 16 00-0529)		
22 13 16 00-0637	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	69.09 15.18	33.73
22 13 16 00-0638	EA		3" x 3" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	106.27 18.11	40.20
22 13 16 00-0639	EA		3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	105.53 19.97	44.38
22 13 16 00-0640	EA		4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	136.37 21.83	48.47
22 13 16 00-0641	EA		4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	166.54 24.76	54.94
22 13 16 00-0642	EA		6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	240.03 30.62	67.98
22 13 16 00-0643	EA		8" x 8" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	282.69 36.61	81.31
22 13 16 00-0644	EA		8" x 8" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	346.56 40.61	90.18
22 13 16 00-0645	EA		10" x 10" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	369.41 44.38	98.52
22 13 16 00-0646	EA		10" x 10" x 6" x 6" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	459.21 48.37	107.39
22 13 16 00-0647	EA		10" x 10" x 8" x 8" Polyvinyl Chloride (PVC) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	546.20 54.36	120.70
22 13 16 00-0648			Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends (22 13 16 00-0529)		
22 13 16 00-0649	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	45.30 9.98	22.19
22 13 16 00-0650	EA		2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	57.24 12.78	28.40
22 13 16 00-0651	EA		3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	95.73 17.18	38.16
22 13 16 00-0652	EA		4" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	146.47 19.97	44.38
22 13 16 00-0653			Polyvinyl Chloride (PVC) DWV Reducing Combination Wye And 1/8 Bends (22 13 16 00-0529)		
22 13 16 00-0654	EA		2" x 2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	69.82 11.85	26.27
22 13 16 00-0655	EA		3" x 3" x 1-1/2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	101.94 14.78	32.84
22 13 16 00-0656	EA		3" x 3" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	85.29 15.71	34.88
22 13 16 00-0657	EA		4" x 4" x 2" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	131.82 17.57	39.05
22 13 16 00-0658	EA		4" x 4" x 3" Polyvinyl Chloride (PVC) DWV Combination Wye And 1/8 Bends..... <i>For Work In Restricted Working Space, Add</i>	142.79 19.04	42.25
22 13 16 00-0659			Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends (22 13 16 00-0529)		
22 13 16 00-0660	EA		1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	63.72 13.31	29.56
22 13 16 00-0661	EA		2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	77.46 17.04	37.81
22 13 16 00-0662	EA		3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	112.22 22.90	50.86
22 13 16 00-0663	EA		4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	277.85 26.63	59.11
22 13 16 00-0664	EA		6" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	801.87 34.61	76.86
22 13 16 00-0665			Polyvinyl Chloride (PVC) DWV Reducing Double Combination Wye And 1/8 Bends (22 13 16 00-0529)		
22 13 16 00-0666	EA		2" x 2" x 1-1/2" x 1-1/2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	113.87 15.18	33.73



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0667 EA 3" x 3" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends .....173.78		44.38
<i>For Work In Restricted Working Space, Add</i>	19.97	
22 13 16 00-0668 EA 4" x 4" x 2" x 2" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends .....272.58		48.47
<i>For Work In Restricted Working Space, Add</i>	21.83	
22 13 16 00-0669 EA 4" x 4" x 3" x 3" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends .....257.40		54.94
<i>For Work In Restricted Working Space, Add</i>	24.76	
22 13 16 00-0670 EA 6" x 6" x 4" x 4" Polyvinyl Chloride (PVC) DWV Double Combination Wye And 1/8 Bends .....550.55		67.98
<i>For Work In Restricted Working Space, Add</i>	30.62	
22 13 16 00-0671 Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug (22 13 16 00-0529)		
22 13 16 00-0672 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....77.82		28.40
<i>For Work In Restricted Working Space, Add</i>	12.78	
22 13 16 00-0673 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....124.54		38.16
<i>For Work In Restricted Working Space, Add</i>	17.18	
22 13 16 00-0674 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....183.62		44.38
<i>For Work In Restricted Working Space, Add</i>	19.97	
22 13 16 00-0675 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....426.65		57.60
<i>For Work In Restricted Working Space, Add</i>	25.96	
22 13 16 00-0676 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....539.94		77.57
<i>For Work In Restricted Working Space, Add</i>	34.95	
22 13 16 00-0677 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Tees With Plug .....716.99		103.40
<i>For Work In Restricted Working Space, Add</i>	46.60	
22 13 16 00-0678 Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug (22 13 16 00-0529)		
22 13 16 00-0679 EA 1-1/2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....28.28		14.82
<i>For Work In Restricted Working Space, Add</i>	6.66	
22 13 16 00-0680 EA 2" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....38.23		18.91
<i>For Work In Restricted Working Space, Add</i>	8.52	
22 13 16 00-0681 EA 3" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....53.28		25.38
<i>For Work In Restricted Working Space, Add</i>	11.45	
22 13 16 00-0682 EA 4" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....79.91		29.56
<i>For Work In Restricted Working Space, Add</i>	13.31	
22 13 16 00-0683 EA 6" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....155.22		38.43
<i>For Work In Restricted Working Space, Add</i>	17.31	
22 13 16 00-0684 EA 8" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....315.48		51.75
<i>For Work In Restricted Working Space, Add</i>	23.30	
22 13 16 00-0685 EA 10" Polyvinyl Chloride (PVC) DWV Cleanout Adapters With Plug .....555.90		68.96
<i>For Work In Restricted Working Space, Add</i>	31.05	
22 13 16 00-0686 Polyvinyl Chloride (PVC) Couplings (22 13 16 00-0529)		
22 13 16 00-0687 EA 1-1/2" Polyvinyl Chloride (PVC) Couplings .....23.99		14.82
<i>For Work In Restricted Working Space, Add</i>	6.66	
22 13 16 00-0688 EA 2" Polyvinyl Chloride (PVC) Couplings .....30.43		18.91
<i>For Work In Restricted Working Space, Add</i>	8.52	
22 13 16 00-0689 EA 3" Polyvinyl Chloride (PVC) Couplings .....43.35		25.38
<i>For Work In Restricted Working Space, Add</i>	11.45	
22 13 16 00-0690 EA 4" Polyvinyl Chloride (PVC) Couplings .....52.90		29.56
<i>For Work In Restricted Working Space, Add</i>	13.31	
22 13 16 00-0691 EA 6" Polyvinyl Chloride (PVC) Couplings .....104.73		38.43
<i>For Work In Restricted Working Space, Add</i>	17.31	
22 13 16 00-0692 EA 8" Polyvinyl Chloride (PVC) Couplings .....213.55		51.75
<i>For Work In Restricted Working Space, Add</i>	23.30	
22 13 16 00-0693 EA 10" Polyvinyl Chloride (PVC) Couplings .....314.13		68.96
<i>For Work In Restricted Working Space, Add</i>	31.07	
22 13 16 00-0694 Polyvinyl Chloride (PVC) Male Adapters (22 13 16 00-0529)		
22 13 16 00-0695 EA 1-1/2" Polyvinyl Chloride (PVC) Male Adapters .....12.93		7.36
22 13 16 00-0696 EA 2" Polyvinyl Chloride (PVC) Male Adapters .....18.69		9.50
22 13 16 00-0697 EA 3" Polyvinyl Chloride (PVC) Male Adapters .....31.55		12.69
22 13 16 00-0698 EA 4" Polyvinyl Chloride (PVC) Male Adapters .....50.74		14.82
22 13 16 00-0699 Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe (22 13 16 00-0503)		
<i>Note: In place piping.</i>		
22 13 16 00-0700 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe .....6.51		
22 13 16 00-0701 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe .....7.16		
22 13 16 00-0702 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe .....9.11		
22 13 16 00-0703 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe .....12.29		
22 13 16 00-0704 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe .....17.56		
22 13 16 00-0705 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe .....23.42		
22 13 16 00-0706 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) DWV Pipe .....28.63		
22 13 16 00-0707 Acrylonitrile Butadiene Styrene (ABS) Drain-Waste-Vent (DWV) Pipe And Fittings (22 13 16)		
<i>Note: Aboveground installation.</i>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0708 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assemblies <small>(22 13 16 00-0707)</small> Note: Includes all hangers and couplings, elbow, tee and reducer fittings. All hangers are complete assemblies installed in accordance with uniform plumbing code. Not for use where detail is available.		
22 13 16 00-0709 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	18.84 5.11	3.73
22 13 16 00-0710 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	20.88 5.65	4.44
22 13 16 00-0711 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	27.12 7.02	6.39
22 13 16 00-0712 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	30.65 7.80	6.92
22 13 16 00-0713 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV Pipe Assembly Note: Includes all fittings, couplings and hangers. Fittings are assumed every 10'. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	45.79 10.38	8.87
22 13 16 00-0714 Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe (ASTM F-628) <small>(22 13 16 00-0707)</small> Note: Excludes fittings or hangers.		
22 13 16 00-0715 LF 1-1/2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	6.54 1.66	3.73
22 13 16 00-0716 LF 2" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	7.99 2.00	4.44
22 13 16 00-0717 LF 3" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	12.32 2.87	6.39
22 13 16 00-0718 LF 4" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	14.31 3.11	6.92
22 13 16 00-0719 LF 6" Schedule 40 Acrylonitrile Butadiene Styrene (ABS) DWV "Foam-Core" Pipe <i>For Work In Restricted Working Space, Add</i>	20.90 3.85	8.57
22 13 16 00-0720 Acrylonitrile Butadiene Styrene (ABS) DWV Fittings (ASTM D-2661) <small>(22 13 16 00-0707)</small>		
22 13 16 00-0721 Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <small>(22 13 16 00-0720)</small>		
22 13 16 00-0722 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	26.43 6.66	14.82
22 13 16 00-0723 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	34.45 8.52	18.91
22 13 16 00-0724 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	56.83 11.45	25.38
22 13 16 00-0725 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	80.96 13.31	29.56
22 13 16 00-0726 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	194.22 17.31	38.43
22 13 16 00-0727 Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <small>(22 13 16 00-0720)</small>		
22 13 16 00-0728 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	32.30 6.66	14.82
22 13 16 00-0729 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	40.18 8.52	18.91
22 13 16 00-0730 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	71.06 11.45	25.38
22 13 16 00-0731 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Long Sweep 1/4 Bends <i>For Work In Restricted Working Space, Add</i>	109.28 13.31	29.56
22 13 16 00-0732 Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <small>(22 13 16 00-0720)</small>		
22 13 16 00-0733 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	27.23 6.66	14.82
22 13 16 00-0734 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	33.89 8.52	18.91
22 13 16 00-0735 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	53.91 11.45	25.38
22 13 16 00-0736 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	75.57 13.31	29.56
22 13 16 00-0737 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	199.91 17.31	38.43
22 13 16 00-0738 Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees <small>(22 13 16 00-0720)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0739 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	40.50 9.98	22.19
22 13 16 00-0740 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	53.46 12.78	28.40
22 13 16 00-0741 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	84.92 17.18	38.16
22 13 16 00-0742 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	119.72 19.97	44.38
22 13 16 00-0743 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	374.66 25.96	57.60
22 13 16 00-0744 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees (22 13 16 00-0720)		
22 13 16 00-0745 EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	47.91 10.92	24.23
22 13 16 00-0746 EA 2" x 1-1/2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	55.67 11.85	26.27
22 13 16 00-0747 EA 2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	49.91 11.85	26.27
22 13 16 00-0748 EA 3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	70.39 14.78	32.84
22 13 16 00-0749 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	73.69 15.71	34.88
22 13 16 00-0750 EA 4" x 4" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	132.08 16.64	36.92
22 13 16 00-0751 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	130.09 17.57	39.05
22 13 16 00-0752 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	147.32 19.04	42.25
22 13 16 00-0753 EA 6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	402.02 23.96	53.16
22 13 16 00-0754 Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees (22 13 16 00-0720)		
22 13 16 00-0755 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	66.32 13.31	29.56
22 13 16 00-0756 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	88.82 17.04	37.81
22 13 16 00-0757 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	166.26 22.90	50.86
22 13 16 00-0758 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	232.89 26.63	59.11
22 13 16 00-0759 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Sanitary Tees (22 13 16 00-0720)		
22 13 16 00-0760 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	75.48 15.18	33.73
22 13 16 00-0761 EA 3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	106.19 18.11	40.20
22 13 16 00-0762 EA 3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	120.80 19.97	44.38
22 13 16 00-0763 EA 4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes..... <i>For Work In Restricted Working Space, Add</i>	189.68 21.07	46.77
22 13 16 00-0764 EA 4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Sanitary Tees..... <i>For Work In Restricted Working Space, Add</i>	202.39 23.90	53.02
22 13 16 00-0765 Acrylonitrile Butadiene Styrene (ABS) DWV Wyes (22 13 16 00-0720)		
22 13 16 00-0766 EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	47.82 9.98	22.19
22 13 16 00-0767 EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	57.53 12.78	28.40
22 13 16 00-0768 EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	90.30 17.18	38.16
22 13 16 00-0769 EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	128.14 19.97	44.38
22 13 16 00-0770 EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Wyes..... <i>For Work In Restricted Working Space, Add</i>	312.45 25.96	57.60
22 13 16 00-0771 Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes (22 13 16 00-0720)		
22 13 16 00-0772 EA 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	62.34 10.92	24.23
22 13 16 00-0773 EA 2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	65.18 11.85	26.27
22 13 16 00-0774 EA 3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	78.05 15.71	34.88
22 13 16 00-0775 EA 4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	108.05 17.57	39.05
22 13 16 00-0776 EA 4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes..... <i>For Work In Restricted Working Space, Add</i>	121.25 19.04	42.25



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0777	EA		6" x 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Wyes <i>For Work In Restricted Working Space, Add</i>	266.53 23.96	53.16
22 13 16 00-0778			Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes (22 13 16 00-0720)		
22 13 16 00-0779	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	75.31 13.31	29.56
22 13 16 00-0780	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	96.59 17.04	37.81
22 13 16 00-0781	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	179.18 22.90	50.86
22 13 16 00-0782	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	297.10 26.63	59.11
22 13 16 00-0783			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Wyes (22 13 16 00-0720)		
22 13 16 00-0784	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	86.93 15.18	33.73
22 13 16 00-0785	EA		3" x 3" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	132.91 18.11	40.20
22 13 16 00-0786	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	142.93 19.97	44.38
22 13 16 00-0787	EA		4" x 4" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	197.70 21.83	48.47
22 13 16 00-0788	EA		4" x 4" x 3" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Wyes <i>For Work In Restricted Working Space, Add</i>	247.54 24.76	54.94
22 13 16 00-0789			Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bend (22 13 16 00-0720)		
22 13 16 00-0790	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	56.51 9.98	22.19
22 13 16 00-0791	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	72.79 12.78	28.40
22 13 16 00-0792	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	106.99 17.18	38.16
22 13 16 00-0793	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	161.89 19.27	42.82
22 13 16 00-0794			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Combination Wye And 1/8 Bend (22 13 16 00-0720)		
22 13 16 00-0795	EA		2" x 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	63.95 11.85	26.27
22 13 16 00-0796	EA		3" x 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	107.15 14.78	32.84
22 13 16 00-0797	EA		3" x 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	88.55 15.71	34.88
22 13 16 00-0798	EA		4" x 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	139.16 17.57	39.05
22 13 16 00-0799	EA		4" x 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	150.72 19.04	42.25
22 13 16 00-0800			Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bend (22 13 16 00-0720)		
22 13 16 00-0801	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	111.46 17.04	37.81
22 13 16 00-0802	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	202.38 22.90	50.86
22 13 16 00-0803			Acrylonitrile Butadiene Styrene (ABS) DWV Reducing Double Combination Wye And 1/8 Bend (22 13 16 00-0720)		
22 13 16 00-0804	EA		2" x 2" x 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	94.57 15.18	33.73
22 13 16 00-0805	EA		3" x 3" x 2" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Double Combination Wye And 1/8 Bends <i>For Work In Restricted Working Space, Add</i>	190.47 19.97	44.38
22 13 16 00-0806			Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug (22 13 16 00-0720)		
22 13 16 00-0807	EA		1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	60.60 9.98	22.19
22 13 16 00-0808	EA		2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	76.88 12.78	28.40
22 13 16 00-0809	EA		3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	116.14 17.18	38.16
22 13 16 00-0810	EA		4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Tees With Plug <i>For Work In Restricted Working Space, Add</i>	176.64 19.97	44.38



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 16 00-0811	Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <small>(22 13 16 00-0720)</small>		
22 13 16 00-0812	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	31.56 6.66	14.82
22 13 16 00-0813	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	43.52 8.52	18.91
22 13 16 00-0814	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	61.39 11.45	25.38
22 13 16 00-0815	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	99.07 13.31	29.56
22 13 16 00-0816	EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Cleanout Adapters With Plug <i>For Work In Restricted Working Space, Add</i>	207.83 17.31	38.43
22 13 16 00-0817	Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <small>(22 13 16 00-0720)</small>		
22 13 16 00-0818	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	25.42 6.66	14.82
22 13 16 00-0819	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	31.80 8.52	18.91
22 13 16 00-0820	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	47.42 11.45	25.38
22 13 16 00-0821	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	59.65 13.31	29.56
22 13 16 00-0822	EA 6" Acrylonitrile Butadiene Styrene (ABS) DWV Couplings <i>For Work In Restricted Working Space, Add</i>	133.15 17.31	38.43
22 13 16 00-0823	Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <small>(22 13 16 00-0720)</small>		
22 13 16 00-0824	EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	33.47 7.59	16.86
22 13 16 00-0825	EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	56.12 9.05	20.06
22 13 16 00-0826	EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	55.04 9.98	22.19
22 13 16 00-0827	EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	79.30 10.92	24.23
22 13 16 00-0828	EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Reducers <i>For Work In Restricted Working Space, Add</i>	86.17 12.38	27.52
22 13 16 00-0829	Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <small>(22 13 16 00-0720)</small>		
22 13 16 00-0830	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	49.15 9.98	22.19
22 13 16 00-0831	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	68.28 12.78	28.40
22 13 16 00-0832	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	174.88 17.18	38.16
22 13 16 00-0833	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV P-Traps <i>For Work In Restricted Working Space, Add</i>	307.56 19.97	44.38
22 13 16 00-0834	Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <small>(22 13 16 00-0720)</small>		
22 13 16 00-0835	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	66.53 13.31	29.56
22 13 16 00-0836	EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Closet Flanges <i>For Work In Restricted Working Space, Add</i>	62.05 12.38	27.52
22 13 16 00-0837	Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <small>(22 13 16 00-0720)</small>		
22 13 16 00-0838	EA 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	15.22 3.33	7.36
22 13 16 00-0839	EA 2" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	21.50 4.26	9.50
22 13 16 00-0840	EA 3" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	40.36 5.73	12.69
22 13 16 00-0841	EA 4" Acrylonitrile Butadiene Styrene (ABS) DWV Male Adapters <i>For Work In Restricted Working Space, Add</i>	69.25 6.66	14.82
22 13 16 00-0842	Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushings <small>(22 13 16 00-0720)</small>		
22 13 16 00-0843	EA 2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	28.69 7.59	16.86
22 13 16 00-0844	EA 3" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	48.53 9.05	20.06
22 13 16 00-0845	EA 3" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	44.95 9.98	22.19
22 13 16 00-0846	EA 4" x 2" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	78.71 10.92	24.23
22 13 16 00-0847	EA 4" x 3" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	65.80 12.38	27.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0848 EA 6" x 4" Acrylonitrile Butadiene Styrene (ABS) DWV Flush Bushing <i>For Work In Restricted Working Space, Add</i>	145.41 14.77	32.80
22 13 16 00-0849 Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Couplings <small>(22 13 16 00-0720)</small>		
22 13 16 00-0850 EA 1-1/2" x 1-1/2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	52.03 6.66	14.82
22 13 16 00-0851 EA 2" x 2" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	60.23 8.52	18.91
22 13 16 00-0852 EA 3" x 3" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	71.98 11.45	25.38
22 13 16 00-0853 EA 4" x 4" Acrylonitrile Butadiene Styrene (ABS) To Polyvinyl Chloride (PVC) Flexible Coupling <i>For Work In Restricted Working Space, Add</i>	80.19 13.31	29.56
22 13 16 00-0854 Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe <small>(22 13 16 00-0707)</small> Note: In place piping.		
22 13 16 00-0855 EA 1-1/2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	6.51	
22 13 16 00-0856 EA 2", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	7.16	
22 13 16 00-0857 EA 3", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	9.11	
22 13 16 00-0858 EA 4", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	12.29	
22 13 16 00-0859 EA 6", Cut And Prepare Existing Acrylonitrile Butadiene Styrene (ABS) DWV Pipe.....	17.56	
22 13 16 00-0860 Elastomeric Flexible Pipe Couplings <small>(22 13 16)</small>		
22 13 16 00-0861 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Couplings <small>(22 13 16 00-0860)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0862 EA 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-125).....	13.20	3.85
22 13 16 00-0863 EA 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-150).....	14.28	4.09
22 13 16 00-0864 EA 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-22).....	14.99	4.33
22 13 16 00-0865 EA 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-33).....	17.68	4.58
22 13 16 00-0866 EA 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-44).....	20.30	4.82
22 13 16 00-0867 EA 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-55).....	26.84	5.06
22 13 16 00-0868 EA 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-66).....	33.43	5.30
22 13 16 00-0869 EA 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-88).....	46.68	5.78
22 13 16 00-0870 EA 10" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Pipe Coupling (Fernco 1056-1010).....	62.31	6.75
22 13 16 00-0871 Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Couplings <small>(22 13 16 00-0860)</small> Note: For cast iron or plastic to cast iron or plastic pipe (Cast Iron/Plastic To Cast Iron/Plastic). Includes stainless steel clamps.		
22 13 16 00-0872 EA 1-1/2" x 1-1/4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-150/125).....	14.07	4.09
22 13 16 00-0873 EA 2" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-215).....	15.35	4.33
22 13 16 00-0874 EA 3" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-315).....	19.44	4.58
22 13 16 00-0875 EA 3" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-32).....	17.03	4.58
22 13 16 00-0876 EA 4" x 1-1/2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-415).....	24.63	4.82
22 13 16 00-0877 EA 4" x 2" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-42).....	23.41	4.82
22 13 16 00-0878 EA 4" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-43).....	21.12	4.82
22 13 16 00-0879 EA 5" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-53).....	32.21	5.06
22 13 16 00-0880 EA 5" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-54).....	28.71	5.06
22 13 16 00-0881 EA 6" x 3" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-63).....	40.64	5.30
22 13 16 00-0882 EA 6" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-64).....	35.42	5.30
22 13 16 00-0883 EA 6" x 5" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-65).....	36.87	5.30
22 13 16 00-0884 EA 8" x 4" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-84).....	73.02	9.63
22 13 16 00-0885 EA 8" x 6" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-86).....	58.54	9.63
22 13 16 00-0886 EA 10" x 8" Cast Iron/Plastic To Cast Iron/Plastic, Elastomeric Flexible Reducing Pipe Coupling (Fernco 1056-10-8).....	75.14	10.84
22 13 16 00-0887 Elastomeric Flexible Pipe Caps (Fernco QC) <small>(22 13 16)</small> Note: For cast iron, steel, copper or plastic pipe. Includes stainless steel clamp.		
22 13 16 00-0888 EA 1-1/2" Elastomeric Flexible Pipe Cap (Fernco QC-101).....	44.37	26.03
22 13 16 00-0889 EA 2" Elastomeric Flexible Pipe Cap (Fernco QC-102).....	47.78	27.66
22 13 16 00-0890 EA 3" Elastomeric Flexible Pipe Cap (Fernco QC-103).....	55.56	31.71
22 13 16 00-0891 EA 4" Elastomeric Flexible Pipe Cap (Fernco QC-104).....	73.20	41.93
22 13 16 00-0892 EA 5" Elastomeric Flexible Pipe Cap (Fernco QC-105).....	87.88	50.12
22 13 16 00-0893 EA 6" Elastomeric Flexible Pipe Cap (Fernco QC-106).....	100.77	57.83
22 13 16 00-0894 EA 8" Elastomeric Flexible Pipe Cap (Fernco QC-108).....	138.22	73.25
22 13 16 00-0895 EA 10" Elastomeric Flexible Pipe Cap (Fernco QC-110).....	175.41	81.93
22 13 16 00-0896 EA 12" Elastomeric Flexible Pipe Cap (Fernco QC-112).....	231.02	91.08
22 13 16 00-0897 Seamless Pipe Vent Flashing For Multiple Pipe <small>(22 13 16)</small> Note: Elmdor/Stoneman #910.		
22 13 16 00-0898 EA Multi Flash Assembly; Elmdor/Stoneman #910-6 STD - 4 LB.....	358.09	101.21
22 13 16 00-0899 EA Multi Flash Assembly; Elmdor/Stoneman #910-6 STD - 6 LB.....	371.22	101.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 16 00-0900 EA Multi Flash Assembly; Elmdor/Stoneman #910-8 SK - 4 LB	403.73	118.07
22 13 16 00-0901 EA Multi Flash Assembly; Elmdor/Stoneman #910-8 SK - 6 LB	422.16	118.07
22 13 16 00-0902 EA Multi Flash Assembly; Elmdor/Stoneman #910-10 SK - 4 LB	459.41	137.34
22 13 16 00-0903 EA Multi Flash Assembly; Elmdor/Stoneman #910-10 SK - 6 LB	484.52	137.34
22 13 16 00-0904 Cast Iron Vent Stack Flashing Sleeves With Caulking Recess (Josam 26450 Series) (22 13 16)		
22 13 16 00-0905 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	84.81	19.97
22 13 16 00-0906 EA 2" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	89.25	22.19
22 13 16 00-0907 EA 3" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	134.61	28.85
22 13 16 00-0908 EA 4" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	157.92	33.28
22 13 16 00-0909 EA 5" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	184.41	37.72
22 13 16 00-0910 EA 6" Cast Iron Vent Stack Flashing Sleeves With Caulking Recess	315.07	42.16
22 13 16 00-0911 Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess (Josam 26440 Series) (22 13 16)		
22 13 16 00-0912 EA 1-1/2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	147.44	19.97
22 13 16 00-0913 EA 2" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	151.88	22.19
22 13 16 00-0914 EA 3" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	181.26	28.85
22 13 16 00-0915 EA 4" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	225.96	33.28
22 13 16 00-0916 EA 5" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	306.50	37.72
22 13 16 00-0917 EA 6" Cast Iron Vent Stack Flashing Sleeves With Counterflashing Recess	315.37	42.16
22 13 16 00-0918 Cast Iron Vandal Proof Hooded Vent Cap (Josam 26700 Series) (22 13 16)		
Note: Includes counterflashing collar, deep protective hood and recessed securing screws.		
22 13 16 00-0919 EA 1-1/2" Cast Iron Vandal Proof Hooded Vent Cap	276.35	19.97
22 13 16 00-0920 EA 2" Cast Iron Vandal Proof Hooded Vent Cap	280.79	22.19
22 13 16 00-0921 EA 3" Cast Iron Vandal Proof Hooded Vent Cap	323.65	28.85
22 13 16 00-0922 EA 4" Cast Iron Vandal Proof Hooded Vent Cap	364.55	33.28
22 13 16 00-0923 EA 5" Cast Iron Vandal Proof Hooded Vent Cap	425.14	37.72
22 13 16 00-0924 EA 6" Cast Iron Vandal Proof Hooded Vent Cap	464.79	42.16
22 13 19 Sanitary Waste Piping Specialties (22 13)		
22 13 19 13 Sanitary Drains (22 13 19)		
22 13 19 13-0001 Round Top Floor Drains (22 13 19 13)		
22 13 19 13-0002 EA Bronze Top, 6" Round Top Floor Drain With 1-1/2" Outlet	615.25	95.41
For Sediment Bucket, Add	22.50	
For Galvanized Cast Iron Parts, Add	105.00	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0003 EA Bronze Top, 6" Round Top Floor Drain With 2" Outlet	676.28	106.95
For Sediment Bucket, Add	22.50	
For Galvanized Cast Iron Parts, Add	105.00	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0004 EA Bronze Top, 6" Round Top Floor Drain With 3" Outlet	661.14	118.31
For Sediment Bucket, Add	22.50	
For Galvanized Cast Iron Parts, Add	105.00	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0005 EA Bronze Top, 6" Round Top Floor Drain With 4" Outlet	685.51	130.56
For Sediment Bucket, Add	22.50	
For Galvanized Cast Iron Parts, Add	105.00	
For Vandal Proof Screws, Add	11.00	
22 13 19 13-0006 EA Cast Iron Top, 9" Round Top Floor Drain With 2" Outlet	618.77	106.95
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	
22 13 19 13-0007 EA Cast Iron Top, 9" Round Top Floor Drain With 3" Outlet	641.58	118.31
For Galvanized Cast Iron Parts, Add	87.50	
For Vandal Proof Screws, Add	30.50	
For Ductile Iron Grate, Add	48.00	
For Cast Iron Dome Grate, Add	17.00	
For Nikaloy Dome Grate, Add	178.50	
For Bronze Dome Grate, Add	143.00	
For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
For Galvanized Extension Collar, Each 3", Add	117.50	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22	13	19	13-0008	EA Cast Iron Top, 9" Round Top Floor Drain With 4" Outlet.....	665.95	130.56
				For Galvanized Cast Iron Parts, Add	87.50	
				For Vandal Proof Screws, Add	30.50	
				For Ductile Iron Grate, Add	48.00	
				For Cast Iron Dome Grate, Add	17.00	
				For Nikaloy Dome Grate, Add	178.50	
				For Bronze Dome Grate, Add	143.00	
				For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
				For Galvanized Extension Collar, Each 3", Add	117.50	
22	13	19	13-0009	EA Nikaloy Top, 9" Round Top Floor Drain With 2" Outlet.....	1,021.72	106.95
				For Galvanized Cast Iron Parts, Add	87.50	
				For Vandal Proof Screws, Add	30.50	
				For Ductile Iron Grate, Add	48.00	
				For Cast Iron Dome Grate, Add	17.00	
				For Nikaloy Dome Grate, Add	178.50	
				For Bronze Dome Grate, Add	143.00	
				For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
				For Galvanized Extension Collar, Each 3", Add	117.50	
22	13	19	13-0010	EA Nikaloy Top, 9" Round Top Floor Drain With 3" Outlet.....	1,044.53	118.31
				For Galvanized Cast Iron Parts, Add	87.50	
				For Vandal Proof Screws, Add	30.50	
				For Ductile Iron Grate, Add	48.00	
				For Cast Iron Dome Grate, Add	17.00	
				For Nikaloy Dome Grate, Add	178.50	
				For Bronze Dome Grate, Add	143.00	
				For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
				For Galvanized Extension Collar, Each 3", Add	117.50	
22	13	19	13-0011	EA Nikaloy Top, 9" Round Top Floor Drain With 4" Outlet.....	1,068.90	130.56
				For Galvanized Cast Iron Parts, Add	87.50	
				For Vandal Proof Screws, Add	30.50	
				For Ductile Iron Grate, Add	48.00	
				For Cast Iron Dome Grate, Add	17.00	
				For Nikaloy Dome Grate, Add	178.50	
				For Bronze Dome Grate, Add	143.00	
				For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
				For Galvanized Extension Collar, Each 3", Add	117.50	
22	13	19	13-0012	EA Bronze Top, 9" Round Top Floor Drain With 2" Outlet.....	963.04	106.95
				For Galvanized Cast Iron Parts, Add	87.50	
				For Vandal Proof Screws, Add	30.50	
				For Ductile Iron Grate, Add	48.00	
				For Cast Iron Dome Grate, Add	17.00	
				For Nikaloy Dome Grate, Add	178.50	
				For Bronze Dome Grate, Add	143.00	
				For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
				For Galvanized Extension Collar, Each 3", Add	117.50	
22	13	19	13-0013	EA Bronze Top, 9" Round Top Floor Drain With 3" Outlet.....	985.73	118.31
				For Galvanized Cast Iron Parts, Add	87.50	
				For Vandal Proof Screws, Add	30.50	
				For Ductile Iron Grate, Add	48.00	
				For Cast Iron Dome Grate, Add	17.00	
				For Nikaloy Dome Grate, Add	178.50	
				For Bronze Dome Grate, Add	143.00	
				For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
				For Galvanized Extension Collar, Each 3", Add	117.50	
22	13	19	13-0014	EA Bronze Top, 9" Round Top Floor Drain With 4" Outlet.....	1,010.22	130.56
				For Galvanized Cast Iron Parts, Add	87.50	
				For Vandal Proof Screws, Add	30.50	
				For Ductile Iron Grate, Add	48.00	
				For Cast Iron Dome Grate, Add	17.00	
				For Nikaloy Dome Grate, Add	178.50	
				For Bronze Dome Grate, Add	143.00	
				For Cast Iron Extension Collar, Each 3" (76 mm), Add	57.50	
				For Galvanized Extension Collar, Each 3", Add	117.50	
22	13	19	13-0015	EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,056.83	106.86
				For Primer Tap, Add	33.50	
				For Chained Grate, Add	48.50	
				For Vandal Proof Screws, Add	30.50	
				For Ductile Iron Grate, Add	53.00	
				For Cast Iron Dome Grate, Add	28.00	
				For Nikaloy Dome Grate, Add	255.00	
				For Bronze Dome Grate, Add	218.50	
				For Cast Iron Extension Collar, Each 2", Add	51.00	
				For Galvanized Extension Collar, Each 2", Add	102.50	
				For Galvanized Cast Iron Parts, Add	132.00	
22	13	19	13-0016	EA Cast Iron Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	1,079.62	118.31
				For Primer Tap, Add	33.50	
				For Chained Grate, Add	48.50	
				For Vandal Proof Screws, Add	30.50	
				For Ductile Iron Grate, Add	53.00	
				For Cast Iron Dome Grate, Add	28.00	
				For Nikaloy Dome Grate, Add	255.00	
				For Bronze Dome Grate, Add	218.50	
				For Cast Iron Extension Collar, Each 2", Add	51.00	
				For Galvanized Extension Collar, Each 2", Add	102.50	
				For Galvanized Cast Iron Parts, Add	132.00	

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19	13-0017	EA	Cast Iron Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	1,104.11	130.56
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19	13-0018	EA	Nikaloy Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,659.29	106.86
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19	13-0019	EA	Nikaloy Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	1,682.08	118.31
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19	13-0020	EA	Nikaloy Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	1,706.57	130.56
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19	13-0021	EA	Bronze Top, 12-5/8" Round Top Floor Drain With 2" Outlet.....	1,579.09	106.86
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19	13-0022	EA	Bronze Top, 12-5/8" Round Top Floor Drain With 3" Outlet.....	1,601.88	118.31
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19	13-0023	EA	Bronze Top, 12-5/8" Round Top Floor Drain With 4" Outlet.....	1,626.37	130.56
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Chained Grate, Add</i>	48.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Ductile Iron Grate, Add</i>	53.00	
			<i>For Cast Iron Dome Grate, Add</i>	28.00	
			<i>For Nikaloy Dome Grate, Add</i>	255.00	
			<i>For Bronze Dome Grate, Add</i>	218.50	
			<i>For Cast Iron Extension Collar, Each 2", Add</i>	51.00	
			<i>For Galvanized Extension Collar, Each 2", Add</i>	102.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	132.00	
22 13 19	13-0024		Square Or Rectangular Top Drains (22 13 19 13)		
22 13 19	13-0025	EA	5" x 5" Floor Drain With 2" Bottom Outlet, Nikaloy Top.....	730.17	106.86
			<i>For Sediment Bucket, Add</i>	22.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	105.00	
			<i>For Vandal Proof Screws, Add</i>	11.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0026 EA 5" x 5" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	753.21 22.50 105.00 11.00	118.40
22 13 19 13-0027 EA 5" x 5" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	777.45 22.50 105.00 11.00	130.56
22 13 19 13-0028 EA 6" x 6" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	788.85 22.50 105.00 11.00	106.86
22 13 19 13-0029 EA 6" x 6" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	811.89 22.50 105.00 11.00	118.40
22 13 19 13-0030 EA 6" x 6" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	836.13 22.50 105.00 11.00	130.56
22 13 19 13-0031 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	1,047.05 22.50 105.00 11.00	106.86
22 13 19 13-0032 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	1,070.09 22.50 105.00 11.00	118.40
22 13 19 13-0033 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Nikaloy Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	1,094.33 22.50 105.00 11.00	130.56
22 13 19 13-0034 EA 5" x 5" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	687.13 22.50 105.00 11.00	106.86
22 13 19 13-0035 EA 5" x 5" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	710.17 22.50 105.00 11.00	118.40
22 13 19 13-0036 EA 5" x 5" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	734.41 22.50 105.00 11.00	130.56
22 13 19 13-0037 EA 6" x 6" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	761.46 22.50 105.00 11.00	106.86
22 13 19 13-0038 EA 6" x 6" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	784.50 22.50 105.00 11.00	118.40
22 13 19 13-0039 EA 6" x 6" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	808.74 22.50 105.00 11.00	130.56
22 13 19 13-0040 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	970.76 22.50 105.00 11.00	106.86
22 13 19 13-0041 EA 8" x 8" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	993.80 22.50 105.00 11.00	118.40
22 13 19 13-0042 EA 8" x 8" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Screws, Add</i>	1,018.04 22.50 105.00 11.00	130.56
22 13 19 13-0043 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Cast Iron Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Chained Grate, Add</i>	2,503.87 318.00 76.00 48.50	118.40
22 13 19 13-0044 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Cast Iron Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Chained Grate, Add</i>	2,528.11 318.00 76.00 48.50	130.56
22 13 19 13-0045 EA 12" x 12" Can Wash Drain With 3" Bottom Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Chained Grate, Add</i>	3,141.54 318.00 76.00 48.50	118.40
22 13 19 13-0046 EA 12" x 12" Can Wash Drain With 4" Bottom Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Chained Grate, Add</i>	3,165.78 318.00 76.00 48.50	130.56



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19	13-0047	EA	12" x 12" Can Wash Drain With 3" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Chained Grate, Add</i>	3,065.26 318.00 76.00 48.50	118.40
22 13 19	13-0048	EA	12" x 12" Can Wash Drain With 4" Bottom Outlet, Bronze Top..... <i>For Galvanized Cast Iron Parts, Add</i> <i>For No-Hub Side Outlet, Add</i> <i>For Chained Grate, Add</i>	3,089.50 318.00 76.00 48.50	130.56
22 13 19	13-0049	EA	5" x 9" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,062.70 22.50 11.00 120.94	106.86
22 13 19	13-0050	EA	5" x 9" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,085.74 22.50 11.00 120.94	118.40
22 13 19	13-0051	EA	5" x 9" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,109.98 22.50 11.00 120.94	130.56
22 13 19	13-0052	EA	5" x 13" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,365.88 22.50 11.00 120.94	106.86
22 13 19	13-0053	EA	5" x 13" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,388.92 22.50 11.00 120.94	118.40
22 13 19	13-0054	EA	5" x 13" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,413.16 22.50 11.00 120.94	130.56
22 13 19	13-0055	EA	5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,436.30 22.50 11.00 120.94	106.86
22 13 19	13-0056	EA	5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,459.34 22.50 11.00 120.94	118.40
22 13 19	13-0057	EA	5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,483.58 22.50 11.00 120.94	130.56
22 13 19	13-0058	EA	5" x 21" Floor Drain With 2" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,982.04 22.50 11.00 120.94	106.86
22 13 19	13-0059	EA	5" x 21" Floor Drain With 3" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	2,005.08 22.50 11.00 120.94	118.40
22 13 19	13-0060	EA	5" x 21" Floor Drain With 4" Bottom Outlet, Nikaloy Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	2,029.32 22.50 11.00 120.94	130.56
22 13 19	13-0061	EA	5" x 9" Floor Drain With 2" Bottom Outlet, Bronze Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,000.10 22.50 11.00 120.94	106.86
22 13 19	13-0062	EA	5" x 9" Floor Drain With 3" Bottom Outlet, Bronze Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,023.14 22.50 11.00 120.94	118.40
22 13 19	13-0063	EA	5" x 9" Floor Drain With 4" Bottom Outlet, Bronze Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,047.38 22.50 11.00 120.94	130.56
22 13 19	13-0064	EA	5" x 13" Floor Drain With 2" Bottom Outlet, Bronze Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,258.30 22.50 11.00 120.94	106.86
22 13 19	13-0065	EA	5" x 13" Floor Drain With 3" Bottom Outlet, Bronze Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,281.34 22.50 11.00 120.94	118.40
22 13 19	13-0066	EA	5" x 13" Floor Drain With 4" Bottom Outlet, Bronze Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,305.58 22.50 11.00 120.94	130.56
22 13 19	13-0067	EA	5" x 16-3/4" Floor Drain With 2" Bottom Outlet, Bronze Top..... <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,328.72 22.50 11.00 120.94	106.86



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19	13-0068	EA	5" x 16-5/8" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,351.76 22.50 11.00 120.94	118.40
22 13 19	13-0069	EA	5" x 16-3/4" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,376.00 22.50 11.00 120.94	130.56
22 13 19	13-0070	EA	5" x 21" Floor Drain With 2" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,772.74 22.50 11.00 120.94	106.86
22 13 19	13-0071	EA	5" x 21" Floor Drain With 3" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,795.78 22.50 11.00 120.94	118.40
22 13 19	13-0072	EA	5" x 21" Floor Drain With 4" Bottom Outlet, Bronze Top <i>For Sediment Bucket, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Rough Bronze Body, Add</i>	1,820.02 22.50 11.00 120.94	130.56
22 13 19 13-0073 Funnel Type Floor Drains (22 13 19 13)					
22 13 19	13-0074	EA	7" Diameter Floor Drain With 4" Round Funnel With 1-1/2" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,002.63 105.00 -19.50 11.00	95.41
22 13 19	13-0075	EA	7" Diameter Floor Drain With 4" Round Funnel With 2" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,025.53 105.00 -19.50 11.00	106.86
22 13 19	13-0076	EA	7" Diameter Floor Drain With 4" Round Funnel With 3" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,048.32 105.00 -19.50 11.00	118.31
22 13 19	13-0077	EA	7" Diameter Floor Drain With 4" Round Funnel With 4" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,072.81 105.00 -19.50 11.00	130.56
22 13 19	13-0078	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,465.64 105.00 -19.50 11.00	106.86
22 13 19	13-0079	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,488.43 105.00 -19.50 11.00	118.31
22 13 19	13-0080	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Nikaloy Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,512.92 105.00 -19.50 11.00	130.56
22 13 19	13-0081	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 2" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,389.36 105.00 -19.50 11.00	106.86
22 13 19	13-0082	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 3" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,412.15 105.00 -19.50 11.00	118.31
22 13 19	13-0083	EA	7" Diameter Floor Drain With 9" x 3-1/2" Oval Funnel With 4" Outlet, Bronze Top <i>For Galvanized Cast Iron Parts, Add</i> <i>For Satin Finish Bronze Top, Deduct</i> <i>For Vandal Proof Screws, Add</i>	1,436.64 105.00 -19.50 11.00	130.56
22 13 19 13-0084 Floor Drain With Sediment Bucket Bottom Outlet (22 13 19 13)					
22 13 19	13-0085	EA	12-5/8" Round Floor Drain With Sediment Bucket, 2" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,121.41 33.50 30.50 247.00	95.41
22 13 19	13-0086	EA	12-5/8" Round Floor Drain With Sediment Bucket, 3" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,144.39 33.50 30.50 247.00	106.86
22 13 19	13-0087	EA	12-5/8" Round Floor Drain With Sediment Bucket, 4" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,167.18 33.50 30.50 247.00	118.31
22 13 19	13-0088	EA	12-5/8" Round Floor Drain With Sediment Bucket, 5" Bottom Outlet, Satin Bronze Top, Without Trap <i>For Primer Tap, Add</i> <i>For Vandal Proof Screws, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,191.67 33.50 30.50 247.00	130.56

22 Plumbing
22 10 Plumbing Piping
22 13 Facility Sanitary Sewerage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0089	EA		12-5/8" Round Floor Drain With Sediment Bucket, 6" Bottom Outlet, Satin Bronze Top, Without Trap	2,216.93	143.16
			<i>For Primer Tap, Add</i>	33.50	
			<i>For Vandal Proof Screws, Add</i>	30.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	247.00	
22 13 19 13-0090	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,293.05	106.86
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0091	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,316.09	118.40
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0092	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,340.33	130.56
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0093	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Nikaloy Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,365.59	143.16
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0094	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,410.87	106.86
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0095	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,433.91	118.40
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0096	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,458.15	130.56
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0097	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Cast Iron Top, Heavy Duty Loose-Set Cast Iron Grate.....	1,483.41	143.16
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0098	EA		12" x 12" Floor Drain With Sediment Bucket, 2" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,140.48	106.86
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0099	EA		12" x 12" Floor Drain With Sediment Bucket, 3" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,163.52	118.40
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0100	EA		12" x 12" Floor Drain With Sediment Bucket, 4" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,187.76	130.56
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0101	EA		12" x 12" Floor Drain With Sediment Bucket, 6" Bottom Outlet, Bronze Top, Heavy Duty Loose-Set Cast Iron Grate.....	2,213.02	143.16
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	31.00	
			<i>For Aluminum Bucket, Add</i>	77.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	273.75	
22 13 19 13-0102			Other Drains (22 13 19 13)		
22 13 19 13-0103			Shower Drains (22 13 19 13-0102)		
22 13 19 13-0104	EA		4-1/4" Stainless Steel Shower Drain Strainer	33.97	9.63
			Note: Includes two 2-5/8" screws.		
22 13 19 13-0105	EA		4-1/4" Brass Shower Drain Strainer	37.38	9.63
			Note: Includes two 2-5/8" screws.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0106 EA 4" Brass Shower Drain For Polyvinyl Chloride (PVC) Pipe Note: Fits over 2" polyvinyl chloride (PVC) pipe or inside 3" polyvinyl chloride (PVC) pipe.	79.58	19.28
22 13 19 13-0107 EA 4" Chrome Finish, Threaded Brass Shower Drain And Gasket..... Note: For 2" pipe. Kohler K-9132.	99.19	19.28
22 13 19 13-0108 Acid Resistant Floor Drains (22 13 19 13-0102)		
22 13 19 13-0109 EA 9" Diameter Floor Drain With 2" Bottom Outlet, Acid Resistant Top For Galvanized Cast Iron Parts, Add For Primer Tap, Add For Vandal Proof Screws, Add	1,010.37 87.50 33.50 30.50	95.41
22 13 19 13-0110 EA 9" Diameter Floor Drain With 3" Bottom Outlet, Acid Resistant Top For Galvanized Cast Iron Parts, Add For Primer Tap, Add For Vandal Proof Screws, Add	1,033.35 87.50 33.50 30.50	106.86
22 13 19 13-0111 EA 9" Diameter Floor Drain With 4" Bottom Outlet, Acid Resistant Top For Galvanized Cast Iron Parts, Add For Primer Tap, Add For Vandal Proof Screws, Add	1,056.14 87.50 33.50 30.50	118.31
22 13 19 13-0112 Rotary And Lever Drains (22 13 19 13-0102)		
22 13 19 13-0113 EA Lever Drain, 1-1/2" Drain, 3" Sink Opening.....	218.67	64.35
22 13 19 13-0114 EA Lever Drain, 2" Drain, 3" Sink Opening.....	231.98	71.00
22 13 19 13-0115 EA Lever Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	218.67	64.35
22 13 19 13-0116 EA Lever Drain, 2" Drain, 3-1/2" Sink Opening.....	231.98	71.00
22 13 19 13-0117 EA Twist Drain, 1-1/2" Drain, 3" Sink Opening.....	218.67	64.35
22 13 19 13-0118 EA Twist Drain, 2" Drain, 3" Sink Opening.....	231.98	71.00
22 13 19 13-0119 EA Twist Drain, 1-1/2" Drain, 3-1/2" Sink Opening.....	218.67	64.35
22 13 19 13-0120 EA Twist Drain, 2" Drain, 3-1/2" Sink Opening.....	231.98	71.00
22 13 19 13-0121 EA Rotary Twist Drain, 1-1/2"-2" Drain, 3-1/2" Sink Opening (Fisher 16100).....	301.40	71.00
22 13 19 13-0122 Floor Receptor (22 13 19 13)		
22 13 19 13-0123 9" Diameter Round Shallow Receptor (22 13 19 13-0122) Note: With slotted medium duty grate, aluminum secondary strainer and white acid resisting coated interior and top.		
22 13 19 13-0124 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 2" Drain Connection..... For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" (50 mm) Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	1,238.88 58.50 97.00 38.00 36.00 33.50 47.00 62.50	106.95
22 13 19 13-0125 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 3" Drain Connection..... For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" (50 mm) Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	1,262.03 58.50 97.00 38.00 36.00 33.50 47.00 62.50	118.49
22 13 19 13-0126 EA 9" Diameter x 3" Shallow Cast Iron Floor Receptor, 4" Drain Connection..... For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" (50 mm) Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	1,286.02 58.50 97.00 38.00 36.00 33.50 47.00 62.50	130.56
22 13 19 13-0127 Square Top Floor Receptors (22 13 19 13-0122) Note: With acid resistant coating.		
22 13 19 13-0128 EA 8" x 8" Floor Drain With 1-1/2" Bottom Outlet, Acid Resistant Top..... For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	1,458.39 37.50 69.00 39.50 36.00 15.50 88.00 97.00	95.41
22 13 19 13-0129 EA 8" x 8" Floor Drain With 2" Bottom Outlet, Acid Resistant Top..... For Flange With Seepage Holes, Add For Flange With Seepage Holes And Clamp Collar, Add For Trap Primer Connection, Add For Full Grate With 2" Square Center Opening, Add For Vandal Proof Secured Grate, Add For White Acid Resistant Bucket, Add For Stainless Steel Liner For Bucket, Add	1,481.39 37.50 69.00 39.50 36.00 15.50 88.00 97.00	106.95



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 13-0130	EA	8" x 8" Floor Drain With 3" Bottom Outlet, Acid Resistant Top..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,504.08 37.50 69.00 39.50 36.00 15.50 88.00 97.00	118.31
22 13 19 13-0131	EA	8" x 8" Floor Drain With 4" Bottom Outlet, Acid Resistant Top..... <i>For Flange With Seepage Holes, Add</i> <i>For Flange With Seepage Holes And Clamp Collar, Add</i> <i>For Trap Primer Connection, Add</i> <i>For Full Grate With 2" Square Center Opening, Add</i> <i>For Vandal Proof Secured Grate, Add</i> <i>For White Acid Resistant Bucket, Add</i> <i>For Stainless Steel Liner For Bucket, Add</i>	1,528.57 37.50 69.00 39.50 36.00 15.50 88.00 97.00	130.56
22 13 19 13-0132		Floor Drain Accessories (22 13 19 13)		
22 13 19 13-0133	EA	3" Trap Guard Floor Drain Insert (ProVent TG3H)..... Note: Prevents emission of sewer gases.	70.60	11.10
22 13 19 13-0134	EA	2" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG22)..... Note: Prevents emission of sewer gases.	58.50	11.10
22 13 19 13-0135	EA	3" Trap Guard Drain Insert For Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG33)..... Note: Prevents emission of sewer gases.	63.34	11.10
22 13 19 13-0136	EA	3" Trap Guard Drain Insert For 4" Cast Iron Or Polyvinyl Chloride (PVC) Pipe (ProVent TG34IP)..... Note: Prevents emission of sewer gases.	75.44	11.10
22 13 19 13-0137	EA	3" Trap Guard Drain Insert For 4" Hub (ProVent TG34TP)..... Note: Prevents emission of sewer gases.	68.18	11.10
22 13 19 13-0138	EA	2" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-02)..... Note: Prevents emission of sewer gases.	94.99	11.10
22 13 19 13-0139	EA	3" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-03)..... Note: Prevents emission of sewer gases.	104.74	11.10
22 13 19 13-0140	EA	4" Quad Close Trap Seal, For Drain Body Or Strainer Throat (JRSmith 2692-04)..... Note: Prevents emission of sewer gases.	128.93	11.10
22 13 19 26		Grease Removal Devices (22 13 19)		
22 13 19 26-0001		Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval and flow control fitting.		
22 13 19 26-0002		Standard Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60100H/60210A, Smith 8100/8400, Wade 5100, or Zurn Z1173/Z1170 series.		
22 13 19 26-0003	EA	7 GPM, 14 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60102H. <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	801.01 1,291.53	66.57
22 13 19 26-0004	EA	10 GPM, 20 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60103H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	932.34 360.01 1,363.22	149.77
22 13 19 26-0005	EA	15 GPM, 30 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60104H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,306.64 371.11 1,488.34	166.41
22 13 19 26-0006	EA	20 GPM, 40 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60105H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,571.79 382.20 1,608.02	183.05
22 13 19 26-0007	EA	25 GPM, 50 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60106H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,757.90 423.70 1,672.98	199.70
22 13 19 26-0008	EA	35 GPM, 70 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60107H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,154.38 457.08 1,838.74	232.99
22 13 19 26-0009	EA	50 GPM, 100 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60108H. <i>For Flange And Clamp Device, Add</i> <i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	2,796.75 520.23 1,957.47	266.27
22 13 19 26-0010	EA	75 GPM, 150 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60109H. <i>For Flange And Clamp Device, Add</i>	5,417.51 743.70	299.55
22 13 19 26-0011	EA	100 GPM, 200 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60110H. <i>For Flange And Clamp Device, Add</i>	6,106.92 838.77	346.15
22 13 19 26-0012	EA	150 GPM, 300 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60213A. <i>For Flange And Clamp Device, Add</i>	7,571.03 1,137.23	553.84
22 13 19 26-0013	EA	200 GPM, 400 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60214A. <i>For Flange And Clamp Device, Add</i>	10,835.10 1,358.82	692.31



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 19 26-0014	EA	250 GPM, 500 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60215A.	12,646.00	830.76
		<i>For Flange And Clamp Device, Add</i>	1,764.09	
22 13 19 26-0015	EA	350 GPM, 700 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60216A.	16,400.16	969.23
		<i>For Flange And Clamp Device, Add</i>	2,094.15	
22 13 19 26-0016	EA	500 GPM, 1,000 LB Capacity Manual Cleaning Epoxy Coated Steel Grease Interceptor Note: Josam 60217A.	21,175.94	1,107.69
		<i>For Flange And Clamp Device, Add</i>	2,459.74	
22 13 19 26-0017		Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0001) Note: Josam 60110A, Smith 8100, Wade 5100LR, or Zurn Z1171 series.		
22 13 19 26-0018	EA	20 GPM, 40 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A.	2,234.18	183.05
22 13 19 26-0019	EA	35 GPM, 70 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Josam 60117A.	2,873.22	232.99
22 13 19 26-0020	EA	50 GPM, 100 LB Capacity Low Profile Manual Cleaning Epoxy Coated Steel Grease Interceptor..... Note: Smith 8150.	4,696.94	266.27
22 13 19 26-0021		Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26) Note: Includes internal air relief, visible double wall trap, removable baffle, gasketed non-skid cover bearing PDI seal of approval, grease recovery cone, flexible hose, grease draw off valve and flow control fitting.		
22 13 19 26-0022		Standard Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60100-SA, Smith 8300GTX, Wade 5100JCX, or Zurn Z1173-TD series.		
22 13 19 26-0023	EA	7 GPM, 14 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60102-SA.	1,953.50	66.57
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,291.53	
22 13 19 26-0024	EA	10 GPM, 20 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60103-SA.	2,294.76	149.77
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,363.22	
22 13 19 26-0025	EA	15 GPM, 30 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60104-SA.	2,454.11	166.41
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,488.34	
22 13 19 26-0026	EA	20 GPM, 40 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60105-SA.	2,987.73	183.05
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,608.02	
22 13 19 26-0027	EA	25 GPM, 50 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60106-SA.	3,594.11	199.70
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,672.98	
22 13 19 26-0028	EA	35 GPM, 70 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60107-SA.	3,725.88	232.99
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,838.74	
22 13 19 26-0029	EA	50 GPM, 100 LB Capacity Semi Automatic Epoxy Coated Steel Grease Interceptor Note: Josam 60108-SA.	4,253.26	266.27
		<i>For Steel Enclosure Cabinet With Non Skid Cover, Add</i>	1,957.47	
22 13 19 26-0030		Low Profile Semi Automatic Cleaning Epoxy Coated Steel Grease Interceptor (22 13 19 26-0021) Note: Josam 60115A-SA, Smith 8100GTX, or Zurn Z1171-TD series.		
22 13 19 26-0031	EA	35 GPM, 70 LB Capacity Low Profile Semi Automatic Epoxy Coated Steel Grease Interceptor..... Note: Josam 60115A-SA.	4,977.07	232.99
22 13 19 26-0032		Automatic Cleaning Stainless Steel Grease Interceptor (22 13 19 26) Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).		
22 13 19 26-0033	EA	20 GPM, 69 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 20 Greasestopper).	4,289.48	183.05
22 13 19 26-0034	EA	25 GPM, 91 LB Capacity Automatic Cleaning Stainless Steel Grease Interceptor Note: Includes stainless steel screen basket, plastic grease container with lid and control box with digital timer (Lowe Engineering 25 Greasestopper).	4,975.29	199.70
22 13 19 26-0035	EA	35 GPM, 70 LB Capacity, 110 Volt, Automatic Cleaning Stainless Steel Grease Trap/Removal Device (Guardian GGX35).....	4,295.51	232.99
22 13 19 26-0036		Precast Concrete Grease Interceptor (22 13 19 26) Note: Includes two access manholes, cast iron non-skid surface, lift hole, frame and cover for heavy-traffic.		
22 13 19 26-0037	EA	1,000 Gallon Pre-Cast Grease Interceptor.....	3,795.39	315.99
22 13 19 26-0038	EA	1,250 Gallon Pre-Cast Grease Interceptor.....	4,336.48	315.99
22 13 19 26-0039	EA	1,500 Gallon Pre-Cast Grease Interceptor.....	4,922.13	361.25
22 13 19 26-0040	EA	2,000 Gallon Pre-Cast Grease Interceptor.....	5,614.23	510.19
22 13 19 26-0041	EA	2,500 Gallon Pre-Cast Grease Interceptor.....	6,335.89	686.42
22 13 19 26-0042	EA	4,000 Gallon Pre-Cast Grease Interceptor.....	9,486.61	903.10
22 13 19 26-0043	EA	5,000 Gallon Pre-Cast Grease Interceptor.....	12,221.32	1,480.93
22 13 19 26-0044		Coated Steel Manual Oil Interceptor (22 13 19 26) Note: Includes internal air relief, and flow control fitting.		
22 13 19 26-0045	EA	10 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	2,924.32	253.48



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 19 26-0046	EA	15 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	3,919.46	301.19
22 13 19 26-0047	EA	20 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	4,748.59	370.59
22 13 19 26-0048	EA	25 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	5,157.24	401.43
22 13 19 26-0049	EA	35 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	6,167.81	438.06
22 13 19 26-0050	EA	50 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	8,083.76	481.91
22 13 19 26-0051	EA	75 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	13,440.62	554.73
22 13 19 26-0052	EA	100 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	14,732.18	682.54
22 13 19 26-0053	EA	150 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	18,039.65	739.78
22 13 19 26-0054	EA	200 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	25,172.36	887.56
22 13 19 26-0055	EA	250 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	29,004.68	954.13
22 13 19 26-0056	EA	350 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	36,505.69	1,137.85
22 13 19 26-0057	EA	400 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	43,861.47	932.38
22 13 19 26-0058	EA	500 GPM, Oil Interceptor, Coated Steel, Manual Draw-Off.....	51,961.33	1,109.44

22 13 19 33 Backwater Valves (22 13 19)

22 13 19 33-0001 Cast Iron Body Terminal Backwater Valves (22 13 19 33)

22 13 19 33-0002	EA	2" Cast Iron Body Terminal Backwater Valve.....	313.83	25.48
22 13 19 33-0003	EA	3" Cast Iron Body Terminal Backwater Valve.....	323.60	32.05
22 13 19 33-0004	EA	4" Cast Iron Body Terminal Backwater Valve.....	465.72	42.60
22 13 19 33-0005	EA	6" Cast Iron Body Terminal Backwater Valve.....	1,238.23	59.87
22 13 19 33-0006	EA	8" Cast Iron Body Terminal Backwater Valve.....	1,515.84	78.80
22 13 19 33-0007	EA	10" Cast Iron Body Terminal Backwater Valve.....	4,346.70	97.21
22 13 19 33-0008	EA	12" Cast Iron Body Terminal Backwater Valve.....	4,928.83	126.08

22 13 19 33-0009 Cast Iron Backwater Sewer Line Valve (22 13 19 33)

Note: Offset type with bronze swing check assembly, threaded bronze cover, and bell and spigot connections.

22 13 19 33-0010	EA	2" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly.....	781.79	60.73
22 13 19 33-0011	EA	3" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly.....	1,184.03	73.67
22 13 19 33-0012	EA	4" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly.....	1,466.25	94.97
22 13 19 33-0013	EA	6" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly.....	2,050.17	108.78
22 13 19 33-0014	EA	8" Backwater Sewer Valve, Cast Iron, Offset Type With Bronze Swing Check Assembly.....	2,832.64	128.91

22 13 19 33-0015 Cast Iron, Straight Through Shear Gate, Swing Check Backwater Valve (22 13 19 33)

Note: Offset type with bronze, manually operated shear gate, non-rising stem, and bell and spigot connections.

22 13 19 33-0016	EA	3" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,086.47	96.13
22 13 19 33-0017	EA	4" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	2,134.04	127.81
22 13 19 33-0018	EA	5" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	3,101.89	161.10
22 13 19 33-0019	EA	6" Cast Iron Body, Straight Through Shear Gate, Swing Check Backwater Valve.....	3,129.90	179.61

22 13 19 33-0020 Polyvinyl Chloride (PVC) Backwater Sewer Line Valve (22 13 19 33)

Note: Oatey.

22 13 19 33-0021	EA	3" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43900).....	95.33	32.05
22 13 19 33-0022	EA	4" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43904).....	116.06	42.60
22 13 19 33-0023	EA	6" Polyvinyl Chloride (PVC) Backwater Sewer Valve (Oatey 43908).....	312.28	59.87

22 13 19 33-0024 Polyvinyl Chloride (PVC) Extendable Backwater Valves (22 13 19 33)

22 13 19 33-0025	EA	3" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	219.88	64.08
		Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0026	EA	4" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	292.78	85.21
		Note: Includes valve body, flapper assembly and collar.		
22 13 19 33-0027	EA	6" Polyvinyl Chloride (PVC) Extendable Backwater Sewer Valve (Rectorseal Clean Check).....	495.49	119.73
		Note: Includes valve body, flapper assembly and collar.		

22 13 19 36 Air-Admittance Valves (22 13 19)

22 13 19 36-0001 Acrylonitrile Butadiene Styrene (ABS) And Polyvinyl Chloride (PVC)

Automatic Drain Vent (22 13 19 36)

22 13 19 36-0002	EA	1-1/4", 1-1/2" And 2" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Mini Vent.....	133.10	12.43
22 13 19 36-0003	EA	2", 3" And 4" Acrylonitrile Butadiene Styrene (ABS) Or Polyvinyl Chloride (PVC) Automatic Drain Vent, Maxi Vent.....	158.06	12.43

22 13 23 Sanitary Waste Interceptors (22 13)

22 13 23 00-0001 Sediment Bucket Solids Interceptors (22 13 23)

22 13 23 00-0002	EA	1-1/2" Or 2" Top Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1180).....	776.43	125.68
		Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0003	EA	1-1/2" Or 2" Bottom Access, 15 GPM, Composite With Removable PVC Sediment Bucket Solids Interceptor (Zurn 1184).....	777.35	125.68
		Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 13 23 00-0004 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Steel (Inside And Outside), Aluminum Cover, Removable Stainless Steel Sediment Bucket Solids Interceptor (Jay R. Smith 8714 ARI0).....	1,077.29	125.68
Note: On floor mount. Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0005 EA 1-1/2" Or 2" Bottom Access, 15 GPM, Acid Resistant Coated Cast Iron, Aluminum Strainer, Removable Stainless Steel Screens, Sediment Bucket Solids Interceptor (Jay R. Smith 8730-ARI0).....	1,077.29	125.68
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0006 EA 1-1/2" Or 2" Top Access, Acid Resistant Coated Cast Aluminum (Inside And Outside) Removable Stainless Steel Screen, Sediment Bucket Solids Interceptor (Josam 61030).....	1,145.20	125.68
Note: Replaces P-Trap. Recovers all types of solids from precious metal particles, plaster, clay or similar materials.		
22 13 23 00-0007 Solid Interceptors, Cast Iron With Internal Deep Seal Trap (22 13 23)		
22 13 23 00-0008 EA 1-1/2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	308.50	42.98
For Stainless Steel Bucket, Add		
	175.00	
22 13 23 00-0009 EA 2" Inlet Cast Iron Solid Interceptor, Painted Enamel.....	314.00	45.78
For Stainless Steel Bucket, Add		
	175.00	
22 13 23 00-0010 Sediment Strainers (22 13 23)		
22 13 23 00-0011 EA 2" Strainer, Pump Suction Side.....	135.63	58.56
22 13 29 Sanitary Sewerage Pumps (22 13)		
Note: Includes extra set of gaskets, bearings and seals.		
22 13 29 13 Wet-Pit-Mounted, Vertical Sewerage Pumps (22 13 29)		
22 13 29 13-0001 Vertical Non-Clog Sewage Pumps (22 13 29 13)		
22 13 29 13-0002 1-1/2" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)		
22 13 29 13-0003 EA 1/2 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,270.45	1,064.71
22 13 29 13-0004 EA 3/4 HP, Up To 125 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,463.51	1,064.71
22 13 29 13-0005 EA 1 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,656.57	1,064.71
22 13 29 13-0006 EA 1-1/2 HP, Up To 150 GPM Sewage Pump, Vertical Non Clog, 2-1/2" Discharge Pipe, 1,750 RPM.....	5,840.72	1,064.71
22 13 29 13-0007 2" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)		
22 13 29 13-0008 EA 3/4 HP, Up To 75 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,805.08	1,064.71
22 13 29 13-0009 EA 1 HP, Up To 100 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,879.34	1,064.71
22 13 29 13-0010 EA 2 HP, Up To 200 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	5,931.32	1,064.71
22 13 29 13-0011 EA 3 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,287.74	1,064.71
22 13 29 13-0012 EA 5 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	6,636.74	1,064.71
22 13 29 13-0013 EA 7-1/2 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,171.37	1,064.71
22 13 29 13-0014 EA 10 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	7,706.01	1,064.71
22 13 29 13-0015 EA 15 HP, Up To 600 GPM Sewage Pump, Vertical Non Clog, 3" Discharge Pipe, 1,750 RPM.....	8,945.03	1,416.90
22 13 29 13-0016 3" Solids 1,750 RPM Vertical Sewage Pumps (22 13 29 13-0001)		
22 13 29 13-0017 EA 2 HP, Up To 300 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,177.15	1,064.71
22 13 29 13-0018 EA 3 HP, Up To 400 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,177.15	1,064.71
22 13 29 13-0019 EA 5 HP, Up To 500 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	6,305.80	1,064.71
22 13 29 13-0020 EA 7-1/2 HP, Up To 700 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,304.02	1,064.71
22 13 29 13-0021 EA 10 HP, Up To 800 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	7,479.13	1,064.71
22 13 29 13-0022 EA 15 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,006.62	1,416.90
22 13 29 13-0023 EA 20 HP, Up To 900 GPM Sewage Pump, Vertical Non Clog, 4" Discharge Pipe, 1,750 RPM.....	9,452.15	1,416.90
22 13 29 13-0024 Extra Column Assemblies Addition, 5' Or Less (22 13 29 13-0001)		
22 13 29 13-0025 EA 2-1/2" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	544.22	
22 13 29 13-0026 EA 3" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	653.44	
22 13 29 13-0027 EA 4" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	730.37	
22 13 29 13-0028 EA 5" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	743.67	
22 13 29 13-0029 EA 6" Diameter x 5' Long Extra Column Assembly For vertical sewage pumps.....	834.84	
22 13 29 13-0030 Float Switches (22 13 29 13-0001)		
Note: Copper coated floats, brass rods and stops and switch brackets.		
22 13 29 13-0031 EA Float Switch Copper Coated Float, Add, General Purpose For vertical sewage pumps.....	489.13	
22 13 29 13-0032 EA Float Switch Copper Coated Float, Add, Weather Proof For vertical sewage pumps.....	513.82	
22 13 29 13-0033 EA Float Switch Copper Coated Float, Add, Explosion Proof For vertical sewage pumps.....	525.22	
22 13 29 13-0034 Square Or Round Steel Sump Covers (22 13 29 13-0001)		
22 13 29 13-0035 EA 24" Steel Sump Covers, Square Or Round.....	521.61	35.51
22 13 29 13-0036 EA 30" Steel Sump Covers, Square Or Round.....	577.60	39.94
22 13 29 13-0037 EA 36" Steel Sump Covers, Square Or Round.....	800.55	53.25
22 13 29 13-0038 EA 40" Steel Sump Covers, Square Or Round.....	1,155.30	62.13
22 13 29 13-0039 EA 42" Steel Sump Covers, Square Or Round.....	1,237.54	64.35
22 13 29 13-0040 EA 48" Steel Sump Covers, Square Or Round.....	1,322.45	66.57



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 13 29 13-0041	EA	54" Steel Sump Covers, Square Or Round.....	1,682.53	79.88
22 13 29 13-0042	EA	60" Steel Sump Covers, Square Or Round.....	2,270.74	88.76
22 13 29 13-0043	EA	72" Steel Sump Covers, Square Or Round.....	2,879.44	110.95
22 13 29 13-0044	EA	84" Steel Sump Covers, Square Or Round.....	3,652.23	122.04

22 13 29 16 Submersible Sewerage Pumps (22 13 29)

Note: Includes 25' of cord with pumps unless otherwise noted.

22 13 29 16-0001		Submersible Sewerage Pumps With Vortex Impeller (22 13 29 16)		
22 13 29 16-0002		Submersible Sewerage Pumps With Cast Iron Vortex Impeller (22 13 29 16-0001)		
22 13 29 16-0003	EA	1/2 HP Submersible Sewerage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	532.21	64.58
22 13 29 16-0004	EA	1/2 HP Submersible Sewerage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	689.81	64.58
22 13 29 16-0005	EA	1 HP Submersible Sewerage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	831.78	80.72
22 13 29 16-0006		Submersible Sewerage Pumps With Bronze Vortex Impeller (22 13 29 16-0001)		
22 13 29 16-0007	EA	1/2 HP Submersible Sewerage Pump, 115 Volt Or 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	784.44	64.58
22 13 29 16-0008	EA	1 HP Submersible Sewerage Pump, 230 Volt, 1 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	960.51	80.72
22 13 29 16-0009	EA	1-1/2 HP Submersible Sewerage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,172.01	130.12
22 13 29 16-0010	EA	2 HP Submersible Sewerage Pump, 230 Volt, 1 Or 3 Phase, 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller.....	1,293.54	159.03
22 13 29 16-0011		Submersible Sewerage Pumps With Semi-Open Impeller (22 13 29 16)		
22 13 29 16-0012	EA	1 HP Submersible Sewerage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,679.64	80.72
22 13 29 16-0013	EA	1.5 HP Submersible Sewerage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	1,873.38	132.72
22 13 29 16-0014	EA	2 HP Submersible Sewerage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	2,415.73	162.22
22 13 29 16-0015	EA	3 HP Submersible Sewerage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	2,810.66	196.63
22 13 29 16-0016	EA	5 HP Submersible Sewerage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	3,275.46	231.04
22 13 29 16-0017	EA	7.5 HP Submersible Sewerage Pump, 230 Volt, 3 Phase, 3" To 4" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Impeller.....	3,427.05	265.45
22 13 29 16-0018		Submersible Sewerage Pumps Accessories (22 13 29 16)		
22 13 29 16-0019	EA	Simplex Single Phase Plug In Controller With NEMA 4X Enclosure For Non-Automatic Submersible Sewerage Pump.....	290.82	59.30
		Note: Includes alarm horn, warning light, and single control float switches.		
22 13 29 16-0020	EA	Simplex Single Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewerage Pump.....	695.24	79.07
		Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0021	EA	Simplex Three Phase Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewerage Pump.....	908.02	79.07
		Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0022	EA	Duplex Alarm System And Controller With NEMA 4X Enclosure For Non Automatic Submersible Sewerage Pump.....	1,011.31	98.83
		Note: Includes alarm horn, warning light, HOA switch, and three control float switches.		
22 13 29 16-0023	EA	High-water Alarm For Submersible Sewerage Pump.....	225.34	39.53
22 13 29 16-0024	EA	Float Switch For Submersible Sewerage Pump.....	83.60	19.77
22 13 29 16-0025	EA	Rail System With 2" Discharge For Submersible Sewerage Pump.....	426.47	59.30
22 13 29 33		Sewerage Pump Basins And Pits (22 13 29)		
22 13 29 33-0001		Sewage Sump Pump Basin (22 13 29 33)		
22 13 29 33-0002		High Density Polyethylene (HDPE) Basin (22 13 29 33-0001)		
22 13 29 33-0003	EA	18" Diameter x 24" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	114.18	
22 13 29 33-0004	EA	18" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	147.10	
22 13 29 33-0005	EA	24" Diameter x 30" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	330.98	
22 13 29 33-0006	EA	24" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	463.59	
22 13 29 33-0007	EA	30" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	596.20	
22 13 29 33-0008	EA	36" Diameter x 36" High, High Density Polyethylene (HDPE) Basin And Lid With Inlet And Hub.....	693.20	
22 13 29 33-0009		Fiberglass Basin (22 13 29 33-0001)		
22 13 29 33-0010	EA	18" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub.....	201.45	
22 13 29 33-0011	EA	24" Diameter x 30" High Fiberglass Basin And Lid With Inlet And Hub.....	391.67	
22 13 29 33-0012	EA	30" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub.....	690.28	
22 13 29 33-0013	EA	36" Diameter x 36" High Fiberglass Basin And Lid With Inlet And Hub.....	922.53	
22 13 29 33-0014	EA	36" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub.....	1,060.76	
22 13 29 33-0015	EA	36" Diameter x 60" High Fiberglass Basin And Lid With Inlet And Hub.....	1,120.50	
22 13 29 33-0016	EA	36" Diameter x 72" High Fiberglass Basin And Lid With Inlet And Hub.....	1,312.93	
22 13 29 33-0017	EA	48" Diameter x 48" High Fiberglass Basin And Lid With Inlet And Hub.....	1,523.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 14 Facility Storm Drainage (22 10)

22 14 13 Facility Storm Drainage Piping (22 14)
See CSI section 22 13 16 00-0000 for storm drainage piping.

22 14 26 Facility Storm Drains (22 14)

22 14 26 13 Roof Drains (22 14 26)

22 14 26 13-0001 Cast Iron Roof Drains (22 14 26 13)

22 14 26 13-0002 Cast Iron Roof Drains With Large Polypropylene Dome (22 14 26 13-0001)
Note: Dome free area is 124 square inches.

22 14 26 13-0003	EA 15" Diameter Cast Iron Roof Drain With 2" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i>	697.78 518.00 130.00 448.80 147.00 357.00		147.96
22 14 26 13-0004	EA 15" Diameter Cast Iron Roof Drain With 3" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	771.74 518.00 130.00 448.80 147.00 357.00		177.51
22 14 26 13-0005	EA 15" Diameter Cast Iron Roof Drain With 4" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	845.71 518.00 130.00 448.80 147.00 357.00		221.89
22 14 26 13-0006	EA 15" Diameter Cast Iron Roof Drain With 5" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,129.31 518.00 130.00 448.80 147.00 357.00		266.27
22 14 26 13-0007	EA 15" Diameter Cast Iron Roof Drain With 6" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,166.28 518.00 130.00 448.80 147.00 357.00		295.82
22 14 26 13-0008	EA 15" Diameter Cast Iron Roof Drain With 8" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,367.21 518.00 130.00 448.80 147.00 357.00		310.64
22 14 26 13-0009	EA 15" Diameter Cast Iron Roof Drain With 10" Outlet, 124 Square Inch Free Area Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Bronze Dome, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,820.31 518.00 130.00 448.80 147.00 357.00		321.74

22 14 26 13-0010 Cast Iron Roof Drains With Expansion Joint (22 14 26 13-0001)

Note: With polypropylene dome. Dome free area is 124 square inches.

22 14 26 13-0011	EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 2" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,073.41 518.00 130.00 147.00 357.00		147.96
22 14 26 13-0012	EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 3" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,173.61 518.00 130.00 147.00 357.00		177.51
22 14 26 13-0013	EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 4" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,298.68 518.00 130.00 147.00 357.00		221.89
22 14 26 13-0014	EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 5" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,788.05 518.00 130.00 147.00 357.00		266.27
22 14 26 13-0015	EA 15" Diameter Cast Iron Roof Drain With Expansion Joint, 6" Outlet, Polypropylene Dome <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,920.31 518.00 130.00 147.00 357.00		295.82



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26	13-0016		Cast Iron Roof Drains With Flat Bronze Promenade Top (22 14 26 13-0001)		
22 14 26	13-0017	EA	14" x 14" Cast Iron Roof Drain With 2" Outlet, Bronze Promenade Top .....1,443.63	147.96	
			<i>For Galvanized Iron Parts, Add</i> .....480.00		
			<i>For Deck Clamp Assembly, Add</i> .....130.00		
			<i>For Drain Receiver, Add</i> .....147.00		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....357.00		
22 14 26	13-0018	EA	14" x 14" Cast Iron Roof Drain With 3" Outlet, Bronze Promenade Top .....1,517.59	177.51	
			<i>For Galvanized Iron Parts, Add</i> .....480.00		
			<i>For Deck Clamp Assembly, Add</i> .....130.00		
			<i>For Drain Receiver, Add</i> .....147.00		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....357.00		
22 14 26	13-0019	EA	14" x 14" Cast Iron Roof Drain With 4" Outlet, Bronze Promenade Top .....1,591.56	221.89	
			<i>For Galvanized Iron Parts, Add</i> .....480.00		
			<i>For Deck Clamp Assembly, Add</i> .....130.00		
			<i>For Drain Receiver, Add</i> .....147.00		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....357.00		
22 14 26	13-0020	EA	14" x 14" Cast Iron Roof Drain With 5" Outlet, Bronze Promenade Top .....1,864.11	266.27	
			<i>For Galvanized Iron Parts, Add</i> .....480.00		
			<i>For Deck Clamp Assembly, Add</i> .....130.00		
			<i>For Drain Receiver, Add</i> .....147.00		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....357.00		
22 14 26	13-0021	EA	14" x 14" Cast Iron Roof Drain With 6" Outlet, Bronze Promenade Top .....1,901.08	295.82	
			<i>For Galvanized Iron Parts, Add</i> .....480.00		
			<i>For Deck Clamp Assembly, Add</i> .....130.00		
			<i>For Drain Receiver, Add</i> .....147.00		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....357.00		
22 14 26	13-0022		Cast Iron Scupper Drain With L-Shaped Bronze Grate (22 14 26 13-0001)		
22 14 26	13-0023	EA	Cast Iron Scupper Drain With 2" Outlet, L-Shaped Bronze Grate .....922.20	59.20	
			<i>For Vandal Proof Grate, Add</i> .....33.00		
			<i>For Galvanized Iron Parts, Add</i> .....49.00		
22 14 26	13-0024	EA	Cast Iron Scupper Drain With 3" Outlet, L-Shaped Bronze Grate .....951.79	73.93	
			<i>For Vandal Proof Grate, Add</i> .....33.00		
			<i>For Galvanized Iron Parts, Add</i> .....49.00		
22 14 26	13-0025	EA	Cast Iron Scupper Drain With 4" Outlet, L-Shaped Bronze Grate .....965.23	80.68	
			<i>For Vandal Proof Grate, Add</i> .....33.00		
			<i>For Galvanized Iron Parts, Add</i> .....98.00		
22 14 26	13-0026	EA	Cast Iron Scupper Drain With 5" Outlet, L-Shaped Bronze Grate .....1,356.12	106.95	
			<i>For Vandal Proof Grate, Add</i> .....33.00		
			<i>For Galvanized Iron Parts, Add</i> .....98.00		
22 14 26	13-0027	EA	Cast Iron Scupper Drain With 6" Outlet, L-Shaped Bronze Grate .....1,403.30	130.56	
			<i>For Vandal Proof Grate, Add</i> .....33.00		
			<i>For Galvanized Iron Parts, Add</i> .....98.00		
22 14 26	13-0028		Cast Iron Roof Drain With Flat Cast Iron Grate (22 14 26 13-0001)		
			Note: Grate free area is 27 square inches.		
22 14 26	13-0029	EA	9" x 9" Cast Iron Roof Drain With 2" Outlet, Cast Iron Promenade Top .....761.31	147.96	
			<i>For Galvanized Iron Parts, Add</i> .....144.00		
			<i>For Deck Clamp Assembly, Add</i> .....80.40		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....93.60		
22 14 26	13-0030	EA	9" x 9" Cast Iron Roof Drain With 3" Outlet, Cast Iron Promenade Top .....835.27	177.51	
			<i>For Galvanized Iron Parts, Add</i> .....144.00		
			<i>For Deck Clamp Assembly, Add</i> .....80.40		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....93.60		
22 14 26	13-0031	EA	9" x 9" Cast Iron Roof Drain With 4" Outlet, Cast Iron Promenade Top .....909.24	221.89	
			<i>For Galvanized Iron Parts, Add</i> .....144.00		
			<i>For Deck Clamp Assembly, Add</i> .....80.40		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....93.60		
22 14 26	13-0032		Cast Iron Roof Drains With Large Cast Iron Dome (22 14 26 13-0001)		
22 14 26	13-0033	EA	15" Diameter Cast Iron Roof Drain With 2" Outlet, Cast Iron Dome .....816.56	147.96	
			<i>For Galvanized Iron Parts, Add</i> .....518.00		
			<i>For Deck Clamp Assembly, Add</i> .....130.00		
			<i>For Drain Receiver, Add</i> .....147.00		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....357.00		
22 14 26	13-0034	EA	15" Diameter Cast Iron Roof Drain With 3" Outlet, Cast Iron Dome .....890.52	177.51	
			<i>For Galvanized Iron Parts, Add</i> .....518.00		
			<i>For Deck Clamp Assembly, Add</i> .....130.00		
			<i>For Drain Receiver, Add</i> .....147.00		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....357.00		
22 14 26	13-0035	EA	15" Diameter Cast Iron Roof Drain With 4" Outlet, Cast Iron Dome .....964.49	221.89	
			<i>For Galvanized Iron Parts, Add</i> .....518.00		
			<i>For Deck Clamp Assembly, Add</i> .....130.00		
			<i>For Drain Receiver, Add</i> .....147.00		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....357.00		
22 14 26	13-0036	EA	15" Diameter Cast Iron Roof Drain With 5" Outlet, Cast Iron Dome .....1,248.09	266.27	
			<i>For Galvanized Iron Parts, Add</i> .....518.00		
			<i>For Deck Clamp Assembly, Add</i> .....130.00		
			<i>For Drain Receiver, Add</i> .....147.00		
			<i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i> .....357.00		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 13-0037	EA		15" Diameter Cast Iron Roof Drain With 6" Outlet, Cast Iron Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,285.06 518.00 130.00 147.00 357.00	295.82
22 14 26 13-0038	EA		15" Diameter Cast Iron Roof Drain With 8" Outlet, Cast Iron Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,485.99 518.00 130.00 147.00 357.00	310.64
22 14 26 13-0039	EA		15" Diameter Cast Iron Roof Drain With 10" Outlet, Cast Iron Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,939.10 518.00 130.00 147.00 357.00	321.74
22 14 26 13-0040			Aluminum Roof Drains (22 14 26 13)		
22 14 26 13-0041			Aluminum Dome Roof Drains (22 14 26 13-0040)		
22 14 26 13-0042	EA		15" Diameter Roof Drain With 2" Outlet, Aluminum Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	837.28 518.00 130.00 147.00 357.00	147.96
22 14 26 13-0043	EA		15" Diameter Roof Drain With 3" Outlet, Aluminum Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	911.24 518.00 130.00 147.00 357.00	177.51
22 14 26 13-0044	EA		15" Diameter Roof Drain With 4" Outlet, Aluminum Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	985.21 518.00 130.00 147.00 357.00	221.89
22 14 26 13-0045	EA		15" Diameter Roof Drain With 6" Outlet, Aluminum Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,305.78 518.00 130.00 147.00 357.00	295.56
22 14 26 13-0046	EA		15" Diameter Roof Drain With 8" Outlet, Aluminum Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,506.89 518.00 130.00 147.00 357.00	310.64
22 14 26 13-0047	EA		15" Diameter Roof Drain With 10" Outlet, Aluminum Dome..... <i>For Galvanized Iron Parts, Add</i> <i>For Deck Clamp Assembly, Add</i> <i>For Drain Receiver, Add</i> <i>For 4" (10 cm) Fixed Extension Collar, Cast Iron, Add</i>	1,959.81 518.00 130.00 147.00 357.00	321.74
22 14 26 13-0048			Retrofit Roof Drains (22 14 26 13)		
22 14 26 13-0049			Copolymer Retrofit Roof Drains With Copolymer Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0050	EA		Copolymer Retrofit 3" Roof Drains, With Copolymer Dome.....	594.11	177.51
22 14 26 13-0051	EA		Copolymer Retrofit 4" Roof Drains, With Copolymer Dome.....	676.71	221.89
22 14 26 13-0052	EA		Copolymer Retrofit 5" Roof Drains, With Copolymer Dome.....	822.17	266.27
22 14 26 13-0053	EA		Copolymer Retrofit 6" Roof Drains, With Copolymer Dome.....	893.64	295.56
22 14 26 13-0054			Copolymer Retrofit Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0055	EA		Copolymer Retrofit Drain, 3", With Cast Aluminum Dome.....	671.75	177.51
22 14 26 13-0056	EA		Copolymer Retrofit Drain, 4", With Cast Aluminum Dome.....	750.90	221.89
22 14 26 13-0057	EA		Copolymer Retrofit Drain, 5", With Cast Aluminum Dome.....	901.54	266.27
22 14 26 13-0058	EA		Copolymer Retrofit Drain, 6", With Cast Aluminum Dome.....	948.86	295.56
22 14 26 13-0059			Aluminum Retrofit Roof Drains With Cast Aluminum Strainer Dome (22 14 26 13-0048)		
22 14 26 13-0060	EA		Aluminum Retrofit 3" Roof Drains, With Cast Aluminum Dome..... <i>For Copolymer Strainer Dome, Deduct</i>	597.56 -24.00	177.51
22 14 26 13-0061	EA		Aluminum Retrofit 4" Roof Drains, With Cast Aluminum Dome..... <i>For Copolymer Strainer Dome, Deduct</i>	680.16 -24.00	221.89
22 14 26 13-0062	EA		Aluminum Retrofit 5" Roof Drains, With Cast Aluminum Dome..... <i>For Copolymer Strainer Dome, Deduct</i>	825.62 -24.00	266.27
22 14 26 13-0063	EA		Aluminum Retrofit 6" Roof Drains, With Cast Aluminum Dome..... <i>For Copolymer Strainer Dome, Deduct</i>	869.49 -24.00	295.56
22 14 26 13-0064			Bronze Downspout Nozzles (22 14 26 13)		
22 14 26 13-0065	EA		2" Outlet, Bronze Roof Drain Downspout Nozzle.....	346.29	88.76
22 14 26 13-0066	EA		3" Outlet, Bronze Roof Drain Downspout Nozzle.....	346.29	88.76
22 14 26 13-0067	EA		4" Outlet, Bronze Roof Drain Downspout Nozzle.....	346.29	88.76

22 Plumbing

22 10 Plumbing Piping

22 14 Facility Storm Drainage



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26	13-0068	EA	5" Outlet, Bronze Roof Drain Downspout Nozzle	525.77	110.95
22 14 26	13-0069	EA	6" Outlet, Bronze Roof Drain Downspout Nozzle	525.77	110.95
22 14 26	13-0070	EA	8" Outlet, Bronze Roof Drain Downspout Nozzle	667.24	110.95
22 14 26 16 Facility Area Drains (22 14 26)					
22 14 26 16-0001 Area Drain (22 14 26 16)					
22 14 26	16-0002	EA	12" x 12" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,293.05	106.86
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0003	EA	12" x 12" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,316.09	118.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0004	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,340.33	130.56
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0005	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,365.59	143.16
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0006	EA	12" x 12" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,410.87	106.86
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0007	EA	12" x 12" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,433.91	118.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0008	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,458.15	130.56
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0009	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	1,483.41	143.16
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0010	EA	12" x 12" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,140.48	106.86
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0011	EA	12" x 12" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,163.52	118.40
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0012	EA	12" x 12" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,187.76	130.56
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0013	EA	12" x 12" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	2,213.02	143.16
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Vandal Proof Screws, Add</i>	29.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	152.25	
22 14 26	16-0014	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer	4,624.66	106.86
			<i>For Ductile Iron Grate, Add</i>	123.50	
			<i>For Primer Tap, Add</i>	36.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	258.50	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26	16-0015	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,647.70 123.50 36.00 258.50	118.40
22 14 26	16-0016	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,671.94 123.50 36.00 258.50	130.56
22 14 26	16-0017	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Nikaloy Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,697.20 123.50 36.00 258.50	143.16
22 14 26	16-0018	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,257.84 123.50 36.00 258.50	106.86
22 14 26	16-0019	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,280.88 123.50 36.00 258.50	118.40
22 14 26	16-0020	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,305.12 123.50 36.00 258.50	130.56
22 14 26	16-0021	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Cast Iron Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,330.38 123.50 36.00 258.50	143.16
22 14 26	16-0022	EA	16" x 16" Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,384.07 123.50 36.00 258.50	106.86
22 14 26	16-0023	EA	16" x 16" Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,407.11 123.50 36.00 258.50	118.40
22 14 26	16-0024	EA	16" x 16" Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,431.35 123.50 36.00 258.50	130.56
22 14 26	16-0025	EA	16" x 16" Floor Drain With 6" Bottom Outlet, Bronze Top, Medium Duty Loose-Set Cast Iron Grate And Secondary Strainer <i>For Ductile Iron Grate, Add</i> <i>For Primer Tap, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	4,456.61 123.50 36.00 258.50	143.16
22 14 26	16-0026	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Grate, Add</i>	1,021.62 87.50 30.50	106.86
22 14 26	16-0027	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Grate, Add</i>	1,044.66 87.50 30.50	118.40
22 14 26	16-0028	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Nikaloy Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Grate, Add</i>	1,068.90 87.50 30.50	130.56
22 14 26	16-0029	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Grate, Add</i>	618.67 87.50 30.50	106.86
22 14 26	16-0030	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Grate, Add</i>	641.71 87.50 30.50	118.40
22 14 26	16-0031	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Cast Iron Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Grate, Add</i>	665.95 87.50 30.50	130.56
22 14 26	16-0032	EA	9" Diameter Floor Drain With 2" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Grate, Add</i>	962.94 87.50 30.50	106.86



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26 16-0033	EA	9" Diameter Floor Drain With 3" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Grate, Add</i>	985.98 87.50 30.50	118.40
22 14 26 16-0034	EA	9" Diameter Floor Drain With 4" Bottom Outlet, Bronze Top, Medium Duty Anti-Tilting Grate And Perimeter Drainage Slots <i>For Galvanized Cast Iron Parts, Add</i> <i>For Vandal Proof Grate, Add</i>	1,010.22 87.50 30.50	130.56
22 14 26 16-0035	EA	12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,081.34 30.50 126.00 307.50	106.86
22 14 26 16-0036	EA	12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,104.38 30.50 126.00 307.50	118.40
22 14 26 16-0037	EA	12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Nikaloy Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	3,128.62 30.50 126.00 307.50	130.56
22 14 26 16-0038	EA	12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,003.56 30.50 126.00 307.50	106.86
22 14 26 16-0039	EA	12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,026.60 30.50 126.00 307.50	118.40
22 14 26 16-0040	EA	12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Cast Iron Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,050.84 30.50 126.00 307.50	130.56
22 14 26 16-0041	EA	12-7/8" x 10-7/8" Floor Drain With 2" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,893.56 30.50 126.00 307.50	106.86
22 14 26 16-0042	EA	12-7/8" x 10-7/8" Floor Drain With 3" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,916.60 30.50 126.00 307.50	118.40
22 14 26 16-0043	EA	12-7/8" x 10-7/8" Floor Drain With 4" Side Outlet, Bronze Top, Heavy Duty Hinged Grate And Removable Medium-Deep Sediment Strainer <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	2,940.84 30.50 126.00 307.50	130.56
22 14 26 19		Facility Trench Drains (22 14 26)		
22 14 26 19-0001		Trench Drain (22 14 26 19) Note: Each section is 39.4" in length.		
22 14 26 19-0002	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	802.19 48.50 66.00 98.25	106.86
22 14 26 19-0003	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	825.23 48.50 66.00 98.25	118.40
22 14 26 19-0004	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	849.47 48.50 66.00 98.25	130.56
22 14 26 19-0005	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	498.30 48.50 66.00 98.25	106.86
22 14 26 19-0006	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots <i>For Vandal Proof Screws, Add</i> <i>For Ductile Iron Grate, Add</i> <i>For Galvanized Cast Iron Parts, Add</i>	521.34 48.50 66.00 98.25	118.40



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 26	19-0007	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	545.58	130.56
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26	19-0008	EA	6" Wide Trench Drain x 9" Outlet Section With 2" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	760.78	106.86
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26	19-0009	EA	6" Wide Trench Drain x 9" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	783.82	118.40
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26	19-0010	EA	6" Wide Trench Drain x 9" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	808.06	130.56
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26	19-0011	EA	6" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	694.86	53.25
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26	19-0012	EA	6" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	390.97	53.25
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26	19-0013	EA	6" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	653.45	53.25
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	66.00	
			<i>For Galvanized Cast Iron Parts, Add</i>	98.25	
22 14 26	19-0014	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,257.03	106.86
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0015	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,280.07	118.40
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0016	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,304.31	130.56
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0017	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	881.00	106.86
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0018	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	904.04	118.40
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26	19-0019	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	928.28	130.56
			<i>For Vandal Proof Screws, Add</i>	48.50	
			<i>For Ductile Iron Grate, Add</i>	181.50	
			<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
			<i>For Sediment Bucket, Add</i>	116.00	
			<i>For Galvanized Sediment Bucket, Add</i>	188.50	
			<i>For Galvanized Cast Iron Parts, Add</i>	131.50	



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 14 26 19-0020	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,205.60	106.86
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
		<i>For Sediment Bucket, Add</i>	116.00	
		<i>For Galvanized Sediment Bucket, Add</i>	188.50	
		<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0021	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,228.64	118.40
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
		<i>For Sediment Bucket, Add</i>	116.00	
		<i>For Galvanized Sediment Bucket, Add</i>	188.50	
		<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0022	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,252.88	130.56
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
		<i>For Sediment Bucket, Add</i>	116.00	
		<i>For Galvanized Sediment Bucket, Add</i>	188.50	
		<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0023	EA	12" Wide Trench Drain x 15" Outlet Section With 3" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,056.66	106.86
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
		<i>For Sediment Bucket, Add</i>	116.00	
		<i>For Galvanized Sediment Bucket, Add</i>	188.50	
		<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0024	EA	12" Wide Trench Drain x 15" Outlet Section With 4" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,079.70	118.40
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
		<i>For Sediment Bucket, Add</i>	116.00	
		<i>For Galvanized Sediment Bucket, Add</i>	188.50	
		<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0025	EA	12" Wide Trench Drain x 15" Outlet Section With 6" Bottom Outlet, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,103.94	130.56
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
		<i>For Sediment Bucket, Add</i>	116.00	
		<i>For Galvanized Sediment Bucket, Add</i>	188.50	
		<i>For Galvanized Cast Iron Parts, Add</i>	131.50	
22 14 26 19-0026	EA	12" Wide Trench Drain x 15" Extension Section, Nikaloy Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,149.68	53.25
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0027	EA	12" Wide Trench Drain x 15" Extension Section, Cast Iron Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	773.65	53.25
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0028	EA	12" Wide Trench Drain x 15" Extension Section, Bronze Top, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	1,098.25	53.25
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	
22 14 26 19-0029	EA	12" Wide Trench Drain x 15" Extension Section, Galvanized Top And Body, Heavy Duty Body Sections, Heavy Duty Loose Set Grate With Perimeter Drainage Slots	949.31	53.25
		<i>For Vandal Proof Screws, Add</i>	48.50	
		<i>For Ductile Iron Grate, Add</i>	181.50	
		<i>For Convex Grate On Cast Iron Or Ductile Price, Add</i>	38.50	

22 14 29 Sump Pumps (22 14)

See CSI section 22 11 16 00-0000 for pipe extensions into well.

22 14 29 13 Wet-Pit-Mounted, Vertical Sump Pumps (22 14 29)

22 14 29 13-0001		Vertical Mounted Sump Pumps (22 14 29 13)		
		Note: Mounted on steel support plate and supplied with cast iron strainer, 1750 RPM drip-proof motor, 5' column sections.		
22 14 29 13-0002	EA	1 HP Vertical Mounted Cast Iron Sump Pump, 1-1/2" Discharge, Single Stage, 25 GPM 40' Head	3,211.39	257.51
		<i>For Explosion Proof Motor, Add</i>	193.21	
22 14 29 13-0003	EA	1-1/2 HP Vertical Mounted Cast Iron Sump Pump, 2" Discharge, Single Stage, 75 GPM 40' Head	3,443.22	311.68
		<i>For Explosion Proof Motor, Add</i>	214.79	
22 14 29 13-0004	EA	2 HP Vertical Mounted Cast Iron Sump Pump, 2-1/2" Discharge, Single Stage, 100 GPM 40' Head	3,951.87	370.28
		<i>For Explosion Proof Motor, Add</i>	277.48	
22 14 29 13-0005	EA	3 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 150 GPM 40' Head	4,289.01	455.53
		<i>For Explosion Proof Motor, Add</i>	314.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 13-0006 EA 5 HP Vertical Mounted Cast Iron Sump Pump, 3" Discharge, Single Stage, 200 GPM 40' Head <i>For Explosion Proof Motor, Add</i>	4,546.42 459.38	493.71
22 14 29 13-0007 EA 10 HP Vertical Mounted Cast Iron Sump Pump, 4" Discharge, Single Stage, 300 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	5,399.95 521.04	592.27
22 14 29 13-0008 EA 15 HP Vertical Mounted Cast Iron Sump Pump, 5" Discharge, Single Stage, 500 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	6,222.61 854.02	615.16
22 14 29 13-0009 EA 20 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 800 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	7,595.20 1,133.55	749.79
22 14 29 13-0010 EA 30 HP Vertical Mounted Cast Iron Sump Pump, 6" Discharge, Single Stage, 1,000 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	8,286.49 1,469.61	874.45
22 14 29 13-0011 EA 50 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 1,600 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	10,962.28 1,914.61	1,049.71
22 14 29 13-0012 EA 60 HP Vertical Mounted Cast Iron Sump Pump, 8" Discharge, Single Stage, 2,000 GPM 70' Head <i>For Explosion Proof Motor, Add</i>	14,805.81 3,034.80	1,165.93
22 14 29 13-0013 Extra Column Assemblies (22 14 29 13)		
22 14 29 13-0014 EA 1-1/2" Diameter x 5' Long Extra Column Assembly	570.06	
22 14 29 13-0015 EA 2" Diameter x 5' Long Extra Column Assembly	623.78	
22 14 29 13-0016 EA 2-1/2" Diameter x 5' Long Extra Column Assembly	544.22	
22 14 29 13-0017 EA 3" Diameter x 5' Long Extra Column Assembly	819.54	
22 14 29 13-0018 EA 4" Diameter x 5' Long Extra Column Assembly	916.03	
22 14 29 13-0019 EA 5" Diameter x 5' Long Extra Column Assembly	743.67	
22 14 29 13-0020 EA 6" Diameter x 5' Long Extra Column Assembly	1,047.06	
22 14 29 13-0021 EA 8" Diameter x 5' Long Extra Column Assembly	1,145.73	
22 14 29 13-0022 Float Switch (22 14 29 13)		
22 14 29 13-0023 EA General Purpose, Copper Coated Float For Float Switch	668.94	27.96
22 14 29 13-0024 EA Weathertight, Copper Coated Float For Float Switch	699.91	27.96
22 14 29 13-0025 EA Explosion Proof, Copper Coated Float For Float Switch	714.20	27.96
22 14 29 13-0026 Support Plate (22 14 29 13)		
22 14 29 13-0027 EA 24" Steel Support Plate, Round Or Square	521.61	35.51
22 14 29 13-0028 EA 30" Steel Support Plate, Round Or Square	577.60	39.94
22 14 29 13-0029 EA 36" Steel Support Plate, Round Or Square	800.55	53.25
22 14 29 13-0030 EA 40" Steel Support Plate, Round Or Square	1,155.30	62.13
22 14 29 13-0031 EA 42" Steel Support Plate, Round Or Square	1,237.54	64.35
22 14 29 13-0032 EA 48" Steel Support Plate, Round Or Square	1,322.36	66.57
22 14 29 13-0033 EA 54" Steel Support Plate, Round Or Square	1,682.53	79.88
22 14 29 13-0034 EA 60" Steel Support Plate, Round Or Square	2,270.74	88.76
22 14 29 13-0035 EA 72" Steel Support Plate, Round Or Square	3,029.16	110.95
22 14 29 13-0036 EA 84" Steel Support Plate, Round Or Square	3,652.23	122.04
22 14 29 16 Submersible Sump Pumps (22 14 29)		
Note: Includes 25' of cord with pumps unless otherwise noted.		
22 14 29 16-0001 Submersible Sump Pump With Vortex Impeller (22 14 29 16)		
22 14 29 16-0002 Submersible Sump Pump With Cast Iron Vortex Impeller (22 14 29 16-0001)		
22 14 29 16-0003 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	309.13	57.83
22 14 29 16-0004 EA 1/3 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	339.40	57.83
22 14 29 16-0005 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	481.99	61.20
22 14 29 16-0006 EA 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Impeller	517.33	61.20
22 14 29 16-0007 Submersible Sump Pump With Bronze Vortex Impeller (22 14 29 16-0001)		
22 14 29 16-0008 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	747.95	61.20
22 14 29 16-0009 EA 1/2 HP Automatic Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	808.90	61.20
22 14 29 16-0010 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	852.04	67.46
22 14 29 16-0011 EA 1 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	915.13	67.46
22 14 29 16-0012 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	960.25	77.11
22 14 29 16-0013 EA 1-1/2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,023.34	77.11
22 14 29 16-0014 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,040.59	91.56
22 14 29 16-0015 EA 2 HP Automatic Submersible Sump Pump, 230 Volt, 1 Phase, 1-1/2" Threaded or 2" To 3" Flanged Discharge, Epoxy-Coated Cast Steel Housing And Bronze Impeller	1,092.59	91.56
22 14 29 16-0016 Submersible Sump Pump With Semi-Open Impeller (22 14 29 16)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 14 29 16-0017 EA 1/3 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller	731.20	57.83
22 14 29 16-0018 EA 1/2 HP Manual Submersible Sump Pump, 115 Volt Or 230 Volt, 1 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller	833.20	61.20
22 14 29 16-0019 EA 3/4 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller	988.49	64.58
22 14 29 16-0020 EA 1 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller	1,044.30	67.46
22 14 29 16-0021 EA 1-1/2 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller	1,191.33	77.11
22 14 29 16-0022 EA 2 HP Manual Submersible Sump Pump, 230 Volt, 1 Or 3 Phase, 2" Threaded Discharge, Epoxy-Coated Cast Steel Housing And Semi-Open Impeller	1,387.97	91.56
22 14 29 19 Sump-Pump Basins and Pits (22 14 29) See CSI section 22 13 29 33-0000 for basins and pits.		
22 15 General Service Compressed-Air Systems (22 10)		
22 15 13 General Service Compressed-Air Piping (22 15)		
22 15 13 00-0001 Quick Disconnect, Air-Service (22 15 13)		
22 15 13 00-0002 Combination Steel And Brass (22 15 13 00-0001)		
22 15 13 00-0003 EA 1/2" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket	44.14	13.50
22 15 13 00-0004 EA 3/4" Combination Steel And Brass Disconnect Valve, Single Seated With Arm Ball And Bracket	48.95	16.38
22 15 13 00-0005 Refrigerated Air Dryers With Ambient Air Filters (22 15 13)		
22 15 13 00-0006 EA 3 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	624.24	77.11
22 15 13 00-0007 EA 5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	709.05	79.25
22 15 13 00-0008 EA 7.5 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	901.25	81.39
22 15 13 00-0009 EA 10 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	1,048.20	85.68
22 15 13 00-0010 EA 15 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	1,166.25	96.39
22 15 13 00-0011 EA 20 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	1,295.02	109.67
22 15 13 00-0012 EA 30 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	1,833.39	139.22
22 15 13 00-0013 EA 40 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	2,062.81	162.79
22 15 13 00-0014 EA 50 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	2,242.21	173.93
22 15 13 00-0015 EA 60 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	2,437.35	192.77
22 15 13 00-0016 EA 75 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	2,744.72	214.20
22 15 13 00-0017 EA 85 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	3,054.78	235.62
22 15 13 00-0018 EA 100 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	3,216.79	261.32
22 15 13 00-0019 EA 125 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	3,748.75	278.45
22 15 13 00-0020 EA 175 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	4,511.38	289.16
22 15 13 00-0021 EA 200 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	5,323.71	299.88
22 15 13 00-0022 EA 250 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	5,913.95	310.58
22 15 13 00-0023 EA 300 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	6,438.10	321.29
22 15 13 00-0024 EA 400 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	7,193.98	342.71
22 15 13 00-0025 EA 500 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	8,410.03	428.39
22 15 13 00-0026 EA 600 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	10,633.19	514.06
22 15 13 00-0027 EA 800 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	11,849.24	599.74
22 15 13 00-0028 EA 1,000 SCFM Capacity Refrigerated Air Dryers With Ambient Air Filters	13,939.46	685.43
22 15 13 00-0029 Oil And Water Separator For Air Compressor (22 15 13)		
22 15 13 00-0030 EA 0-60 SCFM Oil/Water Separator	577.24	30.86
22 15 13 00-0031 EA 85 SCFM Oil/Water Separator	773.26	36.16
22 15 13 00-0032 EA 190 SCFM Oil/Water Separator	903.74	40.98
22 15 13 00-0033 EA 245 SCFM Oil/Water Separator	1,134.39	48.21
22 15 13 00-0034 EA 320 SCFM Oil/Water Separator	1,348.39	57.85
22 15 13 00-0035 EA 700 SCFM Oil/Water Separator	2,718.51	120.52
22 15 13 00-0036 Heavy Duty Industrial Pressure Regulator (22 15 13)		
22 15 13 00-0037 EA 3/8" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	101.09	25.70
22 15 13 00-0038 EA 1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	141.05	34.27
22 15 13 00-0039 EA 3/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	239.83	42.84
22 15 13 00-0040 EA 1" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	301.47	64.26
22 15 13 00-0041 EA 1-1/4" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	420.30	74.96
22 15 13 00-0042 EA 1-1/2" Pressure Regulator, Max 300 PSI Input, 2-125 PSI Output	441.71	85.68
22 15 13 00-0043 Combination Air System; Filter Regulator Lubricator (22 15 13)		
22 15 13 00-0044 EA 3/8" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter	382.48	77.11
22 15 13 00-0045 EA 1/2" Filter Regulator Lubricator, Max 150 PSI Input, 150 CFM, 40 Micron Filter	474.18	102.81
22 15 13 00-0046 Heatless Desiccant Air Dryers (22 15 13)		
22 15 13 00-0047 EA 5 SCFM Heatless Desiccant Air Dryer	2,225.76	77.11
22 15 13 00-0048 EA 10 SCFM Heatless Desiccant Air Dryer	2,675.67	85.68
22 15 13 00-0049 EA 15 SCFM Heatless Desiccant Air Dryer	2,702.21	94.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0050 EA 20 SCFM Heatless Desiccant Air Dryer	3,086.49	107.09
22 15 13 00-0051 EA 30 SCFM Heatless Desiccant Air Dryer	4,250.52	128.52
22 15 13 00-0052 EA 50 SCFM Heatless Desiccant Air Dryer	4,200.57	171.35
22 15 13 00-0053 EA 85 SCFM Heatless Desiccant Air Dryer	5,641.14	214.20
22 15 13 00-0054 EA 100 SCFM Heatless Desiccant Air Dryer	5,988.39	257.03
22 15 13 00-0055 EA 125 SCFM Heatless Desiccant Air Dryer	6,856.11	299.88
22 15 13 00-0056 EA 175 SCFM Heatless Desiccant Air Dryer	7,872.77	342.71
22 15 13 00-0057 EA 200 SCFM Heatless Desiccant Air Dryer	8,461.33	385.55
22 15 13 00-0058 EA 300 SCFM Heatless Desiccant Air Dryer	10,343.66	428.39
22 15 13 00-0059 EA 400 SCFM Heatless Desiccant Air Dryer	11,492.58	514.06
22 15 13 00-0060 EA 500 SCFM Heatless Desiccant Air Dryer	13,283.35	599.74
22 15 13 00-0061 EA 600 SCFM Heatless Desiccant Air Dryer	15,326.57	685.43
22 15 13 00-0062 Air Cooled Aftercoolers (22 15 13)		
22 15 13 00-0063 EA 20 SCFM Air-Cooled Aftercooler	563.67	53.55
22 15 13 00-0064 EA 35 SCFM Air-Cooled Aftercooler	760.98	64.26
22 15 13 00-0065 EA 43 SCFM Air-Cooled Aftercooler	836.11	74.96
22 15 13 00-0066 EA 70 SCFM Air-Cooled Aftercooler	1,021.34	85.68
22 15 13 00-0067 EA 125 SCFM Air-Cooled Aftercooler	1,421.43	96.39
22 15 13 00-0068 EA 185 SCFM Air-Cooled Aftercooler	1,595.94	107.09
22 15 13 00-0069 EA 260 SCFM Air-Cooled Aftercooler	3,085.50	128.52
22 15 13 00-0070 EA 365 SCFM Air-Cooled Aftercooler	3,226.65	149.94
22 15 13 00-0071 EA 560 SCFM Air-Cooled Aftercooler	3,366.70	171.35
22 15 13 00-0072 EA 650 SCFM Air-Cooled Aftercooler	3,947.73	192.77
22 15 13 00-0073 EA 750 SCFM Air-Cooled Aftercooler	4,316.06	214.20
22 15 13 00-0074 EA 900 SCFM Air-Cooled Aftercooler	4,948.66	235.62
22 15 13 00-0075 EA 1,100 SCFM Air-Cooled Aftercooler	6,350.41	257.03
22 15 13 00-0076 EA 1,460 SCFM Air-Cooled Aftercooler	7,262.85	278.45
22 15 13 00-0077 EA 1,800 SCFM Air-Cooled Aftercooler	7,500.39	299.88
22 15 13 00-0078 EA 2,500 SCFM Air-Cooled Aftercooler	8,042.75	321.29
22 15 13 00-0079 Compressed Air Coalescing Filters (22 15 13)		
22 15 13 00-0080 1.0 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)		
22 15 13 00-0081 EA 10 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating	196.95	31.34
22 15 13 00-0082 EA 20 SCFM, 3/8", Coalescing Filter, 1.0 Micron Filter Rating	234.55	31.34
22 15 13 00-0083 EA 50 SCFM, 1/2", Coalescing Filter, 1.0 Micron Filter Rating	256.27	36.16
22 15 13 00-0084 EA 75 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating	295.08	41.46
22 15 13 00-0085 EA 100 SCFM, 3/4", Coalescing Filter, 1.0 Micron Filter Rating	344.04	45.80
22 15 13 00-0086 EA 140 SCFM, 1", Coalescing Filter, 1.0 Micron Filter Rating	390.18	55.43
22 15 13 00-0087 EA 175 SCFM, 1-1/4" Coalescing Filter, 1.0 Micron Filter Rating	471.93	60.26
22 15 13 00-0088 EA 250 SCFM, 1-1/2" Coalescing Filter, 1.0 Micron Filter Rating	509.86	72.32
22 15 13 00-0089 EA 280 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating	654.75	96.41
22 15 13 00-0090 EA 350 SCFM, 2" Coalescing Filter, 1.0 Micron Filter Rating	748.69	108.46
22 15 13 00-0091 0.01 Micron Filter Rated Compressed Air Coalescing Filters (22 15 13 00-0079)		
22 15 13 00-0092 EA 16 SCFM, 3/8" Coalescing Filter, 0.01 Micron Filter Rating	239.92	31.34
22 15 13 00-0093 EA 30 SCFM, 1/2" Coalescing Filter, 0.01 Micron Filter Rating	260.29	36.16
22 15 13 00-0094 EA 60 SCFM, 3/4" Coalescing Filter, 0.01 Micron Filter Rating	298.84	41.46
22 15 13 00-0095 EA 100 SCFM, 1" Coalescing Filter, 0.01 Micron Filter Rating	351.56	40.98
22 15 13 00-0096 EA 140 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating	398.78	55.43
22 15 13 00-0097 EA 180 SCFM, 1-1/4" Coalescing Filter, 0.01 Micron Filter Rating	452.19	60.26
22 15 13 00-0098 EA 250 SCFM, 1-1/2" Coalescing Filter, 0.01 Micron Filter Rating	519.53	72.32
22 15 13 00-0099 EA 280 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating	670.87	96.41
22 15 13 00-0100 EA 350 SCFM, 2" Coalescing Filter, 0.01 Micron Filter Rating	770.17	108.46
22 15 13 00-0101 Compressed Air Storage Tanks (22 15 13)		
22 15 13 00-0102 Horizontal Compressed Air Storage Tanks (22 15 13 00-0101)		
22 15 13 00-0103 EA 12 Gallon Horizontal Compressed Air Storage Tank, ASME	325.08	68.54
22 15 13 00-0104 EA 15 Gallon Horizontal Compressed Air Storage Tank, ASME	512.98	74.96
22 15 13 00-0105 EA 20 Gallon Horizontal Compressed Air Storage Tank, ASME	543.37	78.82
22 15 13 00-0106 EA 30 Gallon Horizontal Compressed Air Storage Tank, ASME	618.57	85.68
22 15 13 00-0107 EA 60 Gallon Horizontal Compressed Air Storage Tank, ASME	808.34	115.66
22 15 13 00-0108 EA 80 Gallon Horizontal Compressed Air Storage Tank, ASME	973.34	128.52
22 15 13 00-0109 EA 120 Gallon Horizontal Compressed Air Storage Tank, ASME	1,450.49	149.94
22 15 13 00-0110 EA 200 Gallon Horizontal Compressed Air Storage Tank, ASME	2,151.33	171.35
22 15 13 00-0111 EA 240 Gallon Horizontal Compressed Air Storage Tank, ASME	2,396.49	182.07
22 15 13 00-0112 EA 325 Gallon Horizontal Compressed Air Storage Tank, ASME	3,448.69	192.77
22 15 13 00-0113 EA 400 Gallon Horizontal Compressed Air Storage Tank, ASME	4,537.17	224.90
22 15 13 00-0114 EA 660 Gallon Horizontal Compressed Air Storage Tank, ASME	6,514.31	267.75
22 15 13 00-0115 Vertical Compressed Air Storage Tanks (22 15 13 00-0101)		
22 15 13 00-0116 EA 10 Gallon Vertical Compressed Air Storage Tank, ASME	477.44	68.54
22 15 13 00-0117 EA 15 Gallon Vertical Compressed Air Storage Tank, ASME	501.64	74.96
22 15 13 00-0118 EA 20 Gallon Vertical Compressed Air Storage Tank, ASME	543.37	78.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 13 00-0119 EA 30 Gallon Vertical Compressed Air Storage Tank, ASME.....	641.03	85.68
22 15 13 00-0120 EA 60 Gallon Vertical Compressed Air Storage Tank, ASME.....	875.73	115.66
22 15 13 00-0121 EA 80 Gallon Vertical Compressed Air Storage Tank, ASME.....	1,005.80	128.52
22 15 13 00-0122 EA 120 Gallon Vertical Compressed Air Storage Tank, ASME.....	1,379.92	149.94
22 15 13 00-0123 EA 200 Gallon Vertical Compressed Air Storage Tank, ASME.....	2,005.89	171.35
22 15 13 00-0124 EA 240 Gallon Vertical Compressed Air Storage Tank, ASME.....	2,211.11	182.07
22 15 13 00-0125 EA 325 Gallon Vertical Compressed Air Storage Tank, ASME.....	2,994.90	192.77
22 15 13 00-0126 EA 400 Gallon Vertical Compressed Air Storage Tank, ASME.....	3,832.89	224.90
22 15 13 00-0127 EA 500 Gallon Vertical Compressed Air Storage Tank, ASME.....	4,987.54	246.33
22 15 13 00-0128 EA 660 Gallon Vertical Compressed Air Storage Tank, ASME.....	8,260.17	278.45

22 15 19 General Service Packaged Air Compressors And Receivers (22 15)

Note: Includes V-belt drive, receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.

22 15 19 13 General Service Packaged Reciprocating Air Compressors (22 15 19)

22 15 19 13-0001 Single Stage Compressor (22 15 19 13)

Note: Includes receiver, reciprocating air cooled, 140 PSIG working pressure, splash lubricated, tank mounted.

22 15 19 13-0002 EA 1/2 HP 1-Stage Air Compressor, 1.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure.....	2,183.63	303.99
22 15 19 13-0003 EA 3/4 HP 1-Stage Air Compressor, 2.0 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure.....	2,287.94	350.85
22 15 19 13-0004 EA 1 HP 1-Stage Air Compressor, 2.5 ACFM Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure.....	2,613.60	414.34
22 15 19 13-0005 EA 2 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure.....	2,974.70	457.18
22 15 19 13-0006 EA 3 HP 1-Stage Air Compressor, Air Cooled With 30 Gallon Receiver, 140 PSIG Working Pressure.....	3,623.85	482.88
22 15 19 13-0007 EA 3 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure.....	3,868.84	500.01
22 15 19 13-0008 EA 5 HP 1-Stage Air Compressor, Air Cooled With 60 Gallon Receiver, 140 PSIG Working Pressure.....	4,346.46	571.47
22 15 19 13-0009 EA 5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure.....	4,660.59	605.75
22 15 19 13-0010 EA 7.5 HP 1-Stage Air Compressor, Air Cooled With 80 Gallon Receiver, 140 PSIG Working Pressure.....	5,583.88	685.77

22 15 19 13-0011 Two Stage Compressor (22 15 19 13)

Note: With receiver, reciprocating air cooled, discharge pressure 80-200 PSIG, receiver capacity as noted, splash lubricated, tank mounted.

22 15 19 13-0012 EA 1-1/2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 5.0 ACFM, 80-200 PSIG Discharge Pressure.....	4,166.07	534.29
22 15 19 13-0013 EA 2 HP 2-Stage Air Compressor, 60 Gallon Receiver, 7.0 ACFM, 80-200 PSIG Discharge Pressure.....	4,483.13	628.62
22 15 19 13-0014 EA 3 HP 2-Stage Air Compressor, 60 Gallon Receiver, 12 ACFM, 80-200 PSIG Discharge Pressure.....	4,691.62	685.77
22 15 19 13-0015 EA 5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 15 ACFM, 80-200 PSIG Discharge Pressure.....	5,382.59	914.36
22 15 19 13-0016 EA 5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 16.5 ACFM, 80-200 PSI Max Discharge Pressure.....	5,789.02	914.36
22 15 19 13-0017 EA 7.5 HP 2-Stage Air Compressor, 80 Gallon Receiver, 19.8 ACFM, 80-200 PSIG Discharge Pressure.....	6,246.74	1,142.95
22 15 19 13-0018 EA 7.5 HP 2-Stage Air Compressor, 120 Gallon Receiver, 25.6 ACFM, 80-200 PSI Max Discharge Pressure.....	6,615.37	1,142.95
22 15 19 13-0019 EA 10 HP 2-Stage Air Compressor, 80 Gallon Receiver, 35.0 ACFM, 80-200 PSI Max Discharge Pressure.....	8,474.79	1,413.69
22 15 19 13-0020 EA 10 HP 2-Stage Air Compressor, 120 Gallon Receiver, 38 ACFM, 80-200 PSIG Discharge Pressure.....	9,104.10	1,456.53
22 15 19 13-0021 EA 15 HP 2-Stage Air Compressor, 120 Gallon Receiver, 50 ACFM, 80-200 PSIG Discharge Pressure.....	9,832.04	1,702.25
22 15 19 13-0022 EA 20 HP 2-Stage Air Compressor, 120 Gallon Receiver, 70 ACFM, 80-200 PSIG Discharge Pressure.....	14,698.28	1,926.90
22 15 19 13-0023 EA 25 HP 2-Stage Air Compressor, 120 Gallon Receiver, 84.4 ACFM, 175 PSI Max Discharge Pressure.....	15,809.86	2,177.34
22 15 19 13-0024 EA 30 HP 2-Stage Air Compressor, 120 Gallon Receiver, 97.2 ACFM, 175 PSI Max Discharge Pressure.....	17,617.62	2,406.44
22 15 19 13-0025 EA 30 HP 2-Stage Air Compressor, 250 Gallon Receiver, 101 ACFM, 175 PSI Max Discharge Pressure.....	19,169.66	2,637.34

22 15 19 19 General Service Packaged Rotary-Screw Air Compressors (22 15 19)

22 15 19 19-0001 Rotary Screw Air Compressor, Base Mounted Without Receiver (22 15 19 19)

Note: Oil flooded.

22 15 19 19-0002 EA 3 HP, 8.5 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated.....	7,089.06	769.39
22 15 19 19-0003 EA 5 HP, 16.6 SCFM, Rotary Screw Air Compressor With Enclosure, 150 PSIG Max Discharge Pressure, Lubricated.....	7,937.86	1,025.86
22 15 19 19-0004 EA 7.5 HP, 27 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	10,172.33	1,286.18
22 15 19 19-0005 EA 10 HP, 37 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	11,796.22	1,639.05
22 15 19 19-0006 EA 15 HP, 56 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	13,499.46	1,928.30
22 15 19 19-0007 EA 20 HP, 79 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	16,355.87	2,169.34
22 15 19 19-0008 EA 25 HP, 114 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	17,932.49	2,410.38
22 15 19 19-0009 EA 30 HP, 137 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	21,529.95	2,699.62
22 15 19 19-0010 EA 40 HP, 183 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	23,654.75	2,892.45
22 15 19 19-0011 EA 50 HP, 214 SCFM, Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	26,532.97	3,117.09
22 15 19 19-0012 EA 60 HP, 256 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	34,388.61	3,374.53
22 15 19 19-0013 EA 75 HP, 320 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	38,129.69	3,567.36
22 15 19 19-0014 EA 100 HP, 494 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	60,924.18	3,856.60
22 15 19 19-0015 EA 125 HP, 592 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	75,913.03	4,169.95
22 15 19 19-0016 EA 150 HP, 695 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	88,128.94	4,488.12
22 15 19 19-0017 EA 220 HP, 996 SCFM Rotary Screw Air Compressor With Enclosure, 100 PSIG Max Discharge Pressure, Lubricated.....	114,511.94	4,820.76
22 15 19 19-0018 EA 250 HP, 1,000 SCFM Rotary Screw Air Compressor With Enclosure, 125 PSIG Max Discharge Pressure, Lubricated.....	130,052.34	5,129.28

22 15 19 19-0019 Rotary Screw Air Compressor, Base Mounted With Receiver (22 15 19 19)

Note: Includes receiver, motor, starter mounted and wired. Excludes piping, pressure reducing valve station, or air dryer.

22 15 19 19-0020 EA 5 HP, 18.5 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated.....	8,858.49	1,025.86
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 15 19 19-0021 EA 5 HP, 18.5 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 150 PSIG Max Discharge Pressure, Lubricated.....	9,402.92	1,025.86
22 15 19 19-0022 EA 7.5 HP, 28 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	10,605.24	1,286.18
22 15 19 19-0023 EA 7.5 HP, 28 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	11,200.71	1,286.18
22 15 19 19-0024 EA 10 HP, 38 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	12,034.41	1,639.05
22 15 19 19-0025 EA 10 HP, 38 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	12,663.91	1,639.05
22 15 19 19-0026 EA 15 HP, 55 SCFM, 80 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	13,696.07	1,928.30
22 15 19 19-0027 EA 15 HP, 55 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	14,376.61	1,928.30
22 15 19 19-0028 EA 20 HP, 75 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	23,524.26	2,169.34
22 15 19 19-0029 EA 25 HP, 102 SCFM, 120 gallon receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	25,356.09	2,410.38
22 15 19 19-0030 EA 30 HP, 125 SCFM, 120 Gallon Receiver, Rotary Screw Air Compressor, 125 PSIG Max Discharge Pressure, Lubricated.....	27,017.78	2,699.62

22 30 Plumbing Equipment ⁽²²⁾

22 31 Domestic Water Softeners ^(22 30)

22 31 13 Residential Domestic Water Softeners ^(22 31)

See CSI section 11 30 13 13-0109 for residential water softener.

22 31 16 Commercial Domestic Water Softeners ^(22 31)

22 31 16 00-0001 Commercial Water Softeners (Watts Pure Water) ^(22 31 16)

22 31 16 00-0002 Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0001)

22 31 16 00-0003 1" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0004 EA 30,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111A11).....	3,090.81	244.08
22 31 16 00-0005 EA 45,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111B11).....	3,230.73	255.17
22 31 16 00-0006 EA 60,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111C11).....	3,484.56	266.27
22 31 16 00-0007 EA 90,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111D11).....	4,002.99	277.36
22 31 16 00-0008 EA 120,000 Grain Capacity, 1" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10111E11).....	4,264.42	288.46

22 31 16 00-0009 1-1/2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0010 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121C11).....	4,602.33	266.27
22 31 16 00-0011 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121D11).....	4,839.73	277.36
22 31 16 00-0012 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121E11).....	5,102.43	288.46
22 31 16 00-0013 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121F11).....	6,051.26	299.55
22 31 16 00-0014 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121G11).....	6,720.30	310.64
22 31 16 00-0015 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS15121H11).....	8,166.60	321.74

22 31 16 00-0016 2" Pipe Connection, Commercial Water Softeners (Watts Pure Water) ^(22 31 16 00-0002)

Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.

22 31 16 00-0017 EA 90,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D11).....	6,953.75	277.36
22 31 16 00-0018 EA 120,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E11).....	7,207.59	288.46
22 31 16 00-0019 EA 150,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F11).....	8,158.95	299.55
22 31 16 00-0020 EA 210,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G11).....	8,827.99	310.64
22 31 16 00-0021 EA 300,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H11).....	10,352.78	321.74
22 31 16 00-0022 EA 450,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I11).....	13,629.55	332.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0023 EA 600,000 Grain Capacity, 2" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J11)	15,931.59	343.93
22 31 16 00-0024 3" Pipe Connection, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0024) Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0025 EA 300,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H11)	16,712.56	321.74
22 31 16 00-0026 EA 450,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I11)	19,296.89	332.84
22 31 16 00-0027 EA 600,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J11)	21,568.55	343.93
22 31 16 00-0028 EA 900,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K11)	27,134.02	355.02
22 31 16 00-0029 EA 1050,000 Grain Capacity, 3" Pipe Connection, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L11)	30,037.36	366.12
22 31 16 00-0030 Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0030)		
22 31 16 00-0031 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0031) Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0032 EA 90,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131D21)	11,402.19	416.04
22 31 16 00-0033 EA 120,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131E21)	11,907.64	432.68
22 31 16 00-0034 EA 150,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131F21)	13,547.32	449.33
22 31 16 00-0035 EA 210,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131G21)	14,804.71	465.97
22 31 16 00-0036 EA 300,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131H21)	18,048.27	482.61
22 31 16 00-0037 EA 450,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131I21)	23,871.70	499.25
22 31 16 00-0038 EA 600,000 Grain Capacity, 2" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS20131J21)	28,077.32	515.89
22 31 16 00-0039 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0039) Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and two fully automatic metered demand control valves.		
22 31 16 00-0040 EA 300,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151H21)	30,661.50	482.61
22 31 16 00-0041 EA 450,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151I21)	35,208.92	499.25
22 31 16 00-0042 EA 600,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151J21)	39,555.05	515.89
22 31 16 00-0043 EA 900,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151K21)	50,296.41	532.53
22 31 16 00-0044 EA 1,050,000 Grain Capacity, 3" Pipe Connection, Duplex Alternating (Two Valves), Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS30151L21)	56,143.89	549.17
22 31 16 00-0045 Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0045)		
22 31 16 00-0046 1" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0046) Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0047 EA 30,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21)	4,076.70	366.12
22 31 16 00-0048 EA 45,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21)	4,345.43	382.76
22 31 16 00-0049 EA 60,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21)	4,734.42	399.40
22 31 16 00-0050 EA 90,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21)	5,663.95	416.04
22 31 16 00-0051 EA 120,000 Grain Capacity, 1" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21)	6,256.75	432.68
22 31 16 00-0052 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softeners (Watts Pure Water) (22 31 16 00-0052) Note: Includes corrosion resistant NSF Certified fiberglass mineral and brine tanks and fully automatic metered demand control valve.		
22 31 16 00-0053 EA 60,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161A21)	7,890.26	399.40



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 31 16 00-0054 EA 90,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161B21).....	8,318.50	416.04
22 31 16 00-0055 EA 120,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161C21).....	8,949.28	432.68
22 31 16 00-0056 EA 150,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161D21).....	10,230.72	449.33
22 31 16 00-0057 EA 210,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21).....	11,531.14	465.97
22 31 16 00-0058 EA 300,000 Grain Capacity, 1-1/2" Pipe Connection, Twin Alternating, Commercial Water Softener With Fiberglass Tanks (Watts Pure Water PWS10T161E21).....	14,408.87	482.61

22 32 Domestic Water Filtration Equipment (22 30)

22 32 16 Domestic-Water Freestanding Cartridge Filters (22 32)

22 32 16 00-0001 Commercial Water Filters Housings <small>(22 32 16)</small>		
22 32 16 00-0002 Commercial Multi-Cartridge Stainless Steel Water Filter Housings <small>(22 32 16 00-0001)</small>		
22 32 16 00-0003 Commercial Multi-Cartridge Stainless Steel Water Filter Housings <small>(22 32 16 00-0002)</small>		
22 32 16 00-0004 EA 25 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X1).....	1,610.88	156.67
22 32 16 00-0005 EA 30 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X1).....	1,646.37	168.73
22 32 16 00-0006 EA 60 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X2).....	1,752.76	180.78
22 32 16 00-0007 EA 90 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X3).....	1,937.63	192.83
22 32 16 00-0008 EA 120 GPM Max Flow Rate, 4 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS4X4).....	1,998.45	204.88
22 32 16 00-0009 EA 150 GPM Max Flow Rate, 5 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS5X4).....	2,409.90	216.94
22 32 16 00-0010 EA 250 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X3).....	6,619.01	228.99
22 32 16 00-0011 EA 300 GPM Max Flow Rate, 12 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS12X4).....	7,689.99	241.04
22 32 16 00-0012 EA 500 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X3).....	9,742.04	253.09
22 32 16 00-0013 EA 600 GPM Max Flow Rate, 22 Cartridge, Commercial Multi-Cartridge Stainless Steel Water Filter Housing (Watts Pure Water PWHS22X4).....	10,800.36	265.14

22 32 16 00-0014 Commercial Water Filter Cartridges (22 32 16 00-0002)

22 32 16 00-0015 (Depth) Water Filter Cartridges <small>(22 32 16 00-0014)</small>		
22 32 16 00-0016 EA 50 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M50).....	8.60	1.93
22 32 16 00-0017 EA 20 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M20).....	8.60	1.93
22 32 16 00-0018 EA 10 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M10).....	8.60	1.93
22 32 16 00-0019 EA 5 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M5).....	7.33	1.93
22 32 16 00-0020 EA 1 Micron, 10" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB10M1).....	8.91	1.93
22 32 16 00-0021 EA 50 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M50).....	8.91	1.93
22 32 16 00-0022 EA 20 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M20).....	9.55	1.93
22 32 16 00-0023 EA 5 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M5).....	11.76	1.93
22 32 16 00-0024 EA 1 Micron, 20" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB20M1).....	9.55	1.93
22 32 16 00-0025 EA 50 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M50).....	11.13	1.93
22 32 16 00-0026 EA 20 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M20).....	11.13	1.93
22 32 16 00-0027 EA 5 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M5).....	11.13	1.93
22 32 16 00-0028 EA 1 Micron, 30" Depth, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB30M1).....	12.08	1.93
22 32 16 00-0029 EA 50 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M50).....	15.56	1.93
22 32 16 00-0030 EA 20 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M20).....	14.29	1.93
22 32 16 00-0031 EA 5 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M5).....	14.29	1.93
22 32 16 00-0032 EA 1 Micron, 40" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Pure Water PWMB40M1).....	15.56	1.93

22 32 16 00-0033 Pleated Water Filter Cartridges (22 32 16 00-0014)

22 32 16 00-0034 EA 50 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M50).....	14.61	1.93
22 32 16 00-0035 EA 20 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M20).....	14.61	1.93
22 32 16 00-0036 EA 5 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M5).....	14.93	1.93
22 32 16 00-0037 EA 1 Micron, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1).....	15.88	1.93
22 32 16 00-0038 EA 1 Micron Absolute, 9-3/4" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL10M1AB).....	23.47	1.93
22 32 16 00-0039 EA 50 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M50).....	22.52	1.93
22 32 16 00-0040 EA 20 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M20).....	22.52	1.93
22 32 16 00-0041 EA 5 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Big Pure Water PWPL20M5).....	22.52	1.93
22 32 16 00-0042 EA 1 Micron, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1).....	29.48	1.93
22 32 16 00-0043 EA 1 Micron Absolute, 20" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL20M1AB).....	41.51	1.93
22 32 16 00-0044 EA 50 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M50).....	34.86	1.93
22 32 16 00-0045 EA 20 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M20).....	48.16	1.93
22 32 16 00-0046 EA 5 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M5).....	50.05	1.93
22 32 16 00-0047 EA 1 Micron, 40" Length, Pleated Water Filter Cartridge (Watts Pure Water PWPL40M1).....	56.38	1.93

22 32 16 00-0048 Commercial Non-Metallic Water Filter Housings (22 32 16 00-0001)

22	Plumbing
22 30	Plumbing Equipment
22 32	Domestic Water Filtration Equipment



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 32 16 00-0049		Commercial Non-Metallic Water Filter Housings <small>(22 32 16 00-0048)</small>		
22 32 16 00-0050	EA	150 GPM Max Flow Rate, 1 Cartridge, Commercial Non-Metallic Water Filter Housing (Watts Big Bubba® PWWJCHSG).....	1,277.26	144.62
22 32 16 00-0051		Commercial Water Filter Cartridges <small>(22 32 16 00-0048)</small>		
22 32 16 00-0052		Carbon Water Filter Cartridges <small>(22 32 16 00-0051)</small>		
22 32 16 00-0053	EA	Activated 26-1/4" Length, Carbon Water Filter Cartridge (Watts Big Bubba® PWWJCAC5).....	398.17	1.93
22 32 16 00-0054		(Depth) Water Filter Cartridges <small>(22 32 16 00-0051)</small>		
22 32 16 00-0055	EA	50 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB50).....	83.28	1.93
22 32 16 00-0056	EA	20 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB20).....	82.65	1.93
22 32 16 00-0057	EA	5 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB5).....	82.65	1.93
22 32 16 00-0058	EA	1 Micron, 26-1/4" Length, Melt Blown (Depth) Water Filter Cartridge (Watts Big Bubba® PWWJCMB1).....	94.68	1.93
22 32 16 00-0059		Pleated Water Filter Cartridges <small>(22 32 16 00-0051)</small>		
22 32 16 00-0060	EA	150 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCM150).....	219.05	1.93
22 32 16 00-0061	EA	50 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP50).....	205.76	1.93
22 32 16 00-0062	EA	20 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP20).....	224.11	1.93
22 32 16 00-0063	EA	5 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP5).....	234.87	1.93
22 32 16 00-0064	EA	1 Micron, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1).....	250.06	1.93
22 32 16 00-0065	EA	1 Absolute, 26-1/4" Length, Pleated Water Filter Cartridge (Watts Big Bubba® PWWJCP1AB).....	270.95	1.93
22 33		Electric Domestic Water Heaters <small>(22 30)</small>		
22 33 13		Instantaneous Electric Domestic Water Heaters <small>(22 33)</small>		
22 33 13 13		Flow-Control, Instantaneous Electric Domestic Water Heaters <small>(22 33 13)</small>		
22 33 13 13-0001		Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters <small>(22 33 13 13)</small>		
22 33 13 13-0002	EA	3 To 10 KW Flow Controlled, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012, EX48, EX65, EX75, EX95).....	338.67	48.19
22 33 13 13-0003	EA	7.2 KW, 0.75 GPM, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch RP7P).....	380.64	48.19
22 33 13 16		Thermostat-Control, Instantaneous Electric Domestic Water Heaters <small>(22 33 13)</small>		
22 33 13 16-0001		Thermostat Controlled, Instantaneous, Tankless, Electric Domestic Water Heaters <small>(22 33 13 16)</small>		
		Note: Temperature rise decreases with increased flow rate.		
22 33 13 16-0002	EA	3 To 10 KW Thermostat-Control, Instantaneous, Tankless, Electric Domestic Water Heater (Eemax EX3012T, EX48T, EX65T, EX75T, EX95T, EX012240T).....	454.02	72.29
22 33 13 16-0003	EA	12 KW, 2.0 GPM, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE12).....	500.94	96.38
22 33 13 16-0004	EA	17.25 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE115).....	851.24	168.67
22 33 13 16-0005	EA	26.85 KW, 4.0 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Bosch PowerStar AE125).....	1,258.89	192.77
22 33 13 16-0006	EA	12 KW, 1.6 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 12 Plus).....	894.09	96.38
22 33 13 16-0007	EA	14.4 KW, 2.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 15 Plus).....	1,228.30	144.57
22 33 13 16-0008	EA	19.2 KW, 2.8 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 20 Plus).....	1,370.63	192.77
22 33 13 16-0009	EA	24 KW, 3.3 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 24 Plus).....	1,419.27	192.77
22 33 13 16-0010	EA	28.8 KW, 4.5 GPM At 45 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 29 Plus).....	1,465.22	192.77
22 33 13 16-0011	EA	36 KW, 4.5 GPM At 55 Degree Rise, Indoor Mount, Instantaneous, Tankless, Electric Domestic Water Heater (Stiebel Eltron Tempra 36 Plus).....	1,532.78	192.77
22 33 30		Residential, Electric Domestic Water Heaters <small>(22 33)</small>		
22 33 30 13		Residential, Small-Capacity Electric Domestic Water Heaters <small>(22 33 30)</small>		
22 33 30 13-0001		Small-Capacity, Electric Domestic Water Heaters (A.O. Smith ProMax) <small>(22 33 30 13)</small>		
		Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
22 33 30 13-0002	EA	2 Gallon, Small-Capacity, Electric Domestic Water Heater.....	660.28	151.80
22 33 30 13-0003	EA	10 Gallon, Small-Capacity, Electric Domestic Water Heater.....	798.46	161.44
22 33 30 13-0004	EA	20 Gallon, Small-Capacity, Electric Domestic Water Heater.....	931.84	168.67
22 33 30 16		Residential, Storage Electric Domestic Water Heaters <small>(22 33 30)</small>		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 33 30 16-0001				Electric Domestic Water Heaters (A.O. Smith ProMax) <small>(22 33 30 16)</small> Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
				22 33 30 16-0002 EA 30 Gallon, Electric Domestic Water Heater.....	989.96	168.67
				22 33 30 16-0003 EA 40 Gallon, Electric Domestic Water Heater.....	938.49	173.49
				22 33 30 16-0004 EA 50 Gallon, Electric Domestic Water Heater.....	927.33	178.30
				22 33 30 16-0005 EA 55 Gallon, Electric Domestic Water Heater.....	1,026.17	180.72
				22 33 30 16-0006 EA 66 Gallon, Electric Domestic Water Heater.....	1,453.12	185.54
				22 33 30 16-0007 EA 80 Gallon, Electric Domestic Water Heater.....	1,482.44	192.77
				22 33 30 16-0008 EA 120 Gallon, Electric Domestic Water Heater.....	1,946.75	204.82
22 33 30 16-0009				Low-Boy, Electric Domestic Water Heaters (A.O. Smith ProMax) <small>(22 33 30 16)</small> Note: Includes glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
				22 33 30 16-0010 EA 30 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,056.70	168.67
				22 33 30 16-0011 EA 40 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,012.82	173.49
				22 33 30 16-0012 EA 50 Gallon, Low-Boy, Electric Domestic Water Heater.....	1,070.03	178.30
22 33 30 16-0013				High Efficiency, Electric Domestic Water Heaters (A.O. Smith Conservatationist) <small>(22 33 30 16)</small> Note: Includes .95 energy factor glass lined tank, drain valve and temperature and pressure relief valve. Excludes electrical connections.		
				22 33 30 16-0014 EA 40 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,090.78	173.49
				22 33 30 16-0015 EA 50 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,185.97	178.30
				22 33 30 16-0016 EA 66 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,442.64	185.54
				22 33 30 16-0017 EA 80 Gallon, High Efficiency, Electric Domestic Water Heater.....	1,564.12	192.77
22 33 30 16-0018				Water Heater Accessories <small>(22 33 30 16)</small>		
				22 33 30 16-0019 EA 2 Gallon, Expansion Pressure Tank For Water Heaters.....	81.78	9.63
				22 33 30 16-0020 EA 4.4 Gallon, Expansion Pressure Tank For Water Heaters.....	95.73	9.63
				22 33 30 16-0021 EA 7.6 Gallon, Expansion Pressure Tank For Water Heaters.....	181.88	9.63
				22 33 30 16-0022 EA 14 Gallon, Expansion Pressure Tank For Water Heaters.....	242.51	9.63
				22 33 30 16-0023 EA 20" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	47.61	7.23
				22 33 30 16-0024 EA 22" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	51.60	7.23
				22 33 30 16-0025 EA 24" Diameter, 3" Deep, Aluminum Water Heater Drain Pan.....	54.27	7.23
				22 33 30 16-0026 EA 26" Diameter, 2-1/2" Deep, Aluminum Water Heater Drain Pan.....	63.59	7.23
				22 33 30 16-0027 EA 22" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	27.57	7.23
				22 33 30 16-0028 EA 24" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	29.70	7.23
				22 33 30 16-0029 EA 26" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	32.70	7.23
				22 33 30 16-0030 EA 28" Diameter, 2-1/2" Deep, Polyethylene Water Heater Drain Pan.....	36.55	7.23
22 33 33				Light-Commercial Electric Domestic Water Heaters <small>(22 33)</small>		
22 33 33 00-0001				Standard Duty Electric Commercial Water Heaters (A.O. Smith DEL And DEN) <small>(22 33 33)</small> Note: Includes glass lined tank, drain valve, and temperature and pressure relief valve.		
				22 33 33 00-0002 EA Up To 2.5 KW, 6 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-6S).....	1,297.29	168.67
				22 33 33 00-0003 EA Up To 6 KW, 10 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-10S).....	1,394.84	168.67
				22 33 33 00-0004 EA Up To 6 KW, 20 Gallon, Single Element Lowboy Electric Commercial Water Heater (DEL-20S).....	1,515.81	192.77
				22 33 33 00-0005 EA Up To 12 KW, 30 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-30D).....	2,630.68	192.77
				22 33 33 00-0006 EA Up To 12 KW, 40 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-40D).....	3,036.75	240.96
				22 33 33 00-0007 EA Up To 12 KW, 50 Gallon, Dual Element Lowboy Electric Commercial Water Heater (DEL-50D).....	3,365.41	289.15
				22 33 33 00-0008 EA Up To 12 KW, 80 Gallon, Dual Element Standard Upright Electric Commercial Water Heater (DEN-80D).....	4,023.08	433.72
22 33 33 00-0009				Heavy Duty Electric Commercial Water Heaters (A.O. Smith DSE) <small>(22 33 33)</small> Note: Includes glass lined tank, ASME tank construction, drain valve, and temperature and pressure relief valve.		
				22 33 33 00-0010 EA 3 KW, 5 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-5-3).....	4,750.30	168.67
				22 33 33 00-0011 EA 3 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-3).....	4,936.11	168.67
				22 33 33 00-0012 EA 6 KW, 10 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-10-6).....	5,137.41	168.67
				22 33 33 00-0013 EA 3 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-3).....	5,185.60	192.77
				22 33 33 00-0014 EA 6 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-6).....	5,417.87	192.77
				22 33 33 00-0015 EA 9 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-9).....	5,789.49	192.77
				22 33 33 00-0016 EA 12 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-12).....	6,037.24	192.77
				22 33 33 00-0017 EA 15 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-15).....	6,238.54	192.77
				22 33 33 00-0018 EA 18 KW, 20 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-20-18).....	6,455.32	192.77
				22 33 33 00-0019 EA 6 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-6).....	5,650.13	192.77
				22 33 33 00-0020 EA 9 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-9).....	5,866.91	192.77
				22 33 33 00-0021 EA 12 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-12).....	6,114.66	192.77
				22 33 33 00-0022 EA 15 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-15).....	6,315.96	192.77
				22 33 33 00-0023 EA 18 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-18).....	6,532.74	192.77
				22 33 33 00-0024 EA 24 KW, 30 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-30-24).....	8,127.63	192.77
				22 33 33 00-0025 EA 9 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-9).....	6,164.59	240.96
				22 33 33 00-0026 EA 12 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-12).....	6,365.89	240.96
				22 33 33 00-0027 EA 15 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-15).....	6,613.64	240.96
				22 33 33 00-0028 EA 18 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-18).....	6,830.42	240.96

22 Plumbing**22 30 Plumbing Equipment****22 33 Electric Domestic Water Heaters**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 33 33 00-0029	EA	24 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-24)	8,440.79	240.96
22 33 33 00-0030	EA	30 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-30)	9,184.04	240.96
22 33 33 00-0031	EA	36 KW, 40 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-40-36)	9,911.80	240.96
22 33 33 00-0032	EA	9 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-9)	7,128.10	289.15
22 33 33 00-0033	EA	12 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-12)	7,329.40	289.15
22 33 33 00-0034	EA	15 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-15)	7,530.70	289.15
22 33 33 00-0035	EA	18 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-18)	7,747.48	289.15
22 33 33 00-0036	EA	24 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-24)	9,404.30	289.15
22 33 33 00-0037	EA	30 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-30)	10,147.55	289.15
22 33 33 00-0038	EA	36 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-36)	10,875.32	289.15
22 33 33 00-0039	EA	45 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-45)	12,191.49	289.15
22 33 33 00-0040	EA	54 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-54)	12,779.89	289.15
22 33 33 00-0041	EA	60 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-60)	14,823.82	289.15
22 33 33 00-0042	EA	75 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-75)	17,456.16	289.15
22 33 33 00-0043	EA	90 KW, 50 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-50-90)	21,884.69	289.15
22 33 33 00-0044	EA	9 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-9)	8,033.14	385.53
22 33 33 00-0045	EA	12 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-12)	8,265.41	385.53
22 33 33 00-0046	EA	15 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-15)	8,482.19	385.53
22 33 33 00-0047	EA	18 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-18)	8,668.00	385.53
22 33 33 00-0048	EA	24 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-24)	10,309.34	385.53
22 33 33 00-0049	EA	30 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-30)	11,052.59	385.53
22 33 33 00-0050	EA	36 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-36)	11,764.87	385.53
22 33 33 00-0051	EA	45 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-45)	13,112.01	385.53
22 33 33 00-0052	EA	54 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-54)	13,684.93	385.53
22 33 33 00-0053	EA	60 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-60)	15,744.35	385.53
22 33 33 00-0054	EA	75 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-75)	18,392.17	385.53
22 33 33 00-0055	EA	90 KW, 65 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-65-90)	22,805.21	385.53
22 33 33 00-0056	EA	12 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-12)	8,981.17	433.72
22 33 33 00-0057	EA	15 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-15)	9,197.95	433.72
22 33 33 00-0058	EA	18 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-18)	9,383.77	433.72
22 33 33 00-0059	EA	24 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-24)	11,040.59	433.72
22 33 33 00-0060	EA	30 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-30)	11,706.42	433.72
22 33 33 00-0061	EA	36 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-36)	12,480.64	433.72
22 33 33 00-0062	EA	45 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-45)	13,827.77	433.72
22 33 33 00-0063	EA	54 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-54)	14,416.18	433.72
22 33 33 00-0064	EA	60 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-60)	16,351.72	433.72
22 33 33 00-0065	EA	75 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-75)	19,107.94	433.72
22 33 33 00-0066	EA	90 KW, 80 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-80-90)	23,520.98	433.72
22 33 33 00-0067	EA	15 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-15)	10,099.51	481.91
22 33 33 00-0068	EA	18 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-18)	10,347.26	481.91
22 33 33 00-0069	EA	24 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-24)	11,957.63	481.91
22 33 33 00-0070	EA	30 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-30)	12,700.88	481.91
22 33 33 00-0071	EA	36 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-36)	13,428.64	481.91
22 33 33 00-0072	EA	45 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-45)	14,744.81	481.91
22 33 33 00-0073	EA	54 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-54)	15,348.70	481.91
22 33 33 00-0074	EA	60 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-60)	17,377.15	481.91
22 33 33 00-0075	EA	75 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-75)	20,009.49	481.91
22 33 33 00-0076	EA	90 KW, 100 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-100-90)	24,453.50	481.91
22 33 33 00-0077	EA	15 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-15)	10,849.72	578.30
22 33 33 00-0078	EA	18 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-18)	11,066.50	578.30
22 33 33 00-0079	EA	24 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-24)	12,676.87	578.30
22 33 33 00-0080	EA	30 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-30)	13,389.15	578.30
22 33 33 00-0081	EA	36 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-36)	14,147.88	578.30
22 33 33 00-0082	EA	45 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-45)	15,464.05	578.30
22 33 33 00-0083	EA	54 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-54)	16,021.49	578.30
22 33 33 00-0084	EA	60 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-60)	18,111.88	578.30
22 33 33 00-0085	EA	75 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-75)	20,759.70	578.30
22 33 33 00-0086	EA	90 KW, 120 Gallon, Heavy Duty Electric Commercial Water Heater (DSE-120-90)	25,157.26	578.30

22 33 33 00-0087 Water Heater Accessories (22 33 33)

22 33 33 00-0088	EA	Up To 80 Gallon Water Heater Strap .....31.82 Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carraige Bolts (2) 3/8" Hex Nuts
22 33 33 00-0089	EA	>80 To 120 Gallon Water Heater Strap.....45.68 Note: Includes (4) Straps (4) J-Clips (4) Lag Bolts (2) 3/8" Carraige Bolts (2) 3/8" Hex Nuts

22 33 33 00-0090 Removal And Reinstallation Of Water Heater (22 33 33)

Note: Includes storage and cleaning.

22 33 33 00-0091	EA	Removal And Reinstallation Of Water Heater Electric, Up To 82 Gallon .....321.28
22 33 33 00-0092	EA	Removal And Reinstallation Of Water Heater Electric, 83 Gallon To 200 Gallon.....963.82

22 34 Fuel-Fired Domestic Water Heaters (22 30)**22 34 13 Instantaneous, Tankless, Gas Domestic Water Heaters (22 34)**

22 34 13 00-0001 Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13)

22 34 13 00-0002 Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters (22 34 13)

00-0001)

Note: Includes vent connection. Excludes vent.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 13 00-0003 EA 4.2 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-42PVN)	1,368.80	192.77
22 34 13 00-0004 EA 5.3 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53PVN)	1,476.63	195.17
22 34 13 00-0005 EA 5.3 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53DVN)	1,617.38	200.00
22 34 13 00-0006 EA 6.6 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-66DVN)	1,879.71	204.82
22 34 13 00-0007 EA 7.4 GPM, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74PVN)	2,271.04	216.86
22 34 13 00-0008 EA 7.4 GPM, Direct Vent, Indoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74DVN)	2,317.86	216.86
22 34 13 00-0009 Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heaters <small>(22 34 13 00-0009)</small>		
22 34 13 00-0010 EA 5.3 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-53XN)	1,471.81	192.77
22 34 13 00-0011 EA 7.4 GPM, Outdoor Mount, Instantaneous, Tankless, Gas Domestic Water Heater (Rheem RTG-74XN)	2,271.04	216.86
22 34 30 Residential Gas Domestic Water Heaters <small>(22 34)</small>		
22 34 30 13 Residential, Atmospheric, Gas Domestic Water Heaters <small>(22 34 30)</small>		
22 34 30 13-0001 Atmospheric, Gas Domestic Water Heaters (A.O. Smith ProMax) <small>(22 34 30 13)</small>		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 13-0002 EA 30 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-30)	1,039.89	185.54
22 34 30 13-0003 EA 40 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-40)	1,024.27	190.35
22 34 30 13-0004 EA 50 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCVX-50)	1,341.59	195.17
22 34 30 13-0005 EA 65 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith GCV-65)	1,447.92	200.00
22 34 30 13-0006 EA 75 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-75)	1,576.40	204.82
22 34 30 13-0007 EA 100 Gallon, Atmospheric, Gas Domestic Water Heater (A. O. Smith FCG-100)	2,300.68	216.86
22 34 30 16 Residential, Direct-Vent, Gas Domestic Water Heaters <small>(22 34 30)</small>		
22 34 30 16-0001 Direct-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) <small>(22 34 30 16)</small>		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 16-0002 EA 40 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-40)	1,848.72	190.35
22 34 30 16-0003 EA 50 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-50)	2,099.67	195.17
22 34 30 16-0004 EA 75 Gallon, Direct-Vent, Gas Domestic Water Heater (A. O. Smith GDV-75)	2,711.69	200.00
22 34 30 19 Residential, Power-Vent, Gas Domestic Water Heaters <small>(22 34 30)</small>		
22 34 30 19-0001 Power-Vent, Gas Domestic Water Heaters (A.O. Smith ProMax) <small>(22 34 30 19)</small>		
Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 30 19-0002 EA 40 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-40)	1,685.73	190.35
22 34 30 19-0003 EA 50 Gallon, Power-Vent, Gas Domestic Water Heater (A. O. Smith GPVH-50)	1,754.82	195.17
22 34 36 Commercial Gas Domestic Water Heaters <small>(22 34)</small>		
22 34 36 13 Commercial, Atmospheric, Gas Domestic Water Heaters <small>(22 34 36)</small>		
22 34 36 13-0001 Gas Fired Commercial Water Heaters (A.O. Smith BTR) <small>(22 34 36 13)</small>		
Note: Includes automatic flue damper, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 13-0002 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-120)	4,598.74	289.15
22 34 36 13-0003 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-154)	4,917.93	337.34
22 34 36 13-0004 EA 180 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-180)	6,075.08	385.53
22 34 36 13-0005 EA 199 MBH Input, 81 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-199)	5,271.03	385.53
22 34 36 13-0006 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200)	6,042.24	385.53
22 34 36 13-0007 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-200A)	8,029.83	424.08
22 34 36 13-0008 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250)	5,870.20	433.72
22 34 36 13-0009 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-250A)	8,655.65	477.09
22 34 36 13-0010 EA 251 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251)	5,959.31	433.72
22 34 36 13-0011 EA 251 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-251A)	8,263.15	477.09
22 34 36 13-0012 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275)	6,618.83	530.11
22 34 36 13-0013 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-275A)	9,058.65	583.12
22 34 36 13-0014 EA 305 MBH Input, 65 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305)	7,425.05	530.11
22 34 36 13-0015 EA 305 MBH Input, 65 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-305A)	9,111.69	583.12
22 34 36 13-0016 EA 365 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365)	7,203.22	578.30
22 34 36 13-0017 EA 365 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-365A)	10,055.75	636.13
22 34 36 13-0018 EA 390 MBH Input, 100 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400)	9,102.04	578.30
22 34 36 13-0019 EA 390 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-400A)	11,880.35	636.13
22 34 36 13-0020 EA 500 MBH Input, 85 Gallon, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-500)	11,829.25	626.48

22 Plumbing

22 30 Plumbing Equipment

22 34 Fuel-Fired Domestic Water Heaters



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 34 36 13-0021 EA 150 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151).....	5,915.05	337.34
22 34 36 13-0022 EA 150 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-151A).....	7,085.76	371.07
22 34 36 13-0023 EA 199 MBH Input, 32 Gallon, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201).....	6,159.95	385.53
22 34 36 13-0024 EA 199 MBH Input, 32 Gallon, ASME Rated Tank, Booster Type, 80% Efficiency, Gas Fired Commercial Water Heater (A.O. Smith BTR-201A).....	7,372.13	424.08
22 34 36 13-0025 EA Sidewall Power Vent System For BTR-120 through BTR-200	1,542.67	240.96
22 34 36 13-0026 EA Sidewall Power Vent System For BTR-250 through BTR-500	1,680.58	240.96
22 34 36 13-0027 Removal And Reinstallation Of Water Heater (22 34 36 13) Note: Includes storage and cleaning.		
22 34 36 13-0028 EA Removal And Reinstallation Of Water Heater Gas Fired, Up To 86 Gallon	438.10	
22 34 36 13-0029 EA Removal And Reinstallation Of Water Heater Gas Fired, 87 Gallon To 200 Gallon.....	1,158.44	
22 34 36 19 Commercial, Power-Vent, Gas Domestic Water Heaters (22 34 36)		
22 34 36 19-0001 Induced Draft Blower Gas Fired Commercial Water Heaters (A.O. Smith BTN) (22 34 36 19) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0002 EA 90 MBH Input, 98 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-100)	3,760.69	289.15
22 34 36 19-0003 EA 120 MBH Input, 71 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-120).....	5,341.31	289.15
22 34 36 19-0004 EA 154 MBH Input, 81 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-154).....	6,509.11	337.34
22 34 36 19-0005 EA 180 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-180).....	6,785.83	385.53
22 34 36 19-0006 EA 199 MBH Input, 99 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-199).....	6,817.65	385.53
22 34 36 19-0007 EA 199 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200).....	6,966.17	385.53
22 34 36 19-0008 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-200A)	8,167.74	424.08
22 34 36 19-0009 EA 250 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250).....	7,688.44	433.72
22 34 36 19-0010 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-250A)	9,440.66	477.09
22 34 36 19-0011 EA 275 MBH Input, 100 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275).....	8,082.75	530.11
22 34 36 19-0012 EA 275 MBH Input, 100 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-275A)	9,886.09	583.12
22 34 36 19-0013 EA 310 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310).....	8,252.48	530.11
22 34 36 19-0014 EA 310 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-310A)	9,992.17	583.12
22 34 36 19-0015 EA 366 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366).....	9,250.56	578.30
22 34 36 19-0016 EA 366 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-366A)	10,861.96	636.13
22 34 36 19-0017 EA 390 MBH Input, 85 Gallon, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400).....	11,170.63	578.30
22 34 36 19-0018 EA 390 MBH Input, 85 Gallon, ASME Rated Tank, 80% Efficiency, Induced Draft Blower, Gas Fired Commercial Water Heater (BTN-400A)	12,877.51	636.13
22 34 36 19-0019 Condensing Gas Fired Commercial Water Heaters (A.O. Smith BTX And BTH) (22 34 36 19) Note: Includes glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.		
22 34 36 19-0020 EA 76 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-80).....	2,933.26	289.15
22 34 36 19-0021 EA 100 MBH Input, 50 Gallon, 90% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTX-100).....	3,909.21	289.15
22 34 36 19-0022 EA 120 MBH Input, 60 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120).....	4,715.43	289.15
22 34 36 19-0023 EA 120 MBH Input, 60 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-120A)	6,767.59	318.06
22 34 36 19-0024 EA 150 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150).....	6,933.44	337.34
22 34 36 19-0025 EA 150 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-150A)	8,730.02	371.07
22 34 36 19-0026 EA 199 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199).....	7,051.03	385.53
22 34 36 19-0027 EA 199 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-199A)	9,005.78	424.08
22 34 36 19-0028 EA 250 MBH Input, 100 Gallon, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250).....	8,144.59	433.72
22 34 36 19-0029 EA 250 MBH Input, 100 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-250A)	9,896.81	477.09
22 34 36 19-0030 EA 300 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-300A)	12,941.23	583.12
22 34 36 19-0031 EA 399.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-400A)	13,609.48	636.13
22 34 36 19-0032 EA 499.9 MBH Input, 119 Gallon, ASME Rated Tank, 95% Efficiency, Power-Vent, Condensing Gas Fired Commercial Water Heater (BTH-500A)	15,646.18	689.14



MINOR	CSI	UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 34 36 23 Commercial, High-Efficiency, Gas Domestic Water Heaters (22 34 36)

22 34 36 23-0001 Laars Mighty Therm Gas Fired Domestic Hot Water Skid Package (22 34 36 23)
 Note: Includes (2) Laars Mighty Therm boilers, (2) B&G boiler primary pumps (one per boiler), T&P valve, circuit setter, storage tank (sized for 10 minutes buffer based on 50 degree city water supply, and operating set point for the tank at 130 degrees storage), and all necessary accessories for system monitoring such as gauges and thermometers. UL listed and labeled. Excludes piping insulation or seismic calculations.

22 34 36 23-0002	EA	400 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-400)	55,210.95	1,181.53
22 34 36 23-0003	EA	1,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-1000)	66,713.09	1,255.38
22 34 36 23-0004	EA	2,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-2000)	81,012.22	1,329.23
22 34 36 23-0005	EA	3,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-3000)	96,801.23	1,403.07
22 34 36 23-0006	EA	4,000 MBH x 2, Gas Fired Domestic Hot Water Skid Package (FlowTherm Systems FTDW-4000)	101,465.16	1,476.92

22 34 36 23-0007 Laars Mighty Therm Volume Water Heater (22 34 36 23)

22 34 36 23-0008	EA	200 MBH Gas Fired Volume Water Heater (Laars MT2V0200)	7,133.36	710.37
22 34 36 23-0009	EA	300 MBH Gas Fired Volume Water Heater (Laars MT2V0300)	7,751.50	799.17
22 34 36 23-0010	EA	400 MBH Gas Fired Volume Water Heater (Laars MT2V0400)	8,997.47	976.76
22 34 36 23-0011	EA	500 MBH Gas Fired Volume Water Heater (Laars MT2V0500)	12,958.45	1,065.56
22 34 36 23-0012	EA	750 MBH Gas Fired Volume Water Heater (Laars MT2V0750)	14,283.09	1,243.15
22 34 36 23-0013	EA	1,000 MBH Gas Fired Volume Water Heater (Laars MT2V1000)	16,337.54	1,420.74
22 34 36 23-0014	EA	1,250 MBH Gas Fired Volume Water Heater (Laars MT2V1250)	18,060.35	1,598.33
22 34 36 23-0015	EA	1,500 MBH Gas Fired Volume Water Heater (Laars MT2V1500)	21,534.49	1,775.92
22 34 36 23-0016	EA	1,750 MBH Gas Fired Volume Water Heater (Laars MT2V1750)	22,354.75	1,864.72
22 34 36 23-0017	EA	2,000 MBH Gas Fired Volume Water Heater (Laars MT2V2000)	23,961.70	1,953.52

22 34 36 26 Commercial, Coil-Type, Finned-Tube, Gas Domestic Water Heaters (22 34 36)

22 34 36 26-0001 Laars Rheos+ 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heaters (22 34 36 26)

22 34 36 26-0002	EA	1,200 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	29,282.06	1,113.50
22 34 36 26-0003	EA	1,600 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	41,384.51	1,230.72
22 34 36 26-0004	EA	2,000 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	44,909.39	1,289.32
22 34 36 26-0005	EA	2,400 MBH 90% Efficient, Gas Fired, Copper Fin Tube Condensing Water Heater (Laars Rheos+)	48,641.10	1,406.53

22 34 36 26-0006 Laars Rheos 86% Efficient Gas Fired, Copper Fin Tube LoNox Water Heaters (22 34 36 26)

22 34 36 26-0007	EA	1,200 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	25,958.92	1,113.50
22 34 36 26-0008	EA	1,600 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	28,677.79	1,230.72
22 34 36 26-0009	EA	2,000 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	31,355.04	1,289.32
22 34 36 26-0010	EA	2,400 MBH 86% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Rheos)	34,066.29	1,406.53

22 34 36 26-0011 Laars Pennant 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heaters (22 34 36 26)

22 34 36 26-0012	EA	200 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	6,649.76	527.45
22 34 36 26-0013	EA	300 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	7,315.34	586.05
22 34 36 26-0014	EA	400 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	8,590.59	703.27
22 34 36 26-0015	EA	500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	12,132.15	732.57
22 34 36 26-0016	EA	750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	13,361.48	879.08
22 34 36 26-0017	EA	1,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	16,480.33	1,054.90
22 34 36 26-0018	EA	1,250 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	18,739.50	1,113.50
22 34 36 26-0019	EA	1,500 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	20,773.58	1,201.42
22 34 36 26-0020	EA	1,750 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	22,679.45	1,260.02
22 34 36 26-0021	EA	2,000 MBH 85% Efficient, Gas Fired, Copper Fin Tube LoNox Water Heater (Laars Pennant)	24,345.31	1,289.32

22 34 36 26-0022 Patterson Kelley Thermific Sealed Combustion, Gas Fired, Copper Fin Tube Water Heaters (22 34 36 26)

22 34 36 26-0023	EA	700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	21,807.22	879.08
22 34 36 26-0024	EA	1,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	24,002.20	1,054.90
22 34 36 26-0025	EA	1,500 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	32,115.47	1,201.42
22 34 36 26-0026	EA	1,700 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	33,083.49	1,260.02
22 34 36 26-0027	EA	2,000 MBH 85% Efficient, Sealed Combustion, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Thermific)	34,634.97	1,289.32

22 34 36 26-0028 Patterson Kelley Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Water Heaters (22 34 36 26)

22 34 36 26-0029	EA	1,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	27,668.46	1,054.90
22 34 36 26-0030	EA	1,500 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	33,475.22	1,201.42
22 34 36 26-0031	EA	2,000 MBH 85% Efficient, Forced Draft, Gas Fired, Copper Fin Tube Water Heater (Patterson Kelley Modufire)	35,523.26	1,289.32

22	Plumbing
22 30	Plumbing Equipment
22 34	Fuel-Fired Domestic Water Heaters



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 34 46 Oil-Fired Domestic Water Heaters (22 34)

22 34 46 11 Standard-capacity, Oil-Fired Domestic Water Heaters (22 34 46)

22 34 46 11-0001 Oil-Fired Domestic Water Heaters (Bock) (22 34 46 11)

Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.

22 34 46 11-0002	EA	60 MBH, 20 Gallon, Oil-Fired Domestic Water Heater (Bock 20E)	1,551.80	185.54
22 34 46 11-0003	EA	104 MBH, 32 Gallon, Oil-Fired Domestic Water Heater (Bock 32E)	1,531.06	185.54
22 34 46 11-0004	EA	104 MBH, 33 Gallon, Oil-Fired Domestic Water Heater (Bock 33ES)	1,597.69	185.54
22 34 46 11-0005	EA	125 MBH, 40 Gallon, Oil-Fired Domestic Water Heater (Bock 40E)	1,686.74	190.35
22 34 46 11-0006	EA	140 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 50ES)	2,142.67	195.17
22 34 46 11-0007	EA	152 MBH, 50 Gallon, Oil-Fired Domestic Water Heater (Bock 51E)	1,813.19	195.17

22 34 46 11-0008 Oil Fired Commercial Water Heaters (22 34 46 11)

Note: Includes burner, glass lined tank, drain valve, temperature and pressure relief valve and vent connection. Excludes vent.

22 34 46 11-0009	EA	173 MBH, 68 Gallon, Oil-Fired Commercial Water Heater (Bock 71E)	2,514.32	289.15
22 34 46 11-0010	EA	199 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 72E)	2,948.10	289.15
22 34 46 11-0011	EA	242 MBH, 67 Gallon, Oil-Fired Commercial Water Heater (Bock 73E)	2,964.78	289.15
22 34 46 11-0012	EA	190 MBH, 113 Gallon, Oil-Fired Commercial Water Heater (Bock 120E)	4,267.35	385.53
22 34 46 11-0013	EA	415 MBH, 91 Gallon, Oil-Fired Commercial Water Heater (Bock 361E)	5,849.45	481.91
22 34 46 11-0014	EA	623 MBH, 83 Gallon, Oil-Fired Commercial Water Heater (Bock 541E)	7,356.03	530.11

22 35 Domestic Water Heat Exchangers (22 30)

22 35 23 Circulating, Domestic Water Heat Exchangers (22 35)

22 35 23 13 Circulating, Compact Domestic Water Heat Exchangers (22 35 23)

22 35 23 13-0001 Steam Driven Water Heaters (22 35 23 13)

22 35 23 13-0002 Constant Flow (22 35 23 13-0001)

22 35 23 13-0003	EA	30 GPM, 700 LB/Hour Steam Water Heater, Constant Flow	8,245.77	481.91
22 35 23 13-0004	EA	90 GPM, 1,250 LB/Hour Steam Water Heater, Constant Flow	10,313.12	590.54
22 35 23 13-0005	EA	140 GPM, 2,500 LB/Hour Steam Water Heater, Constant Flow	13,195.72	772.31
22 35 23 13-0006	EA	230 GPM, 5,000 LB/Hour Steam Water Heater, Constant Flow	17,817.44	1,075.73
22 35 23 13-0007	EA	500 GPM, 7,500 LB/Hour Steam Water Heater, Constant Flow	26,058.49	1,771.71
22 35 23 13-0008	EA	900 GPM, 10,000 LB/Hour Steam Water Heater, Constant Flow	28,302.24	2,007.94
22 35 23 13-0009	EA	1,400 GPM, 15,000 LB/Hour Steam Water Heater, Constant Flow	37,540.34	2,316.85
22 35 23 13-0010	EA	2,400 GPM, 20,000 LB/Hour Steam Water Heater, Constant Flow	45,231.81	2,738.14

22 35 23 13-0011 Variable Flow (22 35 23 13-0001)

22 35 23 13-0012	EA	30 GPM, 700 LB/Hour Steam Water Heater, Variable Flow	12,152.99	939.73
22 35 23 13-0013	EA	90 GPM, 1,250 LB/Hour Steam Water Heater, Variable Flow	13,670.42	1,147.44
22 35 23 13-0014	EA	140 GPM, 2,500 LB/Hour Steam Water Heater, Variable Flow	17,413.26	1,483.71
22 35 23 13-0015	EA	230 GPM, 5,000 LB/Hour Steam Water Heater, Variable Flow	22,679.61	2,070.11
22 35 23 13-0016	EA	500 GPM, 7,500 LB/Hour Steam Water Heater, Variable Flow	33,375.25	3,462.07
22 35 23 13-0017	EA	900 GPM, 10,000 LB/Hour Steam Water Heater, Variable Flow	41,122.20	3,812.61
22 35 23 13-0018	EA	1,400 GPM, 15,000 LB/Hour Steam Water Heater, Variable Flow	47,577.72	4,462.14
22 35 23 13-0019	EA	2,400 GPM, 20,000 LB/Hour Steam Water Heater, Variable Flow	60,651.41	5,330.93

22 40 Plumbing Fixtures (22)

Note: The following Energy Policy Act Flow Rates Requirements superseded flow rates standards listed in section. Plumbing fixtures and trim should not exceed the maximum flow rates set forth in The Energy Policy Act 92. lavatory faucets - 2.5 gal/min, lavatory replacement aerators - 2.5 gal/min, kitchen faucets - 2.5 gal/min, kitchen replacement aerators - 2.5 gal/min, metering faucets - 0.25 gal/cycle, gravity tank-type toilets - 1.6 gal/flush, flushometer tank toilets - 1.6 gal/flush, electromechanical hydraulic toilets - 1.6 gal/flush, blowdown toilets - 3.5 gal/flush, urinals - 1.0 gal/flush.

22 41 Residential Plumbing Fixtures (22 40)

22 41 39 Residential Faucets, Supplies, And Trim (22 41)

22 41 39 00-0001 Residential Kitchen Faucets (22 41 39)

22 41 39 00-0002	EA	Chrome Single Handle Kitchen Faucet (Delta 100LF-WF)	146.47	44.38
22 41 39 00-0003	EA	Chrome Single Handle Kitchen Faucet With Spray (Delta 400LF-WF)	167.09	44.38
22 41 39 00-0004	EA	Chrome Single Handle Kitchen Faucet With Integrated Spray (Delta 300LF-WF)	167.09	44.38
22 41 39 00-0005	EA	Chrome Two Handle Kitchen Faucet, Three Hole Installation 8" Center (Delta 2102LF-LHP+H215)	161.40	44.38
22 41 39 00-0006	EA	Chrome Two Handle Kitchen Faucet With Spray, Three Hole Installation, 8" Center (Delta 2402LF-LHP+H215)	172.48	44.38

22 41 39 00-0007 Residential Lavatory Faucets (22 41 39)

22 41 39 00-0008	EA	Chrome, Single Acrylic Handle, Bath Faucet (Delta 502-DST)	131.17	31.95
		For Faucet With Brass Pop-Up, Add	11.00	
22 41 39 00-0009	EA	Chrome, Single Lever Handle, Lavatory Faucet (Delta 500-WF)	131.17	31.95
		For Faucet With Brass Pop-Up, Add	11.00	



Plumbing	22	22
Plumbing Fixtures	22 40	
Residential Plumbing Fixtures	22 41	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 41 39 00-0010 EA Chrome, Two Handle, Bath Faucet With Acrylic Handles (Delta 2502LF) <i>For Faucet With Brass Pop-Up, Add</i> <i>For Faucet With Plastic Pop-Up, Add</i>	97.25 16.50 14.00	31.95
22 41 39 00-0011 Residential Bath And Shower Faucets (22 41 39)		
22 41 39 00-0012 EA Single Lever Handle, Chrome Shower Only, Pressure Balanced/Anti-Scald Valve (American Standard T675.501) <i>For Faucet With Polished Nickel Or Brass Finish, Add</i>	169.81 25.00	38.52
22 41 39 00-0013 EA Single Lever Handle, Chrome Bath And Shower, Pressure Balanced/Anti-Scald Valve (American Standard T675.502) <i>For Faucet With Polished Nickel Or Brass Finish, Add</i>	198.02 25.00	38.52
22 41 39 00-0014 EA Two-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard Cadet 3275) <i>For Faucet With Polished Nickel Or Brass Finish, Add</i> <i>For Faucet With Lever Handles, Add</i>	157.51 75.00 8.10	38.52
22 41 39 00-0015 EA Three-Knob Handle Chrome Shower And Tub Filler, Ceramic Valving (American Standard Cadet 3375) <i>For Faucet With Polished Nickel Or Brass Finish, Add</i> <i>For Faucet With Lever Handles, Add</i>	172.71 75.00 8.10	38.52
22 41 39 00-0016 EA Hand Shower With Hose And 25" Slide Bar (American Standard 1662.602)	189.25	24.10
22 41 39 00-0017 EA Wall Mount, Hand Shower With Hose (Delta 55011)	159.03	24.10
22 41 39 00-0018 EA Wall Mount, Hand Shower Unit With Hose (Delta Faucet 62001 DS)	195.12	24.10
22 41 39 00-0019 Residential Laundry Faucets (22 41 39)		
22 41 39 00-0020 EA Stream Straightener Nozzle Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2123LF)	114.00	28.34
22 41 39 00-0021 Residential Laundry/Wash Basin Faucets (22 41 39)		
22 41 39 00-0022 EA Hose Thread Spout Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121LF)	114.85	28.34
22 41 39 00-0023 EA Hose Thread Spout With Vacuum Breaker Chrome Laundry Faucet, Lever Handles, 4" Center (Delta 2121LF+RP12503)	161.10	31.23
22 41 39 00-0024 Other Residential Faucets (22 41 39)		
22 41 39 00-0025 EA Sillcock, Compact, Brass, IPS Or Copper To Hose	30.80	7.23
22 42 Commercial Plumbing Fixtures (22 40)		
Note: Prices are for commercial grade unless otherwise indicated. Includes final connection and all associated trim (seat, supply stop and line, wax seal, valve). Excludes rough-in within the wall and carrier.		
22 42 13 Commercial Water Closets, Urinals, And Bidets (22 42)		
22 42 13 13 Commercial Water Closets (22 42 13)		
22 42 13 13-0001 Vitreous China Water Closets (22 42 13 13)		
Note: With a 2" ball pass.		
22 42 13 13-0002 Floor Mounted Elongated Vitreous China Water Closets (22 42 13 13-0001)		
Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0003 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Madera™)	566.25	92.30
22 42 13 13-0004 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Colorado)	559.86	92.30
22 42 13 13-0005 EA Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Priolo®)	689.70	92.30
22 42 13 13-0006 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Wall Outlet, Elongated Vitreous China Water Closet (American Standard Yorkville™)	914.61	92.30
22 42 13 13-0007 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Cadet™)	810.31	92.30
22 42 13 13-0008 EA 1 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (American Standard Compact Cadet™)	751.43	92.30
22 42 13 13-0009 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet With Concealed Trapway (American Standard Cadet® 3 FloWise® RIGHT HEIGHT®)	755.47	92.30
22 42 13 13-0010 EA Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Kohler® Wellcomme™)	557.21	92.30
22 42 13 13-0011 EA 1.28 GPF Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Elongated Vitreous China Water Closet (Toto® CT705E)	602.67	92.30
22 42 13 13-0012 Wall Hung Elongated Vitreous China Water Closets (22 42 13 13-0001)		
Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0013 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Aftwall®)	652.31	113.61
22 42 13 13-0014 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Aftwall® ADA Retrofit)	830.39	113.61
22 42 13 13-0015 EA 2 Piece Tank Type, Pressure Assisted, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Glenwall™)	1,074.45	113.61
22 42 13 13-0016 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler® Kingston™)	653.78	113.61
22 42 13 13-0017 EA Flush Valve Type, Blow Out, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler® Stratton™)	1,041.25	113.61
22 42 13 13-0018 EA Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT708E Or CT708EV)	732.97	113.61

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

SAN BERNARDINO
COUNTY

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0019	EA	Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn Z5615-BWL).....	609.70	113.61
22 42 13 13-0020	EA	Flush Valve Type, Siphon Jet, Wall Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Sloan ST-2459)	645.42	113.61
22 42 13 13-0021		Floor Mounted Elongated Handicapped Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0022	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Madera™ ADA)	575.07	92.30
22 42 13 13-0023	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Colorado Right Height®)	590.68	92.30
22 42 13 13-0024	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Right Width™ Right Height®).....	659.50	92.30
22 42 13 13-0025	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Huron).....	744.64	92.30
22 42 13 13-0026	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Priolo® ADA).....	741.09	92.30
22 42 13 13-0027	EA	2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Back Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Yorkville™ ADA)	1,012.83	92.30
22 42 13 13-0028	EA	2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (American Standard Cadet Right Height™ ADA).....	842.55	92.30
22 42 13 13-0029	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Toto® CT705ELN)	645.18	92.30
22 42 13 13-0030	EA	2 Piece Tank Type, High Efficiency Water Closet Floor Mounted, Elongated, (Sterling 402077) With Open-Front Seat (Kohler K-4650).....	693.28	92.30
22 42 13 13-0031	EA	2 Piece Tank Type, Pressure Assisted, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Kohler Highline™ ADA)	863.93	92.30
22 42 13 13-0032	EA	2 Piece Tank Type, Dual-Flush 1.1 And 1.6 GPF, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Vortens Vienna ELX-DF 3113-3436).....	657.29	92.30
22 42 13 13-0033	EA	2 Piece Tank Type, High Efficiency Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Niagara Stealth™).....	638.14	92.30
22 42 13 13-0034	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Water Closet (Zurn HET Z5667-BWL).....	609.36	92.30
22 42 13 13-0035		Floor Mounted, 10" High Bowl, Children's Height Vitreous China Water Closets (22 42 13 13-0001) Note: Includes wax seal and toilet seat. Excludes flush valve.		
22 42 13 13-0036	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Elongated Vitreous China Water Closet (Kohler® Primary™).....	653.97	92.30
22 42 13 13-0037	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™).....	582.87	92.30
22 42 13 13-0038	EA	2 Piece Tank Type, Siphon Jet, Floor Mounted, Floor Outlet, 10" High Bowl, Children's Height, Round Front Vitreous China Water Closet (American Standard Baby Devoro™).....	693.56	92.30
22 42 13 13-0039		Floor Mounted Round Bowl Vitreous China Water Closets (22 42 13 13-0001)		
22 42 13 13-0040	EA	2 Piece Tank Type, Floor Mounted, Floor Outlet, Round Vitreous China Water Closet (Toto® CST715) With SoftClose® Seat (Toto® SS113)	640.95	92.30
22 42 13 13-0041	EA	2 Piece Tank Type, Dual Flush, Floor Mounted, Floor Outlet, Round Vitreous China Water Closet (Vortens 3208-3412).....	644.67	92.30
22 42 13 13-0042		Stainless Steel Water Closets (22 42 13 13)		
22 42 13 13-0043	EA	Wall Hung Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2105-T-1-HS).....	3,786.22	199.70
22 42 13 13-0044	EA	Floor Mounted Water Closet, Stainless Steel With Hinged Seat, Siphon Jet (Acorn 2120-T-3-HS).....	3,996.13	199.70
22 42 13 13-0045		Water Closet Carriers (22 42 13 13)		
22 42 13 13-0046		Pipe Grip Adaptor Type, Water Closet Carriers (22 42 13 13-0045) Note: Includes coated cast iron construction, plated hardware and adjustable feet. Excludes waste piping and fittings.		
22 42 13 13-0047	EA	Pipe Grip Adaptor Type, Water Closet Carrier	423.61	46.87
22 42 13 13-0048		No-Hub, Water Closet Carriers (22 42 13 13-0045) Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot.		
22 42 13 13-0049	EA	Vertical Close With Offset, No-Hub, Single Water Closet Carrier.....	643.26	46.87
		For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct	-53.90	
		For Positioning Frame, Add	36.07	
		For Supply Pipe Support, Add	36.87	
		For Vandal Proof Trim, Add	45.87	
		For Auxiliary Inlet, Add	156.33	
		For Special Duty 500 LB Carrier, Add	255.86	



Plumbing	22	22
Plumbing Fixtures	22 40	
Commercial Plumbing Fixtures	22 42	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0050 EA Vertical Close On Stack, No-Hub, Single Water Closet Carrier <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> <i>For Positioning Frame, Add</i> <i>For Supply Pipe Support, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Auxiliary Inlet, Add</i> <i>For Special Duty 500 LB Carrier, Add</i>	643.26 -53.90 36.07 36.87 45.87 156.33 255.86	46.87
22 42 13 13-0051 EA Horizontal Adjustable, No-Hub, Single Water Closet Carrier <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> <i>For Positioning Frame, Add</i> <i>For Supply Pipe Support, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Auxiliary Inlet, Add</i> <i>For Horizontal No Hub Cast Long Barrel, Add</i> <i>For Carrier For Wide Chase Installations, Add</i> <i>For Special Duty 1,000 LB Carrier, Add</i>	700.39 -53.90 36.07 36.87 45.87 156.33 158.22 212.37 255.86	46.87
22 42 13 13-0052 EA Vertical Adjustable On Stack, No-Hub, Single Water Closet Carrier <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> <i>For Positioning Frame, Add</i> <i>For Supply Pipe Support, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For 4" Branch, Add</i> <i>For Auxiliary Inlet, Add</i> <i>For Carrier For Wide Chase Installations, Add</i> <i>For Double 4" Branches, Add</i> <i>For Special Duty 1,000 LB Carrier, Add</i>	773.61 -53.90 36.07 36.87 45.87 122.02 156.33 212.37 244.83 255.86	46.87
22 42 13 13-0053 EA Vertical Close With Offset, No-Hub, Double Water Closet (Back To Back) Carrier <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> <i>For Positioning Frame, Add</i> <i>For Supply Pipe Support, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Auxiliary Inlet, Add</i> <i>For Special Duty 500 LB Carrier, Add</i>	1,066.27 -107.79 78.79 80.41 91.73 169.65 511.71	68.79
22 42 13 13-0054 EA Vertical Close On Stack, No-Hub, Double Water Closet (Back To Back) Carrier <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> <i>For Positioning Frame, Add</i> <i>For Supply Pipe Support, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Auxiliary Inlet, Add</i> <i>For Special Duty 500 LB Carrier, Add</i>	1,095.24 -107.79 78.79 80.41 91.73 169.65 511.71	68.79
22 42 13 13-0055 EA Vertical Adjustable On Stack, No-Hub, Double Water Closet (Back To Back) Carrier <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> <i>For Positioning Frame, Add</i> <i>For Supply Pipe Support, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For 4" Branch, Add</i> <i>For Auxiliary Inlet, Add</i> <i>For Double 4" Branches, Add</i> <i>For Carrier For Wide Chase Installations, Add</i> <i>For Special Duty 1,000 LB Carrier, Add</i>	1,326.16 -107.79 78.79 80.41 91.73 128.68 169.65 258.15 464.70 511.73	68.79
22 42 13 13-0056 EA Horizontal Adjustable, No-Hub, Double Water Closet (Back To Back) Carrier <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> <i>For Positioning Frame, Add</i> <i>For Supply Pipe Support, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Horizontal No Hub Cast Long Barrel, Add</i> <i>For Carrier For Wide Chase Installations, Add</i> <i>For Special Duty 1,000 LB Carrier, Add</i>	1,250.52 -107.79 78.79 80.41 91.73 164.88 464.70 511.73	68.79
22 42 13 13-0057 Hub And Spigot, Water Closet Carriers (22 42 13 13-0045) Note: Includes coated cast iron construction, ABS extension with integral test cap, plated hardware and neoprene fixture gasket. Includes buttress feet or pylon feet and anchor foot.		
22 42 13 13-0058 EA Vertical Close With Offset, Hub And Spigot, Single Water Closet Carrier <i>For Positioning Frame, Add</i> <i>For Supply Pipe Support, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Hanger Type Closet Adapter, Add</i> <i>For Auxiliary Inlet, Add</i>	643.26 36.07 36.87 45.87 115.06 156.33	46.87
22 42 13 13-0059 EA Vertical Close On Stack, Hub And Spigot, Single Water Closet Carrier <i>For Positioning Frame, Add</i> <i>For Supply Pipe Support, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Auxiliary Inlet, Add</i> <i>For Special Duty 500 LB Carrier, Add</i>	643.26 36.07 36.87 45.87 156.33 255.86	46.87
22 42 13 13-0060 EA Vertical Adjustable On Stack, Hub And Spigot, Single Water Closet Carrier <i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i> <i>For Positioning Frame, Add</i> <i>For Supply Pipe Support, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For 4" Branch, Add</i> <i>For Auxiliary Inlet, Add</i> <i>For Carrier For Wide Chase Installations, Add</i> <i>For Double 4" Branches, Add</i> <i>For Special Duty 1,000 LB Carrier, Add</i>	800.96 -53.90 36.07 36.87 45.87 122.02 156.33 212.37 244.83 255.86	46.87

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 13-0061 EA Vertical Close With Offset, Hub And Spigot, Double Water Closet (Back To Back) Carrier	1,066.27	68.79
<i>For Positioning Frame, Add</i>	78.79	
<i>For Supply Pipe Support, Add</i>	80.41	
<i>For Vandal Proof Trim, Add</i>	91.73	
<i>For Auxiliary Inlet, Add</i>	169.65	
<i>For Hanger Type Closet Adapter, Add</i>	230.11	
22 42 13 13-0062 EA Vertical Adjustable On Stack, Hub And Spigot, Double Water Closet (Back To Back) Carrier	1,353.51	68.79
<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-107.79	
<i>For Positioning Frame, Add</i>	78.79	
<i>For Supply Pipe Support, Add</i>	80.41	
<i>For Vandal Proof Trim, Add</i>	91.73	
<i>For 4" Branch, Add</i>	128.68	
<i>For Auxiliary Inlet, Add</i>	169.65	
<i>For Double 4" Branches, Add</i>	258.15	
<i>For Carrier For Wide Chase Installations, Add</i>	464.70	
<i>For Special Duty 1,000 LB Carrier, Add</i>	511.73	
22 42 13 13-0063 Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Water Closet Carriers <i>(22 42 13 13-0045)</i>		
Note: Includes coated cast iron construction, plastic fitting adaptor with extension and plated hardware.		
22 42 13 13-0064 EA Vertical On Stack, Floor Mount Polyvinyl Chloride (PVC) Adaptor Type, Single Water Closet Carrier	502.46	46.87
<i>For Positioning Frame, Add</i>	36.07	
<i>For Supply Pipe Support, Add</i>	36.87	
<i>For Vandal Proof Trim, Add</i>	45.87	
<i>For Hanger Type Closet Adapter, Add</i>	115.06	
22 42 13 13-0065 Institutional Water Closet Carriers <i>(22 42 13 13-0045)</i>		
Note: Includes coated cast iron construction, ABS extension with integral test cap, buttress feet, plated hardware and neoprene fixture gasket.		
22 42 13 13-0066 EA Vertical On Stack, No-Hub, 90 Degree Institutional, Double Waste Fitting With Vent And Carrier, Water Closet Carrier	1,726.85	68.79
<i>For Carrier For Floor Mounted, Back Outlet China Bowls, Deduct</i>	-107.79	
<i>For Positioning Frame, Add</i>	78.79	
<i>For Supply Pipe Support, Add</i>	80.41	
<i>For Vandal Proof Trim, Add</i>	91.73	
<i>For Auxiliary Inlet, Add</i>	169.65	
22 42 13 13-0067 Removal And Reinstallation Of Fixtures And Trim <i>(22 42 13 13)</i>		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 13 13-0068 EA Removal And Reinstallation Of Wall Hung Water Closet With Tank	405.81	
22 42 13 13-0069 EA Removal And Reinstallation Of Wall Hung Water Closet With Flush Valve	405.81	
22 42 13 13-0070 EA Removal And Reinstallation Of Floor Mount Water Closet With Tank	312.12	
22 42 13 13-0071 EA Removal And Reinstallation Of Floor Mount Water Closet With Flush Valve	312.12	
22 42 13 16 Commercial Urinals <i>(22 42 13)</i>		
22 42 13 16-0001 Vitreous China Urinals <i>(22 42 13 16)</i>		
Note: Excludes flush valve unless indicated otherwise.		
22 42 13 16-0002 Wall Hung Urinals <i>(22 42 13 16-0001)</i>		
22 42 13 16-0003 EA Washout, Wall Hung, Vitreous China Urinal (American Standard Maybrook™)	515.94	94.97
22 42 13 16-0004 EA Washout, Wall Hung, Vitreous China Urinal With Top Spud (American Standard Washbrook®)	644.41	94.97
22 42 13 16-0005 EA Washout, Wall Hung, Vitreous China Urinal With Back Spud (American Standard Washbrook®)	671.28	94.97
22 42 13 16-0006 EA Blowout, Wall Hung, Vitreous China Urinal (American Standard Lynbrook™)	710.74	94.97
22 42 13 16-0007 EA Siphon Jet, Wall Hung, Vitreous China Urinal (American Standard Trimbrook™)	642.31	94.97
22 42 13 16-0008 EA Siphon Jet, Wall Hung, Vitreous China Urinal (American Standard Allbrook™)	533.77	94.97
22 42 13 16-0009 EA Washout, Wall Hung, Vitreous China Urinal (Toto® UT447E Or UT447EV)	661.19	94.97
22 42 13 16-0010 EA Washout, Wall Hung, Vitreous China Urinal (Toto® UT104E Or UT104EV)	557.36	94.97
22 42 13 16-0011 EA Washout, Wall Hung, Vitreous China Urinal (Zurn Z5798)	607.81	94.97
22 42 13 16-0012 EA 0.125 To 0.5 GPF, HEU, Washout, Wall Hung, Vitreous China Urinal (Sloan SU-1009-A)	549.94	94.97
22 42 13 16-0013 EA 1.0 GPF, HEU, Washout, Wall Hung, Vitreous China Urinal (Sloan SU-1006-A)	547.74	94.97
22 42 13 16-0014 Floor Mounted Urinals <i>(22 42 13 16-0001)</i>		
22 42 13 16-0015 EA Washout, Floor Mounted, Vitreous China Urinal (American Standard Stallbrook™)	891.79	119.82
22 42 13 16-0016 EA Washout, Floor Mounted, Vitreous China Urinal (Kohler® Branham™)	1,025.79	119.82
22 42 13 16-0017 EA Floor Mounted Urinal Seam Cover For 21" Centers (Kohler® K-4931)	307.91	22.19
22 42 13 16-0018 EA Floor Mounted Urinal Seam Cover For 24" Centers (Kohler® K-4932)	350.81	22.19
22 42 13 16-0019 Waterfree Urinals <i>(22 42 13 16-0001)</i>		
22 42 13 16-0020 EA Waterfree, Wall Hung, Vitreous China Urinal (American Standard Large FloWise® Flush-Free)	608.00	66.57
<i>For Colored Fixtures, Add</i>	66.90	
<i>For >1, Deduct</i>	-44.02	
22 42 13 16-0021 EA Waterfree, Wall Hung, Vitreous China Urinal (SLOAN WES-1000)	765.48	66.57
<i>For Colored Fixtures, Add</i>	66.90	
<i>For >1, Deduct</i>	-61.97	
22 42 13 16-0022 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-2000)	668.94	66.57
<i>For Colored Fixtures, Add</i>	66.90	
<i>For >1, Deduct</i>	-50.96	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 13 16-0023 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-4000).....	529.27	66.57
For Colored Fixtures, Add	66.90	
For >1, Deduct	-35.04	
22 42 13 16-0024 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-5000).....	529.27	66.57
For Colored Fixtures, Add	66.90	
For >1, Deduct	-35.04	
22 42 13 16-0025 EA Waterfree, Wall Hung, Vitreous China Urinal (Falcon F-7000).....	638.99	66.57
For Colored Fixtures, Add	66.90	
For >1, Deduct	-47.55	
22 42 13 16-0026 EA Waterfree, Wall Hung, Stainless Steel Urinal (Falcon F-9000)	932.35	66.57
For >1, Deduct	-80.99	
22 42 13 16-0027 Stainless Steel Urinals (22 42 13 16)		
22 42 13 16-0028 EA Wall Hung Urinal, Stainless Steel, Blowout Jet (Acom 2160-T-1).....	3,904.29	199.70
22 42 13 16-0029 EA 5' Wall Hung Trough Urinal, Stainless Steel With Strainer And Washdown Pipe (Elkay EU6014C)	5,071.02	244.08
22 42 13 16-0030 Urinal Carriers (22 42 13 16)		
22 42 13 16-0031 Floor Mounted, Urinal Carriers (22 42 13 16-0030)		
Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 42 13 16-0032 EA Floor Mounted Hanger Plate Type, Single Urinal Carrier	366.06	33.73
For Up To 4" Extension Sleeves And Hardware, Add	16.89	
22 42 13 16-0033 EA Floor Mounted Bearing Plate Type, Single Urinal Carrier	396.63	33.73
For Up To 4" Extension Sleeves And Hardware, Add	16.89	
22 42 13 16-0034 Wall Mounted, Urinal Carriers (22 42 13 16-0030)		
Note: Includes wall plate and adjustable supporting rods.		
22 42 13 16-0035 EA Wall Mounted Hanger Plate Type, Single Urinal Carrier	175.37	33.73
For Up To 6-1/2" Extension Sleeves And Hardware, Add	16.89	
22 42 13 16-0036 Removal And Reinstallation Of Fixtures And Trim (22 42 13 16)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 13 16-0037 EA Removal And Reinstallation Of Wall Hung Urinal With Flush Valve.....	404.33	
22 42 16 Commercial Lavatories And Sinks (22 42)		
22 42 16 13 Commercial Lavatories (22 42 16)		
22 42 16 13-0001 Lavatories (22 42 16 13)		
Note: Includes trap, drain and supply valves. Excludes faucets.		
22 42 16 13-0002 Wall Hung Lavatories (22 42 16 13-0001)		
22 42 16 13-0003 EA 19" x 17" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™)	509.61	59.46
22 42 16 13-0004 EA 20" x 18" Porcelain Enameled Cast Iron Wall Hung Lavatory (American Standard Regalyn™)	535.19	59.46
22 42 16 13-0005 EA 22" x 19" Porcelain Enameled Cast Iron Wall Hung Lavatory (Kohler® Hampton™).....	678.51	59.46
22 42 16 13-0006 EA 18" x 16" Vitreous China Wall Hung Lavatory (American Standard Penlyn™).....	462.95	59.46
22 42 16 13-0007 EA 19" x 17" Vitreous China Wall Hung Lavatory (American Standard Declyn™).....	391.46	59.46
22 42 16 13-0008 EA 20" x 18" Vitreous China Wall Hung Lavatory (Kohler® Soho®).....	509.19	59.46
22 42 16 13-0009 EA 27" x 20" Wheelchair Accessible, Vitreous China Wall Hung Lavatory (American Standard Wheel Chair Users)	609.69	59.46
22 42 16 13-0010 EA 20" x 18" Vitreous China Wall Hung Lavatory (American Standard Roxalyn™).....	474.99	59.46
22 42 16 13-0011 EA 20" x 18" Vitreous China Wall Hung Lavatory (American Standard Lucerne™).....	412.53	59.46
22 42 16 13-0012 Countertop Lavatories (22 42 16 13-0001)		
22 42 16 13-0013 EA 20" x 18" Oval Vitreous China Countertop Lavatory (Kohler® Pennington®)	444.14	71.89
22 42 16 13-0014 EA 21" x 18" Vitreous China Countertop Lavatory (American Standard Cadet™ Oval).....	452.83	71.89
22 42 16 13-0015 EA 19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Farmington™).....	477.06	71.89
22 42 16 13-0016 EA 19" x 16" Enameled Cast Iron Countertop Lavatory (Kohler® Ellington™)	502.85	71.89
22 42 16 13-0017 EA 24" x 18" Enameled Cast Iron Countertop Lavatory (Kohler® Thoreau®)	647.91	77.66
22 42 16 13-0018 Undercounter Lavatories (22 42 16 13-0001)		
22 42 16 13-0019 EA 15" x 12" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	447.84	71.89
22 42 16 13-0020 EA 17" x 14" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	418.47	71.89
22 42 16 13-0021 EA 19" x 16" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	418.47	71.89
22 42 16 13-0022 EA 21" x 17" Vitreous China Undercounter Lavatory (American Standard Ovalyn™)	454.08	71.89
22 42 16 13-0023 EA 15" x 12" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	431.84	71.89
22 42 16 13-0024 EA 17" x 14" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	426.43	71.89
22 42 16 13-0025 EA 19" x 15" Oval Vitreous China Undercounter Lavatory (Kohler® Caxton®)	431.94	71.89
22 42 16 13-0026 EA 18" x 12" Rectangular Vitreous China Undercounter Lavatory (Kohler® Ladena®).....	553.50	71.89
22 42 16 13-0027 EA 21" x 14" Rectangular Vitreous China Undercounter Lavatory (Kohler® Ladena®).....	553.50	71.89
22 42 16 13-0028 Pedestal Lavatories (22 42 16 13-0001)		
22 42 16 13-0029 EA 19" x 24" x 35" High Vitreous China Pedestal Sink (American Standard Cadet™).....	589.31	170.86



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 13-0030			Pre-Molded Culture Marble Lavatory Vanity (22 42 16 13-0001) Note: Includes splash. Single sink, center or offset. Bowl is either oval, shell shape or rectangular.		
22 42 16 13-0031	EA		24" x 18" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	262.28 37.46	66.57
22 42 16 13-0032	EA		30" x 18" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	286.80 42.00	71.00
22 42 16 13-0033	EA		36" x 18" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	307.70 45.49	75.44
22 42 16 13-0034	EA		25" x 19" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	268.30 39.21	66.57
22 42 16 13-0035	EA		31" x 19" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	290.39 43.04	71.00
22 42 16 13-0036	EA		37" x 19" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	310.10 46.19	75.44
22 42 16 13-0037	EA		43" x 19" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	344.64 54.91	77.66
22 42 16 13-0038	EA		49" x 19" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	373.18 61.89	79.88
22 42 16 13-0039	EA		25" x 22" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	292.37 46.19	66.57
22 42 16 13-0040	EA		31" x 22" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	331.32 54.91	71.00
22 42 16 13-0041	EA		37" x 22" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	352.24 58.41	75.44
22 42 16 13-0042	EA		43" x 22" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	375.94 63.99	77.66
22 42 16 13-0043	EA		49" x 22" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	397.26 68.88	79.88
22 42 16 13-0044	EA		55" x 22" Pre-Molded Culture Marble Vanity Top With Lavatory <i>For Colored Fixtures, Add</i>	425.38 74.46	84.31
22 42 16 13-0045			Solid Surface Multi-Station Lavatory Systems (22 42 16 13-0001) Note: ADA compliant. Includes integral faucets.		
22 42 16 13-0046	EA		2 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-2)..... <i>For Integral Liquid Soap Dispenser, Add</i> <i>For Integral Photovoltaic Power Panels, Add</i>	4,021.75 171.00 563.00	126.52
22 42 16 13-0047	EA		3 Station, Solid Surface Multi-Station Lavatory System With Integral Sprayheads And Infrared Controls (Bradley MG-3)..... <i>For Integral Liquid Soap Dispenser, Add</i> <i>For Integral Photovoltaic Power Panels, Add</i>	5,872.06 171.00 657.00	126.52
22 42 16 13-0048	EA		12" Length, Solid Surface Countertop Extension (Bradley MG-EXT-12).....	285.66	42.18
22 42 16 13-0049	EA		18" Length, Solid Surface Countertop Extension (Bradley MG-EXT-18).....	349.31	42.18
22 42 16 13-0050	EA		36" Length, Solid Surface Countertop Extension (Bradley MG-EXT-36).....	673.49	42.18
22 42 16 13-0051			Stainless Steel Lavatories (22 42 16 13-0001)		
22 42 16 13-0052	EA		18" x 15" Wall Mounted Lavatory, Stainless Steel (Acorn 1950-1).....	1,922.32	155.33
22 42 16 13-0053			Lavatory Carriers (22 42 16 13)		
22 42 16 13-0054			Floor Mounted, Lavatory Carriers (22 42 16 13-0053)		
22 42 16 13-0055			Floor Mounted Plate Type, Lavatory Carriers (22 42 16 13-0054) Note: Includes adjustable supporting rods, structural uprights and welded feet.		
22 42 16 13-0056	EA		Floor Mounted Hanger Plate Type, Single Lavatory Carrier..... <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For Corner Carrier, Add</i>	366.06 16.89 61.79 120.36	33.73
22 42 16 13-0057	EA		Floor Mounted Bearing Plate Type, Single Lavatory Carrier <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i>	396.63 16.89 61.79	33.73
22 42 16 13-0058	EA		Floor Mounted Hanger Plate Type, Double Lavatory (Back To Back) Carrier..... <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i>	450.54 33.79 123.57	33.73
22 42 16 13-0059	EA		Floor Mounted Bearing Plate Type, Double Lavatory (Back To Back) Carrier <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i>	512.50 33.79 123.57	33.73
22 42 16 13-0060			Floor Mounted, Lavatory Carriers With Arms (22 42 16 13-0054) Note: Includes leveling and securing screws, structural uprights and welded feet.		
22 42 16 13-0061	EA		Floor Mounted, Single Lavatory Carrier With Concealed Arms..... <i>For Up To 6-1/2" Extension Sleeves And Hardware, Add</i> <i>For Concealed Arm Carrier For Wheelchair Lavatory, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i> <i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	468.28 16.89 23.34 63.56 57.12 103.79	39.94



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 13-0062	EA		Floor Mounted, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms..... <i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For Heavy Duty Carrier, Add</i>	616.33 16.89 45.87 63.56 58.73	39.94
22 42 16 13-0063	EA		Floor Mounted, Double Lavatory (Back To Back) Carrier With Concealed Arms <i>For Up To 6-1/2" Extension Sleeves And Hardware, Add</i> <i>For Concealed Arm Carrier For Wheelchair Lavatory, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i> <i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	615.52 33.79 46.67 127.12 114.25 207.58	39.94
22 42 16 13-0064	EA		Floor Mounted, Double Lavatory (Back To Back) Carrier With Exposed Acid Resistant White Coated Arms..... <i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i> <i>For Heavy Duty Carrier, Add</i>	898.74 33.79 91.73 127.12 117.46	39.94
22 42 16 13-0065			Wall Mounted, Lavatory Carriers (22 42 16 13-0053)		
22 42 16 13-0066			Wall Mounted Plate Type, Lavatory Carriers (22 42 16 13-0065) Note: Includes wall plate and adjustable supporting rods.		
22 42 16 13-0067	EA		Wall Mounted Hanger Plate Type, Single Lavatory Carrier..... <i>For Double Plate Carrier, Add</i>	175.37 49.23	33.73
22 42 16 13-0068			Wall Mounted Plate Type, Lavatory Carriers With Arms (22 42 16 13-0065) Note: Includes wall plate and leveling and securing screws.		
22 42 16 13-0069	EA		Wall Mounted Fixed Steel Plate Type, Single Lavatory Carrier With Concealed Arms <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i>	280.82 16.89 57.12	39.94
22 42 16 13-0070	EA		Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Concealed Arms <i>For Movable Mounting Brackets, Deduct</i> <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For 2" Chrome Plated Escutcheons, Add</i> <i>For 4" Or 6" Chrome Plated Escutcheons, Add</i>	325.87 -43.45 16.89 57.12 103.79	39.94
22 42 16 13-0071	EA		Wall Mounted Adjustable Plate Type, Single Lavatory Carrier With Exposed Acid Resistant White Coated Arms..... <i>For Up To 4-1/2" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i>	465.07 16.89 45.87	39.94
22 42 16 13-0072			Removal And Reinstallation Of Lavatory And Trim (22 42 16 13) Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 16 13-0073	EA		Removal And Reinstallation Of Wall Hung Lavatory With Faucet.....	261.05	
22 42 16 16			Commercial Sinks (22 42 16)		
22 42 16 16-0001			Sinks (22 42 16 16) Note: Includes drain, trap and supply valves. Excludes faucets.		
22 42 16 16-0002			Kitchen Sinks (22 42 16 16-0001)		
22 42 16 16-0003	EA		25" x 22" x 8-3/4" Enameled Cast Iron Kitchen Sink, Single Bowl (Kohler® Mayfield®).....	645.67	83.43
22 42 16 16-0004	EA		22" x 33" x 9-5/8" Enameled Cast Iron Kitchen Sink, Double Bowl (Kohler® Brookfield®).....	859.85	94.97
22 42 16 16-0005	EA		15" x 17" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1517)..... <i>For 18 Gauge, Add</i>	929.87 298.52	81.66
22 42 16 16-0006	EA		17" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR1722)..... <i>For 18 Gauge, Add</i>	959.17 313.17	81.66
22 42 16 16-0007	EA		22" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2222)..... <i>For 18 Gauge, Add</i>	1,025.09 346.13	81.66
22 42 16 16-0008	EA		25" x 22" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR2522)..... <i>For 18 Gauge, Add</i>	1,079.68 368.10	83.43
22 42 16 16-0009	EA		31" x 22" x 7-1/4" Stainless Steel Kitchen Sink, Single Bowl, 20 Gauge (Elkay PSR3122)..... <i>For 18 Gauge, Add</i>	1,401.67 512.15	94.97
22 42 16 16-0010	EA		33" x 21" x 7-1/2" Stainless Steel Kitchen Sink, Double Bowl, 20 Gauge (Elkay PSR3321)..... <i>For 18 Gauge, Add</i>	1,436.87 529.59	94.97
22 42 16 16-0011	EA		15" x 17" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR151710).....	1,404.75	81.66
22 42 16 16-0012	EA		17" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR172210).....	1,437.71	81.66
22 42 16 16-0013	EA		22" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR222210).....	1,520.73	81.66
22 42 16 16-0014	EA		25" x 22" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR252210).....	1,627.81	83.43
22 42 16 16-0015	EA		31" x 22" x 11-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay DLR312210).....	1,998.64	94.97
22 42 16 16-0016	EA		33" x 22" x 8" Stainless Steel Kitchen Sink, Double Bowl, 18 Gauge (Elkay LR3322).....	1,904.43	94.97
22 42 16 16-0017			Undermount Kitchen Sinks (22 42 16 16-0001)		
22 42 16 16-0018	EA		21" x 15" x 7-1/2" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU2115) With Strainer (Elkay LK99).....	1,228.86	81.66
22 42 16 16-0019	EA		21" x 15" x 10" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELU211510) With Strainer (Elkay LK99).....	1,225.30	81.66
22 42 16 16-0020	EA		21" x 15" x 7-1/2" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH2115) With Strainer (Elkay LK99).....	1,241.07	81.66
22 42 16 16-0021	EA		21" x 15" x 10" Stainless Steel Kitchen Sink With Cutting Board, Single Bowl, 18 Gauge (Elkay ELUH211510) With Strainer (Elkay LK99).....	1,324.09	81.66

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 16-0022 EA 21" x 15-3/4" x 4-3/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHAD2115) With Strainer (Elkay LK99).....	1,271.59	81.66
Note: Available in 4-1/2", 5, or 5-1/2" depths.		
22 42 16 16-0023 EA 25" x 20-1/2" x 7-7/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHF2520) With Strainer (Elkay LK99).....	1,484.36	81.66
22 42 16 16-0024 EA 32" x 20-1/2" x 7-7/8" Stainless Steel Kitchen Sink, Single Bowl, 18 Gauge (Elkay ELUHF3320) With Strainer (Elkay LK99).....	1,802.46	81.66
22 42 16 16-0025 EA 21" x 18" x 5-1/2" Deep, Single Compartment Stainless Steel Sink, Undermount, 18 Gauge (Just Manufacturing Co. US-ADA-1821-A).....	964.34	81.66
22 42 16 16-0026 EA 32" x 18" x 5-1/2" Deep, Two Compartment Stainless Steel Sink, Undermount, 18 Gauge (Just Manufacturing Co. UD-ADA-1832-A).....	1,321.51	81.66
22 42 16 16-0027 Multi-Station Wash Sink, Wall Mounted (22 42 16 16-0001)		
Note: Includes concealed wall hanger, soap dish(s), strainer, supply lines and P-Trap. Excludes faucets.		
22 42 16 16-0028 EA 36" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™).....	1,818.36	144.23
Note: Excludes faucets.		
22 42 16 16-0029 EA 48" Wide, 2 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™).....	2,446.39	155.33
Note: Excludes faucets.		
22 42 16 16-0030 EA 60" Wide, 3 Station Enameled Cast Iron Multi-Station Wash Sink (Kohler® Brockway™).....	2,817.91	166.41
Note: Excludes faucets.		
22 42 16 16-0031 EA 48" Wide, 2 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	2,712.46	110.95
Note: Excludes faucets.		
22 42 16 16-0032 EA 62" Wide, 3 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	3,018.13	122.04
Note: Excludes faucets.		
22 42 16 16-0033 EA 80" Wide, 4 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	3,317.22	133.13
Note: Excludes faucets.		
22 42 16 16-0034 EA 102" Wide, 5 Station Stainless Steel Multi-Station Wash Sink (Bradley 6951).....	3,681.16	149.77
Note: Excludes faucets.		
22 42 16 16-0035 EA 27" Diameter, 2 Person, Stainless Steel, Sensor Operated Compact Wash Fountain.....	3,631.34	244.08
Note: Includes sensor operated spray heads.		
22 42 16 16-0036 Utility Or Laundry Sinks (22 42 16 16-0001)		
22 42 16 16-0037 EA 23" x 21" Molded Stone Single Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FL-1).....	578.40	94.97
22 42 16 16-0038 EA 40" x 24" Molded Stone Double Laundry Sink, Floor Mounted With Enamel Steel Legs (Fiat Products FLTD-II).....	678.24	94.97
22 42 16 16-0039 EA 22" x 17" Molded Stone Single Laundry Sink, Drop-In (Fiat Products DL1).....	576.53	94.97
22 42 16 16-0040 EA 24" x 21" Enameled Cast Iron Single Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2210).....	929.41	94.97
22 42 16 16-0041 EA 48" x 21" Enameled Cast Iron Double Laundry Sink, Floor Mounted With Metal Stand (Eljer 222-2220).....	1,351.19	106.51
22 42 16 16-0042 Refinish Sink/Lavatory (22 42 16 16-0001)		
22 42 16 16-0043 EA Refinish Sink/Lavatory.....	208.91	
22 42 16 16-0044 Service Sinks (22 42 16 16-0001)		
22 42 16 16-0045 EA 22" x 18" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Lakewell™).....	934.00	142.90
22 42 16 16-0046 EA 24" x 20" Enameled Cast Iron Wall Mount Service Sink With Stainless Steel Rim Guard, Trap Standard (American Standard Akron™).....	988.46	142.90
22 42 16 16-0047 EA 28" x 28" Enameled Cast Iron Floor Type Corner Service Sink With Removable Vinyl Coated Rim Guard (American Standard Florwell™).....	1,255.66	189.05
22 42 16 16-0048 EA 12" x 12" x 10" Cast Iron Floor Sink With Dome Strainer And Full Grate (Zurn FD2377-PO3-F).....	503.66	133.13
22 42 16 16-0049 EA 24" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB2424).....	590.60	133.13
22 42 16 16-0050 EA 36" x 24" x 10" Plastic Composite Mop Service Sink With Combination Dome Strainer And Stainless Steel Lint Basket (Fiat Products MSB3624).....	648.75	159.76
22 42 16 16-0051 EA 24" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2424-010).....	544.81	133.13
22 42 16 16-0052 EA 36" x 24" x 10" Molded Stone Mop Service Sink With Strainer (Swanstone MS-2436-010).....	617.34	159.76
22 42 16 16-0053 EA 24" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-24).....	645.34	133.13
22 42 16 16-0054 EA 36" x 24" x 12" Terrazzo Mop Service Sink With Strainer (Acorn TSH-3624).....	794.06	159.76
22 42 16 16-0055 Soapstone Sinks (22 42 16 16-0001)		
22 42 16 16-0056 EA 26-1/2" x 18-1/2" x 7-3/4" Single Bowl Soapstone Sink.....	1,034.67	81.66
22 42 16 16-0057 SF Soapstone Sink Backsplash.....	156.50	
22 42 16 16-0058 EA 30" x 18-1/2" x 10" Single Bowl Soapstone Sink.....	1,328.24	94.97
22 42 16 16-0059 EA 36" x 18-1/2" x 10" Double Bowl Soapstone Sink.....	1,567.80	94.97
22 42 16 16-0060 Stainless Steel Sink And Drainboard (22 42 16 16-0001)		
22 42 16 16-0061 EA 24" x 24" Stainless Steel Sink With One Compartment And Drainboard, 14 Gauge Stainless Steel With Tubular Adjustable Legs (Advance Tabco 94-41-24-24L).....	2,803.41	221.89
22 42 16 16-0062 Sink Carriers (22 42 16 16)		
22 42 16 16-0063 Floor Mounted, Sink Carriers (22 42 16 16-0062)		
Note: With support plates, adjustable coupling with 4" piping connection, mounting studs, structural uprights, welded feet and chrome plated trim.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 16 16-0064 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling <i>For Vandal Proof Trim, Add</i> <i>For Valve Plate For Attaching To Upright, Add</i>	522.95 45.87 61.79	33.73
22 42 16 16-0065 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With 4" Adjustable Coupling And 4" x 2" Waste Fitting..... <i>For Vandal Proof Trim, Add</i> <i>For Auxiliary Vent, Add</i>	798.93 45.87 138.23	33.73
22 42 16 16-0066 EA Floor Mounted Heavy Duty Support Plate Type, Single Sink Carrier With Exposed Acid Resistant White Coated Arms <i>For Up To 4" Extension Sleeves And Hardware, Add</i> <i>For Vandal Proof Trim, Add</i>	995.26 34.60 45.87	33.73
22 42 16 16-0067 Removal And Reinstallation Of Sink And Trim (22 42 16 16) Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 16 16-0068 EA Removal And Reinstallation Of Wall Hung Service Sink With Faucet.....	357.89	
22 42 19 Commercial Bathtubs (22 42)		
22 42 19 00-0001 Recessed Alcove Bathtubs (22 42 19)		
22 42 19 00-0002 Porcelain Enameled Cast Iron, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0003 EA 54" x 30-1/4" x 14", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Seaforth™).....	1,446.31	246.74
22 42 19 00-0004 EA 60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Mendota®).....	1,231.85	246.74
22 42 19 00-0005 EA 60" x 32" x 16-1/4", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Dynametric®).....	1,451.69	246.74
22 42 19 00-0006 EA 66" x 32" x 17", Porcelain Enameled Cast Iron, Recessed Alcove Bathtub (Kohler® Bellwether®).....	1,883.01	246.74
22 42 19 00-0007 Porcelain Enameled Steel, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0008 EA 60" x 30" x 14-1/4", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Salem®).....	612.29	246.74
22 42 19 00-0009 EA 60" x 30" x 16-5/8", Porcelain Enameled Steel, Recessed Alcove Bathtub (American Standard New Solar®).....	627.65	246.74
22 42 19 00-0010 Porcelain Finished Metal Alloy, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0011 EA 60" x 32" x 17-3/4", Porcelain Finished Metal Alloy, Recessed Alcove Bathtub (American Standard Cambridge™).....	929.98	246.74
22 42 19 00-0012 Acrylic, Recessed Alcove Bathtubs (22 42 19 00-0001)		
22 42 19 00-0013 EA 60" x 32" x 19", Acrylic, Recessed Alcove Bathtub (Kohler® Archer®).....	959.03	246.74
22 42 19 00-0014 EA 60" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,144.70	246.74
22 42 19 00-0015 EA 66" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,168.68	246.74
22 42 19 00-0016 EA 72" x 36" x 20", Acrylic, Recessed Alcove Bathtub (Kohler® Mariposa®).....	1,153.94	246.74
22 42 19 00-0017 EA 72" x 42" x 21", Acrylic, Recessed Alcove Bathtub (Kohler® Windward®).....	1,206.96	246.74
22 42 19 00-0018 Bathtub Refinishing (22 42 19 00-0001)		
22 42 19 00-0019 EA Refinish Porcelain Finished Bathtub With Acrylic Urethane Enamel.....	472.66	
22 42 19 00-0020 Tub And Shower Combinations (22 42 19)		
22 42 19 00-0021 Acrylic Tub And Shower Combination (22 42 19 00-0020)		
22 42 19 00-0022 EA 1 Piece, 60" x 32" x 72" Acrylic Tub And Shower (Delta 226032).....	847.63	91.09
<i>For 2 Piece Enclosure, Deduct</i>	-187.80	
22 42 19 00-0023 Fiberglass Tub And Shower Combination (22 42 19 00-0020)		
22 42 19 00-0024 EA 1 Piece 60" x 32" x 72" Fiberglass Tub And Shower (Aquatic 2603-SG).....	788.02	91.09
22 42 19 00-0025 EA 2 Piece 60" x 30" x 72" Fiberglass Tub And Shower (Aquatic 2603-2P).....	632.40	60.73
22 42 19 00-0026 EA 4 Piece 60" x 32" x 75-1/2" Fiberglass Tub And Shower (Aquatic 26030-4P).....	1,253.53	137.49
22 42 19 00-0027 EA 3 Piece Tub/Shower Surrounds, 32" x 72" Side Walls, 48" x 72" Back, (Swanstone SK-324872).....	2,091.48	265.32
<i>For 2 Piece Enclosure, Deduct</i>	-438.40	
22 42 23 Commercial Showers (22 42)		
22 42 23 00-0001 Shower Enclosures (22 42 23)		
Note: Includes precast concrete receptors. Excludes plumbing hook-up and door or curtain.		
22 42 23 00-0002 Powder Coated Or Baked Enamel Steel Shower Enclosure (22 42 23 00-0001)		
22 42 23 00-0003 EA 32" x 32" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....	1,081.25	143.15
22 42 23 00-0004 EA 36" x 36" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....	1,081.25	143.15
22 42 23 00-0005 EA 40" x 40" x 82" Baked Enamel Steel Shower Enclosure (General Partitions).....	1,590.01	143.15
22 42 23 00-0006 EA 40" x 48" x 82" Handicapped, Baked Enamel Steel Shower Enclosure (General Partitions).....	1,741.05	143.15
22 42 23 00-0007 Solid Plastic Core High Density Polymer (HDP) Shower Enclosure (22 42 23 00-0001)		
22 42 23 00-0008 EA 32" x 32" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	1,725.15	143.15
22 42 23 00-0009 EA 36" x 36" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	1,725.15	143.15
22 42 23 00-0010 EA 40" x 40" x 82" Single Opening Solid Plastic Shower Enclosure (General Partitions).....	2,440.60	143.15
22 42 23 00-0011 EA 40" x 48" x 82" Handicapped, Solid Plastic Shower Enclosure (General Partitions).....	2,718.83	143.15

22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 23 00-0012			Composite Fiberglass Shower Enclosure, 4 Piece Knock-Down (22 42 23 00-0001)		
22 42 23 00-0013	EA		32" x 32" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 3232CS).....	919.89	143.15
22 42 23 00-0014	EA		36" x 36" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 3636CS).....	943.40	143.15
22 42 23 00-0015	EA		34" x 48" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 4834CS).....	966.91	143.15
22 42 23 00-0016	EA		30" x 60" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 6030CSL).....	1,013.93	143.15
22 42 23 00-0017	EA		34" x 60" x 76" Composite Shower Enclosure, 4 Piece (Aquatic 6034CS).....	1,076.23	143.15
22 42 23 00-0018			1 Piece Shower Units (22 42 23)		
22 42 23 00-0019	EA		1 Piece, 32" x 32" x 73" Fiberglass Shower With Drain (Swanstone FS03232).....	797.52	91.09
22 42 23 00-0020	EA		1 Piece, 36" x 36" x 73" Fiberglass Shower With Drain (Swanstone FS03636).....	883.74	91.09
22 42 23 00-0021			Personnel Type Shower Receptors (22 42 23)		
22 42 23 00-0022			Acrylic Shower Receptors (22 42 23 00-0021)		
22 42 23 00-0023	EA		36" x 36" Acrylic Shower Receptor.....	384.37	36.15
22 42 23 00-0024	EA		42" x 42" Acrylic Shower Receptor.....	406.38	36.15
22 42 23 00-0025	EA		48" x 48" Acrylic Shower Receptor.....	450.33	36.15
22 42 23 00-0026	EA		60" x 60" Acrylic Shower Receptor.....	547.69	43.38
22 42 23 00-0027	EA		48" x 32" Acrylic Shower Receptor.....	385.41	36.15
22 42 23 00-0028	EA		48" x 36" Acrylic Shower Receptor.....	414.35	36.15
22 42 23 00-0029	EA		48" x 42" Acrylic Shower Receptor.....	468.20	36.15
22 42 23 00-0030	EA		60" x 32" Acrylic Shower Receptor.....	520.30	43.38
22 42 23 00-0031	EA		60" x 36" Acrylic Shower Receptor.....	524.02	43.38
22 42 23 00-0032	EA		60" x 42" Acrylic Shower Receptor.....	527.44	43.38
22 42 23 00-0033	EA		60" x 48" Acrylic Shower Receptor.....	580.94	43.38
22 42 23 00-0034	EA		36" x 36" Acrylic Corner Shower Receptor.....	560.78	36.15
22 42 23 00-0035	EA		42" x 42" Acrylic Corner Shower Receptor.....	643.85	36.15
22 42 23 00-0036			Molded Stone Shower Receptors (22 42 23 00-0021)		
22 42 23 00-0037	EA		32" x 32" Molded Stone Shower Receptor (Fiat 32WL).....	256.39	36.15
22 42 23 00-0038	EA		34" x 34" Molded Stone Shower Receptor (Fiat 34WL).....	268.81	36.15
22 42 23 00-0039	EA		36" x 36" Molded Stone Shower Receptor (Fiat 36WL).....	270.19	36.15
22 42 23 00-0040	EA		42" x 42" Molded Stone Shower Receptor (Fiat 4242WL).....	331.59	36.15
22 42 23 00-0041	EA		42" x 34" Molded Stone Shower Receptor (Fiat 42WL).....	294.34	36.15
22 42 23 00-0042	EA		48" x 32" Molded Stone Shower Receptor (Fiat 4832WL).....	311.59	36.15
22 42 23 00-0043	EA		48" x 34" Molded Stone Shower Receptor (Fiat 48WL).....	313.66	36.15
22 42 23 00-0044	EA		54" x 34" Molded Stone Shower Receptor (Fiat 54WL).....	363.27	43.38
22 42 23 00-0045	EA		60" x 34" Molded Stone Shower Receptor (Fiat 60WL).....	376.38	43.38
22 42 23 00-0046	EA		36" x 36" Molded Stone Corner Shower Receptor (Fiat 36WLC).....	297.79	36.15
22 42 23 00-0047	EA		38" x 38" Molded Stone Corner Shower Receptor (Fiat 38WLC).....	305.38	36.15
22 42 23 00-0048			Precast Terrazzo Shower Receptors (22 42 23 00-0021)		
22 42 23 00-0049	EA		30" x 30" Precast Terrazzo Shower Receptor.....	481.30	36.15
22 42 23 00-0050	EA		32" x 32" Precast Terrazzo Shower Receptor.....	499.93	36.15
22 42 23 00-0051	EA		34" x 34" Precast Terrazzo Shower Receptor.....	517.18	36.15
22 42 23 00-0052	EA		36" x 36" Precast Terrazzo Shower Receptor.....	519.25	36.15
22 42 23 00-0053	EA		40" x 40" Precast Terrazzo Shower Receptor.....	568.23	36.15
22 42 23 00-0054	EA		42" x 42" Precast Terrazzo Shower Receptor.....	593.07	36.15
22 42 23 00-0055	EA		48" x 48" Precast Terrazzo Shower Receptor.....	833.16	36.15
22 42 23 00-0056	EA		36" x 32" Precast Terrazzo Shower Receptor.....	513.04	36.15
22 42 23 00-0057	EA		42" x 32" Precast Terrazzo Shower Receptor.....	522.93	36.15
22 42 23 00-0058	EA		42" x 34" Precast Terrazzo Shower Receptor.....	540.64	36.15
22 42 23 00-0059	EA		42" x 36" Precast Terrazzo Shower Receptor.....	562.71	36.15
22 42 23 00-0060	EA		32" x 48" Precast Terrazzo Shower Receptor.....	564.78	36.15
22 42 23 00-0061	EA		48" x 34" Precast Terrazzo Shower Receptor.....	593.07	36.15
22 42 23 00-0062	EA		54" x 32" Precast Terrazzo Shower Receptor.....	621.36	36.15
22 42 23 00-0063	EA		60" x 30" Precast Terrazzo Shower Receptor.....	839.75	43.38
22 42 23 00-0064	EA		60" x 32" Precast Terrazzo Shower Receptor.....	918.03	43.38
22 42 23 00-0065	EA		60" x 34" Precast Terrazzo Shower Receptor.....	921.87	43.38
22 42 23 00-0066	EA		60" x 36" Precast Terrazzo Shower Receptor.....	925.69	43.38
22 42 23 00-0067	EA		32" x 32" Precast Terrazzo Corner Shower Receptor.....	522.01	36.15
22 42 23 00-0068	EA		34" x 34" Precast Terrazzo Corner Shower Receptor.....	522.93	36.15
22 42 23 00-0069	EA		36" x 36" Precast Terrazzo Corner Shower Receptor.....	524.77	36.15
22 42 23 00-0070	EA		40" x 40" Precast Terrazzo Corner Shower Receptor.....	628.95	36.15
22 42 23 00-0071	EA		36" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor.....	1,142.93	36.15
22 42 23 00-0072	EA		60" x 30", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor.....	1,272.58	43.38
22 42 23 00-0073	EA		60" x 36", ADA Wheelchair Accessible, Precast Terrazzo Shower Receptor.....	1,326.39	43.38
22 42 23 00-0074			Shower Receptors Accessories (22 42 23 00-0021)		
22 42 23 00-0075	SF		Polyvinyl Chloride (PVC) Shower Pan Liner.....	3.23	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 42 23 00-0076			Removal And Reinstallation Of Fixtures And Trim <small>(22 42 23)</small>		
			Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 42 23 00-0077	EA		Removal And Reinstallation Of Shower Head.....	43.38	
22 42 33 Wash Fountains <small>(22 42)</small>					
22 42 33 00-0001			Circular Wash Fountain, Deep Bowl <small>(22 42 33)</small>		
			Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.		
22 42 33 00-0002	EA		36" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2705F-A-LSD).....	9,342.16	147.61
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0003	EA		36" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2805F-A-LSD).....	4,955.77	147.61
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0004	EA		36" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3105AIRLSDE).....	8,665.78	147.61
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0005	EA		54" Stainless Steel Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2708F-A-LSD).....	11,928.10	168.69
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0006	EA		54" Bradstone® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2808F-A-LSD).....	5,719.28	168.69
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0007	EA		54" Terreon® Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3108AIRLSDE).....	10,388.97	168.69
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0008			Semi-Circular Wash Fountain, Deep Bowl <small>(22 42 33)</small>		
			Note: Includes trim and trap. 2" IPS waste outlets foot control/hand control operated.		
22 42 33 00-0009	EA		36" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2703F-A-LSD).....	8,153.55	126.52
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0010	EA		36" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2803F-A-LSD).....	4,530.30	126.52
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0011	EA		36" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3103AIRLSDE).....	6,560.75	126.52
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0012	EA		54" Stainless Steel Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2704F-A-LSD).....	10,013.10	147.61
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0013	EA		54" Bradstone® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley WF2804F-A-LSD).....	5,469.92	147.61
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 33 00-0014	EA		54" Terreon® Semi-Circular Wash Fountain Including Trim, Trap, 2" IPS Outlet And Foot/Hand Controls (Bradley TDB3104AIRLSDE).....	7,806.49	147.61
			For Metal Soap Dispenser, Add	100.00	
			For Stainless Steel Pedestal Panels, Add	100.00	
22 42 39 Commercial Faucets, Supplies, And Trim <small>(22 42)</small>					
22 42 39 00-0001			Kitchen Faucets <small>(22 42 39)</small>		
22 42 39 00-0002	EA		Top Cast Kitchen Faucet, Single Handle, Chrome Finish (Delta 140-DST).....	157.00	44.38
22 42 39 00-0003	EA		Top Cast Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 440-DST).....	175.91	44.38
22 42 39 00-0004	EA		Top Cast Kitchen Faucet, Single Handle, Stainless Steel Finish (Delta 140-SS-DST).....	229.61	44.38
22 42 39 00-0005	EA		Top Cast Kitchen Faucet With Spray, Single Handle, Stainless Steel Finish (Delta 440-SS-DST).....	263.80	44.38
22 42 39 00-0006	EA		Top Cast Kitchen Faucet, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2102LF-LHP+H24).....	147.01	44.38
22 42 39 00-0007	EA		Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, 8" Center, Lever Handles (Delta 2402LF-LHP+H24).....	160.33	44.38
22 42 39 00-0008	EA		Top Cast Kitchen Faucet, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21987LF).....	205.22	44.38
22 42 39 00-0009	EA		Top Cast Kitchen Faucet With Spray, Two Handle, Chrome Finish, Center Gooseneck Faucet, Lever Handles (Delta 21996LF).....	148.89	44.38
22 42 39 00-0010	EA		Bottom Mount Kitchen Faucet, Single Handle, Chrome Finish (Delta 101LF-WF).....	143.85	44.38
22 42 39 00-0011	EA		Bottom Mount Kitchen Faucet With Spray, Single Handle, Chrome Finish (Delta 175LF-WF).....	168.49	44.38
22 42 39 00-0012	EA		Bottom Mount Kitchen Faucet, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2274-LHP+H24).....	282.65	44.38
22 42 39 00-0013	EA		Bottom Mount Kitchen Faucet With Spray, Two Handle, Chrome Finish, Gooseneck Faucet, Lever Handles (Delta 2276-LHP+H24).....	309.12	44.38
22 42 39 00-0014	EA		Deck Mount Sink Faucet, 8" Center Set, Lever Handles (Chicago Faucet 1100 ABCP).....	292.64	48.19



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0015	EA		Deck Mount Sink Faucet, 8" Center Set, 4" Wristblade Handles (Chicago Faucet 1100-GN2AE3-317CP).....	291.35	48.19
22 42 39 00-0016	EA		Deck Mount Gooseneck Sink Faucet, 4" Center Set, Blade Handles (Chicago Faucet 802-317CP).....	220.13	48.19
22 42 39 00-0017	EA		Chrome Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041CR).....	493.87	44.38
22 42 39 00-0018	EA		Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041NK).....	622.31	44.38
22 42 39 00-0019	EA		Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray (Elkay LKGT1041RB).....	665.12	44.38
22 42 39 00-0020	EA		Chrome Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041CR).....	493.87	44.38
22 42 39 00-0021	EA		Brushed Nickel Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041NK).....	622.31	44.38
22 42 39 00-0022	EA		Oil Rubbed Bronze Single Handle Kitchen Faucet With Integrated Spray, 1.5 GPM Aerator (Elkay LKLFGT1041RB).....	665.12	44.38
22 42 39 00-0023			Lavatory Faucets (22 42 39)		
22 42 39 00-0024	EA		Single Handle Centerset Lavatory Faucet, Polished Chrome Finish (Delta Lahara 538-MPU-DST).....	185.85	31.95
22 42 39 00-0025	EA		4" Centerset Lavatory Faucet With Chrome Lever Handle (Delta 501LF-WF).....	131.17	31.95
22 42 39 00-0026	EA		4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2523LF-MPU).....	161.09	31.95
22 42 39 00-0027	EA		4" Centerset Lavatory Faucet With Chrome Lever Handles (Delta 2529LF-HDM).....	176.00	31.95
22 42 39 00-0028	EA		Classic Style Widespread Lavatory Faucet With Chrome Lever Handles (Delta 3530LF-MPU).....	214.52	31.95
22 42 39 00-0029	EA		Widespread Lavatory Gooseneck Faucet With Chrome Lever Handles (Delta 3579LF-WFHDF).....	248.74	31.95
22 42 39 00-0030	EA		Self Closing/Metered Faucet, Brass, Single Hole, Push Handle (Delta 86T104).....	154.65	31.95
22 42 39 00-0031	EA		Self Closing/Metered Faucet, Double Hole, Push Handles (American Standard 1340.225.002).....	231.67	31.95
22 42 39 00-0032	EA		Single Inlet, Push Handle Metering Faucet, ADA (Chicago Faucet 333-665).....	168.96	31.95
22 42 39 00-0033	EA		3" Reach, 4-Arm Handle Single Basin Faucet (T&S Brass 0710).....	172.71	31.95
22 42 39 00-0034	EA		3" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0712).....	207.07	31.95
22 42 39 00-0035	EA		4" Reach, Push Handle Self-Closing Valve, Single Basin Metering Faucet (T&S Brass 0805).....	203.01	31.95
22 42 39 00-0036	EA		4" Classic Style Centerset Lavatory Faucet With Chrome Lever Handles (Zurn Z81104).....	167.16	31.95
22 42 39 00-0037			Bath And Shower Faucets (22 42 39)		
22 42 39 00-0038			Bath And Shower Faucets With Valve Body (22 42 39 00-0037)		
22 42 39 00-0039	EA		Single Lever Handle Chrome Tub Filler, Pressure-Balance (American Standard T480 500).....	174.15	38.52
22 42 39 00-0040	EA		Single Lever Handle, Chrome Shower Only, Pressure-Balance (American Standard T480.501).....	202.36	38.52
22 42 39 00-0041	EA		Single Lever Handle, Chrome Shower And Tub Filler, Pressure-Balance (American Standard T480.502).....	220.45	38.52
22 42 39 00-0042	EA		Two Lever Handle, Chrome Tub Filler (American Standard Colony Soft 3275.505).....	161.85	38.52
			<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0043	EA		Two Lever Handle, Chrome Shower Only (American Standard Colony Soft 3275.501).....	169.09	38.52
			<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0044	EA		Two Lever Handle, Chrome Shower And Tub Filler (American Standard Colony Soft 3275.502).....	190.07	38.52
			<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0045	EA		Three Lever Handle, Chrome Shower And Tub Filler (American Standard Colony Soft 3375.502).....	213.94	38.52
			<i>For Faucet With Metal Cross Handles, Add</i>	45.75	
22 42 39 00-0046			Shower Valves And Trim (22 42 39)		
			See CSI section 22 41 39 00-0011 for residential shower valves and heads.		
22 42 39 00-0047	EA		Removable Hand Held Shower With Hose Wall Hook And Inline Vacuum Breaker (Powers 141-318 with 141-319).....	288.43	59.91
22 42 39 00-0048	EA		Concealed Thermostatic/Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 2502-600CP).....	619.52	59.91
22 42 39 00-0049	EA		Concealed Pressure Balancing Control Valve With Chrome Plated Shower Head (Chicago Faucet 1762-ISCP).....	437.13	59.91
22 42 39 00-0050	EA		Senior Institutional Shower Head (Symmons® 4-150).....	169.63	38.52
22 42 39 00-0051	EA		Universal Institutional Shower Head (Symmons® 4-151).....	277.34	38.52
22 42 39 00-0052	EA		Fre-Flo Institutional Shower Head (Symmons® 4-295).....	197.99	38.52
22 42 39 00-0053	EA		Fre-Flo Institutional Shower Head With Short Arm (Symmons® 4-385).....	151.55	38.52
22 42 39 00-0054	EA		Wall Mounted Shower Valve And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-300-B30-V-X).....	617.29	57.69
22 42 39 00-0055	EA		Wall Mounted Shower Valve, Tub Faucet, And Slide Bar, Single Lever Concealed Mixer (Symmons® 96-400-B30-V-X).....	512.51	66.57
22 42 39 00-0056	EA		Wall Mounted Shower Valve, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-500-B30-V-X).....	669.70	66.57
22 42 39 00-0057	EA		Wall Mounted Shower Valve, Tub Faucet, Slide Bar And Head, Single Lever Concealed Mixer (Symmons® 96-600-B30-V-X).....	935.82	71.00
22 42 39 00-0058	EA		Stainless Steel Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-801S/1-802S).....	850.72	59.91
			<i>For Hand Spray, Hose And Wall Hooks, Add</i>	106.44	
			<i>For Recessed Soap Dish, Add</i>	108.12	
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	165.51	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0059	EA		Stainless Steel Corner Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Soap Dish, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-807).....	1,007.69	59.91
			<i>For Hand Spray, Hose And Wall Hooks, Add</i>	106.44	
			<i>For Recessed Soap Dish, Add</i>	108.12	
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	165.51	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0060	EA		Stainless Steel Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S).....	692.48	59.91
			<i>For Hand Spray, Hose And Wall Hooks, Add</i>	19.32	
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	78.39	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0061	EA		Stainless Steel Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-911RS).....	1,035.28	59.91
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0062	EA		Stainless Steel Double Outlet Institutional Shower System With Thru-Ceiling Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-902S-FS).....	1,109.18	59.91
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0063	EA		Stainless Steel Institutional Triple Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-931).....	2,029.55	59.91
			<i>For Recessed Soap Dish, Add</i>	83.94	
			<i>For Pressure Balance And Metering Combination, Add</i>	227.79	
22 42 39 00-0064	EA		Stainless Steel Institutional Double Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Heads, Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-921).....	1,775.40	59.91
			<i>For Recessed Soap Dish, Add</i>	83.94	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0065	EA		Stainless Steel Tub And Shower System With Thru-Wall Exposed Piping Covering, Adjustable Shower Head, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-941-231).....	901.06	59.91
22 42 39 00-0066	EA		Stainless Steel Double Outlet Institutional Shower System With Flat Wall Recessed Piping Covering, Vandal Resistant Adjustable Shower Head, Hand Spray, Hose, Wall Hooks, Soap Dish And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-912RS-FS).....	1,372.55	59.91
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
			<i>For Pressure Balance And Metering Combination, Add</i>	291.63	
22 42 39 00-0067	EA		Stainless Steel Single Supply Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-60).....	899.87	59.91
22 42 39 00-0068	EA		Stainless Steel Single Supply Single Outlet Institutional Shower System With Thru-Wall Exposed Piping Covering, Vandal Resistant Adjustable Shower Head, Soap Dish, Sloped Metal Top Cap And Thermostatic/Pressure Balancing Control Valve (Symmons® Hydapipe® 1-901S-22-FS).....	897.27	59.91
			<i>For Hand Spray, Hose And 30" Slide Bar, Add</i>	59.07	
22 42 39 00-0069	EA		Single Lever Handle, Chrome, Pressure-Balance, Shower System (Symmons SafetyMix 1-100-X-3/4).....	660.91	53.25
22 42 39 00-0070	EA		Single Lever Handle, Chrome, Pressure-Balance, Shower Valve (Symmons SafetyMix 4-500).....	509.11	38.52
22 42 39 00-0071			Service Sink Faucets (22 42 39)		
22 42 39 00-0072	EA		4-5/8" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet, Lever Handles (Kohler® Kinlock™).....	373.10	73.89
22 42 39 00-0073	EA		3" Spout, Wall Mount Service Sink Faucet, Lever Handles (American Standard 8340.235).....	272.26	73.89
22 42 39 00-0074	EA		3" Spout With Vacuum Breaker, Wall Mount Service Sink Faucet, Lever Handles (American Standard 8340.243).....	291.79	73.89
22 42 39 00-0075	EA		6" Spout With Vacuum Breaker And Top Brace, Wall Mount Service Sink Faucet, Lever Handles (American Standard 8344.012).....	301.92	73.89
22 42 39 00-0076	EA		7-1/4" Spout With Bottom Fork Brace, Wall Mount Service Sink Faucet, Stops In Integral Arm, Wrist Blade Handles (American Standard 8355.101).....	396.21	103.58
22 42 39 00-0077	EA		7-1/4" Spout With Vacuum Break And Bottom Fork Brace, Wall Mount Service Sink Faucet, Stops In Integral Arm, Wrist Blade Handles (American Standard 8355.110).....	444.43	118.05
22 42 39 00-0078	EA		11" Spout With Bottom Fork Brace, Wall Mount Service Sink Faucet, Stops In Integral Arm, Wrist Blade Handles (American Standard 8345.115).....	508.09	118.05
22 42 39 00-0079	EA		Wall Mount Service Sink Faucet With Atmospheric Vacuum Breaker Spout, Lever Handles (Chicago Faucet 305-VBRCF).....	299.78	73.89
22 42 39 00-0080	EA		44" Flexible Stainless Steel Hose With Insulated Handle, 23" Riser, Pre-Rinse Faucet (Chicago Faucet 923-KXCAB).....	604.15	118.05
22 42 39 00-0081			Laboratory Faucets And Fittings (22 42 39)		
22 42 39 00-0082	EA		Cold Faucet, Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 927).....	151.78	31.42
22 42 39 00-0083	EA		Hot And Cold Faucet, Single Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 929).....	246.63	44.38
22 42 39 00-0084	EA		Hot And Cold Faucet With Vacuum Breaker, Single Deck Mount Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 930).....	316.23	44.38
22 42 39 00-0085	EA		Cold Wall Mount, Gooseneck Spout With Aerator, Laboratory Faucet (Chicago Faucet 933).....	198.13	41.45
22 42 39 00-0086	EA		Hot And Cold Wall Mount, 6" Spout With Aerator, Laboratory Faucet (Chicago Faucet 940).....	270.00	59.11
22 42 39 00-0087	EA		Hot And Cold Wall Mount, 6" Spout With Aerator And Vacuum Breaker, Laboratory Faucet (Chicago Faucet 940-VBE7-CP).....	360.76	59.11
22 42 39 00-0088	EA		Hot And Cold Faucet, Dual Deck Mount, Gooseneck Spout With Serrated Nozzle Outlet, Laboratory Faucet (Chicago Faucet 946).....	287.82	44.38
22 42 39 00-0089	EA		Hot And Cold Wall Mount, Gooseneck Spout With Aerator Laboratory Faucet (Chicago Faucet 942).....	286.49	59.11
22 42 39 00-0090	EA		Single Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 350-CP).....	186.42	34.12
22 42 39 00-0091	EA		Dual Control, Single Hole Deck Mount Sink Faucet (Chicago Faucet 50-CP).....	262.70	48.19
22 42 39 00-0092	EA		Deck Mount Lavatory Faucet, 4" Center Set, Lever Handles (Chicago Faucet 802).....	205.18	48.19
22 42 39 00-0093	EA		Deck Mount Gooseneck Sink Faucet, 4" Center Set, Blade Handles (Chicago Faucet 895-317CP).....	247.87	48.19
22 42 39 00-0094	EA		Gas Ball Valve, Removable Nozzle, With Index Button (Chicago Faucet 909-AGVCP).....	68.97	29.64
22 42 39 00-0095	EA		Dual Service Lab Fitting, Two Gas And One Water Outlet (Chicago Faucet 1332-CP).....	396.47	53.25
22 42 39 00-0096	EA		Dual Service Lab Fitting With Wristblade Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-317CP).....	506.12	53.25
22 42 39 00-0097	EA		Dual Service Lab Fitting With Metal Cross Handle, Inline Vacuum Breaker, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7-204CP).....	606.02	53.25
22 42 39 00-0098	EA		Dual Service Lab Fitting With Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7CP).....	537.42	53.25
22 42 39 00-0099	EA		Dual Service Lab Fitting With Chemical Resistant Coating And Plastic Cross Handle, Two Gas And One Water Outlet (Chicago Faucet 1332-E22E7SAM).....	637.45	53.25
22 42 39 00-0100	EA		Single, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-131WSA).....	104.65	29.29
22 42 39 00-0101	EA		90 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132AWSA).....	144.26	35.14
22 42 39 00-0102	EA		180 Degree Double, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-132SWSA).....	144.26	35.14
22 42 39 00-0103	EA		Three Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-133WSA).....	183.89	41.01
22 42 39 00-0104	EA		Four Way, Deck Mounted Laboratory Ball Valve Assembly (Watersaver L4100-134WSA).....	223.50	46.87



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 39 00-0105			Gooseneck Faucets With Independent Eyewash <small>(22 42 39)</small>		
	EA		Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA).....	681.44	33.28
	EA		Single Lever Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-SL)	738.33	31.07
	EA		8" Stem, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8)	952.58	33.28
	EA		Serrated Tip With Vacuum Breaker, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-ST).....	1,005.95	33.28
	EA		Thermostatic Mixing Valve Kit For The SEF-1800 (Speakman SEF-TW).....	1,220.55	22.19
	EA		Foot Pedal Activation, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-FP)	1,473.44	55.47
	EA		Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-TW)	2,055.70	55.47
	EA		8" Stem, Thermostatic Mixing Valve Kit, Two Handle Widespread Valves, Gooseneck Faucet With Independent Eyewash (Speakman SEF-1800-CA-8TW).....	2,123.63	55.47
	EA		Adjustable Aerated Outlet Heads, Gooseneck Faucet Mounted Eyewash (WaterSaver EW101).....	194.49	33.73
	EA		Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW200).....	212.00	33.73
	EA		Gooseneck Faucet Mounted Eyewash With Faucet Control Valve (WaterSaver EW201).....	227.29	33.73
	EA		6 Gallon Capacity, Tempering Valve (WaterSaver AP3600).....	925.78	22.19
22 42 39 00-0118			Bubblers And Glass Fillers <small>(22 42 39)</small>		
	EA		Self-Closing Bubbler Faucet, Metering Handle (Chicago Faucet 748-665CP).....	261.74	31.42
	EA		Wall Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 313-CP).....	236.64	41.45
	EA		7" Overall Outlet Height, Deck Mount Glass Filler, 1/2" Flanged Female Inlet (Chicago Faucet 709-CP)	258.27	31.42
	EA		Wall Mount, Push Button Single Glass Filler (Chicago Faucet 324-CP)	165.99	45.01
	EA		Deck Mount, Lever Handle Drinking Faucet (Haws 5054LF)	305.70	34.12
	EA		Push Button Bubbler, 1/2" OD (Haws 5017LF).....	309.68	34.12
	EA		Push Button Bubbler, 3/8" NPT (Haws 5010-6427)	259.41	34.12
22 42 39 00-0126			Electronic Infrared Sensor Faucets <small>(22 42 39)</small>		
	EA		Electronic Lavatory Faucet (American Standard 6055.205.002).....	482.76	74.02
			<i>For Faucet With Temperature Control, Add</i>	40.00	
	EA		Electronic Lavatory Gooseneck Faucet (American Standard 6055.105.002).....	487.10	74.02
			<i>For Faucet With Temperature Control, Add</i>	40.00	
	EA		Electronic Gooseneck Faucet (Chicago Faucet 116.103.AB.1).....	648.26	80.39
	EA		Electronic Lavatory Faucet (Chicago Faucet 116.112.AB.1).....	673.17	74.02
	EA		Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880).....	991.96	80.39
	EA		Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-30880-BDT).....	1,236.53	80.39
	EA		Electronic Soap Dispenser And Faucet Combination (Sloan Optima ESD-35187).....	1,156.33	80.39
	EA		Solar Powered, Electronic Lavatory Faucet With Integral Mixing Valve (Sloan Solis EAF-275-ISM).....	811.81	74.02
	EA		Deck Mount, AC Power, Electronic Lavatory Faucet (T&S Brass EC1100).....	630.31	74.02
	EA		Wall Mount, AC Power, Electronic Lavatory Faucet (T&S Brass EC1101).....	664.18	74.02
	EA		Electronic Lavatory Faucet, Spout Version, AC Power, Deck Mount (T&S Brass EC1102).....	579.50	74.02
	EA		Deck Mount, DC Power, Electronic Lavatory Faucet (T&S Brass EC2100).....	664.18	74.02
	EA		Electronic Lavatory Faucet, Spout Version, DC Power, Deck Mount (T&S Brass EC2102).....	584.22	74.02
	EA		Deck Mount, AC Power, Electronic Lavatory Gooseneck Faucet (T&S Brass EC3100).....	584.22	74.02
	EA		Wall Mount, AC Power, Electronic Lavatory Gooseneck Faucet (T&S Brass EC3101).....	653.86	74.02
	EA		Electronic Lavatory Faucet, Spout Version, AC Power, Deck Mount (T&S Brass EC3102).....	559.27	74.02
	EA		Electronic Lavatory Faucet, Spout Version, AC Power, 4" Deck Mount (T&S Brass EC3103).....	537.91	74.02
	EA		Self-Generating EcoPower System, Single Supply Sensor Faucet, Standard Spout (Toto "Eco-Power" TEL3GKCN-60).....	968.14	74.02
22 42 39 00-0145			Singles <small>(22 42 39)</small>		
	EA		Stainless Steel Single Deck Faucet With 6" Swivel/Rigid Gooseneck Spout And Lever Handles (Fisher 58130).....	187.29	32.58
22 42 39 00-0147			Other Trim <small>(22 42 39)</small>		
	EA		Faucet Aerator, Male Thread 13/16" Male, 2 GPM (Delta RP330).....	15.01	4.82
	EA		1-1/2" Pop-up Tailpiece (Chicago Faucet 226-ACP).....	87.17	14.46
	EA		1-1/4" Grid Strainer Tailpiece (Chicago Faucet 327-XCP).....	40.19	12.05
	EA		1-1/2" Grid Strainer Tailpiece (Chicago Faucet 327-X1-1/2TPCP).....	84.94	12.05
	EA		Lavatory Drainline Guard And Shutoff Covers (IPS Truebro Lav Guard 102).....	59.47	13.31
	EA		Soft Lavatory Drainline Guard And Shutoff Covers (IPS Truebro Soft-Guard Plus).....	62.39	13.31
	EA		Lavatory Protective Enclosure (IPS Truebro Lav Shield).....	161.15	13.31
	EA		36" Wide, Undersink Protective Enclosure (IPS Truebro Basin Guard).....	198.89	13.31
	EA		42" Wide, Undersink Protective Enclosure (IPS Truebro Basin Guard).....	226.30	13.31
	EA		1/2" NPT x 3/8" Compression Chrome, Quarter Turn Angle Stop (SharkBite 23036).....	29.80	9.32
	EA		1/2" NPT x 3/8" Compression Chrome, Quarter Turn Straight Stop (SharkBite 23037).....	29.80	9.32
	EA		1/2" NPT x 3/8" Compression Chrome, Quarter Turn Dual Angle Stop (SharkBite 25558).....	39.97	9.32
	EA		16" Long, 3/8" OD x 1/2" IPS, Stainless Steel Braided Sink Supply Line (Pair).....	28.74	10.24
	EA		12" Long, 3/8" OD x 7/8" BC, Stainless Steel Braided Toilet Supply Line.....	17.77	6.02
	EA		12" Long, 1/2" OD x 7/8" BC, Stainless Steel Braided Toilet Supply Line.....	18.23	6.02
22 42 39 00-0163			Removal And Reinstallation Of Fixtures And Trim <small>(22 42 39)</small>		
			Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
	EA		Removal And Reinstallation Of Faucet.....	77.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 42 43 Flushometers (22 42)

22 42 43 00-0001 Water Closet Flush Valves (22 42 43)

22 42 43 00-0002	EA	Exposed Manual Water Closet Flush Valve (Sloan Regal-115XL).....	205.74	30.26
22 42 43 00-0003	EA	Exposed Manual Water Closet Flush Valve (Sloan Regal-113-1.6).....	199.86	30.26
22 42 43 00-0004	EA	Exposed Manual Water Closet Flush Valve (Sloan Regal-110 Or 111).....	229.73	30.26
22 42 43 00-0005	EA	Concealed Manual Water Closet Flush Valve, Back Spud (Sloan Royal-140).....	316.32	30.26
22 42 43 00-0006	EA	Concealed Manual Water Closet Flush Valve, Top Spud (Sloan Royal-142).....	349.99	30.26
22 42 43 00-0007	EA	Exposed Infrared Water Closet Flush Valve (Sloan Royal 115-1.6 ES-S).....	626.39	30.26
22 42 43 00-0008	EA	Concealed Infrared Water Closet Flush Valve, Back Spud (Sloan Royal-140 ES-S).....	631.41	30.26
22 42 43 00-0009	EA	Concealed Infrared Water Closet Flush Valve, Top Spud (Sloan Royal-153-1.6-ES-S).....	665.37	30.26
22 42 43 00-0010	EA	Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8113).....	619.78	30.26
22 42 43 00-0011	EA	Dual Flush Water Closet Flush Valve (Sloan Uppercut WES-115)..... Note: "Green". 1.6 Gallons or 1.1 Gallons per flush. Includes instructional placards on proper operation.	281.98	30.26
22 42 43 00-0012	EA	Exposed Battery Powered Water Closet Flush Valve (Sloan G2 Optima Plus 8110).....	553.95	30.26
22 42 43 00-0013	EA	Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima EBV-89AM).....	308.73	30.26
22 42 43 00-0014	EA	Side Mount Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts 40118X).....	272.33	30.26
22 42 43 00-0015	EA	Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan Optima Smooth EBV-200A).....	270.39	26.62
22 42 43 00-0016	EA	Slide Over Handle Battery Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Technical Concepts 40180X).....	293.27	26.62
22 42 43 00-0017	EA	Exposed Infrared Water Closet Flush Valve 1.28 GPF (Toto EcoPower TET1LN).....	635.18	30.26
22 42 43 00-0018	EA	Exposed Infrared Water Closet Flush Valve (1-1/2" V.B.) 1.28 GPF (Toto EcoPower TET1LN32).....	694.36	30.26
22 42 43 00-0019	EA	Concealed Infrared Water Closet Flush Valve, Back Spud 1.28 GPF (Toto EcoPower TET2LN31 Or TET3LN31).....	882.96	30.26
22 42 43 00-0020	EA	Concealed Infrared Water Closet Flush Valve, Top Spud 1.28 GPF (Toto EcoPower TET2LN32 Or TET3LN32).....	882.96	30.26
22 42 43 00-0021	EA	Exposed Infrared Water Closet Flush Valve (Zurn ZEMS6000AV-HET-IS).....	576.47	30.26
22 42 43 00-0022	EA	Exposed Infrared Water Closet Flush Valve (Zurn ZTS6200EV).....	571.46	30.26
22 42 43 00-0023	EA	Slide Over Handle AC Powered Water Closet/Urinal Automatic Flush Retrofit Converters (Sloan EL-600-A).....	283.29	26.62
22 42 43 00-0024	EA	6 Volt DC, 120 Volt AC Hardwired Power Transformer (Sloan EL-451).....	85.49	3.96
22 42 43 00-0025	EA	Exposed Solar/Battery Powered Water Closet Flush Valve (Sloan Solis 8111-1.28).....	541.69	30.26
22 42 43 00-0026	EA	Exposed Manual Water Closet Flush Valve (Zurn Z6000AV-HET).....	220.40	30.26
22 42 43 00-0027	EA	Exposed Battery Powered Water Closet Flush Valve (Zurn ZER6000AV-HET).....	591.12	30.26

22 42 43 00-0028 Urinal Flush Valves (22 42 43)

22 42 43 00-0029	EA	Exposed Manual Urinal Flush Valve, 3/4" Top Spud (Sloan Regal 186 XL)..... Note: 0.5, 1.0 or 1.5 GPF.	192.73	30.26
22 42 43 00-0030	EA	Exposed Manual Urinal Flush Valve, 1-1/4" Top Spud (Sloan Regal 180)..... Note: 1.0, 1.5 or 3.5 GPF.	207.06	30.26
22 42 43 00-0031	EA	Concealed Manual Urinal Flush Valve, Back Spud (Sloan Royal 195)..... Note: 1.0 or 1.5 GPF.	275.55	30.26
22 42 43 00-0032	EA	Concealed Manual Urinal Flush Valve, Top Spud (Sloan Royal 197)..... Note: 1.0 or 1.5 GPF.	331.97	30.26
22 42 43 00-0033	EA	Exposed Infrared Urinal Flush Valve (Sloan Royal 186-ES-S)..... Note: 1.0 or 1.5 GPF.	517.96	30.26
22 42 43 00-0034	EA	Concealed Infrared Urinal Flush Valve, Back Spud (Sloan Royal 195-WB-ES-S)..... Note: 0.5, 1.0 or 1.5 GPF.	693.54	30.26
22 42 43 00-0035	EA	Concealed Infrared Urinal Flush Valve, Top Spud (Sloan Royal 197-WB-ES-S)..... Note: 0.5, 1.0 or 1.5 GPF.	777.16	30.26
22 42 43 00-0036	EA	Exposed Battery Powered Urinal Flush Valve, Top Spud (Sloan G2 Opt+8186-1)..... Note: 1.0 GPF.	509.57	30.26
22 42 43 00-0037	EA	Exposed Infrared Urinal Flush Valve (3/4" V.B.) (Toto EcoPower TEU1LN12)..... Note: 0.5 GPF.	690.55	30.26
22 42 43 00-0038	EA	Exposed Solar/Battery Powered Urinal Flush Valve, Top Spud (Sloan Solis 8186-0.13)..... Note: 0.13 GPF.	497.31	30.26
22 42 43 00-0039	EA	Exposed Manual Urinal Flush Valve, 3/4" Top Spud (Zurn Z6003AV-ULF)..... Note: 0.125 GPF.	219.63	30.26
22 42 43 00-0040	EA	Exposed Battery Powered Urinal Flush Valve, Top Spud (Zurn ZTR6203-ULF)..... Note: 0.125 GPF.	548.98	30.26
22 42 43 00-0041	EA	Exposed Infrared Urinal Flush Valve (Zurn ZEMS6003AV-ULF-IS)..... Note: 0.125 GPF.	555.95	30.26

22 42 43 00-0042 Removal And Reinstallation Of Fixtures And Trim (22 42 43)

22 42 43 00-0043	EA	Removal And Reinstallation Of Flush Valve..... Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.	120.48	
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22 42 43 00-0044 Plumbing Control Transformers (22 42 43)

22 42 43 00-0045	EA	6 Volt DC, 120 Volt AC Plug In Style Power Transformer (Zurn P6000-PC6).....	40.70	
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22 42 46 Chemical Toilets (22 42)

Note: Includes toilet, urinal, holding tank, and ventilation system. Building to be priced separately.

22 42 46 00-0001 Standard Chemical Toilets (22 42 46)

22 42 46 00-0002 Small Tank Chemical Toilets (22 42 46 00-0001)

22 42 46 00-0003	EA	Chemical Toilet, Small Tank 7,000 Uses/Year..... For Extra Urinal, Add	3,708.28 122.31	887.56
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22 Plumbing**22 40 Plumbing Fixtures****22 42 Commercial Plumbing Fixtures**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 42 46 00-0004		Medium Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0005	EA	Chemical Toilet, Medium Tank 13,000 Uses/Year <i>For Extra Urinal, Add</i>	4,405.60 144.71	1,057.09
22 42 46 00-0006		Large Tank Chemical Toilets (22 42 46 00-0001)		
22 42 46 00-0007	EA	Chemical Toilet, Large Tank 28,000 Uses/Year <i>For Extra Urinal, Add</i>	5,361.43 200.67	1,199.09
22 43		Healthcare Plumbing Fixtures (22 40)		
22 43 13		Healthcare Water Closets (22 43)		
22 43 13 00-0001		Healthcare Water Closets (22 43 13)		
22 43 13 00-0002	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Wall Outlet, Handicap Accessible, Elongated Vitreous China Healthcare Water Closet With Bedpan Holding Rim (American Standard Priolo® ADA)	755.99	92.30
22 43 13 00-0003	EA	Flush Valve Type, Siphon Jet, Floor Mounted, Floor Outlet, Handicap Accessible, Elongated Vitreous China Healthcare Water Closet With Bedpan Holding Rim (American Standard Madera™ ADA)	589.97	92.30
22 43 16		Healthcare Sinks (22 43)		
22 43 16 00-0001		Healthcare Sinks (22 43 16) Note: Includes trap, drain and supply valves. Excludes faucets and flush valves.		
22 43 16 00-0002	EA	25" x 21", Wall Mounted, Blow Out Flushing Rim, Vitreous China Clinic Service Sink (American Standard) <i>For Stainless Steel Rim Guards (Three Sides), Add</i>	1,172.75 111.02	59.46
22 43 16 00-0003	EA	29" x 20", Floor Mounted, Siphon Jet Flushing Rim, Vitreous China Clinic Service Sink (American Standard) <i>For Stainless Steel Rim Guards (Three Sides), Add</i> <i>For Pedestal Base, Add</i>	1,247.03 111.02 509.00	170.86
22 43 16 00-0004	EA	28" x 22", Wall Mounted, Vitreous China Surgeon's Scrub Sink (American Standard) <i>For Painted Bracket Supports, Add</i>	1,123.88 174.49	59.46
22 43 16 00-0005	EA	20" x 17", Wall Mounted, Vitreous China Intensive Care Unit Sink (American Standard)	977.25	59.46
22 43 39		Healthcare Faucets (22 43)		
22 43 39 00-0001		Medical Faucet Spouts (22 43 39)		
22 43 39 00-0002	EA	Deck Mounted, Rigid Gooseneck Medical Lavatory Spout (American Standard 7522)	97.40	13.31
22 43 39 00-0003		Electronic Proximity Medical Faucets (22 43 39)		
22 43 39 00-0004	EA	DC Or Plug-In AC Powered, Single Inlet, Electronic Proximity Medical Lavatory Faucet (American Standard) Seleetric™ ICU <i>For Hard Wired AC Powered, Add</i>	567.12 25.28	65.15
22 43 39 00-0005		Foot And Knee Faucet Controls (22 43 39)		
22 43 39 00-0006	EA	Single Supply Metering Pedal Valve (Chicago Faucet 628)	319.75	118.40
22 43 39 00-0007	EA	Double Supply Metering Pedal Valve (Chicago Faucet 625)	369.66	118.40
22 43 39 00-0008	EA	Knee Actuated Metering Mixing Valve (Chicago Faucet 745-VOCP)	754.38	118.40
22 43 39 00-0009	EA	Double Knee Actuated Metering Mixing Valve (American Standard 7676)	646.28	118.40
22 43 39 00-0010		Centerset Medical Faucets (22 43 39)		
22 43 39 00-0011	EA	Rigid Gooseneck Centerset Medical Lavatory Faucet, 8" Centers 6" Wrist Action Handles, Adjustable Centers (T&S B-0865-04)	411.85	65.15
22 43 39 00-0012	EA	Swivel Gooseneck Centerset Medical Lavatory Faucet, 8" Centers, 6" Wrist Action Handles, Adjustable Centers (T&S B-0866-04)	416.37	65.15
22 43 39 00-0013	EA	Swivel Gooseneck Centerset Medical Lavatory Faucet With Aerator 8" Centers, 6" Wrist Action Handles, Adjustable Centers (T&S B-0867-04)	415.91	65.15
22 43 39 00-0014	EA	Surgical Sink Rigid Gooseneck Faucets, 8" Centers, 6" Wrist Action Handles (T&S B-0322-04)	372.97	65.15
22 43 39 00-0015	EA	Surgical Sink Rigid Gooseneck Faucets With Stream Regulator Outlet, 8" Centers, 6" Wrist Action Handles (T&S B-0323-04)	357.60	65.15
22 43 39 00-0016		Bedpan Washers (22 43 39)		
22 43 39 00-0017	EA	Self Closing Pedal Valve Bed Pan Washer, With Volume Control, Vacuum Breaker, Wall Hook Hose Connection, Polyvinyl Chloride Hose (T&S B-0675)	969.38	118.40
22 43 39 00-0018	EA	Pedal Valve Bed Panwasher With Volume Control Valve, Vacuum Breaker, Wall Hook Hose Connection, Extended Spray Polyvinyl Chloride Hose (T&S B-0676)	922.05	118.40
22 43 39 00-0019	EA	Self Closing Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection Polyvinyl Chloride Hose (T&S B-0685)	908.03	118.40
22 43 39 00-0020	EA	Single Pedal Valve Bedpan Washer With Volume Control, Vacuum Breaker, Wall Hook Hose Connection, Polyvinyl Chloride Hose, Extended Spray (T&S B-0686)	894.39	118.40
22 43 43		Healthcare Plumbing Fixture Flushometers (22 43)		
22 43 43 00-0001		Healthcare Plumbing Fixture Flushometers (22 43 43)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 43 43 00-0002 EA Exposed Manual Service Sink Flush Valve (Sloan Royal-117).....	220.86	30.26
22 43 43 00-0003 EA Exposed Manual Water Closet Flush Valve With Bedpan Washer (Sloan Slimline BPW).....	506.07	30.26
22 43 46 Healthcare Patient Care Units (22 43)		
22 43 46 00-0001 Patient Care Units (22 43 46)		
22 43 46 00-0002 EA 47" Swivel Toilet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-1700-AQCT-WB-BWSEV).....	11,563.87	177.51
For SDB Single Temperature Dialysis Box, Add	831.53	
For DDB Dual Temperature Dialysis Box, Add	883.18	
For BWSEV Bedpan Washer With Elevated Valve, Add	680.60	
For LOCK Flush Valve Lockout Device, Add	468.71	
22 43 46 00-0003 EA 31" Swing Front Cabinet Modular Sink And Water Closet Patient Care Unit (Willoughby WH-2600-SST-DC-AQCT-WB).....	9,127.72	155.33
For SDB Single Temperature Dialysis Box, Add	831.53	
For DDB Dual Temperature Dialysis Box, Add	883.18	
For BWSEV Bedpan Washer With Elevated Valve, Add	680.60	
For LOCK Flush Valve Lockout Device, Add	468.71	
22 43 46 00-0004 Patient Care Plumbing Accessories (22 43 46)		
22 43 46 00-0005 EA One Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7920).....	1,097.19	24.10
22 43 46 00-0006 EA Two Valve Supply Recessed Stainless Steel Dialysis Box With Locking Door (Bradley 7919).....	1,207.46	24.10
22 45 Emergency Plumbing Fixtures (22 40)		
22 45 13 Emergency Showers (22 45)		
22 45 13 00-0001 Emergency Drench Showers (22 45 13)		
22 45 13 00-0002 Emergency Drench Showers (Haws) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0003 EA Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122).....	578.08	155.33
22 45 13 00-0004 EA Horizontal Or Vertical Mounted, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8123).....	661.08	155.33
22 45 13 00-0005 EA Horizontal Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8122HWC).....	707.19	155.33
22 45 13 00-0006 EA Horizontal Or Vertical Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8130).....	845.52	155.33
22 45 13 00-0007 EA Horizontal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8133H).....	1,131.41	155.33
22 45 13 00-0008 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead (Haws 8100).....	899.13	177.51
22 45 13 00-0009 EA Wall Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Stainless Steel Push Flag (Haws 8111FP).....	985.01	199.70
22 45 13 00-0010 EA Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8169).....	897.40	199.70
22 45 13 00-0011 EA Concealed Ceiling Supply, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead (Haws 8163).....	915.84	199.70
22 45 13 00-0012 EA Flush To Ceiling, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Pull Down Lever Ball Valve Mounted In A Recessed Stainless Steel Cabinet (Haws 8164).....	1,261.67	199.70
22 45 13 00-0013 Emergency Drench Showers (Speakman) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0014 EA Vertical Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-220).....	497.74	155.33
22 45 13 00-0015 EA Horizontal Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-227).....	511.71	155.33
22 45 13 00-0016 EA Floor Mounted, Lifesaver® Emergency Drench Shower With Plastic Showerhead (Speakman SE-253).....	790.55	177.51
22 45 13 00-0017 Emergency Drench Showers (Guardian) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0018 EA All-Stainless Steel Handicapped Accessible Safety Station With WideArea™ Eye/Face Wash (Guardian GBF1994).....	3,288.08	155.33
22 45 13 00-0019 Emergency Drench Showers (WaterSaver) (22 45 13 00-0001)		
Note: Includes one pull rod.		
22 45 13 00-0020 EA Emergency Shower, Vertically Mounted (WaterSaver ES635).....	565.94	155.33
22 45 13 00-0021 EA Emergency Shower, Horizontally Mounted (WaterSaver ES643).....	577.11	155.33
22 45 13 00-0022 EA All-Stainless Steel, Emergency Shower, Horizontally Mounted (WaterSaver ES691).....	1,123.85	155.33
22 45 13 00-0023 EA Emergency Shower, Recess Mounted (WaterSaver ES629).....	868.82	199.70
22 45 13 00-0024 EA Emergency Shower, Semi-Concealed (WaterSaver ES658).....	1,121.43	199.70
22 45 16 Eyewash Equipment (22 45)		
22 45 16 00-0001 Emergency Eyewash Equipment (22 45 16)		
22 45 16 00-0002 Emergency Eyewash Equipment (Haws) (22 45 16 00-0001)		
22 45 16 00-0003 EA Faucet Mounted, Stainless Steel Emergency Eyewash (Haws Axion® eyePOD® 7620).....	248.65	4.44
22 45 16 00-0004 EA Wall Mounted, Freeze Protected, Emergency Eye Wash With Soft-Flo Heads And Stainless Steel Bowl (Haws 7433FP).....	1,187.89	199.70

22 Plumbing**22 40 Plumbing Fixtures****22 45 Emergency Plumbing Fixtures**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 16 00-0005			Emergency Eyewash Equipment (WaterSaver) (22 45 16 00-0001)		
22 45 16 00-0006	EA		Auto Flow, Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805)	491.05	44.38
22 45 16 00-0007	EA		Auto Flow, Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW805LH)	491.05	44.38
22 45 16 00-0008	EA		Right Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806)	499.51	44.38
22 45 16 00-0009	EA		Left Hand Mounting, Emergency Eye Wash, Deck Mounted (WaterSaver EW806LH)	499.51	44.38
22 45 16 00-0010	EA		Stainless Steel Bowl, Emergency Eye Wash, Deck Mounted (WaterSaver EW822)	654.81	44.38
22 45 16 00-0011	EA		Swing-Down, Auto Flow, Emergency Eye Wash, Wall Mounted (WaterSaver EW848)	742.29	44.38
22 45 16 00-0012	EA		Swing-Down, Auto Flow, Emergency Eye Wash, Deck Mounted (WaterSaver EW849)	742.29	44.38
22 45 16 00-0013	EA		Right Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893)	1,352.46	44.38
22 45 16 00-0014	EA		Left Hand Mounting, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW893LH)	1,352.46	44.38
22 45 16 00-0015	EA		Right Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895)	1,414.02	44.38
22 45 16 00-0016	EA		Left Hand Mounting, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW895LH)	1,414.02	44.38
22 45 16 00-0017	EA		Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Wall Mounted (WaterSaver EW898)	1,737.95	44.38
22 45 16 00-0018	EA		Swing-Down, Auto Flow, All-Stainless Steel, Emergency Eye Wash, Deck Mounted (WaterSaver EW899)	1,737.95	44.38
22 45 16 00-0019	EA		Ball Valve With Flag Handle, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW808)	948.96	155.33
22 45 16 00-0020	EA		Push-Down Valve, Emergency Eye Wash, Recess Deck Mounted (WaterSaver EW810)	937.02	155.33
22 45 16 00-0021	EA		Stainless Steel Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814)	701.68	155.33
22 45 16 00-0022	EA		Stainless Steel Bowl And Cover, Emergency Eye Wash, Wall Mounted (WaterSaver EW814BC)	949.86	155.33
22 45 16 00-0023	EA		Plastic Bowl, Emergency Eye Wash, Wall Mounted (WaterSaver EW814P)	613.07	155.33
22 45 23			Personal Eyewash Equipment (22 45)		
22 45 23 00-0001			Portable Eyewash Equipment (22 45 23)		
22 45 23 00-0002			Portable Eyewash Equipment (Bradley) (22 45 23 00-0001)		
22 45 23 00-0003	EA		Portable (Wall Mounted) Heated Gravity-Fed Emergency Eye/Face Wash (Bradley S19-921H)	1,459.31	13.31
22 45 26			Eye/Face Wash Equipment (22 45)		
22 45 26 00-0001			Emergency Eye/Face Wash Equipment (22 45 26)		
22 45 26 00-0002			Emergency Eye/Face Wash Equipment (Haws) (22 45 26 00-0001)		
22 45 26 00-0003	EA		Unmounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7460)	623.05	110.95
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0004	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly Without Receptor (Haws 7324)	628.80	155.33
22 45 26 00-0005	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7260B-7270B)	614.97	155.33
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0006	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7260BT-7270BT)	669.38	155.33
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0007	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360B-7460B)	674.91	155.33
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0008	EA		Wall Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360BT-7460BT)	740.39	155.33
			Note: Excludes p-trap and tailpiece.		
22 45 26 00-0009	EA		Wall Mounted, Barrier-Free, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7360BTWC)	1,002.30	155.33
22 45 26 00-0010	EA		Wall Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl And Dust Cover (Haws 7778B)	1,878.41	155.33
22 45 26 00-0011	EA		Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 7261-7271)	770.02	177.51
22 45 26 00-0012	EA		Pedestal Mounted, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7361-7461)	876.07	177.51
22 45 26 00-0013	EA		Pedestal Mounted, All Stainless Steel, Corrosion Resistant, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 7777)	1,945.84	177.51
22 45 26 00-0014	EA		Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7611)	517.59	44.38
22 45 26 00-0015	EA		Right Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head Assembly (Haws 7612)	499.15	44.38
22 45 26 00-0016	EA		Left Side Sink Mounted, Swing-Away, Emergency Eye/Face Wash With Stainless Steel Axion® MSR Wash Head Assembly (Haws 7612LH)	522.20	44.38
22 45 26 00-0017	EA		Wall Or Deck Mounted, Barrier-Free, Swing-Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 7610)	655.92	44.38
22 45 26 00-0018	EA		Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet (Haws 7655WCC)	1,605.77	221.89
22 45 26 00-0019	EA		Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet (Haws 7655WCSM)	1,936.62	177.51
22 45 26 00-0020	EA		Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCC)	1,993.10	221.89
22 45 26 00-0021	EA		Surface Wall Mounted, Wheelchair Accessible, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Cabinet And Drain Pan (Haws 7656WCSM)	2,333.17	177.51
22 45 26 00-0022			Emergency Eye/Face Wash Equipment (Speakman) (22 45 26 00-0001)		
22 45 26 00-0023	EA		Wall Mounted, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-495)	555.97	155.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 26 00-0024 EA Floor Mounted, DuraJade™ Finish, Lifesaver® Emergency Eye/Face Wash And Plastic Bowl (Speakman SE-496).....	678.76	177.51
22 45 26 00-0025 Emergency Eye/Face Wash Equipment (WaterSaver) (22 45 26 00-0001)		
22 45 26 00-0026 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl, Wall Mounted (WaterSaver FE724).....	857.42	155.33
22 45 26 00-0027 EA Wide Area, Emergency Eye/Face Wash With Stainless Steel Bowl And Cover, Wall Mounted (WaterSaver FE724BC).....	1,105.61	155.33
22 45 26 00-0028 EA Wide Area, Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE727).....	1,074.06	155.33
22 45 26 00-0029 EA Push-Down Valve, Emergency Eye/Face Wash, Recess Deck Mounted (WaterSaver FE765).....	998.77	155.33
22 45 26 00-0030 EA Auto Flow, Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774).....	515.68	44.38
22 45 26 00-0031 EA Auto Flow, Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE774LH).....	515.68	44.38
22 45 26 00-0032 EA Right Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775).....	500.99	44.38
22 45 26 00-0033 EA Left Hand Mounting, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE775LH).....	500.99	44.38
22 45 26 00-0034 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Wall Mounted (WaterSaver FE778).....	753.33	44.38
22 45 26 00-0035 EA Swing-Down, Auto Flow, Emergency Eye/Face Wash, Deck Mounted (WaterSaver FE779).....	753.33	44.38
22 45 29 Hand-Held Emergency Drench Hoses (22 45)		
22 45 29 00-0001 Hand-Held Emergency Eye/Face/Body Wash With Hose (22 45 29)		
22 45 29 00-0002 Hand-Held Emergency Eye/Face/Body Wash With Hose (Haws) (22 45 29 00-0001)		
22 45 29 00-0003 EA Counter Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 8' Hose (Haws 8904).....	553.61	55.47
22 45 29 00-0004 EA Wall Mounted, Hand-Held Emergency Eye/Face/Body Wash With Axion® MSR Wash Head Assembly And 12' Recoil Hose (Haws 8905).....	636.61	55.47
22 45 29 00-0005 Hand-Held Emergency Eye/Face/Body Wash With Hose (WaterSaver) (22 45 29 00-0001)		
22 45 29 00-0006 EA Emergency Drench Hose Unit, Deck Mounted (WaterSaver EW1020).....	406.93	55.47
22 45 29 00-0007 EA Emergency Drench Hose Unit, Wall Mounted (WaterSaver EW1025).....	377.46	55.47
22 45 29 00-0008 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1014).....	550.88	55.47
22 45 29 00-0009 EA Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1022).....	518.08	55.47
22 45 29 00-0010 EA Emergency Eye Wash Drench Hose Unit, Wall Mounted (WaterSaver EW1026).....	529.82	55.47
22 45 29 00-0011 EA Ball Valve With Flag Handle, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028).....	684.48	55.47
22 45 29 00-0012 EA Ball Valve With Flag Handle And Vacuum Breaker, Emergency Eye Wash Drench Hose Unit, Deck Mounted (WaterSaver EW1028VB).....	787.33	55.47
22 45 29 00-0013 EA Emergency Eye Wash Drench Hose Unit, 45 Degree Panel Mounted (WaterSaver EW1041).....	752.45	55.47
22 45 33 Combination Emergency Fixture Units (22 45)		
22 45 33 00-0001 Emergency Shower With Eye/Face Wash (22 45 33)		
22 45 33 00-0002 Emergency Shower With Eye/Face Wash (Haws) (22 45 33 00-0001)		
22 45 33 00-0003 EA Floor Mounted, All Stainless Steel, Corrosion Resistant, Emergency Drench Shower With Axion® MSR Stainless Steel Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8330).....	3,274.39	288.46
22 45 33 00-0004 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300FP).....	2,223.06	288.46
Note: Includes freeze protection bury valve.		
22 45 33 00-0005 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300-8309).....	1,554.46	288.46
22 45 33 00-0006 EA Floor Mounted, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eyewash With Soft-Flo Heads And Stainless Steel Bowl (Haws 8300).....	2,462.84	288.46
22 45 33 00-0007 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8300CRP-8309CRP).....	1,812.68	288.46
22 45 33 00-0008 EA Floor Mounted, Barrier-Free, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Stainless Steel Bowl (Haws 8309WC).....	1,706.62	288.46
22 45 33 00-0009 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317).....	1,462.24	288.46
22 45 33 00-0010 EA Floor Mounted, Corrosion Resistant, PVC Plastic, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8336).....	2,379.84	288.46
22 45 33 00-0011 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCC).....	2,605.78	288.46
22 45 33 00-0012 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8355WCW).....	2,656.50	288.46
22 45 33 00-0013 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Ceiling Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCC).....	2,965.45	288.46
22 45 33 00-0014 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan, Daylight Drain And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCDD).....	3,145.28	288.46
22 45 33 00-0015 EA Recessed Wall Mounted, Barrier-Free, Pull Down, Emergency Eye/Face Wash With Axion® MSR Wash Head Assembly With Stainless Steel Cabinet And Drain Pan And Wall Mounted Axion® MSR Stainless Steel Showerhead (Haws 8356WCW).....	3,094.56	288.46
22 45 33 00-0016 EA Floor Mounted, 120 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP).....	4,616.21	288.46
22 45 33 00-0017 EA Floor Mounted, 220 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFP.220V).....	4,865.21	288.46

22 Plumbing**22 40 Plumbing Fixtures****22 45 Emergency Plumbing Fixtures**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 45 33 00-0018 EA Floor Mounted, C1D1 Rated, 120 Volt AC Cable Heated, Freeze Protected, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly (Haws 8317CTFPC1D1)	10,260.17	288.46
22 45 33 00-0019 EA Floor Mounted, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320-8325)	1,462.24	288.46
22 45 33 00-0020 EA Floor Mounted, Corrosion Resistant, Emergency Drench Shower With Axion® MSR ABS Plastic Showerhead And Eye/Face Wash With Axion® MSR Wash Head Assembly And Plastic Bowl (Haws 8320CRP)	1,651.29	288.46
22 45 33 00-0021 Emergency Shower With Eye/Face Wash (Speakman) (22 45 33 00-0001)		
22 45 33 00-0022 EA Floor Mounted, Emergency Drench Shower With Plastic Showerhead And Eye/Face Wash With Plastic Bowl (Speakman SE-690)	1,292.70	288.46
22 45 33 00-0023 Emergency Shower With Eye/Face Wash (WaterSaver) (22 45 33 00-0001)		
22 45 33 00-0024 EA All-Stainless Steel, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS994)	3,555.48	240.96
22 45 33 00-0025 EA Polished Chrome Construction, Wide Area, Emergency Shower With Eye/Face Wash Station, Floor Mounted (WaterSaver SS909PCC)	3,630.28	240.96
22 45 33 00-0026 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl, Floor Mounted (WaterSaver SS902)	1,522.31	240.96
22 45 33 00-0027 EA Emergency Shower With Eye Wash Station And Plastic Bowl, Floor Mounted (WaterSaver SS902P)	1,405.95	240.96
22 45 33 00-0028 EA Emergency Shower With Eye Wash Station And Stainless Steel Bowl And Cover, Floor Mounted (WaterSaver SS902BC)	1,770.50	240.96
22 45 36 Emergency Fixture Water-Tempering Equipment (22 45)		
22 45 36 00-0001 Emergency Fixture Water-Tempering Equipment (22 45 36)		
22 45 36 00-0002 Emergency Fixture Water-Tempering Equipment (Haws) (22 45 36 00-0001)		
22 45 36 00-0003 EA 10 GPM, 1/2" Inlet, 1/2" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EW)	585.89	55.47
22 45 36 00-0004 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201EFE)	857.94	55.47
22 45 36 00-0005 EA 31 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9201E)	1,259.11	55.47
22 45 36 00-0006 EA 78 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Brass Thermostatic Mixing/Tempering Valve (Haws 9202E)	1,485.05	55.47
22 45 36 00-0007 EA 31 GPM, 1" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws 9201H)	2,102.93	55.47
22 45 36 00-0008 EA 12 GPM, 1/2" Inlet, 3/4" Outlet, Secondary High Temperature Limit Valve, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.EWE)	2,218.21	55.47
22 45 36 00-0009 EA 74 GPM, 1-1/4" Inlet, 1-1/4" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.SHE)	3,726.03	55.47
22 45 36 00-0010 EA 78 GPM, 2" Inlet, 2" Outlet, Secondary High Temperature Limit Valve, Lead Free, Brass Thermostatic Mixing/Tempering Valve (Haws TWBS.HF)	4,477.64	55.47
22 45 36 00-0011 EA 1/2" Inlet, 1/2" Outlet, Brass Scald Protection Bleed Valve (Haws SP157B)	655.06	55.47
22 45 39 Emergency Plumbing Fixture Accessories (22 45)		
22 45 39 00-0001 Emergency Plumbing Fixture Accessories (22 45 39)		
22 45 39 00-0002 Emergency Plumbing Fixture Accessories (Haws) (22 45 39 00-0001)		
22 45 39 00-0003 EA Pedestal Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220)	150.79	17.75
22 45 39 00-0004 EA Wall Mounted, Powder Coated Aluminum Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220W)	210.73	17.75
22 45 39 00-0005 EA Pedestal Mounted, Stainless Steel Foot Control Assembly For Hands Free Activation Of Emergency Plumbing Fixtures (Haws SP220SS)	219.95	17.75
22 45 39 00-0006 EA Axion® MSR Stainless Steel Showerhead For Emergency Drench Showers (Haws SP829SS)	243.86	6.66
22 45 39 00-0007 EA Stainless Steel Dust Cover For Emergency Eye/Face Wash Bowls (Haws 9102)	248.65	4.44
22 45 39 00-0008 EA 3-Sided ABS Plastic Safety Sign For Emergency Combination Shower And Eyewash Units (Haws 9020)	271.36	8.87
22 45 39 00-0009 EA Emergency Body Spray Kit With 8' Hose And ABS Plastic Head For Emergency Plumbing Fixtures (Haws 8901RFK)	478.96	66.57
22 45 39 00-0010 EA Class 1, Div. 1, Group B, C And D, Indicator Light For Emergency Plumbing Fixtures (Haws 8317IDLTEXP)	480.96	23.76
22 45 39 00-0011 EA Vapor Tight And Gasketed, Green Area Light For Emergency Plumbing Fixtures (Haws 8317LT)	720.74	23.76
22 45 39 00-0012 EA Privacy Curtain For Horizontal Emergency Drench Shower Or Combination Emergency Drench Shower And Eyewash Units (Haws 9037)	857.94	66.57
22 45 39 00-0013 EA Class 1, Div. 1, Group B, C And D, White Area Light For Emergency Plumbing Fixtures (Haws 8317LTEXP)	1,619.90	23.76
22 45 39 00-0014 EA 1/2" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001.5)	1,772.29	79.20
22 45 39 00-0015 EA 1-1/4" Supply, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001)	1,809.17	79.20
22 45 39 00-0016 EA 1-1/4" Supply, Class 1, Division 2, Groups B, C, And D Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXP)	3,386.16	79.20
22 45 39 00-0017 EA 1-1/4" Supply, 90 db, Class 1, Division 1, Groups C And D, Emergency Alarm And Light System For Emergency Plumbing Fixtures (Haws 9001EXPC1D1)	6,475.58	79.20
22 45 39 00-0018 Emergency Plumbing Fixture Accessories (Speakman) (22 45 39 00-0001)		
22 45 39 00-0019 EA Privacy Curtain For Emergency Showers	839.17	66.57
Note: Curtain includes stainless steel curtain rod and mounting accessories.		
22 45 39 00-0020 Emergency Plumbing Fixture Accessories (WaterSaver) (22 45 39 00-0001)		
22 45 39 00-0021 EA Hand And Foot Control For Emergency Eyewash Equipment (WaterSaver HFC)	107.67	14.46



Plumbing	22	
Plumbing Fixtures	22 40	22
Security Plumbing Fixtures	22 46	

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 46 Security Plumbing Fixtures (22 40)

22 46 13 Security Water Closets And Urinals (22 46)

22 46 13 13 Security Water Closets (22 46 13)

22 46 13 13-0001 Security Water Closets (22 46 13 13)

22 46 13 13-0002	EA	Security Water Closet, Integral Seat, Back Supply And Flush Valve, Wall Hung, Wall Outlet, Cast Aluminum (Acorn 1675).....	3,253.40	221.89
		<i>For Angled Toilet, Add</i>	22.19	
		<i>For Offset Toilet, Add</i>	303.15	
22 46 13 13-0003	EA	Security Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Wall Outlet, Cast Aluminum (Acorn 1684).....	3,977.13	221.89
		<i>For Angled Toilet, Add</i>	22.19	
		<i>For Offset Toilet, Add</i>	375.52	
22 46 13 13-0004	EA	Security Water Closet, Integral Seat, Back Supply And Flush Valve, Floor Mount, Floor Outlet, Cast Aluminum (Acorn 1695).....	4,040.54	221.89
		<i>For Angled Toilet, Add</i>	22.19	
		<i>For Offset Toilet, Add</i>	381.87	
22 46 13 13-0005	EA	Recessed Tissue Holder For Security Water Closet, Stainless Steel (Acorn 1840).....	348.84	44.38

22 46 13 16 Security Urinals (22 46 13)

22 46 13 16-0001 Security Urinals (22 46 13 16)

22 46 13 16-0002	EA	Security Urinal, Back Supply And Flush, Wall Hung, Stainless Steel (Acorn 1700).....	3,904.32	199.70
22 46 13 16-0003	EA	Security Urinal, Back Supply And Flush, Stall, Stainless Steel (Acorn 1720).....	6,674.33	283.76

22 46 13 19 Security Combination Toilet and Lavatory (22 46 13)

22 46 13 19-0001 Security Combination Toilet - Lavatory (22 46 13 19)

22 46 13 19-0002	EA	15" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1415).....	6,012.11	275.15
		<i>For Angled Toilet, Add</i>	27.51	
		<i>For Offset Toilet, Add</i>	573.70	
		<i>For 15" Mirror/Shelf Module, Add</i>	825.15	
		<i>For AC Duplex Outlet Option, Add</i>	85.03	
		<i>For Intercom Option, Add</i>	130.03	
		<i>For 15" Wide Light/Ventilation Module, Add</i>	800.09	
22 46 13 19-0003	EA	18" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1418).....	6,189.60	288.46
		<i>For Angled Toilet, Add</i>	28.85	
		<i>For Offset Toilet, Add</i>	590.11	
		<i>For 18" Mirror/Shelf Module, Add</i>	863.46	
		<i>For AC Duplex Outlet Option, Add</i>	87.69	
		<i>For Intercom Option, Add</i>	132.69	
		<i>For 18" Wide Light/Ventilation Module, Add</i>	823.07	
22 46 13 19-0004	EA	20" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1420).....	6,321.18	301.77
		<i>For Angled Toilet, Add</i>	30.18	
		<i>For Offset Toilet, Add</i>	601.94	
		<i>For 20" Mirror/Shelf Module, Add</i>	911.77	
		<i>For AC Duplex Outlet Option, Add</i>	90.35	
		<i>For Intercom Option, Add</i>	135.35	
		<i>For 20" Wide Light/Ventilation Module, Add</i>	856.06	
22 46 13 19-0005	EA	26" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Wall Mounted, Stainless Steel (Acorn 1426).....	6,771.99	315.09
		<i>For Angled Toilet, Add</i>	31.51	
		<i>For Offset Toilet, Add</i>	645.69	
		<i>For 26" Mirror/Shelf Module, Add</i>	950.09	
		<i>For AC Duplex Outlet Option, Add</i>	93.02	
		<i>For Intercom Option, Add</i>	138.02	
		<i>For 26" Wide Light/Ventilation Module, Add</i>	884.05	
22 46 13 19-0006	EA	28" Wide Combination Security Water Closet And Lavatory Unit, Soap And Paper Holders, Seat, Floor Mounted, Stainless Steel (Acorn 1428).....	11,077.54	328.40
		<i>For Angled Toilet, Add</i>	32.84	
		<i>For Offset Toilet, Add</i>	1,074.91	
		<i>For 28" Mirror/Shelf Module, Add</i>	983.40	
		<i>For AC Duplex Outlet Option, Add</i>	95.68	
		<i>For Intercom Option, Add</i>	140.68	
		<i>For 28" Wide Light/Ventilation Module, Add</i>	912.04	

22 46 16 Security Lavatories And Sinks (22 46)

22 46 16 13 Security Lavatories (22 46 16)

22 46 16 13-0001 Security Lavatories (22 46 16 13)

22 46 16 13-0002	EA	20" Security Lavatory, Wall Hung, Push Button Filler Valve, Rectangular Bowl, Stainless Steel (Acorn 1650).....	2,349.02	155.33
		<i>For Shelf, Add</i>	81.60	
22 46 16 13-0003	EA	18" Security Lavatory, Wall Hung, Push Button Filler Valve, Oval Bowl, Stainless Steel (Acorn 1655).....	2,391.00	155.33
		<i>For Shelf, Add</i>	81.60	

22	Plumbing
22 40	Plumbing Fixtures
22 46	Security Plumbing Fixtures



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 46 16 13-0004	EA	13" Security Lavatory, Wall Hung, Push Button Filler Valve, Oval Bowl, Corner Mount, Stainless Steel (Acorn 1660).....	2,745.50	155.33
		<i>For Shelf, Add</i>	81.60	
22 46 16 13-0005	EA	18" Security Lavatory, Wall Hung, Push Button Filler Valve, Multi Sided Bowl, Stainless Steel (Acorn 1656).....	2,391.00	155.33
		<i>For Shelf, Add</i>	81.60	
22 46 16 16		Security Sinks (22 46 16)		
22 46 16 16-0001		Security Sinks (22 46 16 16)		
22 46 16 16-0002	EA	22" x 16" x 10" Security Service Sink, With Soap Dish, Stainless Steel (Acorn 1642).....	5,142.26	236.53
22 46 16 16-0003		Security Mop Sink (22 46 16 16)		
22 46 16 16-0004	EA	24" x 24" x 10" Stainless Steel Mop Sink With Strainer (ACORN 1630).....	2,433.16	133.13
22 46 19		Security Showers (22 46)		
22 46 19 00-0001		Security Showers (22 46 19)		
22 46 19 00-0002	EA	30" Security Shower, Stainless Steel, Knock-Down (Acorn 1730-3M-KD).....	13,651.58	355.02
22 46 19 00-0003	EA	32" Security Shower, Stainless Steel, Knock-Down (Acorn 1732-3M-KD).....	14,158.85	355.02
22 46 19 00-0004	EA	36" Security Shower, Stainless Steel, Knock-Down (Acorn 1736-3M-KD).....	14,680.91	355.02
22 46 19 00-0005	EA	36" ADA Security Shower, Stainless Steel, Front Access (Acorn 1736-ADA-3M-FA).....	18,768.60	355.02
22 46 19 00-0006	EA	Security Shower Package For Built-in, Hot And Cold Faucets, Mixing Valve, Rectangular Soap Dish, Stainless Steel (Acorn 1741).....	791.43	118.49
22 46 19 00-0007	EA	Security Shower Head With Mixing Valves And Piping Assembly In Wall (Acorn 1743).....	597.71	62.13
22 46 43		Security Plumbing Fixture Flushometers (22 46)		
22 46 43 00-0001	EA	Concealed Manual Water Closet Flush Valve, With Pushbutton Control (Sloan 601 AFD ESM).....	467.87	30.26
		Note: Anti-flood device (AFD), solenoid operated with module plug 24V (ESM).		
22 46 43 00-0002	EA	Concealed Manual Urinal Flush Valve, 1-1/2" Backinlet, With Pushbutton Control (Sloan 609 ESM).....	467.36	30.26
		Note: Solenoid operated with module plug 24V (ESM).		
22 46 43 00-0003	EA	Concealed Manual Urinal Flush Valve, 3/4" Backinlet, With Pushbutton Control (Sloan 613 ESM).....	452.44	30.26
		Note: Solenoid operated with module plug 24V (ESM).		
22 46 56		Security Drinking Fountains (22 46)		
22 46 56 00-0001		Security Drinking Fountain (22 46 56)		
		Note: Includes air control valve, bubbler with mouthguard and mounting bracket.		
22 46 56 00-0002	EA	Wall Mounted Security Drinking Fountain, Stainless Steel (Acorn 1670-1-BP-3-FA).....	2,653.28	177.51
22 46 56 00-0003	EA	Wall Mounted Security ADA Drinking Fountain, Stainless Steel (Acorn 1672-1-ADA-BP-3-FA).....	2,673.52	177.51
22 47		Drinking Fountains And Water Coolers (22 40)		
22 47 13		Drinking Fountains (22 47)		
22 47 13 00-0001		Indoor Drinking Fountains (22 47 13)		
22 47 13 00-0002		Face Mounted Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0003	EA	Stainless Steel, Standard Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-S).....	1,485.10	144.23
22 47 13 00-0004	EA	Stainless Steel, Standard Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-SBP).....	2,156.65	155.33
22 47 13 00-0005	EA	Stainless Steel, Extended Length, Semi-Circular Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-E).....	1,951.88	144.23
22 47 13 00-0006	EA	Stainless Steel, Extended Length, Semi-Circular With Back Panel Indoor Drinking Fountain With Bubbler, 180 Degree Push Bar (Halsey-Taylor OVL-II-EBP).....	2,324.76	155.33
22 47 13 00-0007	EA	Stainless Steel, Standard Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFSS).....	1,000.69	144.23
22 47 13 00-0008	EA	Stainless Steel, Standard Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners With Back Panel (Halsey-Taylor HRFSSBP).....	1,194.63	155.33
22 47 13 00-0009	EA	Stainless Steel, Extended Length, Rectangle Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFSE).....	1,129.82	144.23
22 47 13 00-0010	EA	Stainless Steel, Extended Length, Rectangle With Back Panel Indoor/Outdoor Drinking Fountain With Bubbler, Rounded Corners (Halsey-Taylor HRFSEBP).....	1,369.18	155.33
22 47 13 00-0011		Wall Mounted Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0012	EA	Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor 5701).....	1,030.96	155.33
22 47 13 00-0013	EA	Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain/Bottle Filling Station With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor HTHB-HAC8WF).....	1,457.22	155.33
22 47 13 00-0014	EA	Bi-Level, Stainless Steel Wall-Mounted Rectangle Indoor Drinking Fountain/Bottle Filling Station With Bubbler, Backsplash, Front And Side Push Bars (Halsey-Taylor HTHB-HAC8BLWF).....	1,992.77	155.33
22 47 13 00-0015		Semi-Recessed Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0016	EA	Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler (Halsey-Taylor 5801).....	1,379.99	166.41
22 47 13 00-0017	EA	Stainless Steel Semi-Recessed Indoor Drinking Fountain With Bubbler And Cuspidor (Halsey-Taylor 5801C).....	2,938.59	166.41



Plumbing	22
Plumbing Fixtures	22 40
Drinking Fountains And Water Coolers	22 47

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 13 00-0018 Fully Recessed Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0019 EA Stainless Steel Fully-Recessed, With Bubblers, Indoor Drinking Fountain (Halsey-Taylor 8880, Haws 2400).....	1,476.02	177.51
22 47 13 00-0020 EA Stainless Steel Fully-Recessed, With Bubblers And Cuspidor, Indoor Drinking Fountain (Halsey-Taylor 8800 With 10245, Haws 2403).....	2,671.76	177.51
22 47 13 00-0021 Countertop Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0022 EA Stainless Steel Countertop Circular Indoor Drinking Fountain Basin With Pushbutton Bubblers (Halsey-Taylor 10000).....	617.17	110.95
22 47 13 00-0023 EA Stainless Steel Countertop Rectangular Indoor Drinking Fountain Basin With Pushbutton Bubblers (Halsey-Taylor 6000).....	594.66	110.95
22 47 13 00-0024 EA Stainless Steel Countertop Oval Indoor Drinking Fountain Basin With Pushbutton Bubblers (Halsey-Taylor 6028).....	718.01	110.95
22 47 13 00-0025 Bowl And Bracket Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0026 EA Stainless Steel, Bowl And Bracket With Pushbutton Bubblers, Indoor Drinking Fountain (Halsey-Taylor 2501A).....	523.53	110.95
22 47 13 00-0027 EA Stainless Steel, Bowl And Bracket, Self Closing Lever Handle Stop, Indoor Drinking Fountain (Halsey-Taylor 4540).....	628.09	110.95
22 47 13 00-0028 Multi-Station Indoor Drinking Fountain (22 47 13 00-0001)		
22 47 13 00-0029 EA Stainless Steel Two Station Indoor Drinking Fountains With Bubblers And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7020).....	2,775.31	177.51
22 47 13 00-0030 EA Stainless Steel Three Station Indoor Drinking Fountains With Bubblers And Built In Backsplash, With Bottom Cover Plate (Halsey-Taylor 7030).....	3,484.79	177.51
22 47 13 00-0031 EA Marlyte, Face-Mounted Two Station Indoor Drinking Fountain With Bubblers (Halsey-Taylor 7120).....	2,648.26	177.51
22 47 13 00-0032 EA White Enameled Iron Two Station Indoor Drinking Fountains With Bubblers (Haws 1430).....	2,236.87	177.51
22 47 13 00-0033 EA White Enameled Iron Three Station Indoor Drinking Fountains With Bubblers (Haws 1435).....	2,811.32	177.51
22 47 13 00-0034 EA Stainless Steel, Bi-Level Indoor Drinking Fountain With Bubblers And Back Panel (Halsey-Taylor HRFSEBP, Haws 1119.14 With 6700.4).....	2,457.84	226.44
22 47 13 00-0035 EA Cast Aluminum Two Station Indoor Drinking Fountains With Bubblers (Haws 1441).....	3,212.22	177.51
22 47 13 00-0036 EA Cast Aluminum Three Station Indoor Drinking Fountains With Bubblers (Haws 1408).....	3,157.17	177.51
22 47 13 00-0037 Outdoor Drinking Fountains (22 47 13)		
22 47 13 00-0038 Face Mounted Outdoor Drinking Fountains (22 47 13 00-0037)		
22 47 13 00-0039 EA Stainless Steel Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubblers (Halsey-Taylor HRFE-FR).....	1,291.30	177.51
22 47 13 00-0040 EA Stainless Steel Freeze Resistant Face Mounted, With Back Panel, Outdoor Drinking Fountain With Bubblers (Halsey-Taylor HRFEFBP-FR).....	1,413.56	177.51
22 47 13 00-0041 EA Stone Aggregate Weather Resistant Face Mounted Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4592).....	1,360.47	177.51
22 47 13 00-0042 EA Stone Aggregate Freeze Resistant Face Mounted Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4592-FR).....	1,986.27	177.51
22 47 13 00-0043 Free Standing Outdoor Drinking Fountains (22 47 13 00-0037)		
22 47 13 00-0044 EA Steel Pedestal Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4715).....	2,432.20	166.41
22 47 13 00-0045 EA Steel Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4715-FR).....	3,407.90	166.41
22 47 13 00-0046 EA Steel Barrier-Free Pedestal Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4710).....	2,428.96	166.41
22 47 13 00-0047 EA Steel Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4710-FR).....	3,345.58	166.41
22 47 13 00-0048 EA Steel Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4720).....	3,606.25	177.51
22 47 13 00-0049 EA Steel Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4720-FR).....	3,671.40	177.51
22 47 13 00-0050 EA Stone Aggregate Pedestal Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4591).....	1,376.88	166.41
22 47 13 00-0051 EA Stone Aggregate Barrier-Free Pedestal Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4590).....	2,361.42	166.41
22 47 13 00-0052 EA Stone Aggregate Barrier-Free Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4590-FR).....	3,337.11	166.41
22 47 13 00-0053 EA Stone Aggregate Barrier-Free Bi-level Pedestal Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4595).....	3,925.58	177.51
22 47 13 00-0054 EA Stone Aggregate Barrier-Free Bi-level Pedestal Freeze Resistant Outdoor Drinking Fountain With Bubblers (Halsey-Taylor 4595-FR).....	5,500.52	177.51
22 47 16 Pressure Water Coolers (22 47)		
22 47 16 00-0001 Indoor Water Coolers (22 47 16)		
22 47 16 00-0002 Face Mounted Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0003 EA Stainless Steel, Semi-Circular Water Cooler With Bubblers, Face-Mounted, Extended Length, 180 Degree Push Bar, 7.5 GPH (Halsey-Taylor OVL-II ER-Q).....	2,788.21	177.51
22 47 16 00-0004 EA Stainless Steel, Semi-Circular Water Cooler, Electronic Sensor, Face-Mounted, Extended Length, With Bubblers, 7.5 GPH (Halsey-Taylor OVL-II EREE-Q).....	2,975.63	177.51
22 47 16 00-0005 Wall Mounted Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0006 EA Stainless Steel Wall-Mounted Compact Water Cooler, 4 GPH, With Bubblers, (Halsey-Taylor SW4A-Q).....	1,336.34	177.51
22 47 16 00-0007 EA Stainless Steel Wall-Mounted Compact Water Cooler, 8 GPH, With Bubblers (Halsey-Taylor SW8A-Q).....	1,384.60	177.51
22 47 16 00-0008 EA Stainless Steel Wall-Mounted Compact Water Cooler, 14 GPH, With Bubblers (Halsey-Taylor SW14A-Q).....	1,535.82	177.51
22 47 16 00-0009 EA Stainless Steel Wall-Mounted Vandal Resistant Compact Water Cooler With Bubblers, 8 GPH (Halsey-Taylor SW8A-VR-Q-SS).....	1,593.74	177.51

22 Plumbing**22 40 Plumbing Fixtures****22 47 Drinking Fountains And Water Coolers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 47 16 00-0010 EA Stainless Steel Wall-Mounted Vandal Resistant Barrier Free Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8-CHILD ADA).....	1,185.12	177.51
22 47 16 00-0011 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor WC8AFS-Q-SS).....	1,370.12	177.51
22 47 16 00-0012 EA Stainless Steel Wall-Mounted Barrier Free Water Cooler With Bubbler, Front And Side Pushbar, 8 GPH (Halsey-Taylor HAC8FS-Q Child SS).....	1,081.36	177.51
22 47 16 00-0013 EA Stainless Steel Wall-Mounted Water Cooler, 8 GPH, With Bubbler, (Halsey-Taylor HAC8VR-BL).....	1,618.13	177.51
22 47 16 00-0014 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HAC8FSBL-Q-SS).....	1,809.86	266.27
22 47 16 00-0015 Simulated Recessed Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0016 EA Stainless Steel Simulated Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RWM8A-Q).....	1,590.38	177.51
22 47 16 00-0017 Fully Recessed Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0018 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler, 8 GPH (Halsey-Taylor RC8A-Q).....	3,075.48	199.70
22 47 16 00-0019 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser, 8 GPH (Halsey-Taylor RC8AQ + 14762).....	3,752.48	199.70
22 47 16 00-0020 EA Stainless Steel Fully-Recessed Water Cooler With Bubbler And Cup Dispenser And Glass Filler, 8 GPH (Halsey-Taylor RC8A-Q-14700).....	4,389.06	199.70
22 47 16 00-0021 Free Standing Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0022 EA Stainless Steel, Free-Standing Indoor Water Cooler, 4 GPH, With Bubbler (Halsey-Taylor SCWT4A-Q).....	1,286.33	155.33
22 47 16 00-0023 EA Stainless Steel, Free-Standing Indoor Water Cooler, 8 GPH, With Bubbler (Halsey-Taylor SCWT8A-Q).....	1,380.44	155.33
22 47 16 00-0024 EA Stainless Steel, Free-Standing Indoor Water Cooler, 14 GPH, With Bubbler (Halsey-Taylor SCWT14A-Q).....	1,564.64	155.33
22 47 16 00-0025 EA Stainless Steel, Free-Standing Vandal Resistant Water Cooler With Bubbler, 14 GPH (Halsey-Taylor SCWT14A-VR-Q).....	1,739.19	155.33
22 47 16 00-0026 Bottled Water Coolers (22 47 16 00-0001)		
22 47 16 00-0027 EA Free-Standing Bottled Water Cooler With Chilled Or Room Temperature Water.....	448.83	88.76
22 47 16 00-0028 EA Free-Standing Bottled Water Cooler With Chilled Or Hot Water.....	535.27	88.76
22 47 16 00-0029 Multi-Station Indoor Water Coolers (22 47 16 00-0001)		
22 47 16 00-0030 EA Stainless Steel, Wall Mounted, Two Station, Semi-Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II SER-Q).....	3,084.77	266.27
22 47 16 00-0031 EA Stainless Steel, Wall Mounted, Two Station, Electronic Sensor Semi Circular Indoor Water Cooler With Bubblers, 180 Degree Push Bars, 7.5 GPH (Halsey-Taylor OVL-II-SEREE-Q).....	4,707.17	266.27
22 47 16 00-0032 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Indoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BL-CHILD ADA-SS).....	1,960.27	266.27
22 47 16 00-0033 Outdoor Water Coolers (22 47 16)		
22 47 16 00-0034 Wall Mounted Outdoor Water Coolers (22 47 16 00-0033)		
22 47 16 00-0035 EA Stainless Steel, Wall Mounted, Barrier Free, Vandal Resistant, Frost Resistant Outdoor Water Cooler With Bubbler, 8 GPH (Halsey-Taylor HVR8FR-CHILD ADA-SS).....	1,378.91	110.95
22 47 16 00-0036 EA Stainless Steel, Wall Mounted, Barrier Free, Bi-Level, Vandal Resistant Outdoor Water Cooler With Bubblers, 8 GPH (Halsey-Taylor HVR8BLFR-CHILD ADA-SS).....	2,364.71	110.95
22 47 16 00-0037 Free Standing Outdoor Water Coolers (22 47 16 00-0033)		
22 47 16 00-0038 EA Stainless Steel Free-Standing Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-Q).....	2,273.74	166.41
22 47 16 00-0039 EA Stainless Steel Free-Standing Frost Resistant Outdoor Water Cooler With Bubbler, 14 GPH (Halsey-Taylor HOF14A-FR-Q).....	2,724.19	166.41
22 47 16 00-0040 Removal And Reinstallation Of Fixtures And Trim (22 47 16)		
Note: Includes storage, cleaning and supply materials for reconnecting pipe to fixture.		
22 47 16 00-0041 EA Removal And Reinstallation Of Wall Hung Water Cooler.....	432.11	
22 47 16 00-0042 EA Removal And Reinstallation Of Floor Mount Water Cooler.....	96.38	
22 47 19 Water-Station Water Coolers (22 47)		
22 47 19 00-0001 Bottle Filler (22 47 19)		
22 47 19 00-0002 EA Outdoor Tubular Bottle Filling Station, Surface Mount (Elkay LK4410BF).....	3,285.09	177.51
For Stainless Steel Carrier, Add	205.00	
22 47 19 00-0003 EA Outdoor Tubular Bottle Filling Station, Surface Mount, Freeze Resistant (Elkay LK4410BFFRK).....	4,154.53	177.51
For Stainless Steel Carrier, Add	205.00	
22 47 19 00-0004 EA Tri-level Outdoor Tubular Bottle Filling Station With Single Bottle Filler And Two Drinking Fountain Basins, Surface Mount (Elkay LK4430BF1).....	5,331.60	199.70
For Stainless Steel Carrier, Add	205.00	
22 47 19 00-0005 EA Tri-level Outdoor Tubular Bottle Filling Station With Two Bottle Fillers And Single Drinking Fountain Basin, Surface Mount (Elkay LK4430BF2).....	5,760.11	199.70
For Stainless Steel Carrier, Add	205.00	
22 47 19 00-0006 EA Tri-level Outdoor Tubular Bottle Filling Station With Three Bottle Fillers, Surface Mount (Elkay LK4430BF3).....	6,188.61	199.70
For Stainless Steel Carrier, Add	205.00	



Plumbing	22
Plumbing Fixtures	22 40
Drinking Fountains And Water Coolers	22 47

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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22 47 23 Remote Water Coolers (22 47)

22 47 23 00-0001 Remote Chillers (22 47 23)

22 47 23 00-0002	EA	1.5 GPH Remote Chiller (Halsey-Taylor SJ1-Q)	793.88	59.91
22 47 23 00-0003	EA	5 GPH Remote Chiller (Halsey-Taylor SJ5-Q)	1,204.54	66.57
22 47 23 00-0004	EA	8 GPH Remote Chiller (Halsey-Taylor SJ8-Q)	1,036.90	77.66
22 47 23 00-0005	EA	10 GPH Remote Chiller (Halsey-Taylor SJ10-Q)	1,333.38	88.76
22 47 23 00-0006	EA	19 GPH Remote Chiller (Halsey-Taylor SJ19-Q)	2,088.16	133.13
22 47 23 00-0007	EA	30 GPH Remote Chiller (Halsey-Taylor SJ30-Q)	2,263.96	144.23

22 47 26 Fixture Carriers (22 47)

22 47 26 00-0001 Water Cooler Carriers (22 47 26)

22 47 26 00-0002 Floor Mounted, Water Cooler Carriers (22 47 26 00-0001)

Note: Includes adjustable supporting rods, structural uprights and welded feet.

22 47 26 00-0003	EA	Floor Mounted Hanger Plate Type, Single Water Cooler Carrier	366.06	33.73
		For Up To 4" Extension Sleeves And Hardware, Add	16.89	
		For Bi-Level Carrier, Add	198.25	
22 47 26 00-0004	EA	Floor Mounted Bearing Plate Type, Single Water Cooler Carrier	396.63	33.73
		For Up To 4" Extension Sleeves And Hardware, Add	16.89	
		For Bi-Level Carrier, Add	198.25	

22 50 Pool And Fountain Plumbing Systems (22)

22 51 Swimming Pool Plumbing Systems (22 50)

22 51 13 Swimming Pool Piping (22 51)

22 51 13 00-0001 Swimming Pool Gutters (22 51 13)

22 51 13 00-0002	LF	Swimming Pool Gutters, Stainless	257.01	19.97
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22 51 13 00-0003 Pool Drains (22 51 13)

22 51 13 00-0004 Cast Iron Pool Drain With Bottom Outlet (22 51 13 00-0003)

Note: Large square top and 24" loose set round super-flo grate.

22 51 13 00-0005	EA	Cast Iron Pool Drain, 4" - 8" Bottom Outlet, Large Square Top And 24" Super-Flo Grate	1,824.03	55.92
		For Polished Bronze Top, Add	769.60	
		For Chromium Plated Top, Add	805.00	
		For Galvanized Top, Add	276.40	
		For Vandal Proof Construction, Add	57.20	

22 51 13 00-0006 Cast Iron Pool Drain With Waterproof Flange (22 51 13 00-0003)

Note: Bottom outlet 14" square top and loose set square flange.

22 51 13 00-0007	EA	Cast Iron Pool Drain, 2" - 4" Bottom Outlet With Waterproof Flange And 14" Square Top	554.51	55.92
		For Clamp Device, Add	13.80	
		For Galvanized Top, Add	38.10	
		For Polished Bronze Top, Add	133.50	
		For Chromium Plated Top, Add	146.90	
		For Hinge Grate, Add	28.60	
		For Supplementary Strainer, Add	7.00	
		For Threaded Outlet, Add	9.50	
		For Vandal Proof Construction, Add	17.10	
		For Ground Screw, Add	18.30	

22 51 13 00-0008 Pool Supply Fittings (22 51 13)

22 51 13 00-0009 Cast Iron Pool Supply Fittings (22 51 13 00-0008)

Note: Includes polished bronze head and anchor flange and adjustable V-ported valve insert and threaded inlet.

22 51 13 00-0010	EA	Cast Iron Pool Fitting For 2" Pipe	700.09	99.85
		For Galvanized Head, Add	26.30	
		For Vandal Proof Construction, Add	11.50	
		For Grounding Screw, Add	18.30	
22 51 13 00-0011	EA	Cast Iron Pool Fitting For 3" Pipe	700.09	99.85
		For Chromium Plated Head, Add	11.50	
		For Galvanized Head, Add	26.30	
		For Vandal Proof Construction, Add	11.50	
		For Grounding Screw, Add	18.30	

22 51 16 Swimming Pool Pumps (22 51)

22 51 16 00-0001 Variable Speed Pool Pumps (22 51 16)

22 51 16 00-0002	EA	3 HP, Variable Speed Pool Pump With Vacuum Release (Pentair INTELLIFLO VS+SVRS 11017)	1,898.15	377.22
22 51 16 00-0003	EA	Variable Speed Pool Pump (Hayward EcoStar SVRS SP3400VSP)	2,060.45	377.22
22 51 16 00-0004	EA	Variable Speed Pool Pump With Vacuum Release (Hayward EcoStar SVRS SP3400VSPVR)	2,278.31	377.22

22 Plumbing**22 50 Pool And Fountain Plumbing Systems****22 51 Swimming Pool Plumbing Systems**

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 51 16 00-0005 Electric Powered Portable Vacuum Cleaner Pump ^(22 51 16) Note: Includes 75' of 3 wire electric safety cord.		
22 51 16 00-0006 EA 1 HP Electric Portable Vacuum Cleaner Pump With 75' Of 3-Wire Safety Cord	333.99	44.38
22 51 16 00-0007 EA 1-1/2 HP Electric Portable Vacuum Cleaner Pump With 75' Of 3-Wire Safety Cord	606.83	44.38
22 51 16 00-0008 Gasoline Driven Portable Vacuum Cleaner Pump ^(22 51 16)		
22 51 16 00-0009 EA 3 HP Gasoline Driven Portable Vacuum Cleaner Pump	2,420.69	44.38
22 51 19 Swimming Pool Water Treatment Equipment ^(22 51)		
22 51 19 00-0001 Condensing Pool Water Heater ^(22 51 19)		
22 51 19 00-0002 EA 372 MBH, 97% Efficient, Gas Fired, Indirect, Condensing Pool Water Heater (Lochinvar XPN400)	23,704.89	636.13
22 51 19 00-0003 EA 467 MBH, 97% Efficient, Gas Fired, Indirect, Condensing Pool Water Heater (Lochinvar XPN501)	25,884.98	763.35
22 51 19 00-0004 EA 567 MBH, 97% Efficient, Gas Fired, Indirect, Condensing Pool Water Heater (Lochinvar XPN601)	28,377.02	826.97
22 51 19 00-0005 EA 660 MBH, 97% Efficient, Gas Fired, Indirect, Condensing Pool Water Heater (Lochinvar XPN701)	34,753.21	890.58
22 51 19 00-0006 EA 773 MBH, 97% Efficient, Gas Fired, Indirect, Condensing Pool Water Heater (Lochinvar XPN801)	36,074.28	954.19
22 51 19 00-0007 EA 967 MBH, 97% Efficient, Gas Fired, Indirect, Condensing Pool Water Heater (Lochinvar XPN1015)	54,424.92	1,145.03
22 51 19 00-0008 EA 1,257 MBH, 97% Efficient, Gas Fired, Indirect, Condensing Pool Water Heater (Lochinvar XPN1320)	69,521.62	1,208.64
22 51 19 00-0009 EA 1,450 MBH, 97% Efficient, Gas Fired, Indirect, Condensing Pool Water Heater (Lochinvar XPN1520)	72,365.11	1,304.06
22 51 19 00-0010 Non Condensing Pool Water Heater ^(22 51 19)		
22 51 19 00-0011 EA 500 MBH, 89% Efficient, Gas Fired, Copper Finned Tube, Non Condensing Pool Water Heater (Lochinvar CPN0502)	13,178.07	826.97
22 51 19 00-0012 EA 650 MBH, 89% Efficient, Gas Fired, Copper Finned Tube, Non Condensing Pool Water Heater (Lochinvar CPN0652)	14,052.54	890.58
22 51 19 00-0013 EA 750 MBH, 89% Efficient, Gas Fired, Copper Finned Tube, Non Condensing Pool Water Heater (Lochinvar CPN0752)	15,295.54	954.19
22 51 19 00-0014 EA 990 MBH, 89% Efficient, Gas Fired, Copper Finned Tube, Non Condensing Pool Water Heater (Lochinvar CPN0992)	20,113.83	1,145.03
22 51 19 00-0015 EA 1,260 MBH, 89% Efficient, Gas Fired, Copper Finned Tube, Non Condensing Pool Water Heater (Lochinvar CPN1262)	23,206.77	1,208.64
22 51 19 00-0016 EA 1,440 MBH, 89% Efficient, Gas Fired, Copper Finned Tube, Non Condensing Pool Water Heater (Lochinvar CPN1442)	24,785.79	1,304.06
22 51 19 00-0017 EA 1,800 MBH, 89% Efficient, Gas Fired, Copper Finned Tube, Non Condensing Pool Water Heater (Lochinvar CPN1802)	24,622.74	1,367.67
22 51 19 00-0018 EA 2,070 MBH, 89% Efficient, Gas Fired, Copper Finned Tube, Non Condensing Pool Water Heater (Lochinvar CPN2072)	31,595.13	1,399.47
22 51 19 00-0019 Swimming Pool Heaters ^(22 51 19) Note: Excludes wiring, external piping, base or pad. Commercial pools.		
22 51 19 00-0020 Electric Pool Heaters ^(22 51 19 00-0019)		
22 51 19 00-0021 EA 12 KW Heater (1 Degree/Hour), For 4,800 Gallon Pool	5,543.68	177.51
22 51 19 00-0022 EA 18 KW Heater (1 Degree/Hour), For 7,200 Gallon Pool	6,214.59	190.82
22 51 19 00-0023 EA 24 KW Heater (1 Degree/Hour), For 9,600 Gallon Pool	6,879.94	221.89
22 51 19 00-0024 EA 30 KW Heater (1 Degree/Hour), For 12,000 Gallon Pool	7,210.37	266.27
22 51 19 00-0025 EA 36 KW Heater (1 Degree/Hour), For 14,400 Gallon Pool	7,747.90	372.78
22 51 19 00-0026 EA 60 KW Heater (1 Degree/Hour), For 24,000 Gallon Pool	8,637.33	532.53
22 51 19 00-0027 Gas Fired Pool Heaters ^(22 51 19 00-0019)		
22 51 19 00-0028 EA 120 MBH Output Gas Fired Pool Heater	4,593.67	855.57
22 51 19 00-0029 EA 180 MBH Output Gas Fired Pool Heater	5,219.91	977.80
22 51 19 00-0030 EA 240 MBH Output Gas Fired Pool Heater	5,896.55	1,100.02
22 51 19 00-0031 EA 300 MBH Output Gas Fired Pool Heater	6,813.24	1,344.46
22 51 19 00-0032 EA 360 MBH Output Gas Fired Pool Heater	7,022.45	1,416.51
22 51 19 00-0033 EA 400 MBH Output Gas Fired Pool Heater	8,178.04	1,705.78
22 51 19 00-0034 EA 500 MBH Output Gas Fired Pool Heater	12,648.20	1,968.21
22 51 19 00-0035 EA 600 MBH Output Gas Fired Pool Heater	14,630.94	2,165.04
22 51 19 00-0036 EA 750 MBH Output Gas Fired Pool Heater	16,474.72	2,361.86
22 51 19 00-0037 EA 1,000 MBH Output Gas Fired Pool Heater	21,051.12	2,788.30
22 51 19 00-0038 Surge Tanks ^(22 51 19) Note: Includes 100 GPM vertical pump with 2 HP motor and electronic float switch. Prices are for 1' To 5' sump depth for pump.		
22 51 19 00-0039 EA 1,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch	12,808.25	698.83
22 51 19 00-0040 EA 1,500 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch	14,295.68	698.83
22 51 19 00-0041 EA 2,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch	17,256.97	876.45
22 51 19 00-0042 EA 5,000 Gallon Surge Tank, With 2 HP Motor With 100 GPM Vertical Pump And Electric Float Switch	23,089.44	1,414.51
22 51 19 00-0043 Diatomite Type Filter System ^(22 51 19)		
22 51 19 00-0044 EA 35,000 Gallon Filter System, Diatomite	12,863.11	2,307.68
22 51 19 00-0045 EA 45,000 Gallon Filter System, Diatomite	15,279.77	2,769.21



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 51 19 00-0046 Silver Recovery System, X-Ray Film Processing <small>(22 51 19)</small>		
22 51 19 00-0047 EA 20 Gallon/Day Capacity, Silver Recovery System	2,354.20	301.19
22 51 19 00-0048 EA 40 Gallon/Day Capacity, Silver Recovery System	3,510.53	401.63
22 51 19 00-0049 Inline Water Filter <small>(22 51 19)</small>		
Note: 3/8" NPT threaded inlet and outlet, 125 PSI, includes one filter cartridge.		
22 51 19 00-0050 EA 2 GPM Water Filter, 100 Degree Temperature, 8" x 5" Diameter, Plastic Body.....	274.54	88.76
22 51 19 00-0051 EA 6 GPM Water Filter, 250 Degree Temperature, 12" x 5" Diameter, Stainless Steel Body.....	566.40	133.13
22 51 19 00-0052 Horizontal High Rate Sand Filters <small>(22 51 19)</small>		
Note: Includes sand, filter system equipment and attached accessory gauges.		
22 51 19 00-0053 EA 135-270 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	24,522.68	1,870.81
Note: 1 tank, 4" pipe size, Miami Tanks model # HH3614-A.		
22 51 19 00-0054 EA 135-270 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	15,401.53	1,870.81
Note: 1 tank, 4" pipe size, Miami tanks model # HH3614-M.		
22 51 19 00-0055 EA 270-405 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	34,624.46	3,741.62
Note: 2 tank, 4" pipe size, Miami tanks model # HH3624-A.		
22 51 19 00-0056 EA 270-405 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	27,860.89	3,741.62
Note: 2 tank, 4" pipe size, Miami tanks model # HH3624-M.		
22 51 19 00-0057 EA 270-540 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	35,530.30	3,741.62
Note: 2 tank, 6" pipe size, Miami tanks model # HH3626-A.		
22 51 19 00-0058 EA 270-540 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	28,902.00	3,741.62
Note: 2 tank, 6" pipe size, Miami tanks model # HH3626-M.		
22 51 19 00-0059 EA 405-810 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	48,851.86	5,612.42
Note: 3 tank, 6" pipe size, Miami tanks model # HH3636-A.		
22 51 19 00-0060 EA 405-810 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	38,791.05	5,612.42
Note: 3 tank, 6" pipe size, Miami tanks model # HH3636-M.		
22 51 19 00-0061 EA 405-810 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	50,156.26	5,612.42
Note: 3 tank, 8" pipe size, Miami tanks model # HH3638-A.		
22 51 19 00-0062 EA 405-810 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	42,564.50	5,612.42
Note: 3 tank, 8" pipe size, Miami tanks model # HH3638-M.		
22 51 19 00-0063 EA 540-810 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	63,202.35	7,483.23
Note: 4 tank, 6" pipe size, Miami tanks model # HH3646-A.		
22 51 19 00-0064 EA 540-810 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	54,677.84	7,483.23
Note: 4 tank, 6" pipe size, Miami tanks model # HH3646-M.		
22 51 19 00-0065 EA 675 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	77,000.37	9,354.04
Note: 5 tank, 6" pipe size, Miami tanks model # HH3656-A.		
22 51 19 00-0066 EA 675 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	66,021.65	9,354.04
Note: 5 tank, 6" pipe size, Miami tanks model # HH3656-M.		
22 51 19 00-0067 EA 675-1350 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	79,002.87	9,354.04
Note: 5 tank, 8" pipe size, Miami tanks model # HH3658-A.		
22 51 19 00-0068 EA 675-1350 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	68,210.84	9,354.04
Note: 5 tank, 8" pipe size, Miami tanks model # HH3658-M.		
22 51 19 00-0069 EA 810 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	91,501.55	11,224.85
Note: 6 tank, 6" pipe size, Miami tanks model # HH3666-A.		
22 51 19 00-0070 EA 810 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	79,288.48	11,224.85
Note: 6 tank, 6" pipe size, Miami tanks model # HH3666-M.		
22 51 19 00-0071 EA 810-1620 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	93,250.41	11,224.85
Note: 6 tank, 8" pipe size, Miami tanks model # HH3668-A.		
22 51 19 00-0072 EA 810-1620 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	80,712.48	11,224.85
Note: 6 tank, 8" pipe size, Miami tanks model # HH3668-M.		
22 51 19 00-0073 EA 810-1620 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	95,591.09	11,224.85
Note: 6 tank, 10" pipe size, Miami tanks model # HH36610-A.		
22 51 19 00-0074 EA 810-1620 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	77,699.04	11,224.85
Note: 6 tank, 10" pipe size, Miami tanks model # HH36610-M.		
22 51 19 00-0075 EA 945-1418 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	107,761.95	13,095.66
Note: 7 tank, 8" pipe size, Miami tanks model # HH3678-A.		
22 51 19 00-0076 EA 945-1418 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	95,548.02	13,095.66
Note: 7 tank, 8" pipe size, Miami tanks model # HH3678-M.		
22 51 19 00-0077 EA 945-1890 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	110,705.66	13,095.66
Note: 7 tank, 10" pipe size, Miami tanks model # HH36710-A.		
22 51 19 00-0078 EA 945-1890 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	98,161.65	13,095.66
Note: 7 tank, 10" pipe size, Miami tanks model # HH36710-M.		
22 51 19 00-0079 EA 1080-2160 GPM Horizontal Hi-Rate Sand Filter, Automatic Controls	123,435.97	14,966.46
Note: 8 tank, 10" pipe size, Miami tanks model # HH36810-A.		
22 51 19 00-0080 EA 1080-2160 GPM Horizontal Hi-Rate Sand Filter, Manual Controls	111,027.24	14,966.46
Note: 8 tank, 10" pipe size, Miami tanks model # HH36810-M.		
22 51 19 00-0081 Swimming Pool Chlorinators <small>(22 51 19)</small>		
22 51 19 00-0082 EA Swimming Pool Chlorinator, 50-100 PPD, Direct Cylinder Mounted Gas Chlorinator	1,027.98	126.92
22 51 19 00-0083 Ultra-Violet Pool Treatment Lights <small>(22 51 19)</small>		
22 51 19 00-0084 Stainless Steel Ultra-Violet Pool Treatment Lights <small>(22 51 19 00-0083)</small>		
Note: Delta ELP Amalgam Series		
22 51 19 00-0085 EA 3" Flanged, 79 GPM, 2 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	9,130.41	276.71
22 51 19 00-0086 EA 3" Flanged, 116 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	9,647.26	276.71
22 51 19 00-0087 EA 3" Flanged, 158 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	10,090.28	276.71
22 51 19 00-0088 EA 4" Flanged, 254 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	10,412.14	293.03

22 Plumbing**22 50 Pool And Fountain Plumbing Systems****22 51 Swimming Pool Plumbing Systems**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

22 51 19 00-0089	EA	4" Flanged, 295 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	10,631.69	293.03
22 51 19 00-0090	EA	4" Flanged, 329 GPM, 7 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	12,625.23	293.03
22 51 19 00-0091	EA	6" Flanged, 396 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	14,974.16	527.78
22 51 19 00-0092	EA	6" Flanged, 440 GPM, 2 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	22,107.35	527.78
22 51 19 00-0093	EA	6" Flanged, 650 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	24,250.37	527.78
22 51 19 00-0094	EA	8" Flanged, 695 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	26,031.35	633.16
22 51 19 00-0095	EA	8" Flanged, 920 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	27,940.25	633.16
22 51 19 00-0096	EA	8" Flanged, 1140 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	29,272.89	633.16
22 51 19 00-0097	EA	8" Flanged, 1260 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	30,713.57	633.16
22 51 19 00-0098	EA	10" Flanged, 1510 GPM, 6 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	33,004.83	719.70
22 51 19 00-0099	EA	10" Flanged, 1760 GPM, 7 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	35,526.03	719.70
22 51 19 00-0100	EA	10" Flanged, 2010 GPM, 8 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	38,047.22	719.70
22 51 19 00-0101	EA	10" Flanged, 2520 GPM, 10 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With Stainless Steel Housing	41,108.67	719.70

22 51 19 00-0102 HDPE Ultra-Violet Pool Treatment Lights (22 51 19 00-0083)

Note: Delta EL Series

22 51 19 00-0103	EA	3" Flanged, 116 GPM, 3 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing	4,601.28	276.71
22 51 19 00-0104	EA	3" Flanged, 158 GPM, 4 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing	5,105.50	276.71
22 51 19 00-0105	EA	4" Flanged, 254 GPM, 5 Lamp, 240 Volt, Ultra-Violet Pool Treatment Light With HDPE Housing	5,634.33	293.03

22 51 19 00-0106 In-Line, Stainless Steel Ultra-Violet Pool Treatment Lights (22 51 19 00-0083)

Note: Delta EM Series

22 51 19 00-0107	EA	3" Flanged, 100 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing	17,567.42	276.71
22 51 19 00-0108	EA	3" Flanged, 170 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing	17,747.49	276.71
22 51 19 00-0109	EA	6" Flanged, 300 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing	19,035.11	527.78
22 51 19 00-0110	EA	6" Flanged, 600 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing	24,055.87	527.78
22 51 19 00-0111	EA	8" Flanged, 1300 GPM, 1 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing	33,522.90	633.16
22 51 19 00-0112	EA	10" Flanged, 2000 GPM, 2 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing	37,831.13	719.70
22 51 19 00-0113	EA	12" Flanged, 3000 GPM, 3 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing	44,635.49	931.32
22 51 19 00-0114	EA	12" Flanged, 4000 GPM, 4 Lamp, 240 Volt, In-Line Ultra-Violet Pool Treatment Light With Stainless Steel Housing	50,038.04	931.32

22 51 23 Swimming Pool Equipment Controls (22 51)**22 51 23 00-0001 Pool Pump Variable Frequency Drive (22 51 23)**

Note: Pentair Acu Drive XS

22 51 23 00-0002	EA	3 HP, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD030-2303-N01)	2,887.06	152.07
22 51 23 00-0003	EA	5 HP, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD050-2303-N01)	3,100.30	171.09
22 51 23 00-0004	EA	7-1/2 HP, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD075-2303-N01)	3,713.79	213.85
22 51 23 00-0005	EA	10 HP, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD100-2303-N01)	3,950.93	255.20
22 51 23 00-0006	EA	15 HP, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD150-2303-N01)	4,230.02	297.02
22 51 23 00-0007	EA	20 HP, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD200-2303-N01)	4,794.31	339.31
22 51 23 00-0008	EA	3 HP, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD030-4603-N01)	2,890.69	152.07
22 51 23 00-0009	EA	5 HP, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD050-4603-N01)	3,048.25	171.09
22 51 23 00-0010	EA	7-1/2 HP, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD075-4603-N01)	3,287.77	213.85
22 51 23 00-0011	EA	10 HP, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD100-4603-N01)	3,537.01	255.20
22 51 23 00-0012	EA	15 HP, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD150-4603-N01)	4,170.71	297.02
22 51 23 00-0013	EA	20 HP, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD200-4603-N01)	4,633.34	339.31
22 51 23 00-0014	EA	3 HP, Fused Bypass, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD030-2303-N01FB)	3,727.01	152.07
22 51 23 00-0015	EA	5 HP, Fused Bypass, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD050-2303-N01FB)	4,285.18	171.09
22 51 23 00-0016	EA	7-1/2 HP, Fused Bypass, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD075-2303-N01FB)	4,764.33	213.85
22 51 23 00-0017	EA	10 HP, Fused Bypass, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD100-2303-N01FB)	5,138.24	255.20
22 51 23 00-0018	EA	15 HP, Fused Bypass, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD150-2303-N01FB)	6,049.10	297.02
22 51 23 00-0019	EA	20 HP, Fused Bypass, 230 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD200-2303-N01FB)	6,820.35	339.31
22 51 23 00-0020	EA	3 HP, Fused Bypass, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD030-4603-N01FB)	4,001.75	152.07
22 51 23 00-0021	EA	5 HP, Fused Bypass, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD050-4603-N01FB)	4,161.97	171.09
22 51 23 00-0022	EA	7-1/2 HP, Fused Bypass, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD075-4603-N01FB)	4,397.61	213.85
22 51 23 00-0023	EA	10 HP, Fused Bypass, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD100-4603-N01FB)	4,648.07	255.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 51 23 00-0024 EA 15 HP, Fused Bypass, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD150-4603-N01FB)	5,304.76	297.02
22 51 23 00-0025 EA 20 HP, Fused Bypass, 460 Volt AC, NEMA 1, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD200-4603-N01FB)	5,804.91	339.31
22 51 23 00-0026 EA 1/2 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD005-2303-N12)	2,747.68	152.07
22 51 23 00-0027 EA 3/4 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD007-2303-N12)	2,793.31	152.07
22 51 23 00-0028 EA 1 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD010-2303-N12)	2,821.50	152.07
22 51 23 00-0029 EA 1-1/2 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD015-2303-N12)	2,897.45	152.07
22 51 23 00-0030 EA 2 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD020-2303-N12)	3,012.17	152.07
22 51 23 00-0031 EA 3 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD030-2303-N12)	3,101.16	152.07
22 51 23 00-0032 EA 5 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD050-2303-N12)	3,320.45	171.09
22 51 23 00-0033 EA 7-1/2 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD075-2303-N12)	3,959.34	213.85
22 51 23 00-0034 EA 10 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD100-2303-N12)	4,236.53	255.20
22 51 23 00-0035 EA 15 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD150-2303-N12)	4,524.13	297.02
22 51 23 00-0036 EA 20 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD200-2303-N12)	5,140.35	339.31
22 51 23 00-0037 EA 25 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD250-2303-N12)	6,750.59	422.95
22 51 23 00-0038 EA 30 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD300-2303-N12)	7,451.89	465.73
22 51 23 00-0039 EA 40 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD400-2303-N12)	8,812.32	508.49
22 51 23 00-0040 EA 50 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD500-2303-N12)	10,253.40	594.04
22 51 23 00-0041 EA 60 HP, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD600-2303-N12)	11,231.41	636.80
22 51 23 00-0042 EA 1/2 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD005-4603-N12)	2,804.54	152.07
22 51 23 00-0043 EA 3/4 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD007-4603-N12)	2,863.47	152.07
22 51 23 00-0044 EA 1 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD010-4603-N12)	2,937.62	152.07
22 51 23 00-0045 EA 1-1/2 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD015-4603-N12)	3,001.35	152.07
22 51 23 00-0046 EA 2 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD020-4603-N12)	3,066.30	152.07
22 51 23 00-0047 EA 3 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD030-4603-N12)	3,134.84	152.07
22 51 23 00-0048 EA 5 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD050-4603-N12)	3,297.60	171.09
22 51 23 00-0049 EA 7-1/2 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD075-4603-N12)	3,539.64	213.85
22 51 23 00-0050 EA 10 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD100-4603-N12)	3,794.95	255.20
22 51 23 00-0051 EA 15 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD150-4603-N12)	4,611.44	297.02
22 51 23 00-0052 EA 20 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD200-4603-N12)	5,084.78	339.31
22 51 23 00-0053 EA 25 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD250-4603-N12)	5,606.45	422.95
22 51 23 00-0054 EA 30 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD300-4603-N12)	6,340.84	465.73
22 51 23 00-0055 EA 40 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD400-4603-N12)	7,158.03	508.49
22 51 23 00-0056 EA 50 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD500-4603-N12)	8,770.89	594.04
22 51 23 00-0057 EA 60 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD600-4603-N12)	9,635.42	636.80
22 51 23 00-0058 EA 75 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD750-4603-N12)	10,803.39	679.58
22 51 23 00-0059 EA 100 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS ADC10-4603-N12)	12,796.58	719.97
22 51 23 00-0060 EA 125 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS ADC13-4603-N12)	14,754.94	760.37
22 51 23 00-0061 EA 150 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS ADC15-4603-N12)	16,004.77	850.66
22 51 23 00-0062 EA 200 HP, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS ADC20-4603-N12)	18,681.80	931.44
22 51 23 00-0063 EA 1/2 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD005-2303-N12FB)	3,964.11	152.07
22 51 23 00-0064 EA 3/4 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD007-2303-N12FB)	4,009.74	152.07
22 51 23 00-0065 EA 1 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD010-2303-N12FB)	4,037.93	152.07

22 Plumbing**22 50 Pool And Fountain Plumbing Systems****22 51 Swimming Pool Plumbing Systems**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 51 23 00-0066	EA	1-1/2 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD015-2303-N12FB).....	4,113.87	152.07
22 51 23 00-0067	EA	2 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD020-2303-N12FB).....	4,228.60	152.07
22 51 23 00-0068	EA	3 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD030-2303-N12FB).....	4,317.59	152.07
22 51 23 00-0069	EA	5 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD050-2303-N12FB).....	4,536.88	171.09
22 51 23 00-0070	EA	7-1/2 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD075-2303-N12FB).....	5,038.05	213.85
22 51 23 00-0071	EA	10 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD100-2303-N12FB).....	5,455.89	255.20
22 51 23 00-0072	EA	15 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD150-2303-N12FB).....	6,391.13	297.02
22 51 23 00-0073	EA	20 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD200-2303-N12FB).....	7,222.87	339.31
22 51 23 00-0074	EA	25 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD250-2303-N12FB).....	8,503.27	422.95
22 51 23 00-0075	EA	30 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD300-2303-N12FB).....	9,361.52	465.73
22 51 23 00-0076	EA	40 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD400-2303-N12FB).....	11,956.36	508.49
22 51 23 00-0077	EA	50 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD500-2303-N12FB).....	15,762.71	594.04
22 51 23 00-0078	EA	60 HP, Fused Bypass, 230 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD600-2303-N12FB).....	17,323.08	636.80
22 51 23 00-0079	EA	1/2 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD005-4603-N12FB).....	3,946.85	152.07
22 51 23 00-0080	EA	3/4 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD007-4603-N12FB).....	4,005.77	152.07
22 51 23 00-0081	EA	1 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD010-4603-N12FB).....	4,079.92	152.07
22 51 23 00-0082	EA	1-1/2 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD015-4603-N12FB).....	4,143.66	152.07
22 51 23 00-0083	EA	2 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD020-4603-N12FB).....	4,208.59	152.07
22 51 23 00-0084	EA	3 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD030-4603-N12FB).....	4,277.14	152.07
22 51 23 00-0085	EA	5 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD050-4603-N12FB).....	4,439.91	171.09
22 51 23 00-0086	EA	7-1/2 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD075-4603-N12FB).....	4,680.71	213.85
22 51 23 00-0087	EA	10 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD100-4603-N12FB).....	4,936.02	255.20
22 51 23 00-0088	EA	15 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD150-4603-N12FB).....	5,777.29	297.02
22 51 23 00-0089	EA	20 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD200-4603-N12FB).....	6,288.97	339.31
22 51 23 00-0090	EA	25 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD250-4603-N12FB).....	6,892.26	422.95
22 51 23 00-0091	EA	30 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD300-4603-N12FB).....	7,767.45	465.73
22 51 23 00-0092	EA	40 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD400-4603-N12FB).....	9,196.78	508.49
22 51 23 00-0093	EA	50 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD500-4603-N12FB).....	10,582.79	594.04
22 51 23 00-0094	EA	60 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD600-4603-N12FB).....	11,781.25	636.80
22 51 23 00-0095	EA	75 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS AD750-4603-N12FB).....	13,678.84	679.58
22 51 23 00-0096	EA	100 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS ADC10-4603-N12FB).....	18,033.83	719.97
22 51 23 00-0097	EA	125 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS ADC13-4603-N12FB).....	19,948.99	760.37
22 51 23 00-0098	EA	150 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS ADC15-4603-N12FB).....	25,059.53	850.66
22 51 23 00-0099	EA	200 HP, Fused Bypass, 460 Volt AC, NEMA 12, 3 Phase, Pool Pump Variable Frequency Drive (Pentair Acu Drive XS ADC20-4603-N12FB).....	29,443.22	931.44
22 51 23 00-0100	EA	380+ Volt AC, Up To 10 HP, 260 Volt AC, Up To 3 HP, 3 Year Extended Warranty (Pentair AD-EWW136).....	270.24	
22 51 23 00-0101	EA	380+ Volt AC, 15 To 40 HP, 260 Volt AC, 5 To 25 HP, 3 Year Extended Warranty (Pentair AD-EWW236).....	431.23	
22 51 23 00-0102	EA	380+ Volt AC, Up To 10 HP, 260 Volt AC, Up To 3 HP, 6 Year Extended Warranty (Pentair AD-EWW172).....	477.22	
22 51 23 00-0103	EA	380+ Volt AC, 15 To 40 HP, 260 Volt AC, 5 To 25 HP, 6 Year Extended Warranty (Pentair AD-EWW272).....	810.71	
22 51 23 00-0104	EA	380+ Volt AC, 50 To 125 HP, 260 Volt AC, 30 To 60 HP, 6 Year Extended Warranty (Pentair AD-EWW372).....	1,546.67	
22 51 23 00-0105	EA	3" Clamp On Saddle Flow Sensor Kit, Integral 4 To 20 mA Output Signal (Pentair 97014-4203KIT).....	980.27	
22 51 23 00-0106	EA	4" Clamp On Saddle Flow Sensor Kit, Integral 4 To 20 mA Output Signal (Pentair 97014-4204KIT).....	1,025.33	
22 51 23 00-0107	EA	6" Clamp On Saddle Flow Sensor Kit, Integral 4 To 20 mA Output Signal (Pentair 97016-4206KIT).....	1,119.69	
22 51 23 00-0108	EA	8" Clamp On Saddle Flow Sensor Kit, Integral 4 To 20 mA Output Signal (Pentair 97016-4208KIT).....	1,201.80	
22 51 23 00-0109	EA	3" Clamp On Saddle Flow Sensor Kit, Wall Mounted Display/Transmitter, 4 To 20 mA Output Signal (Pentair 97014BL-03KIT).....	1,397.36	
22 51 23 00-0110	EA	4" Clamp On Saddle Flow Sensor Kit, Wall Mounted Display/Transmitter, 4 To 20 mA Output Signal (Pentair 97014BL-04KIT).....	1,439.75	
22 51 23 00-0111	EA	6" Clamp On Saddle Flow Sensor Kit, Wall Mounted Display/Transmitter, 4 To 20 mA Output Signal (Pentair 97016BL-06KIT).....	1,529.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 51 23 00-0112 EA 8" Clamp On Saddle Flow Sensor Kit, Wall Mounted Display/Transmitter, 4 To 20 mA Output Signal (Pentair 97016BL-08KIT)	1,609.46	
22 51 23 00-0113 EA 10" Clamp On Saddle Flow Sensor Kit, Wall Mounted Display/Transmitter, 4 To 20 mA Output Signal (Pentair 97020BL-10KIT)	1,922.40	
22 51 23 00-0114 EA 12" Clamp On Saddle Flow Sensor Kit, Wall Mounted Display/Transmitter, 4 To 20 mA Output Signal (Pentair 97020BL-12KIT)	1,932.03	
22 51 23 00-0115 Eco-Flow-E Aquatic Variable Frequency Drive And Options (22 51 23)		
22 51 23 00-0116 Eco-Flow-E Aquatic Variable Frequency Drive (22 51 23 00-0115)		
22 51 23 00-0117 EA 2 HP, 480 Volt, 3 Phase, 4 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-04-12-4).....	2,298.37	126.73
For Bypass Panel, Add	533.12	
22 51 23 00-0118 EA 3 HP, 480 Volt, 3 Phase, 6 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-06-12-4).....	2,300.55	126.73
For Bypass Panel, Add	533.12	
22 51 23 00-0119 EA 5 HP, 480 Volt, 3 Phase, 8 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-08-12-4).....	2,343.86	142.57
For Bypass Panel, Add	533.12	
22 51 23 00-0120 EA 7-1/2 HP, 480 Volt, 3 Phase, 12 Amperes, Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-12-12-4).....	2,439.10	178.21
For Bypass Panel, Add	533.12	
22 51 23 00-0121 EA 10 HP, 480 Volt, 3 Phase, 16 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-16-12-4).....	2,642.36	212.67
For Bypass Panel, Add	533.12	
22 51 23 00-0122 EA 15 HP, 480 Volt, 3 Phase, 24 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-24-12-4).....	2,942.98	247.52
For Bypass Panel, Add	628.44	
22 51 23 00-0123 EA 20 HP, 480 Volt, 3 Phase, 30 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-30-12-4).....	3,466.61	282.76
For Bypass Panel, Add	628.44	
22 51 23 00-0124 EA 25 HP, 480 Volt, 3 Phase, 39 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-39-12-4).....	3,621.52	354.04
For Bypass Panel, Add	628.44	
22 51 23 00-0125 EA 30 HP, 480 Volt, 3 Phase, 45 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-45-12-4).....	4,324.52	389.29
For Bypass Panel, Add	628.44	
22 51 23 00-0126 EA 40 HP, 480 Volt, 3 Phase, 61 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-61-12-4).....	4,464.67	424.14
For Bypass Panel, Add	762.98	
22 51 23 00-0127 EA 1/2 HP, 208/230 Volt, 1 Phase (1 HP, 208/230 Volt, 3 Phase) 8 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-08-12-2)	2,286.03	126.73
For Bypass Panel, Add	533.12	
22 51 23 00-0128 EA 1 HP, 208/230 Volt, 1 Phase (2 HP, 208/230 Volt, 3 Phase) 12 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-12-12-2)	2,288.93	126.73
For Bypass Panel, Add	533.12	
22 51 23 00-0129 EA 1-1/2 HP, 208/230 Volt, 1 Phase (3 HP, 208/230 Volt, 3 Phase) 16 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-16-12-2)	2,302.73	126.73
For Bypass Panel, Add	533.12	
22 51 23 00-0130 EA 5 HP, 208/230 Volt, 1 Phase, 24 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-24-12-2).....	2,355.48	142.57
For Bypass Panel, Add	628.44	
22 51 23 00-0131 EA 3 HP, 208/230 Volt, 1 Phase (7-1/2 HP, 208/230 Volt, 3 Phase) 32 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-32-12-2)	2,564.01	178.21
For Bypass Panel, Add	628.44	
22 51 23 00-0132 EA 5 HP, 208/230 Volt, 1 Phase (10 HP, 208/230 Volt, 3 Phase) 46 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-46-12-2)	2,861.66	212.67
For Bypass Panel, Add	628.44	
22 51 23 00-0133 EA 7-1/2 HP, 208/230 Volt, 1 Phase (15 HP, 208/230 Volt, 3 Phase) 60 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-60-12-2)	3,389.58	247.52
For Bypass Panel, Add	762.98	
22 51 23 00-0134 EA 10 HP, 208/230 Volt, 1 Phase (20 HP, 208/230 Volt, 3 Phase) 74 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-74-12-2)	3,473.87	282.76
For Bypass Panel, Add	762.98	
22 51 23 00-0135 EA 25 HP, 208/230 Volt, 1 Phase, 88 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-88-12-2).....	4,243.86	354.04
For Bypass Panel, Add	1,031.14	
22 51 23 00-0136 EA 15 HP, 208/230 Volt, 1 Phase (30 HP, 208/230 Volt, 3 Phase) 124 Amperes Maximum, NEMA 12, Eco-Flow-E Aquatic Variable Frequency Drive (H2Flow EF-E-124-12-2)	4,385.52	389.29
For Bypass Panel, Add	1,414.03	
22 51 23 00-0137 Eco-Flow-E Aquatic Variable Frequency Drive Options (22 51 23 00-0115)		
22 51 23 00-0138 EA 0 To 30 PSI, 1/4" NPT Male Thread, 4 To 20 mA Output, 10' Cable, Pressure Sensor (H2Flow PS-30)	324.64	59.40
22 51 23 00-0139 EA 0 To 100 PSI, 1/4" NPT Male Thread, 4 To 20 mA Output, 10' Cable, Pressure Sensor (H2Flow PS-100).....	324.64	59.40
22 51 23 00-0140 EA Lightning Arrestor (H2Flow LA).....	339.17	39.60
22 51 23 00-0141 EA 2 HP, 480 Volt, (3/4 HP, 208/230 Volt) Load Reactor (TCI V1K4A00).....	375.50	17.82
22 51 23 00-0142 EA 3 HP, 480 Volt, (1 To 1-1/2 HP, 208/230 Volt) Load Reactor (TCI V1K6A00).....	388.17	19.80
22 51 23 00-0143 EA 5 HP, 480 Volt, (2 HP, 208/230 Volt) Load Reactor (TCI V1K8A00).....	397.95	21.78
22 51 23 00-0144 EA 7-1/2 HP, 480 Volt, (3 HP, 208/230 Volt) Load Reactor (TCI V1K12A00).....	415.69	23.76
22 51 23 00-0145 EA 10 HP, 480 Volt, (5 HP, 208/230 Volt) Load Reactor (TCI V1K16A00).....	424.01	25.74
22 51 23 00-0146 EA 15 HP, 480 Volt, (7-1/2 HP, 208/230 Volt) Load Reactor (TCI V1K25A00).....	552.16	27.72
22 51 23 00-0147 EA 20 HP, 480 Volt, Load Reactor (TCI V1K27A00).....	575.71	29.70

22 Plumbing
22 50 Pool And Fountain Plumbing Systems
22 51 Swimming Pool Plumbing Systems



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 51 23 00-0148 EA 25 HP, 480 Volt, (10 HP, 208/230 Volt) Load Reactor (TCI V1K35A00).....	601.47	31.68
22 51 23 00-0149 EA 30 HP, 480 Volt, (15 HP, 208/230 Volt) Load Reactor (TCI V1K45A00).....	626.48	33.66
22 51 23 00-0150 EA 40 HP, 480 Volt, (20 HP, 208/230 Volt) Load Reactor (TCI V1K55A00).....	648.59	35.65
22 51 23 00-0151 EA 25 To 30 HP, 208/230 Volt, Load Reactor (TCI V1K80A00).....	889.30	37.62
22 51 23 00-0152 EA 1 HP, 208/230 Volt, Line Reactor (TCI KDRA25L).....	117.30	19.80
22 51 23 00-0153 EA 2 HP, 208/230 Volt, Line Reactor (TCI KDRA27L).....	125.63	21.78
22 51 23 00-0154 EA 3 HP, 208/230 Volt, Line Reactor (TCI KDRA28L).....	140.47	23.76
22 51 23 00-0155 EA 5 HP, 208/230 Volt, Line Reactor (TCI KDRB22L).....	183.64	25.74
22 51 23 00-0156 EA 7-1/2 HP, 208/230 Volt, Line Reactor (TCI KDRB23L).....	205.77	27.72
22 51 23 00-0157 EA 10 HP, 208/230 Volt, Line Reactor (TCI KDRD25L).....	213.35	29.70
22 51 23 00-0158 EA 15 HP, 208/230 Volt, Line Reactor (TCI KDRD24L).....	220.95	31.68
22 51 23 00-0159 EA 20 HP, 208/230 Volt, Line Reactor (TCI KDRD26L).....	234.34	33.66
22 51 23 00-0160 EA 25 HP, 208/230 Volt, Line Reactor (TCI KDRC22L).....	294.94	35.65
22 51 23 00-0161 EA 30 HP, 208/230 Volt, Line Reactor (TCI KDRF24L).....	303.27	37.62
22 51 23 00-0162 EA 1 HP, 480 Volt, Line Reactor (TCI KDRA8L).....	118.03	19.80
22 51 23 00-0163 EA 2 HP, 480 Volt, Line Reactor (TCI KDRA1L).....	129.99	21.78
22 51 23 00-0164 EA 3 HP, 480 Volt, Line Reactor (TCI KDRA2L).....	142.65	23.76
22 51 23 00-0165 EA 5 HP, 480 Volt, Line Reactor (TCI KDRA3L).....	150.24	25.74
22 51 23 00-0166 EA 7-1/2 HP, 480 Volt, Line Reactor (TCI KDRA4L).....	157.12	27.72
22 51 23 00-0167 EA 10 HP, 480 Volt, Line Reactor (TCI KDRA5L).....	195.92	29.70
22 51 23 00-0168 EA 15 HP, 480 Volt, Line Reactor (TCI KDRB2L).....	204.25	31.68
22 51 23 00-0169 EA 20 HP, 480 Volt, Line Reactor (TCI KDRB1L).....	214.73	33.66
22 51 23 00-0170 EA 25 HP, 480 Volt, Line Reactor (TCI KDRD1L).....	222.33	35.65
22 51 23 00-0171 EA 30 HP, 480 Volt, Line Reactor (TCI KDRD2L).....	266.96	37.62
22 51 23 00-0172 EA 40 HP, 480 Volt, Line Reactor (TCI KDRC1L).....	290.52	39.60
22 51 23 00-0173 EA Models 04 To 30, 304 SS Metric To English Conduit Adaptor Kit.....	47.53	
22 51 23 00-0174 EA Models 32 To 46, 304 SS Metric To English Conduit Adaptor Kit.....	64.29	
22 51 23 00-0175 EA Models 60 To 74, 304 SS Metric To English Conduit Adaptor Kit.....	79.62	
22 51 23 00-0176 Pool Flow Meters (22 51 23)		
22 51 23 00-0177 EA 20 To 110 GPM, 1-1/2" Retrofit Kit FlowVis For Existing Jandy Or Praher Valve Flow Meter (H2Flow FVJ-R-15).....	92.44	17.75
22 51 23 00-0178 EA 20 To 110 GPM, 2" x 2-1/2" Retrofit Kit FlowVis For Existing Jandy® Or Praher Valve Flow Meter (H2Flow FVJ-R).....	92.44	17.75
22 51 23 00-0179 EA 20 To 110 GPM, 1-1/2" Complete FlowVis Including Valve Body Flow Meter (H2Flow FV-C-15).....	147.32	33.28
22 51 23 00-0180 EA 20 To 110 GPM, 2" x 2-1/2" Complete FlowVis Including Valve Body Flow Meter (H2Flow FV-C).....	127.93	35.51
22 51 23 00-0181 Paddlewheel Flow Sensors (22 51 23)		
22 51 23 00-0182 EA 1/2" To 4" Pipe, Polypropylene Body, Black Polyvinylidene Fluoride (PVDF) Rotor, Paddlewheel Flow Sensor (Signet 3-2536-PO).....	568.86	45.74
Note: Includes 25' of cable (extendable to 200').		
22 51 23 00-0183 EA 1/2" To 4" Pipe, Polypropylene Body, Pulse/Flow Switch DCR Output Paddlewheel Flow Sensor (Signet 3-2537-1C-PO).....	749.68	45.74
22 51 23 00-0184 EA 1/2" To 4" Pipe, Polypropylene Body, Pulse/Flow Switch SSR Output Paddlewheel Flow Sensor (Signet 3-2537-2C-PO).....	749.68	45.74
22 51 23 00-0185 EA 1/2" To 4" Pipe, Polypropylene Body, Digital Output Paddlewheel Flow Sensor (Signet 3-2537-5C-PO).....	778.00	45.74
22 51 23 00-0186 EA 1/2" To 4" Pipe, Polypropylene Body, 4 To 20 mA Output Paddlewheel Flow Sensor (Signet 3-2537-6C-PO).....	808.50	45.74
22 51 23 00-0187 EA 1/2" To 4" Pipe, Polyvinylidene Fluoride (PVDF) Body, Pulse/Flow Switch DCR Output Paddlewheel Flow Sensor (Signet 3-2537-1C-TO).....	866.23	45.74
22 51 23 00-0188 EA 1/2" To 4" Pipe, Polyvinylidene Fluoride (PVDF) Body, Pulse/Flow Switch SSR Output Paddlewheel Flow Sensor (Signet 3-2537-2C-TO).....	866.23	45.74
22 51 23 00-0189 EA 1/2" To 4" Pipe, Polyvinylidene Fluoride (PVDF) Body, Digital Output Paddlewheel Flow Sensor (Signet 3-2537-5C-TO).....	902.18	45.74
22 51 23 00-0190 EA 1/2" To 4" Pipe, Polyvinylidene Fluoride (PVDF) Body, 4 To 20 mA Output Paddlewheel Flow Sensor (Signet 3-2537-6C-TO).....	937.03	45.74
22 51 23 00-0191 EA >4" To 8" Pipe, Polypropylene Body, Black Polyvinylidene Fluoride (PVDF) Rotor, Paddlewheel Flow Sensor (Signet 3-2536-P1).....	593.91	45.74
Note: Includes 25' of cable (extendable to 200').		
22 51 23 00-0192 EA >4" To 8" Pipe, Polypropylene Body, Pulse/Flow Switch DCR Output Paddlewheel Flow Sensor (Signet 3-2537-1C-P1).....	778.00	45.74
22 51 23 00-0193 EA >4" To 8" Pipe, Polypropylene Body, Pulse/Flow Switch SSR Output Paddlewheel Flow Sensor (Signet 3-2537-2C-P1).....	778.00	45.74
22 51 23 00-0194 EA >4" To 8" Pipe, Polypropylene Body, Digital Output Paddlewheel Flow Sensor (Signet 3-2537-5C-P1).....	808.50	45.74
22 51 23 00-0195 EA >4" To 8" Pipe, Polypropylene Body, 4 To 20 mA Output Paddlewheel Flow Sensor (Signet 3-2537-6C-P1).....	836.82	45.74
22 51 23 00-0196 EA >8" Pipe, Polypropylene Body, Black Polyvinylidene Fluoride (PVDF) Rotor, Paddlewheel Flow Sensor (Signet 3-2536-P2).....	616.79	45.74
Note: Includes 25' of cable (extendable to 200').		
22 51 23 00-0197 EA 2" Pipe, Polyvinyl Chloride (PVC) Saddle Clamp For Flow Transducers (Signet PV8S020).....	192.94	
22 51 23 00-0198 EA 4" Pipe, Polyvinyl Chloride (PVC) Saddle Clamp For Flow Transducers (Signet PV8S040).....	266.83	
22 51 23 00-0199 EA 6" Pipe, Polyvinyl Chloride (PVC) Saddle Clamp For Flow Transducers (Signet PV8S060).....	328.77	
22 51 23 00-0200 EA 8" Pipe, Polyvinyl Chloride (PVC) Saddle Clamp For Flow Transducers (Signet PV8S080).....	403.75	
22 51 23 00-0201 EA 10" Pipe, Polyvinyl Chloride (PVC) Saddle Clamp For Flow Transducers (Signet PV8S100).....	532.13	
22 51 23 00-0202 EA 12" Pipe, Polyvinyl Chloride (PVC) Saddle Clamp For Flow Transducers (Signet PV8S120).....	541.77	
22 51 23 00-0203 EA 24 Volt DC, Power Supply 7.5 Watt, 300 mA (Signet 7300-7524).....	189.73	12.67
22 51 23 00-0204 EA 24 Volt DC, Power Supply 15 Watt, 600 mA (Signet 7300-1524).....	258.35	12.67
22 51 23 00-0205 EA 24 Volt DC, 30 Watt, 1.3 Amperes, Power Supply (Signet 7300-3024).....	317.17	12.67
22 51 23 00-0206 EA 24 Volt DC, 50 Watt, 2.1 Amperes, Power Supply (Signet 7300-5024).....	399.95	12.67
22 51 23 00-0207 EA 24 Volt DC, 100 Watt, 4.2 Amperes, Power Supply (Signet 7300-1024).....	552.45	12.67

22 60 Gas and Vacuum Systems For Laboratory And Healthcare



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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Facilities (22)

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities (22 60)

22 66 53 Laboratory Chemical-Waste And Vent Piping (22 66)

22 66 53 00-0001	Polypropylene Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
22 66 53 00-0002	Schedule 40 Polypropylene Acid Resistant DWV Pipe And Fuseal Fittings (22 66 53 00-0001)		
22 66 53 00-0003	Schedule 40 Polypropylene Acid Resistant DWV Pipe (22 66 53 00-0002)		
22 66 53 00-0004	LF 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	16.80	5.06
	<i>For Schedule 80, Add</i>	4.77	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	4.09	
	<i>For Work In Restricted Working Space, Add</i>	2.29	
22 66 53 00-0005	LF 2" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	20.98	5.68
	<i>For Schedule 80, Add</i>	6.45	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	5.52	
	<i>For Work In Restricted Working Space, Add</i>	2.57	
22 66 53 00-0006	LF 3" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	34.83	8.25
	<i>For Schedule 80, Add</i>	11.65	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	9.97	
	<i>For Work In Restricted Working Space, Add</i>	3.73	
22 66 53 00-0007	LF 4" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	47.95	10.74
	<i>For Schedule 80, Add</i>	16.54	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	14.16	
	<i>For Work In Restricted Working Space, Add</i>	4.84	
22 66 53 00-0008	LF 6" Schedule 40 Polypropylene Acid Resistant DWV Pipe.....	81.00	15.80
	<i>For Schedule 80, Add</i>	29.82	
	<i>For Fire Retardant Thermoplastic Pipe (Proxylene), Add</i>	25.52	
	<i>For Work In Restricted Working Space, Add</i>	7.10	
22 66 53 00-0009	Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bends (22 66 53 00-0002)		
22 66 53 00-0010	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	65.64	19.09
	<i>For Work In Restricted Working Space, Add</i>	8.59	
22 66 53 00-0011	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	83.74	25.20
	<i>For Work In Restricted Working Space, Add</i>	11.33	
22 66 53 00-0012	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	121.33	28.85
	<i>For Work In Restricted Working Space, Add</i>	12.99	
22 66 53 00-0013	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	181.49	38.16
	<i>For Work In Restricted Working Space, Add</i>	17.18	
22 66 53 00-0014	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/4 Bend.....	389.83	56.36
	<i>For Work In Restricted Working Space, Add</i>	25.36	
22 66 53 00-0015	Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bends (22 66 53 00-0002)		
22 66 53 00-0016	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	65.01	19.09
	<i>For Work In Restricted Working Space, Add</i>	8.59	
22 66 53 00-0017	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	82.07	25.20
	<i>For Work In Restricted Working Space, Add</i>	11.33	
22 66 53 00-0018	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	124.52	28.85
	<i>For Work In Restricted Working Space, Add</i>	12.99	
22 66 53 00-0019	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	149.38	38.16
	<i>For Work In Restricted Working Space, Add</i>	17.18	
22 66 53 00-0020	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal 1/8 Bend.....	340.07	56.36
	<i>For Work In Restricted Working Space, Add</i>	25.36	
22 66 53 00-0021	Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0022	EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	107.18	40.83
	<i>For Work In Restricted Working Space, Add</i>	18.36	
22 66 53 00-0023	EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	132.25	51.47
	<i>For Work In Restricted Working Space, Add</i>	23.15	
22 66 53 00-0024	EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	194.70	56.36
	<i>For Work In Restricted Working Space, Add</i>	25.36	
22 66 53 00-0025	EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	275.94	74.02
	<i>For Work In Restricted Working Space, Add</i>	33.29	
22 66 53 00-0026	EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Tee.....	505.64	118.40
	<i>For Work In Restricted Working Space, Add</i>	53.25	
22 66 53 00-0027	Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tees (22 66 53 00-0002)		
22 66 53 00-0028	EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	132.18	51.47
	<i>For Work In Restricted Working Space, Add</i>	23.15	
22 66 53 00-0029	EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee.....	187.01	56.36
	<i>For Work In Restricted Working Space, Add</i>	25.36	

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0030 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	180.17 25.36	56.36
22 66 53 00-0031 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	258.40 33.29	74.02
22 66 53 00-0032 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	265.02 33.29	74.02
22 66 53 00-0033 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Sanitary Tee..... <i>For Work In Restricted Working Space, Add</i>	456.81 53.25	118.40
22 66 53 00-0034 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tees With Plug <small>(22 66 53 00-0002)</small>		
22 66 53 00-0035 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	129.62 18.36	40.83
22 66 53 00-0036 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	137.68 23.15	51.47
22 66 53 00-0037 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	211.31 25.36	56.36
22 66 53 00-0038 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	283.60 33.29	74.02
22 66 53 00-0039 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Cleanout Tee With Plug..... <i>For Work In Restricted Working Space, Add</i>	410.95 53.25	118.40
22 66 53 00-0040 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0041 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	119.78 18.36	40.83
22 66 53 00-0042 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	143.92 23.15	51.47
22 66 53 00-0043 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	201.65 25.36	56.36
22 66 53 00-0044 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	281.70 33.29	74.02
22 66 53 00-0045 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Wye..... <i>For Work In Restricted Working Space, Add</i>	610.99 53.25	118.40
22 66 53 00-0046 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wyes <small>(22 66 53 00-0002)</small>		
22 66 53 00-0047 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	159.34 23.15	51.47
22 66 53 00-0048 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	193.74 25.36	56.36
22 66 53 00-0049 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	193.74 25.36	56.36
22 66 53 00-0050 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	274.87 33.29	74.02
22 66 53 00-0051 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	274.87 33.29	74.02
22 66 53 00-0052 EA 6" x 6" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	520.24 53.25	118.40
22 66 53 00-0053 EA 6" x 6" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	525.56 53.25	118.40
22 66 53 00-0054 EA 6" x 6" x 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Reducing Wye..... <i>For Work In Restricted Working Space, Add</i>	459.04 53.25	118.40
22 66 53 00-0055 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Crosses <small>(22 66 53 00-0002)</small>		
22 66 53 00-0056 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	148.58 22.96	51.03
22 66 53 00-0057 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	182.81 28.94	64.35
22 66 53 00-0058 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	278.38 31.70	70.47
22 66 53 00-0059 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	397.32 41.60	92.48
22 66 53 00-0060 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Sanitary Cross..... <i>For Work In Restricted Working Space, Add</i>	736.27 66.57	147.96
22 66 53 00-0061 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bends <small>(22 66 53 00-0002)</small>		
22 66 53 00-0062 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	103.07 18.36	40.83
22 66 53 00-0063 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	138.34 23.15	51.47
22 66 53 00-0064 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	162.78 25.36	56.36
22 66 53 00-0065 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	232.65 33.29	74.02
22 66 53 00-0066 EA 2" x 2" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend..... <i>For Work In Restricted Working Space, Add</i>	120.14 23.15	51.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0067 EA 3" x 3" x 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	155.46 25.36	56.36
22 66 53 00-0068 EA 3" x 3" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	158.40 25.36	56.36
22 66 53 00-0069 EA 4" x 4" x 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	221.76 33.29	74.02
22 66 53 00-0070 EA 4" x 4" x 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Combination Wye And 1/8 Bend <i>For Work In Restricted Working Space, Add</i>	223.62 33.29	74.02
22 66 53 00-0071 Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Traps (22 66 53 00-0002)		
22 66 53 00-0072 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	123.51 21.30	47.40
22 66 53 00-0073 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	165.67 28.03	62.31
22 66 53 00-0074 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	268.89 38.04	84.59
22 66 53 00-0075 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal P-Trap <i>For Work In Restricted Working Space, Add</i>	400.16 48.41	107.67
22 66 53 00-0076 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapters (22 66 53 00-0002)		
22 66 53 00-0077 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	63.90 8.59	19.09
22 66 53 00-0078 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	74.52 11.33	25.20
22 66 53 00-0079 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	88.78 12.99	28.85
22 66 53 00-0080 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	122.81 17.18	38.16
22 66 53 00-0081 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Hub Adapter <i>For Work In Restricted Working Space, Add</i>	182.70 25.36	56.36
22 66 53 00-0082 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapters (22 66 53 00-0002)		
22 66 53 00-0083 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	59.47 8.59	19.09
22 66 53 00-0084 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	77.87 11.33	25.20
22 66 53 00-0085 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	94.91 12.99	28.85
22 66 53 00-0086 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Mechanical Joint Adapter <i>For Work In Restricted Working Space, Add</i>	128.83 17.18	38.16
22 66 53 00-0087 Schedule 40 Polypropylene Acid Resistant DWV Fuseal Couplings (22 66 53 00-0002)		
22 66 53 00-0088 EA 1-1/2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	53.97 8.59	19.09
22 66 53 00-0089 EA 2" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	67.98 11.33	25.20
22 66 53 00-0090 EA 3" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	79.97 12.99	28.85
22 66 53 00-0091 EA 4" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	105.75 17.18	38.16
22 66 53 00-0092 EA 6" Schedule 40 Polypropylene Acid Resistant DWV Fuseal Coupling <i>For Work In Restricted Working Space, Add</i>	155.01 25.36	56.36
22 66 53 00-0093 Bell And Spigot High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings (22 66 53)		
Note: Acid resistant. ASTM A518.		
22 66 53 00-0094 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe (22 66 53 00-0093)		
22 66 53 00-0095 LF 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	86.60	7.90
22 66 53 00-0096 LF 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	121.85	9.85
22 66 53 00-0097 LF 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	165.74	11.36
22 66 53 00-0098 LF 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	272.49	16.27
22 66 53 00-0099 LF 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	480.34	21.74
22 66 53 00-0100 LF 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	848.95	27.42
22 66 53 00-0101 LF 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	1,513.24	36.93
22 66 53 00-0102 LF 15" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe	2,694.13	42.35
22 66 53 00-0103 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Fittings (22 66 53 00-0093)		
22 66 53 00-0104 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweeps (22 66 53 00-0103)		
22 66 53 00-0105 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	346.93	67.28
22 66 53 00-0106 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	453.20	74.02
22 66 53 00-0107 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep	735.34	88.58

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0108 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	1,097.39	107.49
22 66 53 00-0109 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	2,517.08	174.69
22 66 53 00-0110 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends (22 66 53 00-0103)		
22 66 53 00-0111 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	202.68	67.28
22 66 53 00-0112 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	263.69	74.02
22 66 53 00-0113 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	330.86	88.58
22 66 53 00-0114 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	873.94	107.49
22 66 53 00-0115 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	1,978.81	174.69
22 66 53 00-0116 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	3,003.10	217.65
22 66 53 00-0117 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	4,407.51	261.74
22 66 53 00-0118 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends (22 66 53 00-0103)		
22 66 53 00-0119 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	202.68	67.28
22 66 53 00-0120 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	263.69	74.02
22 66 53 00-0121 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	330.86	88.58
22 66 53 00-0122 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	642.00	107.49
22 66 53 00-0123 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	1,679.00	174.69
22 66 53 00-0124 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	2,451.97	217.65
22 66 53 00-0125 EA 12" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	3,474.53	261.74
22 66 53 00-0126 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends (22 66 53 00-0103)		
22 66 53 00-0127 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	202.68	67.28
22 66 53 00-0128 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	263.69	74.02
22 66 53 00-0129 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	330.65	88.49
22 66 53 00-0130 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweeps (22 66 53 00-0103)		
22 66 53 00-0131 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	276.22	67.28
22 66 53 00-0132 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	487.14	74.02
22 66 53 00-0133 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Short Sweep.....	545.83	88.58
22 66 53 00-0134 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tees (22 66 53 00-0103)		
22 66 53 00-0135 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	286.72	100.65
22 66 53 00-0136 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	359.62	111.57
22 66 53 00-0137 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	499.58	133.22
22 66 53 00-0138 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	836.17	161.54
22 66 53 00-0139 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	2,545.70	262.26
22 66 53 00-0140 EA 10" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Tee.....	3,612.12	327.47
22 66 53 00-0141 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tees (22 66 53 00-0103)		
22 66 53 00-0142 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	269.13	96.48
22 66 53 00-0143 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	313.72	103.58
22 66 53 00-0144 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	350.25	107.21
22 66 53 00-0145 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	400.96	118.40
22 66 53 00-0146 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	429.25	122.12
22 66 53 00-0147 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	471.34	125.77
22 66 53 00-0148 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	591.89	139.78
22 66 53 00-0149 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	656.23	143.37
22 66 53 00-0150 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Sanitary Tee.....	733.98	149.97
22 66 53 00-0151 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tees (22 66 53 00-0103)		
22 66 53 00-0152 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	326.27	100.65
22 66 53 00-0153 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	393.12	111.30
22 66 53 00-0154 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Tee.....	536.31	133.22
22 66 53 00-0155 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tees (22 66 53 00-0103)		
22 66 53 00-0156 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	308.70	96.48
22 66 53 00-0157 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	384.94	107.75
22 66 53 00-0158 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	463.71	122.49
22 66 53 00-0159 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Tee.....	497.36	126.12
22 66 53 00-0160 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wyes (22 66 53 00-0103)		
22 66 53 00-0161 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	284.07	100.82
22 66 53 00-0162 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	390.73	111.57
22 66 53 00-0163 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	499.42	133.13
22 66 53 00-0164 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye.....	840.89	160.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0165 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Wye	3,184.53	262.00
22 66 53 00-0166 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0103)</small>		
22 66 53 00-0167 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	291.73	96.48
22 66 53 00-0168 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	313.68	103.58
22 66 53 00-0169 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	331.39	107.84
22 66 53 00-0170 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	369.85	118.40
22 66 53 00-0171 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	384.20	122.30
22 66 53 00-0172 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	460.59	126.12
22 66 53 00-0173 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	622.80	139.95
22 66 53 00-0174 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	738.25	143.37
22 66 53 00-0175 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	770.75	149.97
22 66 53 00-0176 EA 8" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	1,875.42	211.36
22 66 53 00-0177 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	2,024.47	218.35
22 66 53 00-0178 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Wye	2,473.91	229.52
22 66 53 00-0179 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0180 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	337.52	100.65
22 66 53 00-0181 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	401.60	111.30
22 66 53 00-0182 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	592.88	133.22
22 66 53 00-0183 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend	914.74	161.10
22 66 53 00-0184 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0103)</small>		
22 66 53 00-0185 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	280.42	96.48
22 66 53 00-0186 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	324.99	103.58
22 66 53 00-0187 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	359.48	107.75
22 66 53 00-0188 EA 4" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	389.65	118.40
22 66 53 00-0189 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	449.57	122.49
22 66 53 00-0190 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	508.62	126.04
22 66 53 00-0191 EA 6" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	659.51	139.95
22 66 53 00-0192 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	820.34	143.46
22 66 53 00-0193 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend	898.40	150.23
22 66 53 00-0194 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducers <small>(22 66 53 00-0103)</small>		
22 66 53 00-0195 EA 2" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	174.19	63.38
22 66 53 00-0196 EA 3" x 1-1/2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	190.80	66.92
22 66 53 00-0197 EA 3" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	213.10	70.47
22 66 53 00-0198 EA 4" x 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	340.60	78.11
22 66 53 00-0199 EA 4" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	357.25	81.75
22 66 53 00-0200 EA 6" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	389.04	89.68
22 66 53 00-0201 EA 6" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	503.96	96.53
22 66 53 00-0202 EA 8" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	730.99	131.05
22 66 53 00-0203 EA 8" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Reducer	778.76	142.13
22 66 53 00-0204 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increasers <small>(22 66 53 00-0103)</small>		
22 66 53 00-0205 EA 2" x 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	465.14	147.96
22 66 53 00-0206 EA 2" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	612.22	147.96
22 66 53 00-0207 EA 3" x 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	625.42	147.96
22 66 53 00-0208 EA 4" x 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Sanitary Increaser	709.91	199.99
22 66 53 00-0209 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00-0103)</small>		
22 66 53 00-0210 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	513.81	67.28
22 66 53 00-0211 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	620.08	74.02
22 66 53 00-0212 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	755.14	88.58
22 66 53 00-0213 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV P-Trap	2,223.13	107.49
22 66 53 00-0214 Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hubs <small>(22 66 53 00-0103)</small>		
22 66 53 00-0215 EA 2" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	256.42	67.28
22 66 53 00-0216 EA 3" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	323.09	74.02
22 66 53 00-0217 EA 4" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	444.00	88.58
22 66 53 00-0218 EA 6" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	573.65	107.49
22 66 53 00-0219 EA 8" Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Double Hub	1,113.04	149.97

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0220	Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0093)</small>	
Note: Labor costs for installation of lead and oakum are included in the installation costs for fittings.		
22 66 53 00-0221 LB Lead (1 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings.....	5.18	
22 66 53 00-0222 LB Seal-Tite Packing (1/8 LB/Diameter Inch) Joint Material For Bell And Spigot High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings	51.86	
22 66 53 00-0223	Mechanical Joint High Silicon Iron Alloy Acid Resistant Drain-Waste-Vent (DWV) Pipe And Fittings <small>(22 66 53)</small>	
Note: ASTM A518.		
22 66 53 00-0224	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe <small>(22 66 53 00-0223)</small>	
22 66 53 00-0225 LF 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	68.69	5.95
22 66 53 00-0226 LF 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	78.17	6.57
22 66 53 00-0227 LF 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	107.81	8.25
22 66 53 00-0228 LF 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe.....	135.95	9.59
22 66 53 00-0229	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Fittings <small>(22 66 53 00-0223)</small>	
22 66 53 00-0230	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweeps <small>(22 66 53 00-0229)</small>	
22 66 53 00-0231 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep	254.54	47.13
22 66 53 00-0232 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	275.05	53.25
22 66 53 00-0233 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	376.57	58.76
22 66 53 00-0234 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Long Sweep.....	454.41	71.00
22 66 53 00-0235	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bends <small>(22 66 53 00-0229)</small>	
22 66 53 00-0236 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	144.23	47.13
22 66 53 00-0237 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	172.39	52.72
22 66 53 00-0238 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	221.30	58.94
22 66 53 00-0239 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	289.56	70.47
22 66 53 00-0240 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/4 Bend.....	167.99	49.79
22 66 53 00-0241	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bends <small>(22 66 53 00-0229)</small>	
22 66 53 00-0242 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	144.23	47.13
22 66 53 00-0243 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	172.39	52.72
22 66 53 00-0244 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	221.30	58.94
22 66 53 00-0245 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/8 Bend.....	289.56	70.47
22 66 53 00-0246	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bends <small>(22 66 53 00-0229)</small>	
22 66 53 00-0247 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	169.69	47.13
22 66 53 00-0248 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	211.99	52.72
22 66 53 00-0249 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	325.95	58.94
22 66 53 00-0250 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/6 Bend.....	365.93	70.47
22 66 53 00-0251	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bends <small>(22 66 53 00-0229)</small>	
22 66 53 00-0252 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	164.03	47.13
22 66 53 00-0253 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	195.02	52.72
22 66 53 00-0254 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	300.50	58.94
22 66 53 00-0255 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV 1/16 Bend.....	340.47	70.47
22 66 53 00-0256	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bends <small>(22 66 53 00-0229)</small>	
22 66 53 00-0257 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Branch 1/4 Bend.....	247.75	70.91
22 66 53 00-0258	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tees <small>(22 66 53 00-0229)</small>	
22 66 53 00-0259 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	202.50	70.91
22 66 53 00-0260 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	249.87	79.88
22 66 53 00-0261 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	328.64	89.02
22 66 53 00-0262 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Straight Tee.....	496.35	106.60
22 66 53 00-0263	Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tees <small>(22 66 53 00-0229)</small>	
22 66 53 00-0264 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	234.05	76.86
22 66 53 00-0265 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	285.46	82.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0266 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Sanitary Reducing Tee.....	304.00	85.82
22 66 53 00-0267 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	325.78	94.71
22 66 53 00-0268 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	358.15	97.36
22 66 53 00-0269 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Reducing Tee.....	388.03	100.29
22 66 53 00-0270 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0271 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	202.85	71.18
22 66 53 00-0272 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	238.56	79.88
22 66 53 00-0273 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	317.32	89.02
22 66 53 00-0274 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Wye.....	496.35	106.60
22 66 53 00-0275 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0276 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	226.16	77.31
22 66 53 00-0277 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	276.96	82.81
22 66 53 00-0278 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	290.25	86.09
22 66 53 00-0279 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	326.22	94.97
22 66 53 00-0280 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	358.95	97.90
22 66 53 00-0281 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Wye.....	379.91	100.56
22 66 53 00-0282 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wyes <small>(22 66 53 00-0229)</small>		
22 66 53 00-0283 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	303.34	94.79
22 66 53 00-0284 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	386.16	106.69
22 66 53 00-0285 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	493.74	118.05
22 66 53 00-0286 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	642.72	141.92
22 66 53 00-0287 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	334.40	100.38
22 66 53 00-0288 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	374.37	106.33
22 66 53 00-0289 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	445.45	112.18
22 66 53 00-0290 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	491.72	124.26
22 66 53 00-0291 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Wye.....	591.68	130.56
22 66 53 00-0292 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Crosses <small>(22 66 53 00-0229)</small>		
22 66 53 00-0293 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	337.23	94.79
22 66 53 00-0294 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	397.27	106.51
22 66 53 00-0295 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	568.28	118.66
22 66 53 00-0296 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	792.85	142.10
22 66 53 00-0297 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	362.64	100.38
22 66 53 00-0298 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	473.33	106.33
22 66 53 00-0299 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	499.13	112.18
22 66 53 00-0300 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	534.09	124.17
22 66 53 00-0301 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Sanitary Cross.....	678.67	130.03
22 66 53 00-0302 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0303 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	224.78	70.65
22 66 53 00-0304 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	261.18	79.88
22 66 53 00-0305 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	317.32	89.02
22 66 53 00-0306 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Wye And 1/8 Bend.....	527.46	106.60
22 66 53 00-0307 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0308 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	248.27	76.95
22 66 53 00-0309 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	277.31	83.08
22 66 53 00-0310 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	301.57	86.09
22 66 53 00-0311 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	408.25	94.97
22 66 53 00-0312 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	418.35	97.90
22 66 53 00-0313 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Combination Wye And 1/8 Bend.....	467.59	100.56
22 66 53 00-0314 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0315 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	356.83	94.62
22 66 53 00-0316 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	448.11	106.42
22 66 53 00-0317 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	644.01	118.31
22 66 53 00-0318 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Double Combination Wye And 1/8 Bend.....	773.50	142.37

22 Plumbing**22 60 Gas and Vacuum Systems For Laboratory And Healthcare Facilities**

22 66 Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0319 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0320 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	388.09	100.38
22 66 53 00-0321 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	464.83	106.24
22 66 53 00-0322 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	484.99	112.18
22 66 53 00-0323 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	539.75	124.17
22 66 53 00-0324 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducing Double Combination Wye And 1/8 Bend	678.67	130.03
22 66 53 00-0325 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducers-Increasers <small>(22 66 53 00-0229)</small>		
22 66 53 00-0326 EA 2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	168.75	50.33
22 66 53 00-0327 EA 3" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	190.15	53.25
22 66 53 00-0328 EA 3" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	223.26	62.13
22 66 53 00-0329 EA 4" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	263.86	59.02
22 66 53 00-0330 EA 4" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	279.60	61.95
22 66 53 00-0331 EA 4" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Reducer-Increaser	295.33	64.89
22 66 53 00-0332 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tees <small>(22 66 53 00-0229)</small>		
22 66 53 00-0333 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	155.47	41.45
22 66 53 00-0334 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	180.58	46.87
22 66 53 00-0335 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	212.46	53.07
22 66 53 00-0336 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Combination Cleanout And Test Tee	385.41	64.61
22 66 53 00-0337 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plugs <small>(22 66 53 00-0229)</small>		
22 66 53 00-0338 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	69.29	23.61
22 66 53 00-0339 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	81.95	26.36
22 66 53 00-0340 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	89.44	29.47
22 66 53 00-0341 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe Plug	115.09	35.23
22 66 53 00-0342 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Traps <small>(22 66 53 00-0229)</small>		
22 66 53 00-0343 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	282.41	46.87
22 66 53 00-0344 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	291.19	52.72
22 66 53 00-0345 EA 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	359.90	58.94
22 66 53 00-0346 EA 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV P-Trap	459.27	70.47
22 66 53 00-0347 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	392.31	50.42
22 66 53 00-0348 EA 2" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	539.79	56.27
22 66 53 00-0349 EA 3" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	653.16	62.13
22 66 53 00-0350 EA 4" Mechanical Joint High Silicon Iron Alloy Running Acid Resistant DWV P-Trap	812.40	74.02
22 66 53 00-0351 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum Traps <small>(22 66 53 00-0229)</small>		
22 66 53 00-0352 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap	524.27	53.52
22 66 53 00-0353 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum P-Trap	827.00	59.20
22 66 53 00-0354 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap	546.59	53.25
22 66 53 00-0355 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Centrifugal Drum S-Trap	827.00	59.20
22 66 53 00-0356 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Traps <small>(22 66 53 00-0229)</small>		
22 66 53 00-0357 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	487.19	53.25
22 66 53 00-0358 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Short P-Trap	572.43	59.20
22 66 53 00-0359 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long P-Trap	563.56	53.25
22 66 53 00-0360 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap	1,237.13	59.20
22 66 53 00-0361 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Swivel Type Long S-Trap	736.48	59.20
22 66 53 00-0362 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bends <small>(22 66 53 00-0229)</small>		
22 66 53 00-0363 EA 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend	203.94	47.40
22 66 53 00-0364 EA 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Return Bend	266.56	53.25
22 66 53 00-0365 Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapters <small>(22 66 53 00-0229)</small>		
22 66 53 00-0366 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	104.16	35.51
22 66 53 00-0367 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	190.63	38.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
22 66 53 00-0368 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Threaded Adapter	140.11	44.38
22 66 53 00-0369 Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter <small>(22 66 53 00-0229)</small>		
22 66 53 00-0370 EA 1-1/2" x 1-1/2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	194.56	50.50
22 66 53 00-0371 EA 1-1/2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	212.78	53.25
22 66 53 00-0372 EA 1-1/2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	237.01	56.18
22 66 53 00-0373 EA 1-1/2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	254.14	61.95
22 66 53 00-0374 EA 2" x 2" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	237.05	56.27
22 66 53 00-0375 EA 2" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	249.93	59.20
22 66 53 00-0376 EA 2" x 4" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	269.88	64.89
22 66 53 00-0377 EA 3" x 3" Mechanical Joint High Silicon Iron Alloy Acid Resistant Hub To Mechanical Joint Adapter	305.33	62.13
22 66 53 00-0378 EA 4" x 4" Mechanical Joint High Silicon Iron Alloy Hub To Mechanical Joint Adapter	376.83	74.02
22 66 53 00-0379 Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fittings <small>(22 66 53 00-0229)</small>		
22 66 53 00-0380 EA 1-1/2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	67.88	
22 66 53 00-0381 EA 2" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	79.20	
22 66 53 00-0382 EA 3" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	84.85	
22 66 53 00-0383 EA 4" Mechanical Joint Couplings For Mechanical Joint High Silicon Iron Alloy Acid Resistant DWV Pipe And Fitting	93.34	
22 66 53 00-0384 Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Fittings <small>(22 66 53 00-0229)</small>		
22 66 53 00-0385 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Outlet	502.21	23.69
22 66 53 00-0386 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Stopper	190.29	11.80
22 66 53 00-0387 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sink Overflow	354.34	11.80
22 66 53 00-0388 Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drains With Stainless Steel Strainer Plates <small>(22 66 53 00-0229)</small>		
22 66 53 00-0389 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain With Stainless Steel Strainer	1,801.07	118.40
22 66 53 00-0390 EA Mechanical Joint High Silicon Iron Alloy Acid Resistant Sediment Basin Floor Drain With Stainless Steel Strainer	2,222.89	124.35
22 66 53 00-0391 EA Stainless Steel Funnel Attachment For Mechanical Joint High Silicon Iron Alloy Acid Resistant Floor Drain	1,494.22	11.80
22 66 83 Chemical-Waste Tanks <small>(22 66)</small>		
22 66 83 16 Chemical-Waste Neutralization Tanks <small>(22 66 83)</small>		
22 66 83 16-0001 Acid Neutralization Tank <small>(22 66 83 16)</small>		
22 66 83 16-0002 Polyethylene Acid Neutralization Tank <small>(22 66 83 16-0001)</small>		
22 66 83 16-0003 EA 5 Gallon Capacity Polyethylene Acid Neutralization Tank	428.03	180.72
22 66 83 16-0004 EA 15 Gallon Capacity Polyethylene Acid Neutralization Tank	766.03	250.60
22 66 83 16-0005 EA 30 Gallon Capacity Polyethylene Acid Neutralization Tank	958.94	361.44
22 66 83 16-0006 EA 55 Gallon Capacity Polyethylene Acid Neutralization Tank	1,233.32	481.91
22 66 83 16-0007 EA 100 Gallon Capacity Polyethylene Acid Neutralization Tank	1,578.57	578.30
22 66 83 16-0008 EA 150 Gallon Capacity Polyethylene Acid Neutralization Tank	2,150.14	722.87
22 66 83 16-0009 EA 200 Gallon Capacity Polyethylene Acid Neutralization Tank	2,490.88	903.59
22 66 83 16-0010 EA 275 Gallon Capacity Polyethylene Acid Neutralization Tank	3,222.88	1,084.31
22 66 83 16-0011 EA 350 Gallon Capacity Polyethylene Acid Neutralization Tank	3,667.92	1,301.16
22 66 83 16-0012 Polypropylene Acid Neutralization Tank <small>(22 66 83 16-0001)</small>		
22 66 83 16-0013 EA 5 Gallon Capacity Polypropylene Acid Neutralization Tank	689.93	180.72
22 66 83 16-0014 EA 15 Gallon Capacity Polypropylene Acid Neutralization Tank	1,180.70	250.60
22 66 83 16-0015 EA 30 Gallon Capacity Polypropylene Acid Neutralization Tank	1,661.77	361.44
22 66 83 16-0016 EA 55 Gallon Capacity Polypropylene Acid Neutralization Tank	2,191.53	481.91
22 66 83 16-0017 EA 100 Gallon Capacity Polypropylene Acid Neutralization Tank	2,763.30	578.30
22 66 83 16-0018 EA 150 Gallon Capacity Polypropylene Acid Neutralization Tank	3,562.49	722.87
22 66 83 16-0019 EA 200 Gallon Capacity Polypropylene Acid Neutralization Tank	3,897.01	903.59
22 66 83 16-0020 EA 275 Gallon Capacity Polypropylene Acid Neutralization Tank	5,678.14	1,084.31
22 66 83 16-0021 EA 350 Gallon Capacity Polypropylene Acid Neutralization Tank	6,155.91	1,301.16
22 66 83 16-0022 Chemical Dilution Trap <small>(22 66 83 16)</small>		
22 66 83 16-0023 EA 1 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	334.09	60.24
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0024 EA 1-1/2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	343.82	60.24
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0025 EA 2 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	353.54	60.24
Note: 1-1/2" top inlet and side outlet with anti siphon.		
22 66 83 16-0026 EA 5 Gallon Capacity Polyethylene Under Bench Chemical Dilution Trap	390.50	72.29
Note: 1-1/2" top inlet and side outlet with anti siphon.		

22	22	Plumbing
	22 60	Gas and Vacuum Systems For Laboratory And Healthcare Facilities
	22 66	Chemical-Waste Systems for Laboratory and Healthcare Facilities



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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END OF SECTION 22

NOT FOR BID



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 Heating, Ventilating, And Air-Conditioning (HVAC)

Note: Where required, mechanical equipment excludes electrical connection unless title states otherwise. HVAC equipment shall conform to California Title 24.

23 01 Operation and Maintenance of HVAC Systems ⁽²³⁾

23 01 10 Operation and Maintenance of Facility Fuel Systems ^(23 01)

23 01 10 91 Facility Fuel Systems Restoration ^(23 01 10)

23 01 10 91-0001 Purge Gas Systems ^(23 01 10 91)

Note: Includes collection and refilling/bleeding of system. For natural gas, flammable gases and other gases that should not be released inside the building. See CSI section 23 01 60 71-0001 for refrigerant.

23 01 10 91-0002	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Gas Systems	445.06
23 01 10 91-0003	EA	>100' To 250', Up To 1-1/2" Diameter Pipe, Purge Gas Systems	635.55
23 01 10 91-0004	EA	>250' To 500', Up To 1-1/2" Diameter Pipe, Purge Gas Systems	667.13
23 01 10 91-0005	EA	>500' To 1,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems	735.19
23 01 10 91-0006	EA	>1,000' To 2,000', Up To 1-1/2" Diameter Pipe, Purge Gas Systems	1,331.28
23 01 10 91-0007	EA	Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems	597.50
23 01 10 91-0008	EA	>100' To 250', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems	857.53
23 01 10 91-0009	EA	>250' To 500', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems	905.59
23 01 10 91-0010	EA	>500' To 1,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems	1,008.88
23 01 10 91-0011	EA	>1,000' To 2,000', >1-1/2" To 4" Diameter Pipe, Purge Gas Systems	1,832.29
23 01 10 91-0012	EA	Up To 100', >4" To 10" Diameter Pipe, Purge Gas Systems	703.12
23 01 10 91-0013	EA	>100' To 250', >4" To 10" Diameter Pipe, Purge Gas Systems	1,028.70
23 01 10 91-0014	EA	>250' To 500', >4" To 10" Diameter Pipe, Purge Gas Systems	2,381.85
23 01 10 91-0015	EA	>500' To 1,000', >4" To 10" Diameter Pipe, Purge Gas Systems	3,707.08
23 01 10 91-0016	EA	>1,000' To 2,000', >4" To 10" Diameter Pipe, Purge Gas Systems	6,959.36

23 01 20 Operation and Maintenance of HVAC Piping and Pumps ^(23 01)

23 01 20 91 HVAC Piping And Pumps Restoration ^(23 01 20)

23 01 20 91-0001 Lock Out/Tag Out System ^(23 01 20 91)

23 01 20 91-0002	EA	Up To 1", Lock Out/Tag Out Valve	24.10
23 01 20 91-0003	EA	>1" To 3", Lock Out/Tag Out Valve	28.91
23 01 20 91-0004	EA	>3" To 6", Lock Out/Tag Out Valve	33.73
23 01 20 91-0005	EA	>6" To 10", Lock Out/Tag Out Valve	38.55
23 01 20 91-0006	EA	>10" To 14", Lock Out/Tag Out Valve	48.19
23 01 20 91-0007	EA	Lock Out/Tag Out Padlock System	19.28
23 01 20 91-0008	EA	Lock Out/Tag Out Tag	2.82

23 01 20 91-0009 Freeze Pipe Using CO2 Kit ^(23 01 20 91)

Note: For use on chilled water or cold water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0010	EA	Up To 2" Freeze Pipe Using CO2 Kit	130.47
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23 01 20 91-0011 Freeze Pipe Using Nitrogen ^(23 01 20 91)

Note: For use on any water piping systems. Excludes cutting existing pipe, and installation of valve or fittings.

23 01 20 91-0012	EA	Up To 4" Pipe Freezing Using Nitrogen	1,191.71
23 01 20 91-0013	EA	>4" To 12" Pipe Freezing Using Nitrogen	2,383.43

23 01 20 91-0014 Water/Chlorine Pipe Disinfection/Flush/Testing ^(23 01 20 91)

Note: For existing piping when required. Water/chlorine solution per specification entitled "Water Distribution".

23 01 20 91-0015	LF	Up To 1", Water/Chlorine Pipe Disinfection/Flush/Testing	1.59
23 01 20 91-0016	LF	>1" To 2", Water/Chlorine Pipe Disinfection/Flush/Testing	2.18
23 01 20 91-0017	LF	>2" To 3", Water/Chlorine Pipe Disinfection/Flush/Testing	3.34
23 01 20 91-0018	LF	4", Water/Chlorine Pipe Disinfection/Flush/Testing	4.59
23 01 20 91-0019	LF	6", Water/Chlorine Pipe Disinfection/Flush/Testing	5.65
23 01 20 91-0020	LF	8", Water/Chlorine Pipe Disinfection/Flush/Testing	7.15
23 01 20 91-0021	LF	10", Water/Chlorine Pipe Disinfection/Flush/Testing	9.43
23 01 20 91-0022	LF	12", Water/Chlorine Pipe Disinfection/Flush/Testing	11.30

23 01 20 91-0023 Shut Down Existing Piping System ^(23 01 20 91)

23 01 20 91-0024	EA	Shut Down Existing Interior Piping System	194.69
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Note: Includes lock out/tag out and average line tracing. Use when valves are greater than 25' from work. When the shut-off valves for multiple lines are located with a 10' radius, the quantity used shall be one.

23 01 20 91-0025 Purge Liquid Systems ^(23 01 20 91)

Note: Includes collection of liquid, refilling with liquid and bleeding of air from system.

23 01 20 91-0026	EA	Up To 100', Up To 1-1/2" Diameter Pipe, Purge Liquid System	317.24
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23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 01 Operation and Maintenance of HVAC Systems****23 01 20 Operation and Maintenance of HVAC Piping and Pumps**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 01 20 91-0027	EA	>100 To 250', Up To 1-1/2" Diameter Pipe, Purge Liquid System	453.08
23 01 20 91-0028	EA	>250 To 500', Up To 1-1/2" Diameter Pipe, Purge Liquid System	542.88
23 01 20 91-0029	EA	>500 To 1,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System	573.90
23 01 20 91-0030	EA	>1,000 To 2,000', Up To 1-1/2" Diameter Pipe, Purge Liquid System.....	1,095.63
23 01 20 91-0031	EA	Up To 100', >1-1/2" To 4" Diameter Pipe, Purge Liquid System	422.28
23 01 20 91-0032	EA	>100 To 250', 1-1/2" To 4" Diameter Pipe, Purge Liquid System	602.59
23 01 20 91-0033	EA	>250 To 500', 1-1/2" To 4" Diameter Pipe, Purge Liquid System.....	717.37
23 01 20 91-0034	EA	>500 To 1,000', 1-1/2" To 4" Diameter Pipe, Purge Liquid System.....	762.77
23 01 20 91-0035	EA	>1,000 To 2,000', 1-1/2" To 4" Diameter Pipe, Purge Liquid System.....	1,469.74
23 01 20 91-0036	EA	Up To 100', >4" To 10" Diameter Pipe, Purge Liquid System	520.60
23 01 20 91-0037	EA	>100 To 250', >4" To 10" Diameter Pipe, Purge Liquid System.....	743.94
23 01 20 91-0038	EA	>250 To 500', >4" To 10" Diameter Pipe, Purge Liquid System.....	2,053.93
23 01 20 91-0039	EA	>1,000 To 2,000', >4" To 10" Diameter Pipe, Purge Liquid System.....	3,259.49

23 01 20 91-0040 Add-A-Valve Emergency Shut Off Device (23 01 20 91)

23 01 20 91-0041	EA	1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-103ADD).....	237.75
23 01 20 91-0042	EA	3/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-104ADD).....	298.73
23 01 20 91-0043	EA	1" Add-A-Valve Emergency Shut Off Device (Jomar 800-105ADD).....	411.21
23 01 20 91-0044	EA	1-1/4" Add-A-Valve Emergency Shut Off Device (Jomar 800-106ADD).....	623.50
23 01 20 91-0045	EA	1-1/2" Add-A-Valve Emergency Shut Off Device (Jomar 800-107ADD).....	767.99
23 01 20 91-0046	EA	2" Add-A-Valve Emergency Shut Off Device (Jomar 800-108ADD).....	1,152.32

23 01 30 Operation and Maintenance of HVAC Air Distribution (23 01)**23 01 30 51 HVAC Air-Distribution System Cleaning (23 01 30)****23 01 30 51-0001 Special Cleaning Of Ductwork (23 01 30 51)**

23 01 30 51-0002	LF	Up To 2 SF Cross Section, Clean Supply/Return Ductwork.....	2.83
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.			
For Exhaust Ductwork, Add			0.71
23 01 30 51-0003	LF	>2 SF To 4 SF Cross Section, Clean Supply/Return Ductwork.....	3.54
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.			
For Exhaust Ductwork, Add			0.89
23 01 30 51-0004	LF	>4 SF To 8 SF Cross Section, Clean Supply/Return Ductwork.....	4.75
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.			
For Exhaust Ductwork, Add			1.19
23 01 30 51-0005	LF	>8 SF Cross Section, Clean Supply/Return Ductwork	6.73
Note: Includes sealing registers, grilles, diffusers as required. Excludes cleaning of registers, grilles, diffusers, or other devices.			
For Exhaust Ductwork, Add			1.68
23 01 30 51-0006	SF	Clean Duct Dampers	9.54
23 01 30 51-0007	SF	Clean Duct Fire Dampers	19.07
23 01 30 51-0008	SF	Clean Louver.....	7.63
23 01 30 51-0009	EA	Clean Turning Vane Set.....	22.89
23 01 30 51-0010	EA	Clean Grille/Diffuser/Register.....	22.89
Note: Includes removal and reinstallation.			
23 01 30 51-0011	LF	Clean Linear Diffuser	5.72
Note: Includes removal and reinstallation.			
23 01 30 51-0012	EA	Cut Access For Cleaning Duct And Install Duct Insulated Access Doors.....	90.17
For Stainless Steel, Add			77.62
23 01 30 51-0013	EA	Clean Variable Air Volume (VAV) Unit	68.67
23 01 30 51-0014	EA	Clean Fan Powered Induction Unit (PIU) Unit.....	91.56
23 01 30 51-0015	EA	Clean Fan Coil Unit (FCU) Unit.....	91.56
23 01 30 51-0016	EA	Clean Supply Or Return Fan.....	183.12
23 01 30 51-0017	EA	Clean Exhaust Fan.....	160.23
23 01 30 51-0018	EA	Clean Duct Coil	137.34
23 01 30 51-0019	SF	Clean Air Handling Unit Interior Housing With High Efficiency Particulate Air (HEPA) Vacuum	4.58
Note: Excluding fan and coils.			
23 01 30 51-0020	EA	Clean Air Handling Unit Fan	183.12
23 01 30 51-0021	EA	Clean Air Handling Unit Coil.....	274.69
23 01 30 51-0022	SF	Clean Equipment Surfaces, Rust Reform And Prime.....	2.35
23 01 30 51-0023	SF	Clean Interior Equipment Surfaces, Rust Reform And Prime.....	2.81
23 01 30 51-0024	SF	High Efficiency Particulate Air (HEPA) Vacuuming Of Walls, Ceilings And Floors In Mechanical Rooms	0.57
23 01 30 51-0025	EA	Cleaning Of Ductwork Minimum Set-up Charge.....	671.99
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.			
23 01 30 51-0026	SF	Apply Antimicrobial Agent To Ductwork And Surfaces After Cleaning	0.40

23 01 30 61 HVAC Air-Distribution Duct Repair (23 01 30)**23 01 30 61-0001 Repair And Seal Ductwork (23 01 30 61)**

Note: Includes removal of existing insulation, repair/seal ductwork with Duct Sealer and reinstallation of insulation. Excludes new ductwork.			
23 01 30 61-0002	SF	Repair And Sealing Of Ductwork.....	1.59
Note: Clean, apply sealant and tape			



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 01 50 Operation and Maintenance of Central Heating Equipment (23 01)

23 01 50 61 Central Heating Equipment Repair (23 01 50)

23 01 50 61-0001 Boiler Repairs (23 01 50 61)

23 01 50 61-0002 Setup And Maintenance (23 01 50 61-0001)

23 01 50 61-0003	EA	Set-up Charge For Boiler Fire Side Maintenance Note: Includes removing/relocating doors, plates, portals, and burners required to access fireside.	2,111.57	
23 01 50 61-0004	EA	Close-up Charge For Boiler Fire Side Maintenance Note: Includes replacement of doors, plates, portals, burners, adhesive, rope, wool, and seals.	2,247.46	
		<i>For Burner Seals, Add</i>		611.16
		<i>Note: Used when burner must be removed from door for maintenance.</i>		
23 01 50 61-0005	EA	Setup Charge For Boiler Water Side Maintenance Note: Includes closing valves, draining, and positioning equipment needed for tube replacement.	2,815.43	
23 01 50 61-0006	EA	Up To 100 HP, Hydrostatic Test - Boiler Maintenance Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.	1,407.72	
23 01 50 61-0007	EA	>100 HP, Hydrostatic Test - Boiler Maintenance Note: Includes close-up charge for water side maintenance, blanking off supply, return, and relief valves for test and reconnection after test.	2,815.43	
23 01 50 61-0008	EA	Removal And Replacement Of Handhole	87.98	
23 01 50 61-0009	EA	Removal And Replacement Of Manhole	263.95	
23 01 50 61-0010	SF	Sheet Metal Jacket Patch	9.71	

23 01 50 61-0011 Boiler Tube Replacement (23 01 50 61-0001)

23 01 50 61-0012	EA	Removal Of Up To 2" Boiler Tube	211.16	
23 01 50 61-0013	EA	Removal Of >2" To 3" Boiler Tube	263.96	
23 01 50 61-0014	EA	Removal Of >3" To 4" Boiler Tube	369.52	
23 01 50 61-0015	LF	Place 1-1/2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	6.55	
23 01 50 61-0016	LF	Place 2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	7.58	
23 01 50 61-0017	LF	Place 2-1/2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	8.62	
23 01 50 61-0018	LF	Place 3" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	12.09	
23 01 50 61-0019	LF	Place 3-1/2" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	14.08	
23 01 50 61-0020	LF	Place 4" Boiler Tube Into Position For Termination Note: Includes black steel tube, fasteners and accessories.	17.84	
23 01 50 61-0021	EA	1-1/2" Rolled Boiler Tube Termination (2 Per New Tube)	26.39	
23 01 50 61-0022	EA	2" Rolled Boiler Tube Termination (2 Per New Tube)	39.59	
23 01 50 61-0023	EA	2-1/2" Rolled Boiler Tube Termination (2 Per New Tube)	52.79	
23 01 50 61-0024	EA	3" Rolled Boiler Tube Termination (2 Per New Tube)	65.99	
23 01 50 61-0025	EA	3-1/2" Rolled Boiler Tube Termination (2 Per New Tube)	79.18	
23 01 50 61-0026	EA	4" Rolled Boiler Tube Termination (2 Per New Tube)	92.38	
23 01 50 61-0027	EA	1-1/2" Welded Boiler Tube Termination (2 Per New Tube)	79.18	
23 01 50 61-0028	EA	2" Welded Boiler Tube Termination (2 Per New Tube)	105.58	
23 01 50 61-0029	EA	2-1/2" Welded Boiler Tube Termination (2 Per New Tube)	131.97	
23 01 50 61-0030	EA	3" Welded Boiler Tube Termination (2 Per New Tube)	158.37	
23 01 50 61-0031	EA	3-1/2" Welded Boiler Tube Termination (2 Per New Tube)	184.75	
23 01 50 61-0032	EA	4" Welded Boiler Tube Termination (2 Per New Tube)	211.16	
23 01 50 61-0033	EA	Plug Boiler Tube Hole Where Boiler Tube Is Not Replaced	249.04	

23 01 50 61-0034 Cast Iron Boiler Section Replacement (23 01 50 61-0001)

23 01 50 61-0035	EA	Removal And Replacement Of Front Section Of Weil McLain Model 80 Cast Iron Boiler	2,299.62	
23 01 50 61-0036	EA	Removal And Replacement Of Rear Section Of Weil McLain Model 80 Cast Iron Boiler	1,571.65	
23 01 50 61-0037	EA	Removal And Replacement Of Inside Section Of Weil McLain Model 80 Cast Iron Boiler	1,995.89	
23 01 50 61-0038	EA	Removal And Replacement Of Front Section Of Weil McLain Model 88 Cast Iron Boiler	4,213.56	
23 01 50 61-0039	EA	Removal And Replacement Of Rear Section Of Weil McLain Model 88 Cast Iron Boiler	3,086.67	
23 01 50 61-0040	EA	Removal And Replacement Of Inside Section Of Weil McLain Model 88 Cast Iron Boiler	3,632.62	
23 01 50 61-0041	EA	Removal And Replacement Of Front Section Of Weil McLain Model 94 Cast Iron Boiler	6,809.21	
23 01 50 61-0042	EA	Removal And Replacement Of Rear Section Of Weil McLain Model 94 Cast Iron Boiler	5,266.39	
23 01 50 61-0043	EA	Removal And Replacement Of Inside Section Of Weil McLain Model 94 Cast Iron Boiler	5,705.43	

23 01 50 61-0044 Cast Iron Grate Replacement (23 01 50 61-0001)

23 01 50 61-0045	SF	Removal And Replacement Of Cast Iron Boiler Grates, Prepared From Casting Mold Note: Includes support, linkages and removal of existing.	93.67	
23 01 50 61-0046	EA	Prepare Cast Iron Boiler Grate Mold Note: Includes preparing unique size mold for grate casting. Mold to be used for multiple castings.	1,244.42	

23 01 50 61-0047 Replacement Or Conversion Of Boiler Burners (23 01 50 61-0001)

		<i>Note: Includes mounting plate, mechanical and electrical labor for installation of burners.</i>		
23 01 50 61-0048	EA	700 MBH Max Input Burner With 2" Boiler Connection, Screwed	6,591.84	946.03
23 01 50 61-0049	EA	2,100 MBH Max Input Burner With 2-1/2" Boiler Connection, Screwed	9,430.33	1,171.25
23 01 50 61-0050	EA	2,800 MBH Max Input Burner With 3" Boiler Connection, Screwed	11,153.83	1,418.94
23 01 50 61-0051	EA	3,800 MBH Max Input Burner With 4" Boiler Connection, Flanged	13,095.78	1,527.12

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 01 Operation and Maintenance of HVAC Systems

23 01 50 Operation and Maintenance of Central Heating Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 01 50 61-0052			Video Inspection Of Boiler Tubing <small>(23 01 50 61-0001)</small>		
23 01 50 61-0053	EA		Initial Set Up For Boiler Tubing Video Camera Inspection	377.64	
23 01 50 61-0054	LF		Boiler Tubing Inspection.....	0.46	

23 01 50 61-0055			Boiler And Chiller Water Treatment <small>(23 01 50 61)</small>		
Note: 3 LB chemical per 50 gallon system water.					
23 01 50 61-0056	LB		Boil Out Boiler And System With Caustic Soda.....	0.97	
Note: Includes disposal after treatment.					
23 01 50 61-0057	LB		Boil Out Boiler And System With Trisodium Phosphate	1.46	
Note: Includes disposal after treatment.					
23 01 50 61-0058	GAL		Corrosion Resistant Chemical Treatment, Based On Gallons Of Chemical Required	90.97	

23 01 60 Operation and Maintenance of Central Cooling Equipment (23 01)

23 01 60 71 Refrigerant Recovery/Recycling (23 01 60)

23 01 60 71-0001			Refrigerant Recovery, Reclaim And Recycling <small>(23 01 60 71)</small>		
23 01 60 71-0002	LB		Recovery Of Refrigerant	7.55	
23 01 60 71-0003	LB		Recovery And Recharging Of Refrigerant.....	14.16	
Note: Includes cleaning refrigerant gas prior to recharging.					

23 05 Common Work Results For HVAC (23)

23 05 13 Common Motor Requirements For HVAC Equipment (23 05)

Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor.

23 05 13 00-0001			Premium Efficient, Motors <small>(23 05 13)</small>		
Note: New equipment includes motor, unless otherwise stated. For use when replacing existing motor. Excludes installation.					

23 05 13 00-0002			Premium Efficient, Open Drip Proof Motors <small>(23 05 13 00-0001)</small>		
Note: NEMA premium efficiency, open drip proof, three phase AC motors.					

23 05 13 00-0003			Steel Frame, Premium Efficient, Open Drip Proof Motors <small>(23 05 13 00-0002)</small>		
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23 05 13 00-0004	EA		1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	473.77	
23 05 13 00-0005	EA		1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	536.46	
23 05 13 00-0006	EA		1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	628.95	
23 05 13 00-0007	EA		1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	528.24	
23 05 13 00-0008	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	561.12	
23 05 13 00-0009	EA		1-1/2 HP, 1,200 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	735.83	
23 05 13 00-0010	EA		2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	620.73	
23 05 13 00-0011	EA		2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	601.20	
23 05 13 00-0012	EA		2 HP, 1,200 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	752.28	
23 05 13 00-0013	EA		3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	628.95	
23 05 13 00-0014	EA		3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	648.48	
23 05 13 00-0015	EA		3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	957.82	
23 05 13 00-0016	EA		5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	686.50	
23 05 13 00-0017	EA		5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	710.14	
23 05 13 00-0018	EA		5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,254.82	
23 05 13 00-0019	EA		7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,089.36	
23 05 13 00-0020	EA		7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,044.14	
23 05 13 00-0021	EA		7-1/2 HP, 1,200 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,504.55	
23 05 13 00-0022	EA		10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,245.57	
23 05 13 00-0023	EA		10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,264.07	
23 05 13 00-0024	EA		10 HP, 1,200 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,957.77	
23 05 13 00-0025	EA		15 HP, 3,600 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,769.70	
23 05 13 00-0026	EA		15 HP, 1,800 RPM, 254T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	1,790.25	
23 05 13 00-0027	EA		15 HP, 1,200 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,640.16	
23 05 13 00-0028	EA		20 HP, 3,600 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,079.04	
23 05 13 00-0029	EA		20 HP, 1,800 RPM, 256T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,247.58	
23 05 13 00-0030	EA		20 HP, 1,200 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,213.62	
23 05 13 00-0031	EA		25 HP, 3,600 RPM, 284TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,496.28	
23 05 13 00-0032	EA		25 HP, 1,800 RPM, 284T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,739.85	
23 05 13 00-0033	EA		25 HP, 1,200 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,881.62	
23 05 13 00-0034	EA		30 HP, 3,600 RPM, 286TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,945.39	
23 05 13 00-0035	EA		30 HP, 1,800 RPM, 286T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	2,995.75	
23 05 13 00-0036	EA		30 HP, 1,200 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,049.14	
23 05 13 00-0037	EA		40 HP, 3,600 RPM, 324TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,795.30	
23 05 13 00-0038	EA		40 HP, 1,800 RPM, 324T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	3,908.34	
23 05 13 00-0039	EA		50 HP, 3,600 RPM, 326TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,133.41	
23 05 13 00-0040	EA		50 HP, 1,800 RPM, 326T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	4,313.26	
23 05 13 00-0041	EA		60 HP, 3,600 RPM, 364TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,229.97	
23 05 13 00-0042	EA		60 HP, 1,800 RPM, 364T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	5,430.37	
23 05 13 00-0043	EA		75 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	6,860.93	
23 05 13 00-0044	EA		75 HP, 1,800 RPM, 365T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	6,665.66	
23 05 13 00-0045	EA		100 HP, 3,600 RPM, 365TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	7,333.67	
23 05 13 00-0046	EA		100 HP, 1,800 RPM, 404T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	7,755.02	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0047 EA 125 HP, 3,600 RPM, 404TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	9,204.08	
23 05 13 00-0048 EA 125 HP, 1,800 RPM, 405T NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	9,513.42	
23 05 13 00-0049 EA 150 HP, 3,600 RPM, 405TS NEMA Steel Frame, Premium Efficient, Open Drip Proof Motor	11,354.03	
23 05 13 00-0050 Cast Iron Frame, Premium Efficient, Open Drip Proof Motors (23 05 13 00-0002)		
23 05 13 00-0051 EA 40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	5,768.48	
23 05 13 00-0052 EA 50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	6,983.22	
23 05 13 00-0053 EA 60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	8,865.97	
23 05 13 00-0054 EA 75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	9,871.06	
23 05 13 00-0055 EA 100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	10,864.84	
23 05 13 00-0056 EA 125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	11,733.25	
23 05 13 00-0057 EA 150 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	10,567.84	
23 05 13 00-0058 EA 150 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	13,818.45	
23 05 13 00-0059 EA 200 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	12,866.80	
23 05 13 00-0060 EA 200 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	13,205.94	
23 05 13 00-0061 EA 200 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Open Drip Proof Motor	18,164.60	
23 05 13 00-0062 Premium Efficient, TEFC Motors (23 05 13 00-0001)		
Note: NEMA premium efficiency, totally enclosed fan cooled, three phase AC motors.		
23 05 13 00-0063 Steel Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)		
23 05 13 00-0064 EA 1 HP, 3,600 RPM, 56 NEMA Steel Frame, Premium Efficient, TEFC Motor	553.93	
23 05 13 00-0065 EA 1 HP, 1,800 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor	610.45	
23 05 13 00-0066 EA 1 HP, 1,200 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	726.58	
23 05 13 00-0067 EA 1-1/2 HP, 3,600 RPM, 143T NEMA Steel Frame, Premium Efficient, TEFC Motor	627.92	
23 05 13 00-0068 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	634.09	
23 05 13 00-0069 EA 2 HP, 3,600 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	687.53	
23 05 13 00-0070 EA 2 HP, 1,800 RPM, 145T NEMA Steel Frame, Premium Efficient, TEFC Motor	657.73	
23 05 13 00-0071 EA 3 HP, 3,600 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor	762.55	
23 05 13 00-0072 EA 3 HP, 1,800 RPM, 182T NEMA Steel Frame, Premium Efficient, TEFC Motor	726.58	
23 05 13 00-0073 EA 3 HP, 1,200 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,166.44	
23 05 13 00-0074 EA 5 HP, 3,600 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor	845.80	
23 05 13 00-0075 EA 5 HP, 1,800 RPM, 184T NEMA Steel Frame, Premium Efficient, TEFC Motor	795.44	
23 05 13 00-0076 EA 5 HP, 1,200 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,317.51	
23 05 13 00-0077 EA 7-1/2 HP, 3,600 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,267.15	
23 05 13 00-0078 EA 7-1/2 HP, 1,800 RPM, 213T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,146.91	
23 05 13 00-0079 EA 10 HP, 3,600 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,284.62	
23 05 13 00-0080 EA 10 HP, 1,800 RPM, 215T NEMA Steel Frame, Premium Efficient, TEFC Motor	1,294.90	
23 05 13 00-0081 Cast Iron Frame, Premium Efficient, TEFC Motors (23 05 13 00-0062)		
23 05 13 00-0082 EA 1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	790.30	
23 05 13 00-0083 EA 1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	884.85	
23 05 13 00-0084 EA 1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	834.49	
23 05 13 00-0085 EA 1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	819.08	
23 05 13 00-0086 EA 1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,053.39	
23 05 13 00-0087 EA 2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	877.66	
23 05 13 00-0088 EA 2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	858.13	
23 05 13 00-0089 EA 2 HP, 1,200 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,069.84	
23 05 13 00-0090 EA 3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	947.54	
23 05 13 00-0091 EA 3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	974.26	
23 05 13 00-0092 EA 3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,332.93	
23 05 13 00-0093 EA 5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,166.44	
23 05 13 00-0094 EA 5 HP, 1,800 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	975.29	
23 05 13 00-0095 EA 5 HP, 1,200 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,546.69	
23 05 13 00-0096 EA 7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,350.40	
23 05 13 00-0097 EA 7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,301.07	
23 05 13 00-0098 EA 7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,205.44	
23 05 13 00-0099 EA 10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,582.66	
23 05 13 00-0100 EA 10 HP, 1,800 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,459.33	
23 05 13 00-0101 EA 10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,517.86	
23 05 13 00-0102 EA 15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,180.78	
23 05 13 00-0103 EA 15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	1,995.79	
23 05 13 00-0104 EA 15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,358.52	
23 05 13 00-0105 EA 20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,393.51	
23 05 13 00-0106 EA 20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	2,420.23	
23 05 13 00-0107 EA 20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,471.52	
23 05 13 00-0108 EA 25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,123.18	
23 05 13 00-0109 EA 25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,165.32	
23 05 13 00-0110 EA 25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	5,059.37	
23 05 13 00-0111 EA 30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,711.02	
23 05 13 00-0112 EA 30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	3,755.22	
23 05 13 00-0113 EA 30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	5,844.53	
23 05 13 00-0114 EA 40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	5,087.12	
23 05 13 00-0115 EA 40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	4,910.35	
23 05 13 00-0116 EA 40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,283.31	
23 05 13 00-0117 EA 50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	5,565.00	
23 05 13 00-0118 EA 50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	5,366.65	
23 05 13 00-0119 EA 50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	8,801.22	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 13 Common Motor Requirements For HVAC Equipment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 13 00-0120	EA	60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,817.71	
23 05 13 00-0121	EA	60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	7,722.14	
23 05 13 00-0122	EA	60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	10,682.94	
23 05 13 00-0123	EA	75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	9,095.14	
23 05 13 00-0124	EA	75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	9,029.37	
23 05 13 00-0125	EA	75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	12,440.31	
23 05 13 00-0126	EA	100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	11,213.23	
23 05 13 00-0127	EA	125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	13,882.17	
23 05 13 00-0128	EA	150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	15,968.40	
23 05 13 00-0129	EA	200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, TEFC Motor	20,068.93	

23 05 13 00-0130

Premium Efficient, Severe Duty Motors (23 05 13 00-0001)

Note: NEMA premium efficiency, TEFC enclosure severe duty, three phase AC motors.

23 05 13 00-0131	EA	1 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	821.13	
23 05 13 00-0132	EA	1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	902.32	
23 05 13 00-0133	EA	1 HP, 1,200 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	996.87	
23 05 13 00-0134	EA	1 HP, 900 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,400.76	
23 05 13 00-0135	EA	1-1/2 HP, 3,600 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	934.18	
23 05 13 00-0136	EA	1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	919.79	
23 05 13 00-0137	EA	1-1/2 HP, 1,200 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,166.44	
23 05 13 00-0138	EA	1-1/2 HP, 900 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,742.98	
23 05 13 00-0139	EA	2 HP, 3,600 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	977.34	
23 05 13 00-0140	EA	2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	959.87	
23 05 13 00-0141	EA	2 HP, 1,200 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,181.86	
23 05 13 00-0142	EA	2 HP, 900 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,198.25	
23 05 13 00-0143	EA	3 HP, 3,600 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,156.16	
23 05 13 00-0144	EA	3 HP, 1,800 RPM, 182T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,214.74	
23 05 13 00-0145	EA	3 HP, 1,200 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,705.98	
23 05 13 00-0146	EA	3 HP, 900 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,384.26	
23 05 13 00-0147	EA	5 HP, 3,600 RPM, 184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,422.34	
23 05 13 00-0148	EA	5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,236.32	
23 05 13 00-0149	EA	5 HP, 1,200 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,728.59	
23 05 13 00-0150	EA	5 HP, 900 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,795.30	
23 05 13 00-0151	EA	7-1/2 HP, 3,600 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,856.03	
23 05 13 00-0152	EA	7-1/2 HP, 1,800 RPM, L213T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,556.97	
23 05 13 00-0153	EA	7-1/2 HP, 1,200 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,473.67	
23 05 13 00-0154	EA	7-1/2 HP, 900 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,339.98	
23 05 13 00-0155	EA	10 HP, 3,600 RPM, 215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,976.27	
23 05 13 00-0156	EA	10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	1,864.25	
23 05 13 00-0157	EA	10 HP, 1,200 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,213.62	
23 05 13 00-0158	EA	10 HP, 900 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,062.45	
23 05 13 00-0159	EA	15 HP, 3,600 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,528.14	
23 05 13 00-0160	EA	15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,375.01	
23 05 13 00-0161	EA	15 HP, 1,200 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,684.30	
23 05 13 00-0162	EA	15 HP, 900 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,758.16	
23 05 13 00-0163	EA	20 HP, 3,600 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,949.50	
23 05 13 00-0164	EA	20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	2,547.67	
23 05 13 00-0165	EA	20 HP, 1,200 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,005.93	
23 05 13 00-0166	EA	20 HP, 900 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	7,704.67	
23 05 13 00-0167	EA	25 HP, 3,600 RPM, 284TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,544.54	
23 05 13 00-0168	EA	25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,333.86	
23 05 13 00-0169	EA	25 HP, 1,200 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,230.99	
23 05 13 00-0170	EA	30 HP, 3,600 RPM, 286TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	4,321.48	
23 05 13 00-0171	EA	30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	3,958.70	
23 05 13 00-0172	EA	30 HP, 1,200 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,743.77	
23 05 13 00-0173	EA	40 HP, 3,600 RPM, 324TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,937.02	
23 05 13 00-0174	EA	40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	5,179.61	
23 05 13 00-0175	EA	40 HP, 1,200 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,405.56	
23 05 13 00-0176	EA	50 HP, 3,600 RPM, 326TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,221.70	
23 05 13 00-0177	EA	50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	6,079.87	
23 05 13 00-0178	EA	50 HP, 1,200 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,953.32	
23 05 13 00-0179	EA	60 HP, 3,600 RPM, 364TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,029.37	
23 05 13 00-0180	EA	60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	8,148.63	
23 05 13 00-0181	EA	60 HP, 1,200 RPM, 404T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	12,229.63	
23 05 13 00-0182	EA	75 HP, 3,600 RPM, 365TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	10,094.07	
23 05 13 00-0183	EA	75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	9,521.64	
23 05 13 00-0184	EA	75 HP, 1,200 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	14,884.18	
23 05 13 00-0185	EA	100 HP, 3,600 RPM, 405TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	12,687.98	
23 05 13 00-0186	EA	100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	12,498.89	
23 05 13 00-0187	EA	100 HP, 1,200 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	16,371.26	
23 05 13 00-0188	EA	125 HP, 3,600 RPM, 444TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	14,908.84	
23 05 13 00-0189	EA	125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	14,776.27	
23 05 13 00-0190	EA	125 HP, 1,200 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	18,494.49	
23 05 13 00-0191	EA	150 HP, 3,600 RPM, 445TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	17,478.09	
23 05 13 00-0192	EA	150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	17,310.58	
23 05 13 00-0193	EA	150 HP, 1,200 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	20,852.03	
23 05 13 00-0194	EA	200 HP, 3,600 RPM, 447TS NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	20,696.85	
23 05 13 00-0195	EA	200 HP, 1,800 RPM, 447T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	20,824.29	
23 05 13 00-0196	EA	200 HP, 1,200 RPM, 449T NEMA Cast Iron Frame, Premium Efficient, Severe Duty Motor	27,314.21	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 13 00-0197 Premium Efficient, Explosion Proof Motors ^(23 05 13 00-0001)						
Note: NEMA premium efficiency, explosion proof, three phase AC motors.						
	23 05 13 00-0198	EA		1 HP, 1,800 RPM, 143T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,095.53	
	23 05 13 00-0199	EA		1-1/2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,134.58	
	23 05 13 00-0200	EA		2 HP, 1,800 RPM, 145T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,237.35	
	23 05 13 00-0201	EA		3 HP, 1,800 RPM, L182T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,529.22	
	23 05 13 00-0202	EA		5 HP, 1,800 RPM, L184T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	1,695.70	
	23 05 13 00-0203	EA		7-1/2 HP, 1,800 RPM, 213T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	2,336.99	
	23 05 13 00-0204	EA		10 HP, 1,800 RPM, L215T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	2,385.29	
	23 05 13 00-0205	EA		15 HP, 1,800 RPM, 254T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	3,229.03	
	23 05 13 00-0206	EA		20 HP, 1,800 RPM, 256T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	3,681.22	
	23 05 13 00-0207	EA		25 HP, 1,800 RPM, 284T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	4,836.36	
	23 05 13 00-0208	EA		30 HP, 1,800 RPM, 286T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	5,428.31	
	23 05 13 00-0209	EA		40 HP, 1,800 RPM, 324T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	7,098.32	
	23 05 13 00-0210	EA		50 HP, 1,800 RPM, 326T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	7,994.48	
	23 05 13 00-0211	EA		60 HP, 1,800 RPM, 364T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	11,183.43	
	23 05 13 00-0212	EA		75 HP, 1,800 RPM, 365T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	13,128.87	
	23 05 13 00-0213	EA		100 HP, 1,800 RPM, 405T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	15,993.07	
	23 05 13 00-0214	EA		125 HP, 1,800 RPM, 444T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	20,903.42	
	23 05 13 00-0215	EA		150 HP, 1,800 RPM, 445T NEMA Cast Iron Frame, Premium Efficient, Explosion Proof Motor.....	23,850.86	
23 05 13 00-0216 Motor Mounting ^(23 05 13)						
Note: Includes handling and motor installation on mounting base. Excludes mounting base.						
	23 05 13 00-0217	EA		1/2 HP Motor Mounting.....	124.32	63.26
	23 05 13 00-0218	EA		3/4 HP Motor Mounting.....	143.24	79.07
	23 05 13 00-0219	EA		1 HP Motor Mounting.....	153.23	79.07
	23 05 13 00-0220	EA		1-1/2 HP Motor Mounting.....	164.73	79.07
	23 05 13 00-0221	EA		2 HP Motor Mounting.....	178.08	94.88
	23 05 13 00-0222	EA		3 HP Motor Mounting.....	205.90	94.88
	23 05 13 00-0223	EA		5 HP Motor Mounting.....	244.03	158.13
	23 05 13 00-0224	EA		7-1/2 HP Motor Mounting.....	313.76	158.13
	23 05 13 00-0225	EA		10 HP Motor Mounting.....	411.81	276.74
	23 05 13 00-0226	EA		15 HP Motor Mounting.....	506.84	276.74
	23 05 13 00-0227	EA		20 HP Motor Mounting.....	599.00	395.34
	23 05 13 00-0228	EA		25 HP Motor Mounting.....	679.27	395.34
	23 05 13 00-0229	EA		30 HP Motor Mounting.....	823.62	395.34
	23 05 13 00-0230	EA		40 HP Motor Mounting.....	928.03	593.01
	23 05 13 00-0231	EA		50 HP Motor Mounting.....	1,029.53	593.01
	23 05 13 00-0232	EA		75 HP Motor Mounting.....	1,243.20	869.74
	23 05 13 00-0233	EA		100 HP Motor Mounting.....	1,497.49	869.74
	23 05 13 00-0234	EA		125 HP Motor Mounting.....	1,830.26	1,186.01
	23 05 13 00-0235	EA		150 HP Motor Mounting.....	2,125.47	1,186.01
	23 05 13 00-0236	EA		200 HP Motor Mounting.....	2,440.35	1,423.22
23 05 16 Expansion Fittings And Loops For HVAC Piping ^(23 05)						
23 05 16 00-0001 Stainless Steel Bellows Type Expansion Joints ^(23 05 16)						
Note: Includes internal sleeves and external covers.						
23 05 16 00-0002 Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joints ^(23 05 16 00-0001)						
Note: Carbon steel ends. Includes internal sleeves and external covers.						
	23 05 16 00-0003	EA		1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	179.32	77.71
				<i>For 300 LB Rating, Add</i>	5.95	
	23 05 16 00-0004	EA		3/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	201.26	87.64
				<i>For 300 LB Rating, Add</i>	6.52	
	23 05 16 00-0005	EA		1" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	234.86	100.47
				<i>For 300 LB Rating, Add</i>	8.50	
	23 05 16 00-0006	EA		1-1/4" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	264.82	112.14
				<i>For 300 LB Rating, Add</i>	10.20	
	23 05 16 00-0007	EA		1-1/2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	286.35	120.52
				<i>For 300 LB Rating, Add</i>	11.33	
	23 05 16 00-0008	EA		2" Threaded, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	331.16	141.82
				<i>For 300 LB Rating, Add</i>	11.90	
23 05 16 00-0009 Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joints ^(23 05 16 00-0001)						
Note: Carbon steel ends. Includes internal sleeves and external covers.						
	23 05 16 00-0010	EA		1-1/4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	642.03	77.70
				<i>For 300 LB Rating, Add</i>	136.38	
	23 05 16 00-0011	EA		1-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	698.01	93.24
				<i>For 300 LB Rating, Add</i>	145.30	
	23 05 16 00-0012	EA		2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	729.29	118.36
				<i>For 300 LB Rating, Add</i>	145.32	
	23 05 16 00-0013	EA		2-1/2" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	785.80	128.75
				<i>For 300 LB Rating, Add</i>	156.09	
	23 05 16 00-0014	EA		3" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	863.61	150.96
				<i>For 300 LB Rating, Add</i>	168.67	
	23 05 16 00-0015	EA		4" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint.....	1,044.88	253.06
				<i>For 300 LB Rating, Add</i>	181.94	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 16 Expansion Fittings And Loops For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 16 00-0016	EA		5" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,431.53 271.27	277.60
23 05 16 00-0017	EA		6" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,316.21 232.32	308.44
23 05 16 00-0018	EA		8" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	1,694.10 301.13	394.12
23 05 16 00-0019	EA		10" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	2,157.84 389.53	479.80
23 05 16 00-0020	EA		12" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	2,841.25 528.35	363.45
23 05 16 00-0021	EA		14" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	3,626.32 692.39	685.43
23 05 16 00-0022	EA		16" Flanged, 150 LB, Stainless Steel Bellows Type Expansion Joint <i>For 300 LB Rating, Add</i>	4,707.30 941.21	753.96
23 05 16 00-0023			Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joints <small>(23 05 16 00-0001)</small> Note: Carbon steel ends. Includes internal sleeves and external covers.		
23 05 16 00-0024	EA		1-1/4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	651.19 109.54	106.56
23 05 16 00-0025	EA		1-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	681.70 116.70	107.44
23 05 16 00-0026	EA		2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	689.09 116.72	111.00
23 05 16 00-0027	EA		2-1/2" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	743.81 125.37	121.03
23 05 16 00-0028	EA		3" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	827.98 135.75	142.34
23 05 16 00-0029	EA		4" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	1,150.83 146.13	283.43
23 05 16 00-0030	EA		5" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	1,450.42 217.88	290.19
23 05 16 00-0031	EA		6" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	1,388.51 186.60	321.29
23 05 16 00-0032	EA		8" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	1,700.64 241.86	367.13
23 05 16 00-0033	EA		10" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	2,149.27 312.86	449.81
23 05 16 00-0034	EA		12" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	2,787.91 424.37	545.26
23 05 16 00-0035	EA		14" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	3,421.26 577.65	555.20
23 05 16 00-0036	EA		16" Butt Weld, 150 LB, Stainless Steel Bellows Type Expansion Joint..... <i>For 300 LB Rating, Add</i>	4,529.28 785.25	694.00
23 05 17 Sleeves and Sleeve Seals for HVAC Piping <small>(23 05)</small>					
23 05 17 00-0001			Wall Seals And Sleeves <small>(23 05 17)</small> Note: Up to 12" walls. Excludes drilling hole.		
23 05 17 00-0002			Ductile Iron Wall Sleeve <small>(23 05 17 00-0001)</small> Note: Includes rubber gasket seal.		
23 05 17 00-0003	EA		3" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	100.70	42.25
23 05 17 00-0004	EA		4" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	123.24	49.35
23 05 17 00-0005	EA		6" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	150.26	59.20
23 05 17 00-0006	EA		8" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	215.08	88.76
23 05 17 00-0007	EA		10" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	278.12	118.31
23 05 17 00-0008	EA		12" Ductile Iron Wall Sleeve With Rubber Gasket Seal.....	343.60	147.96
23 05 17 00-0009			Steel Pipe Sleeves <small>(23 05 17 00-0001)</small> Note: Includes link seals 12" length.		
23 05 17 00-0010	EA		2" Steel Pipe Sleeve With Link Seals.....	107.29	42.76
23 05 17 00-0011	EA		2-1/2" Steel Pipe Sleeve With Link Seals.....	128.44	46.35
23 05 17 00-0012	EA		3" Steel Pipe Sleeve With Link Seals.....	148.95	49.95
23 05 17 00-0013	EA		4" Steel Pipe Sleeve With Link Seals.....	181.95	59.91
23 05 17 00-0014	EA		6" Steel Pipe Sleeve With Link Seals.....	255.48	74.82
23 05 17 00-0015	EA		10" Steel Pipe Sleeve With Link Seals.....	475.12	89.83
23 05 17 00-0016	EA		13-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	562.44	112.28
23 05 17 00-0017	EA		17-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	745.12	138.16
23 05 17 00-0018	EA		23-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	1,015.78	179.65
23 05 17 00-0019	EA		29-1/4" Inside Diameter Steel Pipe Sleeve With Link Seals.....	1,113.08	224.57
23 05 19 Meters And Gages For HVAC Piping <small>(23 05)</small>					
			See CSI section 33 19 00 00-0000 for water utility service metering.		
23 05 19 00-0001			Thermometers <small>(23 05 19)</small>		
23 05 19 00-0002			Dial Type, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometers <small>(23 05 19 00-0001)</small> Note: Various ranges.		
23 05 19 00-0003	EA		2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer.....	97.70	30.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0004 EA 2-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	115.60	30.86
23 05 19 00-0005 EA 3-1/2" Diameter Dial, Bi-Metal, 4" To 9" Stem, Steel Case, Brass Stem, Thermometer	115.60	30.86
23 05 19 00-0006 Liquid Filled Industrial Union Connection Type Thermometers <small>(23 05 19 00-0001)</small>		
<i>Note: Various ranges.</i>		
23 05 19 00-0007 EA 7" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	133.51	30.86
23 05 19 00-0008 EA 9" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	133.51	30.86
23 05 19 00-0009 EA 12" Scale, Angle Stem, Liquid Filled Industrial Union Connection Type Thermometer	170.94	30.86
23 05 19 00-0010 EA 7" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	138.39	30.86
23 05 19 00-0011 EA 9" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	146.53	30.86
23 05 19 00-0012 EA 12" Scale, Straight Stem, Liquid Filled Industrial Union Connection Type Thermometer	175.82	30.86
23 05 19 00-0013 Liquid Filled Industrial Separable Socket Type Thermometers <small>(23 05 19 00-0001)</small>		
<i>Note: Various ranges. Socket connection for thermowell.</i>		
23 05 19 00-0014 EA 7" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	133.51	30.86
23 05 19 00-0015 EA 9" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	133.51	30.86
23 05 19 00-0016 EA 12" Scale, Angle Stem, Liquid Filled Industrial Separable Socket Type Thermometer	170.94	30.86
23 05 19 00-0017 EA 7" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	154.66	30.86
23 05 19 00-0018 EA 9" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	170.94	30.86
23 05 19 00-0019 EA 12" Scale, Straight Stem, Liquid Filled Industrial Separable Socket Type Thermometer	175.09	30.86
23 05 19 00-0020 1" NPT, 304 Stainless Steel Thermowells <small>(23 05 19 00-0001)</small>		
23 05 19 00-0021 EA 4" Long, 1" NPT, 304 Stainless Steel Thermowell	147.14	57.85
23 05 19 00-0022 EA 8" Long, 1" NPT, 304 Stainless Steel Thermowell	147.08	57.85
23 05 19 00-0023 Pressure Gauges <small>(23 05 19)</small>		
23 05 19 00-0024 Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges <small>(23 05 19 00-0023)</small>		
23 05 19 00-0025 EA 2" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	34.53	12.05
23 05 19 00-0026 EA 4" Diameter Dial, Steel Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	44.13	12.05
23 05 19 00-0027 Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges <small>(23 05 19 00-0023)</small>		
23 05 19 00-0028 EA 3-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	191.98	12.05
23 05 19 00-0029 EA 4-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	191.98	12.05
23 05 19 00-0030 EA 6" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	249.00	12.05
23 05 19 00-0031 EA 8-1/2" Diameter Dial, Aluminum Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	584.75	12.05
23 05 19 00-0032 Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauges <small>(23 05 19 00-0023)</small>		
<i>Note: Liquid filled.</i>		
23 05 19 00-0033 EA 2-1/2" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	91.45	12.05
23 05 19 00-0034 EA 4" Diameter Dial, Brass Case, 0 To 60 PSI Or 0 To 100 PSI, Pressure Gauge	199.15	12.05
23 05 19 00-0035 Steel Case, 0 To 10K PSI High Pressure, Pressure Gauges <small>(23 05 19 00-0023)</small>		
23 05 19 00-0036 EA 4-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	315.46	12.05
23 05 19 00-0037 EA 6-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	315.46	12.05
23 05 19 00-0038 EA 8-1/2" Diameter Dial, Steel Case, 0 To 10K PSI High Pressure, Pressure Gauge	315.46	12.05
23 05 19 00-0039 Gauge Accessories <small>(23 05 19 00-0023)</small>		
23 05 19 00-0040 EA Pete's Plug (Valve Cock For Removable Pressure Gauge Or Thermometer)	66.24	9.64
23 05 19 00-0041 EA 1/4" Snubber Valve	42.89	9.64
23 05 19 00-0042 EA 1/4" Female Pipe Thread, Brass Gauge Cock	27.36	14.47
23 05 19 00-0043 EA 1/4" Male Pipe Thread, Brass Gauge Cock	24.10	14.47
23 05 19 00-0044 EA 1/4" Pressure Pigtail Steam Siphon	25.98	14.47
23 05 19 00-0045 EA 1/4" x 3" Long Black Steel Nipple	5.57	4.82
23 05 19 00-0046 EA 1/4" Steel Thread-O-Let	59.00	24.11
23 05 19 00-0047 EA 1/4", 300 LB, Black Steel Union	57.43	9.64
23 05 19 00-0048 EA 1/4" Black Steel Coupling	20.70	9.64
23 05 19 00-0049 EA 1/4", 300 LB, Black Steel Plug	11.89	5.78
23 05 19 00-0050 EA 1/4", 150 LB, Black Steel Cap	12.36	5.78
23 05 19 00-0051 LF 1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe	6.50	3.18
23 05 19 00-0052 LF 1/4" Schedule 80, Plain End, Black Steel Pipe	6.13	3.18
23 05 19 00-0053 LF 1/4" Schedule 40, Threaded And Coupled, Galvanized Steel Pipe	6.04	
23 05 19 00-0054 EA 1/4" Threaded, 800 LB, Forged Steel, Ball Valve	80.46	
23 05 19 00-0055 Valve Lock Covers <small>(23 05 19)</small>		
23 05 19 00-0056 EA Valve Lock Cover	57.91	14.75
23 05 19 00-0057 Sight Flow Indicator <small>(23 05 19)</small>		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 19 Meters And Gages For HVAC Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0058			Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator <small>(23 05 19 00-0057)</small>		
23 05 19 00-0059	EA		1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	107.47	14.03
23 05 19 00-0060	EA		3/8" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	112.30	14.77
23 05 19 00-0061	EA		1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	121.25	15.52
23 05 19 00-0062	EA		3/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	137.45	20.92
23 05 19 00-0063	EA		1" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	164.44	25.34
23 05 19 00-0064	EA		1-1/4" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	188.06	32.09
23 05 19 00-0065	EA		1-1/2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	262.54	37.11
23 05 19 00-0066	EA		2" Threaded, Single Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-100).....	292.17	43.85
23 05 19 00-0067			Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator <small>(23 05 19 00-0057)</small>		
23 05 19 00-0068	EA		1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	137.74	14.03
23 05 19 00-0069	EA		3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	141.91	14.77
23 05 19 00-0070	EA		1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	152.88	15.52
23 05 19 00-0071	EA		3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	164.37	20.92
23 05 19 00-0072	EA		1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	175.88	25.34
23 05 19 00-0073	EA		1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	192.77	32.09
23 05 19 00-0074	EA		1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	354.05	37.11
23 05 19 00-0075	EA		2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Bronze Body, Sight Flow Indicator (Dwyer SFI-300).....	380.98	43.85
23 05 19 00-0076			Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator <small>(23 05 19 00-0057)</small>		
23 05 19 00-0077	EA		1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	196.28	14.03
23 05 19 00-0078	EA		3/8" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	207.17	14.77
23 05 19 00-0079	EA		1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	224.87	15.52
23 05 19 00-0080	EA		3/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	246.46	20.92
23 05 19 00-0081	EA		1" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	283.54	25.34
23 05 19 00-0082	EA		1-1/4" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	302.45	32.09
23 05 19 00-0083	EA		1-1/2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	596.27	37.11
23 05 19 00-0084	EA		2" Threaded, Double Window, Acrylonitrile Butadiene Styrene (ABS) Plastic Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-300SS).....	629.94	43.85
23 05 19 00-0085			Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicators <small>(23 05 19 00-0057)</small>		
23 05 19 00-0086	EA		1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	135.73	14.03
23 05 19 00-0087	EA		3/8" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	141.23	14.77
23 05 19 00-0088	EA		1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	149.51	15.52
23 05 19 00-0089	EA		3/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	163.70	20.92
23 05 19 00-0090	EA		1" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	175.21	25.34
23 05 19 00-0091	EA		1-1/4" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	192.77	32.09
23 05 19 00-0092	EA		1-1/2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	350.01	37.11
23 05 19 00-0093	EA		2" Threaded, Double Window, 304SS Flapper, Bronze Body, Sight Flow Indicator (Dwyer SFI-360).....	375.60	43.85
23 05 19 00-0094			Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicators <small>(23 05 19 00-0057)</small>		
23 05 19 00-0095	EA		1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	194.94	14.03
23 05 19 00-0096	EA		3/8" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	209.86	14.77
23 05 19 00-0097	EA		1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	228.91	15.52
23 05 19 00-0098	EA		3/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	246.46	20.92
23 05 19 00-0099	EA		1" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	283.54	25.34
23 05 19 00-0100	EA		1-1/4" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS).....	305.14	32.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 19 00-0101 EA 1-1/2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	596.27	37.11
23 05 19 00-0102 EA 2" Threaded, Double Window, 304SS Flapper, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-360SS)	629.94	43.85
23 05 19 00-0103 Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicators <small>(23 05 19 00-0057)</small>		
23 05 19 00-0104 EA 1" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	288.92	25.84
23 05 19 00-0105 EA 1-1/4" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	326.67	32.09
23 05 19 00-0106 EA 1-1/2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	371.54	37.11
23 05 19 00-0107 EA 2" Threaded, Tube Style, Without Impeller, Cast Iron Body, Sight Flow Indicator (Dwyer SFI-400)	418.66	43.85
23 05 19 00-0108 Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicators <small>(23 05 19 00-0057)</small>		
23 05 19 00-0109 EA 1-1/2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	639.87	101.21
23 05 19 00-0110 EA 2" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	719.43	128.48
23 05 19 00-0111 EA 3" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	1,047.73	150.89
23 05 19 00-0112 EA 4" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	1,589.01	252.95
23 05 19 00-0113 EA 6" Flanged, Double Window, 316SS Flapper, Carbon Steel Body, Sight Flow Indicator (Dwyer SFI-360FCS)	2,542.96	308.33
23 05 19 00-0114 Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicators <small>(23 05 19 00-0057)</small>		
23 05 19 00-0115 EA 1" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	489.26	72.29
23 05 19 00-0116 EA 1-1/4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	577.11	84.34
23 05 19 00-0117 EA 1-1/2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	626.07	101.21
23 05 19 00-0118 EA 2" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	785.03	128.48
23 05 19 00-0119 EA 3" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,128.14	150.89
23 05 19 00-0120 EA 4" Flanged, Tube Style, Without Impeller, Stainless Steel Body, Sight Flow Indicator (Dwyer SFI-400F)	1,676.15	252.95
23 05 19 00-0121 Venturi Flowmeters <small>(23 05 19)</small>		
23 05 19 00-0122 Threaded, Brass, Venturi Flowmeters <small>(23 05 19 00-0121)</small>		
23 05 19 00-0123 EA 3/4" Threaded, Brass, Venturi Flowmeter	217.03	65.56
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0124 EA 1" Threaded, Brass, Venturi Flowmeter	241.26	78.67
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0125 EA 1-1/4" Threaded, Brass, Venturi Flowmeter	266.26	87.45
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0126 EA 1-1/2" Threaded, Brass, Venturi Flowmeter	300.05	98.34
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0127 EA 2" Threaded, Brass, Venturi Flowmeter	356.03	112.42
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0128 EA 2-1/2" Threaded, Brass, Venturi Flowmeter	486.85	152.77
For Portable Venturi Flow Meter, Add	995.00	
23 05 19 00-0129 Butt Weld, Carbon Steel, Venturi Flowmeters <small>(23 05 19 00-0121)</small>		
23 05 19 00-0130 EA 3" Butt Weld, Carbon Steel, Venturi Flowmeter	816.99	134.74
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	191.63	
23 05 19 00-0131 EA 4" Butt Weld, Carbon Steel, Venturi Flowmeter	1,108.15	161.69
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	274.67	
23 05 19 00-0132 EA 5" Butt Weld, Carbon Steel, Venturi Flowmeter	1,444.50	202.10
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	364.10	
23 05 19 00-0133 EA 6" Butt Weld, Carbon Steel, Venturi Flowmeter	1,743.49	269.48
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	421.59	
23 05 19 00-0134 EA 8" Butt Weld, Carbon Steel, Venturi Flowmeter	2,490.05	323.38
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	645.16	
23 05 19 00-0135 EA 10" Butt Weld, Carbon Steel, Venturi Flowmeter	3,965.77	404.22
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,105.07	
23 05 19 00-0136 EA 12" Butt Weld, Carbon Steel, Venturi Flowmeter	5,913.24	565.81
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	1,673.57	
23 05 19 00-0137 EA 14" Butt Weld, Carbon Steel, Venturi Flowmeter	8,340.59	848.72
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	2,325.11	
23 05 19 00-0138 EA 16" Butt Weld, Carbon Steel, Venturi Flowmeter	12,197.54	943.01
For Portable Venturi Flow Meter, Add	995.00	
For Flanged Ends, Add	3,609.03	
23 05 19 00-0139 Turbine Flowmeter <small>(23 05 19)</small>		
23 05 19 00-0140 EA Saddle Mount Turbine Flowmeter	558.50	72.32

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 19 Meters And Gages For HVAC Piping



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 19 00-0141 Water Flow Switches (23 05 19)

23 05 19 00-0142	EA	Flexible Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BF-1)	190.17	28.42
23 05 19 00-0143	EA	Rigid Paddle, Single Switch, Brass Body, Water Flow Switch (Taco IFS01BR-1)	196.33	28.42
23 05 19 00-0144	EA	Flexible Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BF-1)	248.37	28.42
23 05 19 00-0145	EA	Rigid Paddle, Double Switch, Brass Body, Water Flow Switch (Taco IFS02BR-1)	256.25	28.42
23 05 19 00-0146	EA	Flexible Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BF-1)	204.21	28.42
23 05 19 00-0147	EA	Rigid Paddle, High Current Single Switch, Brass Body, Water Flow Switch (Taco IFSH1BR-1)	211.39	28.42
23 05 19 00-0148	EA	Flexible Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BF-1)	262.41	28.42
23 05 19 00-0149	EA	Rigid Paddle, High Current Double Switch, Brass Body, Water Flow Switch (Taco IFSH2BR-1)	269.59	28.42
23 05 19 00-0150	EA	Flexible Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SF-1)	501.00	28.42
23 05 19 00-0151	EA	Rigid Paddle, Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS01SR-1)	507.96	28.42
23 05 19 00-0152	EA	Flexible Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SF-1)	574.11	28.42
23 05 19 00-0153	EA	Rigid Paddle, Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFS02SR-1)	583.68	28.42
23 05 19 00-0154	EA	Flexible Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SF-1)	517.53	28.42
23 05 19 00-0155	EA	Rigid Paddle, High Current Single Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH1SR-1)	527.11	28.42
23 05 19 00-0156	EA	Flexible Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SF-1)	590.64	28.42
23 05 19 00-0157	EA	Rigid Paddle, High Current Double Switch, 316 Stainless Steel Body, Water Flow Switch (Taco IFSH2SR-1)	601.09	28.42

23 05 23 General-Duty Valves For HVAC Piping (23 05)

Note: Flanged valves exclude bolt and gasket sets. See CSI section 23 21 13 23-0669 for bolt and gasket sets.

23 05 23 00-0001 Gate Valves (23 05 23)

23 05 23 00-0002 Class 125 Brazed Or Soldered Bronze Gate Valves (23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve 105)

23 05 23 00-0003	EA	1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	71.68	9.63
		For 150 LB Rating, Add	4.36	
		For 200 LB Rating, Add	6.54	
		For Work In Restricted Working Space, Add	8.42	
23 05 23 00-0004	EA	3/8" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	73.15	9.63
		For 150 LB Rating, Add	4.36	
		For 200 LB Rating, Add	6.54	
		For Work In Restricted Working Space, Add	8.86	
23 05 23 00-0005	EA	1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	74.95	9.63
		For 150 LB Rating, Add	4.39	
		For 200 LB Rating, Add	6.58	
		For Work In Restricted Working Space, Add	9.33	
23 05 23 00-0006	EA	3/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	89.05	10.60
		For 150 LB Rating, Add	4.71	
		For 200 LB Rating, Add	7.07	
		For Work In Restricted Working Space, Add	12.57	
23 05 23 00-0007	EA	1" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	108.48	12.05
		For 150 LB Rating, Add	5.78	
		For 200 LB Rating, Add	8.66	
		For Work In Restricted Working Space, Add	15.22	
23 05 23 00-0008	EA	1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	158.55	12.82
		For 150 LB Rating, Add	9.43	
		For 200 LB Rating, Add	14.14	
		For Work In Restricted Working Space, Add	19.28	
23 05 23 00-0009	EA	1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	176.61	14.84
		For 150 LB Rating, Add	10.25	
		For 200 LB Rating, Add	15.37	
		For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0010	EA	2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	211.77	17.54
		For 150 LB Rating, Add	12.42	
		For 200 LB Rating, Add	18.62	
		For Work In Restricted Working Space, Add	26.29	
23 05 23 00-0011	EA	2-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	478.46	23.69
		For 150 LB Rating, Add	36.01	
		For 200 LB Rating, Add	54.02	
		For Chain Operated Type, Add	162.05	
		For Work In Restricted Working Space, Add	35.50	
23 05 23 00-0012	EA	3" Diameter, 125 LB Brazed Or Soldered Bronze Gate Valve	561.50	27.52
		For 150 LB Rating, Add	42.50	
		For 200 LB Rating, Add	63.74	
		For Work In Restricted Working Space, Add	40.97	

23 05 23 00-0013 Class 125 Brazed Or Soldered Bronze Lead Free Gate Valves (23 05 23 00-0001)

Note: 125 psi steam, basic rating. 200 psi cold working pressure. (Milwaukee Valve UP105, Nibco T113-LF)

23 05 23 00-0014	EA	1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	86.21	9.63
		For 150 LB Rating, Add	5.81	
		For 200 LB Rating, Add	8.72	
		For Work In Restricted Working Space, Add	8.42	
23 05 23 00-0015	EA	3/8" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	87.55	9.63
		For 150 LB Rating, Add	5.80	
		For 200 LB Rating, Add	8.70	
		For Work In Restricted Working Space, Add	8.86	
23 05 23 00-0016	EA	1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	101.81	9.63
		For 150 LB Rating, Add	7.07	
		For 200 LB Rating, Add	10.61	
		For Work In Restricted Working Space, Add	9.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0017 EA 3/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	115.91	10.60
<i>For 150 LB Rating, Add</i>	7.40	
<i>For 200 LB Rating, Add</i>	11.10	
<i>For Work In Restricted Working Space, Add</i>	12.57	
23 05 23 00-0018 EA 1" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	139.12	12.05
<i>For 150 LB Rating, Add</i>	8.84	
<i>For 200 LB Rating, Add</i>	13.26	
<i>For Work In Restricted Working Space, Add</i>	15.22	
23 05 23 00-0019 EA 1-1/4" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	200.45	12.82
<i>For 150 LB Rating, Add</i>	13.62	
<i>For 200 LB Rating, Add</i>	20.43	
<i>For Work In Restricted Working Space, Add</i>	19.28	
23 05 23 00-0020 EA 1-1/2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	229.33	14.84
<i>For 150 LB Rating, Add</i>	15.52	
<i>For 200 LB Rating, Add</i>	23.28	
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0021 EA 2" Diameter, 125 LB Brazed Or Soldered Bronze Lead Free Gate Valve	293.22	17.54
<i>For 150 LB Rating, Add</i>	20.56	
<i>For 200 LB Rating, Add</i>	30.84	
<i>For Work In Restricted Working Space, Add</i>	26.29	
23 05 23 00-0022 Class 125 Threaded, Bronze Gate Valves (23 05 23 00-0001)		
Note: 125 psi steam, basic rating. 200 psi cold working pressure.		
23 05 23 00-0023 EA 1/4" Diameter, 125 LB, Threaded Bronze Gate Valve	57.20	9.63
<i>For 150 LB Rating, Add</i>	2.91	
<i>For 200 LB Rating, Add</i>	4.37	
<i>For 250 LB Rating, Add</i>	7.28	
<i>For 300 LB Rating, Add</i>	10.20	
<i>For Work In Restricted Working Space, Add</i>	8.42	
23 05 23 00-0024 EA 3/8" Diameter, 125 LB, Threaded Bronze Gate Valve	58.67	9.63
<i>For 150 LB Rating, Add</i>	2.91	
<i>For 200 LB Rating, Add</i>	4.37	
<i>For 250 LB Rating, Add</i>	7.28	
<i>For 300 LB Rating, Add</i>	10.20	
<i>For Work In Restricted Working Space, Add</i>	8.86	
23 05 23 00-0025 EA 1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	60.22	9.63
<i>For 150 LB Rating, Add</i>	2.91	
<i>For 200 LB Rating, Add</i>	4.37	
<i>For 250 LB Rating, Add</i>	7.28	
<i>For 300 LB Rating, Add</i>	10.20	
<i>For Work In Restricted Working Space, Add</i>	9.33	
23 05 23 00-0026 EA 3/4" Diameter, 125 LB, Threaded Bronze Gate Valve	76.67	10.60
<i>For 150 LB Rating, Add</i>	3.48	
<i>For 200 LB Rating, Add</i>	5.21	
<i>For 250 LB Rating, Add</i>	8.69	
<i>For 300 LB Rating, Add</i>	12.17	
<i>For Work In Restricted Working Space, Add</i>	12.57	
23 05 23 00-0027 EA 1" Diameter, 125 LB, Threaded Bronze Gate Valve	103.24	12.05
<i>For 150 LB Rating, Add</i>	5.25	
<i>For 200 LB Rating, Add</i>	7.88	
<i>For 250 LB Rating, Add</i>	13.13	
<i>For 300 LB Rating, Add</i>	18.38	
<i>For Work In Restricted Working Space, Add</i>	15.22	
23 05 23 00-0028 EA 1-1/4" Diameter, 125 LB, Threaded Bronze Gate Valve	135.06	12.82
<i>For 150 LB Rating, Add</i>	7.08	
<i>For 200 LB Rating, Add</i>	10.62	
<i>For 250 LB Rating, Add</i>	17.70	
<i>For 300 LB Rating, Add</i>	24.78	
<i>For Work In Restricted Working Space, Add</i>	19.28	
23 05 23 00-0029 EA 1-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	163.36	14.84
<i>For 150 LB Rating, Add</i>	8.92	
<i>For 200 LB Rating, Add</i>	13.38	
<i>For 250 LB Rating, Add</i>	22.31	
<i>For 300 LB Rating, Add</i>	31.23	
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0030 EA 2" Diameter, 125 LB, Threaded Bronze Gate Valve	209.52	17.54
<i>For 150 LB Rating, Add</i>	12.19	
<i>For 200 LB Rating, Add</i>	18.29	
<i>For 250 LB Rating, Add</i>	30.48	
<i>For 300 LB Rating, Add</i>	42.67	
<i>For Work In Restricted Working Space, Add</i>	26.29	
23 05 23 00-0031 EA 2-1/2" Diameter, 125 LB, Threaded Bronze Gate Valve	466.00	23.69
<i>For 150 LB Rating, Add</i>	34.77	
<i>For 200 LB Rating, Add</i>	52.15	
<i>For 250 LB Rating, Add</i>	86.92	
<i>For 300 LB Rating, Add</i>	121.68	
<i>For Chain Operated Type, Add</i>	156.45	
<i>For Work In Restricted Working Space, Add</i>	35.50	
23 05 23 00-0032 EA 3" Diameter, 125 LB, Threaded Bronze Gate Valve	552.14	27.52
<i>For 150 LB Rating, Add</i>	41.56	
<i>For 200 LB Rating, Add</i>	62.34	
<i>For 250 LB Rating, Add</i>	103.90	
<i>For 300 LB Rating, Add</i>	145.46	
<i>For Chain Operated Type, Add</i>	187.02	
<i>For Work In Restricted Working Space, Add</i>	40.97	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0033 EA 4" Diameter, 125 LB, Threaded Bronze Gate Valve.....	1,145.36	31.07
For 150 LB Rating, Add	99.00	
For 200 LB Rating, Add	148.51	
For 250 LB Rating, Add	247.51	
For 300 LB Rating, Add	346.51	
For Chain Operated Type, Add	445.52	
For Work In Restricted Working Space, Add	46.60	
23 05 23 00-0034 200 PSI, Non Rising Stem, Crimped Bronze Gate Valves (23 05 23 00-0001)		
Note: 200 psi cold working pressure.		
23 05 23 00-0035 EA 1/2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	93.84	9.63
For Work In Restricted Working Space, Add	6.50	
23 05 23 00-0036 EA 3/4" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	105.72	10.60
For Work In Restricted Working Space, Add	7.41	
23 05 23 00-0037 EA 1" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	138.63	12.05
For Work In Restricted Working Space, Add	8.86	
23 05 23 00-0038 EA 1-1/4" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	188.20	12.82
For Work In Restricted Working Space, Add	9.76	
23 05 23 00-0039 EA 1-1/2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	218.01	14.84
For Work In Restricted Working Space, Add	10.85	
23 05 23 00-0040 EA 2" Diameter, 200 PSI, Non Rising Stem, Crimped Bronze Gate Valve	299.40	17.54
For Work In Restricted Working Space, Add	13.01	
23 05 23 00-0041 Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001)		
Note: 125 psi steam, basic rating, 200 psi cold working pressure.		
23 05 23 00-0042 EA 1-1/2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	246.22	14.84
For 150 LB Rating, Add	34.42	
For 250 LB Rating, Add	60.23	
For Chain Operated Type, Add	60.23	
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0043 EA 2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	378.39	17.54
For 150 LB Rating, Add	58.15	
For 250 LB Rating, Add	101.77	
For Chain Operated Type, Add	101.77	
For Work In Restricted Working Space, Add	26.29	
23 05 23 00-0044 EA 2-1/2" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve	555.65	23.69
For 150 LB Rating, Add	87.46	
For 250 LB Rating, Add	153.06	
For Chain Operated Type, Add	153.06	
For Work In Restricted Working Space, Add	35.50	
23 05 23 00-0045 EA 3" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	710.33	27.52
For 150 LB Rating, Add	114.76	
For 250 LB Rating, Add	200.82	
For Chain Operated Type, Add	200.82	
For Work In Restricted Working Space, Add	40.97	
23 05 23 00-0046 EA 4" Diameter, Class 125 Non Rising Stem, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	1,699.87	31.07
For 150 LB Rating, Add	308.91	
For 250 LB Rating, Add	540.59	
For Chain Operated Type, Add	540.59	
For Work In Restricted Working Space, Add	46.60	
23 05 23 00-0047 Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valves (23 05 23 00-0001)		
Note: 125 psi steam, basic rating, 200 psi cold working pressure.		
23 05 23 00-0048 EA 1-1/2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	359.23	101.21
For 150 LB Rating, Add	67.40	
For 250 LB Rating, Add	116.21	
For 300 LB Rating, ASTM A182, Add	295.82	
For Chain Operated Type, Add	116.21	
For Work In Restricted Working Space, Add	38.05	
23 05 23 00-0049 EA 2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	403.70	128.48
For 150 LB Rating, Add	70.49	
For 250 LB Rating, Add	121.54	
For 300 LB Rating, ASTM A182, Add	323.39	
For Chain Operated Type, Add	121.54	
For Work In Restricted Working Space, Add	48.19	
23 05 23 00-0050 EA 2-1/2" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	453.01	128.69
For 150 LB Rating, Add	84.58	
For 250 LB Rating, Add	145.82	
For 300 LB Rating, ASTM A182, Add	372.33	
For Chain Operated Type, Add	145.82	
For Work In Restricted Working Space, Add	48.41	
23 05 23 00-0051 EA 3" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve	553.37	150.89
For 150 LB Rating, Add	105.71	
For 250 LB Rating, Add	182.27	
For 300 LB Rating, ASTM A182, Add	458.95	
For Chain Operated Type, Add	182.27	
For Work In Restricted Working Space, Add	56.65	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0052 EA 4" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	803.05	252.95
<i>For 150 LB Rating, Add</i>	140.96	
<i>For 250 LB Rating, Add</i>	243.03	
<i>For 300 LB Rating, ASTM A182, Add</i>	644.56	
<i>For Chain Operated Type, Add</i>	243.03	
<i>For Work In Restricted Working Space, Add</i>	95.10	
23 05 23 00-0053 EA 5" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	978.16	277.51
<i>For 150 LB Rating, Add</i>	183.23	
<i>For 250 LB Rating, Add</i>	315.91	
<i>For 300 LB Rating, ASTM A182, Add</i>	804.99	
<i>For Chain Operated Type, Add</i>	315.91	
<i>For Work In Restricted Working Space, Add</i>	103.90	
23 05 23 00-0054 EA 6" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,164.35	308.33
<i>For 150 LB Rating, Add</i>	225.49	
<i>For 250 LB Rating, Add</i>	388.77	
<i>For 300 LB Rating, ASTM A182, Add</i>	970.95	
<i>For Chain Operated Type, Add</i>	388.77	
<i>For Work In Restricted Working Space, Add</i>	116.04	
23 05 23 00-0055 EA 8" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,777.43	393.99
<i>For 150 LB Rating, Add</i>	373.52	
<i>For 250 LB Rating, Add</i>	644.01	
<i>For 300 LB Rating, ASTM A182, Add</i>	1,532.72	
<i>For Chain Operated Type, Add</i>	644.01	
<i>For Work In Restricted Working Space, Add</i>	146.83	
23 05 23 00-0056 EA 10" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,300.56	479.64
<i>For 150 LB Rating, Add</i>	493.30	
<i>For 250 LB Rating, Add</i>	850.51	
<i>For 300 LB Rating, ASTM A182, Add</i>	2,000.79	
<i>For Chain Operated Type, Add</i>	850.51	
<i>For Work In Restricted Working Space, Add</i>	179.86	
23 05 23 00-0057 EA 12" Diameter, Class 125 Non Rising Stem, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	3,156.88	582.42
<i>For 150 LB Rating, Add</i>	704.75	
<i>For 250 LB Rating, Add</i>	1,215.08	
<i>For 300 LB Rating, ASTM A182, Add</i>	2,793.52	
<i>For Chain Operated Type, Add</i>	1,215.08	
<i>For Work In Restricted Working Space, Add</i>	218.02	
23 05 23 00-0058 Class 125 Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating, 200 psi cold working pressure.		
23 05 23 00-0059 EA 1-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	495.94	14.84
<i>For 175 LB Rating, Add</i>	210.90	
<i>For 250 LB Rating, Add</i>	316.35	
<i>For Work In Restricted Working Space, Add</i>	22.24	
23 05 23 00-0060 EA 2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	632.90	17.54
<i>For 175 LB Rating, Add</i>	272.64	
<i>For 250 LB Rating, Add</i>	408.96	
<i>For Work In Restricted Working Space, Add</i>	26.29	
23 05 23 00-0061 EA 2-1/2" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	733.21	23.69
<i>For 175 LB Rating, Add</i>	307.44	
<i>For 250 LB Rating, Add</i>	461.15	
<i>For Work In Restricted Working Space, Add</i>	35.50	
23 05 23 00-0062 EA 3" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	815.00	27.52
<i>For 175 LB Rating, Add</i>	339.23	
<i>For 250 LB Rating, Add</i>	508.84	
<i>For Work In Restricted Working Space, Add</i>	40.97	
23 05 23 00-0063 EA 4" Diameter, 125 LB Outside Stem And Yoke, Threaded, Cast Iron Body, Bronze Trim Gate Valve.....	1,092.17	31.07
<i>For 175 LB Rating, Add</i>	468.43	
<i>For 250 LB Rating, Add</i>	702.64	
<i>For Work In Restricted Working Space, Add</i>	46.60	
23 05 23 00-0064 Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valves <small>(23 05 23 00-0001)</small>		
Note: 125 psi steam, basic rating, 200 psi cold working pressure for up to 12". 100 psi steam, basic rating. 150 psi cold working pressure for >12" to 24". 50 psi steam, basic rating. 150 psi cold working pressure for >24".		
23 05 23 00-0065 EA 1-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	461.86	101.21
<i>For 150 LB Rating, Add</i>	50.26	
<i>For 175 LB Rating, Add</i>	103.86	
<i>For 250 LB Rating, Add</i>	217.78	
<i>For Chain Operated Type, Add</i>	167.52	
<i>For Work In Restricted Working Space, Add</i>	38.05	
23 05 23 00-0066 EA 2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	505.63	128.48
<i>For 150 LB Rating, Add</i>	51.75	
<i>For 175 LB Rating, Add</i>	106.95	
<i>For 250 LB Rating, Add</i>	224.25	
<i>For Chain Operated Type, Add</i>	172.50	
<i>For Work In Restricted Working Space, Add</i>	48.19	
23 05 23 00-0067 EA 2-1/2" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	517.63	128.69
<i>For 150 LB Rating, Add</i>	53.44	
<i>For 175 LB Rating, Add</i>	110.44	
<i>For 250 LB Rating, Add</i>	231.57	
<i>For Chain Operated Type, Add</i>	178.13	
<i>For Work In Restricted Working Space, Add</i>	48.41	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0068	EA		3" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	580.82	150.89
			<i>For 150 LB Rating, Add</i>	58.80	
			<i>For 175 LB Rating, Add</i>	121.51	
			<i>For 250 LB Rating, Add</i>	254.79	
			<i>For Chain Operated Type, Add</i>	195.99	
			<i>For Work In Restricted Working Space, Add</i>	56.65	
23 05 23 00-0069	EA		4" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	792.36	252.95
			<i>For 150 LB Rating, Add</i>	71.31	
			<i>For 175 LB Rating, Add</i>	147.36	
			<i>For 250 LB Rating, Add</i>	308.99	
			<i>For Chain Operated Type, Add</i>	237.69	
			<i>For Work In Restricted Working Space, Add</i>	95.10	
23 05 23 00-0070	EA		5" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,009.58	277.51
			<i>For 150 LB Rating, Add</i>	99.49	
			<i>For 175 LB Rating, Add</i>	205.60	
			<i>For 250 LB Rating, Add</i>	431.11	
			<i>For Chain Operated Type, Add</i>	331.62	
			<i>For Work In Restricted Working Space, Add</i>	103.90	
23 05 23 00-0071	EA		6" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,144.25	308.33
			<i>For 150 LB Rating, Add</i>	113.62	
			<i>For 175 LB Rating, Add</i>	234.81	
			<i>For 250 LB Rating, Add</i>	492.34	
			<i>For Chain Operated Type, Add</i>	378.72	
			<i>For Work In Restricted Working Space, Add</i>	116.04	
23 05 23 00-0072	EA		8" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	1,770.47	393.99
			<i>For 150 LB Rating, Add</i>	192.16	
			<i>For 175 LB Rating, Add</i>	397.13	
			<i>For 250 LB Rating, Add</i>	832.68	
			<i>For Chain Operated Type, Add</i>	640.53	
			<i>For Work In Restricted Working Space, Add</i>	146.83	
23 05 23 00-0073	EA		10" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	2,571.07	479.64
			<i>For 150 LB Rating, Add</i>	295.73	
			<i>For 175 LB Rating, Add</i>	611.17	
			<i>For 250 LB Rating, Add</i>	1,281.49	
			<i>For Chain Operated Type, Add</i>	985.77	
			<i>For Work In Restricted Working Space, Add</i>	179.86	
23 05 23 00-0074	EA		12" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	3,225.47	582.42
			<i>For 150 LB Rating, Add</i>	374.81	
			<i>For 175 LB Rating, Add</i>	774.61	
			<i>For 250 LB Rating, Add</i>	1,624.19	
			<i>For Chain Operated Type, Add</i>	1,249.38	
			<i>For Work In Restricted Working Space, Add</i>	218.02	
23 05 23 00-0075	EA		14" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	6,273.42	755.89
			<i>For 150 LB Rating, Add</i>	799.28	
			<i>For 175 LB Rating, Add</i>	1,651.85	
			<i>For 250 LB Rating, Add</i>	3,463.56	
			<i>For Work In Restricted Working Space, Add</i>	283.46	
23 05 23 00-0076	EA		16" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	8,126.86	831.48
			<i>For 150 LB Rating, Add</i>	1,063.13	
			<i>For 175 LB Rating, Add</i>	2,197.13	
			<i>For 250 LB Rating, Add</i>	4,606.88	
			<i>For Work In Restricted Working Space, Add</i>	311.81	
23 05 23 00-0077	EA		18" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	11,075.38	922.19
			<i>For 150 LB Rating, Add</i>	1,488.40	
			<i>For 175 LB Rating, Add</i>	3,076.02	
			<i>For 250 LB Rating, Add</i>	6,449.72	
			<i>For Work In Restricted Working Space, Add</i>	345.82	
23 05 23 00-0078	EA		20" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	14,054.91	1,039.35
			<i>For 150 LB Rating, Add</i>	1,913.36	
			<i>For 175 LB Rating, Add</i>	3,954.27	
			<i>For 250 LB Rating, Add</i>	8,291.22	
			<i>For Work In Restricted Working Space, Add</i>	389.76	
23 05 23 00-0079	EA		24" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	19,191.27	1,275.57
			<i>For 150 LB Rating, Add</i>	2,639.52	
			<i>For 175 LB Rating, Add</i>	5,455.01	
			<i>For 250 LB Rating, Add</i>	11,437.92	
			<i>For Work In Restricted Working Space, Add</i>	478.34	
23 05 23 00-0080	EA		30" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	39,991.58	2,078.71
			<i>For 150 LB Rating, Add</i>	5,608.98	
			<i>For 175 LB Rating, Add</i>	11,591.89	
			<i>For 250 LB Rating, Add</i>	24,305.58	
			<i>For Work In Restricted Working Space, Add</i>	779.51	
23 05 23 00-0081	EA		36" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	50,975.87	2,771.62
			<i>For 150 LB Rating, Add</i>	7,126.70	
			<i>For 175 LB Rating, Add</i>	14,728.52	
			<i>For 250 LB Rating, Add</i>	30,882.38	
			<i>For Work In Restricted Working Space, Add</i>	1,039.35	
23 05 23 00-0082	EA		42" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	60,149.01	3,775.27
			<i>For 150 LB Rating, Add</i>	8,314.49	
			<i>For 175 LB Rating, Add</i>	17,183.28	
			<i>For 250 LB Rating, Add</i>	36,029.45	
			<i>For Work In Restricted Working Space, Add</i>	1,415.73	
23 05 23 00-0083	EA		48" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve.....	72,375.66	4,719.09
			<i>For 150 LB Rating, Add</i>	9,971.52	
			<i>For 175 LB Rating, Add</i>	20,607.81	
			<i>For 250 LB Rating, Add</i>	43,209.92	
			<i>For Work In Restricted Working Space, Add</i>	1,769.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0084 EA 54" Diameter, Class 125 Outside Stem And Yoke, Flanged, Cast Iron Body, Bronze Trim Gate Valve..... <i>For 150 LB Rating, Add</i> <i>For 175 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	86,850.79 11,965.82 24,729.37 51,851.90 2,123.59	5,662.91
23 05 23 00-0085 Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valves (23 05 23 00-0001) Note: 800 psig at 850 degrees F.		
23 05 23 00-0086 EA 1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	148.96 8.42	9.63
23 05 23 00-0087 EA 1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	151.98 9.33	9.63
23 05 23 00-0088 EA 3/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	179.01 12.57	10.60
23 05 23 00-0089 EA 1" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	217.32 15.22	12.05
23 05 23 00-0090 EA 1-1/4" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	333.04 19.28	12.82
23 05 23 00-0091 EA 1-1/2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	394.04 22.24	14.84
23 05 23 00-0092 EA 2" Diameter, Class 800 Outside Stem And Yoke, Threaded, Forged Steel, Chrome Trim, Bolted Bonnet Gate Valve..... <i>For Work In Restricted Working Space, Add</i>	495.98 26.29	17.54
23 05 23 00-0093 Ball Valves (23 05 23)		
23 05 23 00-0094 Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0093) Note: 125 LB WSP.		
23 05 23 00-0095 EA 1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	40.15 2.63 4.08 9.33	9.63
23 05 23 00-0096 EA 3/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	55.84 2.63 6.27 12.57	10.60
23 05 23 00-0097 EA 1" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.54 2.63 8.46 15.22	12.05
23 05 23 00-0098 EA 1-1/4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.84 2.63 14.21 19.28	12.82
23 05 23 00-0099 EA 1-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	114.47 2.63 18.15 22.24	14.84
23 05 23 00-0100 EA 2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.14 2.63 22.73 26.29	17.54
23 05 23 00-0101 EA 2-1/2" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	356.77 2.63 107.29 35.50	23.69
23 05 23 00-0102 EA 3" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	411.65 2.63 123.80 40.97	27.52
23 05 23 00-0103 EA 4" Threaded Or Sweated, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Extension Stems And Sleeves On Insulated Pipe, Add</i> <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	530.37 2.63 168.77 46.60	31.07
23 05 23 00-0104 Screwed, 150 LB, Full Port, Carbon Steel Ball Valves (23 05 23 00-0093)		
23 05 23 00-0105 EA 1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	45.41 8.42	9.63
23 05 23 00-0106 EA 1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	49.91 9.33	9.63
23 05 23 00-0107 EA 3/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	69.13 12.57	10.60

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0108 EA 1" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	87.33 15.22	12.05
23 05 23 00-0109 EA 1-1/4" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve <i>For Work In Restricted Working Space, Add</i>	126.82 19.28	12.82
23 05 23 00-0110 EA 1-1/2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve <i>For Work In Restricted Working Space, Add</i>	153.39 22.24	14.84
23 05 23 00-0111 EA 2" Screwed, 150 LB, Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	196.74 26.29	17.54
23 05 23 00-0112 Flanged, 150 LB, Full Port, Carbon Steel Ball Valves (23 05 23 00-0093)		
23 05 23 00-0113 EA 4" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	1,201.41 95.10	252.95
23 05 23 00-0114 EA 6" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	2,015.17 116.04	308.33
23 05 23 00-0115 EA 8" Flanged, 150 LB, Full Port, Carbon Steel Ball Valve..... <i>For Work In Restricted Working Space, Add</i>	4,322.23 146.83	393.99
23 05 23 00-0116 Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valves (23 05 23 00-0093)		
23 05 23 00-0117 EA 1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve <i>For True Union Socket Or Thread Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.00 3.60 9.33	9.63
23 05 23 00-0118 EA 3/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve <i>For True Union Socket Or Thread Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.56 4.46 12.57	10.60
23 05 23 00-0119 EA 1" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve <i>For True Union Socket Or Thread Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.61 5.82 15.22	12.05
23 05 23 00-0120 EA 1-1/4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve..... <i>For True Union Socket Or Thread Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.60 7.51 19.28	12.82
23 05 23 00-0121 EA 1-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve <i>For True Union Socket Or Thread Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	92.14 11.09 22.24	14.84
23 05 23 00-0122 EA 2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve <i>For True Union Socket Or Thread Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	110.56 13.78 26.29	17.54
23 05 23 00-0123 EA 2-1/2" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve <i>For True Union Socket Or Thread Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	167.69 25.95 35.50	23.69
23 05 23 00-0124 EA 3" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve <i>For True Union Socket Or Thread Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	220.47 40.74 40.97	27.52
23 05 23 00-0125 EA 4" Socket, 150 PSI, Polyvinyl Chloride (PVC), Ball Valve <i>For True Union Socket Or Thread Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	315.77 72.33 46.60	31.07
23 05 23 00-0126 Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valves (23 05 23 00-0093)		
23 05 23 00-0127 EA 1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.35 12.26 12.63	14.46
23 05 23 00-0128 EA 3/8" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	71.56 12.26 13.29	14.46
23 05 23 00-0129 EA 1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	73.89 12.26 13.99	14.46
23 05 23 00-0130 EA 3/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.75 13.00 18.86	15.90
23 05 23 00-0131 EA 1" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.89 19.26 22.83	18.07
23 05 23 00-0132 EA 1-1/4" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	154.95 26.36 28.91	19.23
23 05 23 00-0133 EA 1-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	189.09 35.05 33.36	22.27
23 05 23 00-0134 EA 2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	258.17 57.03 39.43	26.31
23 05 23 00-0135 EA 2-1/2" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	485.09 138.41 53.25	35.55
23 05 23 00-0136 EA 3" Threaded Or Sweated, 3-Way, 125 LB, Regular Port, Carbon Steel Trim, Brass Body, Ball Valve..... <i>For Full Port, Add</i> <i>For Work In Restricted Working Space, Add</i>	693.24 219.78 61.45	41.27
23 05 23 00-0137 Wye Strainer, Union With Two Pressure Ports, Ball Valves (23 05 23 00-0093)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0138 EA 1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve	154.72	9.63
23 05 23 00-0139 EA 3/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve	198.25	12.53
23 05 23 00-0140 EA 1" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve	255.87	15.42
23 05 23 00-0141 EA 1-1/4" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve	349.76	21.20
23 05 23 00-0142 EA 1-1/2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve	438.15	24.67
23 05 23 00-0143 EA 2" Diameter, Wye Strainer, Union With Two Pressure Ports, Ball Valve	579.41	28.91
23 05 23 00-0144 Crimped Bronze, Ball Valves (23 05 23 00-0093)		
23 05 23 00-0145 Crimped Bronze, 250 PSI, Ball Valves (23 05 23 00-0144)		
Note: Nibco®		
23 05 23 00-0146 EA 1/2" Crimped Bronze, 250 PSI, Ball Valve	65.26	9.63
For Work In Restricted Working Space, Add	6.50	
23 05 23 00-0147 EA 3/4" Crimped Bronze, 250 PSI, Ball Valve	84.09	10.60
For Work In Restricted Working Space, Add	7.41	
23 05 23 00-0148 EA 1" Crimped Bronze, 250 PSI, Ball Valve	107.69	12.05
For Work In Restricted Working Space, Add	8.86	
23 05 23 00-0149 EA 1-1/4" Crimped Bronze, 250 PSI, Ball Valve	172.35	12.82
For Work In Restricted Working Space, Add	9.76	
23 05 23 00-0150 EA 1-1/2" Crimped Bronze, 250 PSI, Ball Valve	227.07	14.84
For Work In Restricted Working Space, Add	10.85	
23 05 23 00-0151 EA 2" Crimped Bronze, 250 PSI, Ball Valve	341.02	17.54
For Work In Restricted Working Space, Add	13.01	
23 05 23 00-0152 Crimped Bronze, 200 PSI, Full Port Ball Valves (23 05 23 00-0144)		
23 05 23 00-0153 EA 1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	49.99	9.63
23 05 23 00-0154 EA 3/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	64.49	10.60
23 05 23 00-0155 EA 1" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	78.50	12.05
23 05 23 00-0156 EA 1-1/4" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	112.12	12.82
23 05 23 00-0157 EA 1-1/2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	146.35	14.84
23 05 23 00-0158 EA 2" Crimped Bronze, 200 PSI, Full Port, Lever Ball Valve	219.39	17.54
23 05 23 00-0159 Crimped Bronze, 250 PSI, Full Port Ball Valves (23 05 23 00-0144)		
23 05 23 00-0160 EA 1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	58.41	9.63
23 05 23 00-0161 EA 3/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	70.62	10.60
23 05 23 00-0162 EA 1" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	88.29	12.05
23 05 23 00-0163 EA 1-1/4" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	142.73	12.82
23 05 23 00-0164 EA 1-1/2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	212.16	14.84
23 05 23 00-0165 EA 2" Crimped Bronze, 250 PSI, Full Port, Lever Ball Valve	295.92	17.54
23 05 23 00-0166 Crimped x Threaded Bronze, 250 PSI, Full Port Ball Valves (23 05 23 00-0144)		
23 05 23 00-0167 EA 1/2" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	56.12	9.63
23 05 23 00-0168 EA 3/4" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	68.47	10.60
23 05 23 00-0169 EA 1" Crimped x Threaded Bronze, 250 PSI, Full Port, Lever Ball Valve	83.39	12.05
23 05 23 00-0170 Globe Valves (23 05 23)		
23 05 23 00-0171 Threaded Or Sweated, 125 LB, Bronze Body, Globe Valves (23 05 23 00-0170)		
23 05 23 00-0172 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	64.25	9.63
For 150 LB Rating, Add	10.28	
For 200 LB Rating, Add	12.60	
For 250 LB Rating, Add	14.92	
For 300 LB Rating, Add	18.24	
For Work In Restricted Working Space, Add	9.33	
23 05 23 00-0173 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	61.23	9.63
For 150 LB Rating, Add	10.28	
For 200 LB Rating, Add	12.60	
For 250 LB Rating, Add	14.92	
For 300 LB Rating, Add	18.24	
For Work In Restricted Working Space, Add	8.42	
23 05 23 00-0174 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	79.04	9.63
For 150 LB Rating, Add	15.35	
For 200 LB Rating, Add	18.81	
For 250 LB Rating, Add	22.28	
For 300 LB Rating, Add	27.23	
For Work In Restricted Working Space, Add	8.86	
23 05 23 00-0175 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve	80.59	9.63
For 150 LB Rating, Add	15.35	
For 200 LB Rating, Add	18.81	
For 250 LB Rating, Add	22.28	
For 300 LB Rating, Add	27.23	
For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add	66.89	
For Work In Restricted Working Space, Add	9.33	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0176 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	95.57 16.63 20.39 24.15 29.51 75.79 12.57	10.12
23 05 23 00-0177 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	123.26 22.48 27.56 32.64 39.89 100.08 15.22	10.12
23 05 23 00-0178 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	189.52 38.83 47.60 56.37 68.89 163.49 19.28	12.82
23 05 23 00-0179 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	253.15 55.49 68.02 80.55 98.46 226.57 22.24	14.84
23 05 23 00-0180 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 600 LB Rating, Forged Steel, Bolted Bonnet, Socket Weld, Add</i> <i>For Work In Restricted Working Space, Add</i>	298.07 65.24 79.97 94.70 115.75 266.54 26.29	17.54
23 05 23 00-0181 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	330.51 65.77 80.62 95.48 116.69 35.50	23.69
23 05 23 00-0182 EA 3" Globe Valve, Bronze, Threaded Or Soldered, 125 LB <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	611.90 147.36 180.63 213.91 261.44 40.97	27.52
23 05 23 00-0183 Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0170)		
23 05 23 00-0184 EA 2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	457.36 114.62 140.50 166.38 203.36 308.73 26.29	17.54
23 05 23 00-0185 EA 2-1/2" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	566.51 138.93 170.30 201.68 246.49 374.22 35.50	23.69
23 05 23 00-0186 EA 3" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	674.35 166.72 204.36 242.01 295.79 449.06 40.97	27.52
23 05 23 00-0187 EA 4" Threaded, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For Chain Operated Type, Add</i> <i>For Work In Restricted Working Space, Add</i>	872.35 222.29 272.49 322.68 394.39 598.75 46.58	31.07
23 05 23 00-0188 Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valves (23 05 23 00-0170)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0189 EA 2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	359.74	128.48
<i>For 150 LB Rating, Add</i>	61.72	
<i>For 250 LB Rating, Add</i>	89.60	
<i>For Chain Operated Type, Add</i>	99.56	
<i>For Work In Restricted Working Space, Add</i>	48.19	
23 05 23 00-0190 EA 2-1/2" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve	404.10	128.69
<i>For 150 LB Rating, Add</i>	75.25	
<i>For 250 LB Rating, Add</i>	109.23	
<i>For Chain Operated Type, Add</i>	121.37	
<i>For Work In Restricted Working Space, Add</i>	48.41	
23 05 23 00-0191 EA 3" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	480.12	150.89
<i>For 150 LB Rating, Add</i>	90.30	
<i>For 250 LB Rating, Add</i>	131.08	
<i>For Chain Operated Type, Add</i>	145.64	
<i>For Work In Restricted Working Space, Add</i>	56.65	
23 05 23 00-0192 EA 4" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	705.36	252.95
<i>For 150 LB Rating, Add</i>	120.39	
<i>For 250 LB Rating, Add</i>	174.77	
<i>For Chain Operated Type, Add</i>	194.19	
<i>For Work In Restricted Working Space, Add</i>	95.10	
23 05 23 00-0193 EA 5" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	886.41	277.51
<i>For 150 LB Rating, Add</i>	167.42	
<i>For 250 LB Rating, Add</i>	243.03	
<i>For Chain Operated Type, Add</i>	270.04	
<i>For Work In Restricted Working Space, Add</i>	103.90	
23 05 23 00-0194 EA 6" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	1,069.49	308.33
<i>For 150 LB Rating, Add</i>	211.63	
<i>For 250 LB Rating, Add</i>	307.21	
<i>For Chain Operated Type, Add</i>	341.34	
<i>For Work In Restricted Working Space, Add</i>	116.04	
23 05 23 00-0195 EA 8" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	1,539.23	393.99
<i>For 150 LB Rating, Add</i>	325.44	
<i>For 250 LB Rating, Add</i>	472.41	
<i>For Chain Operated Type, Add</i>	524.91	
<i>For Work In Restricted Working Space, Add</i>	146.83	
23 05 23 00-0196 EA 10" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	2,198.52	479.64
<i>For 150 LB Rating, Add</i>	495.68	
<i>For 250 LB Rating, Add</i>	719.54	
<i>For Chain Operated Type, Add</i>	799.49	
<i>For Work In Restricted Working Space, Add</i>	179.86	
23 05 23 00-0197 EA 12" Flanged, 125 LB, Outside Stem And Yoke, Iron Body, Globe Valve.....	3,752.43	582.42
<i>For 150 LB Rating, Add</i>	937.97	
<i>For 250 LB Rating, Add</i>	1,361.57	
<i>For Chain Operated Type, Add</i>	1,512.86	
<i>For Work In Restricted Working Space, Add</i>	218.02	
23 05 23 00-0198 Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valves (23 05 23 00-0170)		
23 05 23 00-0199 EA 1/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	56.21	9.63
<i>For 150 LB Rating, Add</i>	7.79	
<i>For 200 LB Rating, Add</i>	9.55	
<i>For 300 LB Rating, Add</i>	13.82	
<i>For Work In Restricted Working Space, Add</i>	9.33	
23 05 23 00-0200 EA 1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	53.19	9.63
<i>For 150 LB Rating, Add</i>	7.79	
<i>For 200 LB Rating, Add</i>	9.55	
<i>For 300 LB Rating, Add</i>	13.82	
<i>For Work In Restricted Working Space, Add</i>	8.42	
23 05 23 00-0201 EA 3/8" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	54.66	9.63
<i>For 150 LB Rating, Add</i>	7.79	
<i>For 200 LB Rating, Add</i>	9.55	
<i>For 300 LB Rating, Add</i>	13.82	
<i>For Work In Restricted Working Space, Add</i>	8.86	
23 05 23 00-0202 EA 1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	57.89	9.63
<i>For 150 LB Rating, Add</i>	8.31	
<i>For 200 LB Rating, Add</i>	10.18	
<i>For 300 LB Rating, Add</i>	14.74	
<i>For Work In Restricted Working Space, Add</i>	9.33	
23 05 23 00-0203 EA 3/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	79.07	10.12
<i>For 150 LB Rating, Add</i>	11.52	
<i>For 200 LB Rating, Add</i>	14.12	
<i>For 300 LB Rating, Add</i>	20.44	
<i>For Work In Restricted Working Space, Add</i>	12.57	
23 05 23 00-0204 EA 1" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	99.49	10.12
<i>For 150 LB Rating, Add</i>	15.12	
<i>For 200 LB Rating, Add</i>	18.53	
<i>For 300 LB Rating, Add</i>	26.82	
<i>For Work In Restricted Working Space, Add</i>	15.22	
23 05 23 00-0205 EA 1-1/4" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	136.69	12.82
<i>For 150 LB Rating, Add</i>	22.45	
<i>For 200 LB Rating, Add</i>	27.52	
<i>For 300 LB Rating, Add</i>	39.84	
<i>For Work In Restricted Working Space, Add</i>	19.28	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0206 EA 1-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	158.59	14.84
For 150 LB Rating, Add	26.18	
For 200 LB Rating, Add	32.09	
For 300 LB Rating, Add	46.45	
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0207 EA 2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	214.82	17.54
For 150 LB Rating, Add	39.43	
For 200 LB Rating, Add	48.34	
For 300 LB Rating, Add	69.96	
For Work In Restricted Working Space, Add	26.29	
23 05 23 00-0208 EA 2-1/2" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	357.95	25.74
For 150 LB Rating, Add	71.13	
For 200 LB Rating, Add	87.19	
For 300 LB Rating, Add	126.19	
For Work In Restricted Working Space, Add	38.55	
23 05 23 00-0209 EA 3" Threaded Or Sweated, 125 LB, Bronze Body, Angle Globe Valve	536.84	29.88
For 150 LB Rating, Add	120.45	
For 200 LB Rating, Add	147.65	
For 300 LB Rating, Add	213.71	
For Work In Restricted Working Space, Add	44.48	
23 05 23 00-0210 Flanged, 125 LB, Iron Body, Angle Globe Valves (23 05 23 00-0170)		
23 05 23 00-0211 EA 2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	672.92	128.48
For 250 LB Rating, Add	307.37	
For Chain Operated Type, Add	199.79	
For Work In Restricted Working Space, Add	48.19	
23 05 23 00-0212 EA 2-1/2" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	767.24	128.69
For 250 LB Rating, Add	363.52	
For Chain Operated Type, Add	236.29	
For Work In Restricted Working Space, Add	48.41	
23 05 23 00-0213 EA 3" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	902.81	150.89
For 250 LB Rating, Add	428.38	
For Chain Operated Type, Add	278.45	
For Work In Restricted Working Space, Add	56.65	
23 05 23 00-0214 EA 4" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	1,336.74	252.95
For 250 LB Rating, Add	611.85	
For Chain Operated Type, Add	397.70	
For Work In Restricted Working Space, Add	95.10	
23 05 23 00-0215 EA 5" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	2,173.92	277.51
For 250 LB Rating, Add	1,096.55	
For Chain Operated Type, Add	712.76	
For Work In Restricted Working Space, Add	103.90	
23 05 23 00-0216 EA 6" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	2,214.39	308.33
For 250 LB Rating, Add	1,096.55	
For Chain Operated Type, Add	712.76	
For Work In Restricted Working Space, Add	116.04	
23 05 23 00-0217 EA 8" Flanged, 125 LB, Iron Body, Angle Globe Valve.....	4,066.36	393.99
For 250 LB Rating, Add	2,146.16	
For Chain Operated Type, Add	1,395.01	
For Work In Restricted Working Space, Add	146.83	
23 05 23 00-0218 Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valves (23 05 23 00-0170)		
Note: 800 PSIG at 850 degrees F.		
23 05 23 00-0219 EA 1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve	188.76	15.62
For Work In Restricted Working Space, Add	8.42	
23 05 23 00-0220 EA 1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve	191.78	15.62
For Work In Restricted Working Space, Add	9.33	
23 05 23 00-0221 EA 3/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve	224.71	21.01
For Work In Restricted Working Space, Add	12.57	
23 05 23 00-0222 EA 1" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve	277.76	25.34
For Work In Restricted Working Space, Add	15.22	
23 05 23 00-0223 EA 1-1/4" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve	453.45	32.09
For Work In Restricted Working Space, Add	19.28	
23 05 23 00-0224 EA 1-1/2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve	544.41	37.11
For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0225 EA 2" Class 800 Outside Stem And Yoke, Threaded, Chrome Trim, Bolted Bonnet, Forged Steel, Globe Valve	693.52	43.85
For Work In Restricted Working Space, Add	26.29	
23 05 23 00-0226 Triple Duty Valves (23 05 23)		
Note: Valves function as a shut-off, check valve and calibrated balancing valve.		
23 05 23 00-0227 Straight Pattern, Triple Duty Valves (23 05 23 00-0226)		
Note: Bell & Gossett 3DX and 3DS-S Series.		
23 05 23 00-0228 EA 1" Threaded, Straight Pattern, Triple Duty Valve	241.48	10.12
23 05 23 00-0229 EA 1-1/4" Threaded, Straight Pattern, Triple Duty Valve	280.18	12.82
23 05 23 00-0230 EA 1-1/2" Threaded, Straight Pattern, Triple Duty Valve	304.50	14.84
23 05 23 00-0231 EA 2" Flanged, Straight Pattern, Triple Duty Valve.....	786.97	128.48
23 05 23 00-0232 EA 2-1/2" Flanged, Straight Pattern, Triple Duty Valve.....	884.90	128.69
23 05 23 00-0233 EA 3" Flanged, Straight Pattern, Triple Duty Valve.....	969.96	150.89
23 05 23 00-0234 EA 4" Flanged, Straight Pattern, Triple Duty Valve.....	1,980.02	252.95
23 05 23 00-0235 EA 5" Flanged, Straight Pattern Triple Duty Valve.....	2,308.14	277.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0236 EA 6" Flanged, Straight Pattern, Triple Duty Valve.....	3,064.94	308.33
23 05 23 00-0237 EA 8" Flanged, Straight Pattern, Triple Duty Valve.....	4,125.06	393.99
23 05 23 00-0238 EA 10" Flanged, Straight Pattern, Triple Duty Valve.....	6,603.74	479.64
23 05 23 00-0239 Flanged, Angle Pattern, Triple Duty Valves (23 05 23 00-0226)		
Note: Bell & Gossett 3D-S Series.		
23 05 23 00-0240 EA 2" Flanged, Angle Pattern, Triple Duty Valve.....	768.97	128.48
23 05 23 00-0241 EA 2-1/2" Flanged, Angle Pattern, Triple Duty Valve.....	863.30	128.69
23 05 23 00-0242 EA 3" Flanged, Angle Pattern, Triple Duty Valve.....	951.96	150.89
23 05 23 00-0243 EA 4" Flanged, Angle Pattern, Triple Duty Valve.....	1,933.23	252.95
23 05 23 00-0244 EA 5" Flanged, Angle Pattern, Triple Duty Valve.....	2,250.55	277.51
23 05 23 00-0245 EA 6" Flanged, Angle Pattern, Triple Duty Valve.....	2,525.00	308.33
23 05 23 00-0246 EA 8" Flanged, Angle Pattern, Triple Duty Valve.....	3,869.48	393.99
23 05 23 00-0247 EA 10" Flanged, Angle Pattern, Triple Duty Valve.....	5,167.48	479.64
23 05 23 00-0248 Balanced, Straight Pattern, Triple Duty Valves (23 05 23 00-0226)		
Note: Bell & Gossett 3DS-B Series.		
23 05 23 00-0249 EA 3" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	890.77	150.89
23 05 23 00-0250 EA 4" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	1,771.24	252.95
23 05 23 00-0251 EA 5" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,066.97	277.51
23 05 23 00-0252 EA 6" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	2,737.37	308.33
23 05 23 00-0253 EA 8" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	3,678.70	393.99
23 05 23 00-0254 EA 10" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	5,858.61	479.64
23 05 23 00-0255 EA 12" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	8,804.48	582.42
23 05 23 00-0256 EA 14" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	10,699.26	685.19
23 05 23 00-0257 EA 16" Flanged, Balanced, Straight Pattern, Triple Duty Valve.....	13,394.02	753.71
23 05 23 00-0258 Grooved Straight Pattern, Triple Duty Valves (23 05 23 00-0226)		
Note: Bell & Gossett 3DS-G Series.		
23 05 23 00-0259 EA 2" Grooved, Straight Pattern, Triple Duty Valve.....	827.10	23.81
23 05 23 00-0260 EA 2-1/2" Grooved, Straight Pattern, Triple Duty Valve.....	985.98	28.40
23 05 23 00-0261 EA 3" Grooved, Straight Pattern, Triple Duty Valve.....	1,147.64	30.80
23 05 23 00-0262 EA 4" Grooved, Straight Pattern, Triple Duty Valve.....	1,903.96	33.19
23 05 23 00-0263 EA 5" Grooved, Straight Pattern, Triple Duty Valve.....	2,206.88	43.68
23 05 23 00-0264 EA 6" Grooved, Straight Pattern Triple Duty Valve.....	2,942.05	56.01
23 05 23 00-0265 EA 8" Grooved, Straight Pattern Triple Duty Valve.....	4,001.01	71.09
23 05 23 00-0266 EA 10" Grooved, Straight Pattern Triple Duty Valve.....	6,311.28	79.65
23 05 23 00-0267 EA 12" Grooved, Straight Pattern Triple Duty Valve.....	10,018.36	97.13
23 05 23 00-0268 Plug Valves (23 05 23)		
23 05 23 00-0269 Plug Valves, Lubricated, Semisteel Screwed, Wrench Operated (23 05 23 00-0268)		
Note: Includes wrench.		
23 05 23 00-0270 EA 1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	266.13	9.63
23 05 23 00-0271 EA 3/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	276.95	10.60
23 05 23 00-0272 EA 1" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	350.52	12.05
23 05 23 00-0273 EA 1-1/4" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	419.22	12.82
23 05 23 00-0274 EA 1-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	460.27	14.84
23 05 23 00-0275 EA 2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	543.31	17.54
23 05 23 00-0276 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	816.26	23.69
23 05 23 00-0277 EA 3" Diameter Plug Valve, Semi-Steel, Screwed Lubricated, 200 PSI, Wrench Operated, With Wrench.....	999.96	27.52
23 05 23 00-0278 Plug Valves, Lubricated, Semisteel Flanged (23 05 23 00-0268)		
Note: Wrench operated for 4", gear operated for 6" and 10".		
23 05 23 00-0279 EA 2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	373.26	128.48
23 05 23 00-0280 EA 2-1/2" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	441.45	128.69
23 05 23 00-0281 EA 3" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	540.78	150.89
23 05 23 00-0282 EA 4" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	793.57	252.95
23 05 23 00-0283 EA 6" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	1,658.18	308.33
23 05 23 00-0284 EA 8" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	2,779.94	393.99
23 05 23 00-0285 EA 10" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	4,416.58	479.64
23 05 23 00-0286 EA 12" Diameter Plug Valve, Semi-Steel, Flanged, 175 PSI, Wrench Operated, With Wrench.....	6,520.47	582.42
23 05 23 00-0287 Plug Valves, Forged Steel, Screwed (23 05 23 00-0268)		
23 05 23 00-0288 EA 1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,036.43	9.63
23 05 23 00-0289 EA 3/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,223.90	10.60
23 05 23 00-0290 EA 1" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,383.19	12.05
23 05 23 00-0291 EA 1-1/4" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,659.15	12.82
23 05 23 00-0292 EA 1-1/2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	1,932.17	14.84
23 05 23 00-0293 EA 2" Plug Valve, 1,500 LB, Forged Steel, Screwed.....	2,543.19	17.54
23 05 23 00-0294 Plug Valves, Eccentric, Cast Iron Flanged (23 05 23 00-0268)		
23 05 23 00-0295 EA 4" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	768.97	252.95
23 05 23 00-0296 EA 6" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI.....	1,161.85	308.33

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 23 00-0297	EA	8" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	1,569.74	393.99
23 05 23 00-0298	EA	10" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	2,198.53	479.64
23 05 23 00-0299	EA	12" Diameter Plug Valve, Eccentric, Cast Iron, Flanged, 175 PSI	2,825.10	582.42
23 05 23 00-0300		Foot Valves (23 05 23)		
23 05 23 00-0301		Single Poppet Foot Valves, Metal To Metal Seat Construction (23 05 23 00-0300)		
23 05 23 00-0302	EA	1" Single Poppet Foot Valve, Metal To Metal Seat Construction	82.99	24.11
23 05 23 00-0303	EA	1-1/4" Single Poppet Foot Valve, Metal To Metal Seat Construction	94.53	26.99
23 05 23 00-0304	EA	1-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction	122.27	30.86
23 05 23 00-0305	EA	2" Single Poppet Foot Valve, Metal To Metal Seat Construction	162.19	34.71
23 05 23 00-0306	EA	2-1/2" Single Poppet Foot Valve, Metal To Metal Seat Construction	375.36	56.88
23 05 23 00-0307	EA	3" Single Poppet Foot Valve, Metal To Metal Seat Construction	480.86	69.42
23 05 23 00-0308		Double Poppet Foot Valves, Metal To Metal Seat Construction (23 05 23 00-0300)		
23 05 23 00-0309	EA	1" Double Poppet Foot Valve, Metal To Metal Seat Construction	82.99	24.11
23 05 23 00-0310	EA	1-1/4" Double Poppet Foot Valve, Metal To Metal Seat Construction	183.89	26.99
23 05 23 00-0311	EA	1-1/2" Double Poppet Foot Valve, Metal To Metal Seat Construction	173.82	30.86
23 05 23 00-0312	EA	2" Double Poppet Foot Valve, Metal To Metal Seat Construction	237.76	34.71
23 05 23 00-0313	EA	3" Double Poppet Foot Valve, Metal To Metal Seat Construction	469.07	56.88
23 05 23 00-0314	EA	4" Double Poppet Foot Valve, Metal To Metal Seat Construction	639.86	68.45
23 05 23 00-0315		Float Valves (23 05 23)		
23 05 23 00-0316		Float Valve Assembly For Maintaining Liquid Level In Tanks (23 05 23 00-0315)		
23 05 23 00-0317		Single Seat, Bronze Construction (23 05 23 00-0316)		
Note: For storage tanks, reservoirs, cooling towers and filtration plants.				
23 05 23 00-0318	EA	Inlet Size 1/2", Maximum PSI 100, Single Seat Float Valve	202.04	20.25
23 05 23 00-0319	EA	Inlet Size 3/4", Maximum PSI 100, Single Seat Float Valve	231.36	24.10
23 05 23 00-0320	EA	Inlet Size 1", Maximum PSI 100, Single Seat Float Valve	301.66	26.03
23 05 23 00-0321	EA	Inlet Size 1-1/4", Maximum PSI 90, Single Seat Float Valve	505.99	32.77
23 05 23 00-0322	EA	Inlet Size 1-1/2", Maximum PSI 90, Single Seat Float Valve	515.62	37.59
23 05 23 00-0323		Double Seat, Bronze Construction (23 05 23 00-0316)		
Note: For hot or cold water or oil to open tanks.				
23 05 23 00-0324	EA	Pipe Size 1/2" Maximum PSI 150, Double Seat Float Valve	1,106.58	20.25
23 05 23 00-0325	EA	Pipe Size 3/4" Maximum PSI 150, Double Seat Float Valve	1,114.29	24.10
23 05 23 00-0326	EA	Pipe Size 1" Maximum PSI 150, Double Seat Float Valve	1,286.78	26.03
23 05 23 00-0327	EA	Pipe Size 1-1/4" Maximum PSI 150, Double Seat Float Valve	1,421.43	32.77
23 05 23 00-0328	EA	Pipe Size 1-1/2" Maximum PSI 150, Double Seat Float Valve	1,624.90	37.59
23 05 23 00-0329	EA	Pipe Size 2" Maximum PSI 150, Double Seat Float Valve	2,132.68	44.33
23 05 23 00-0330	EA	Pipe Size 2-1/2" Maximum PSI 150, Double Seat Float Valve	2,478.00	59.46
23 05 23 00-0331	EA	Pipe Size 3" Maximum PSI 150, Double Seat Float Valve	2,981.22	68.35
23 05 23 00-0332		Float Valve Single Seated Balanced For Air Oil Or Water (23 05 23 00-0315)		
Note: Includes arm, ball and bracket.				
23 05 23 00-0333		Brass Body Threaded Ends (23 05 23 00-0332)		
23 05 23 00-0334	EA	1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket	209.58	26.12
23 05 23 00-0335	EA	3/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket	237.09	29.02
23 05 23 00-0336	EA	1" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket	294.88	32.09
23 05 23 00-0337	EA	1-1/4" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket	471.16	51.86
23 05 23 00-0338	EA	1-1/2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket	491.97	59.09
23 05 23 00-0339	EA	2" Brass Body, Threaded Ends, Float Valve, Single Seated With Arm Ball And Bracket	551.84	73.25
23 05 23 00-0340		Cast Iron Body Flanged (23 05 23 00-0332)		
23 05 23 00-0341	EA	2-1/2" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket	6,974.21	128.69
23 05 23 00-0342	EA	3" Cast Iron Body, Flanged, Float Valve, Single Seated With Arm Ball And Bracket	8,433.67	150.89
23 05 23 00-0343		Float Operated Valves (23 05 23 00-0315)		
23 05 23 00-0344		For Condensate Receivers Tanks And Vessels (23 05 23 00-0343)		
Note: Cast iron body, self-contained, float in-line mount.				
23 05 23 00-0345	EA	1" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket	768.76	45.30
23 05 23 00-0346		For Condensate Receivers Tanks And Vessels (23 05 23 00-0343)		
Note: Cast iron body, external float tank mount, flanged.				
23 05 23 00-0347	EA	3/4" Inlet, Float Operated Valve, Single Seated With Arm Ball And Bracket	961.37	84.31
23 05 23 00-0348		Needle Valves (23 05 23)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0349				Bronze Needle Valve <small>(23 05 23 00-0348)</small> Note: For heating and cooling applications.		
	EA			1/4" Needle Valve, Bronze	104.44	9.63
	EA			3/8" Needle Valve, Bronze	116.67	9.63
	EA			1/2" Needle Valve, Bronze	127.77	9.63
	EA			3/4" Needle Valve, Bronze	194.60	10.60
	EA			1" Needle Valve, Bronze	299.81	12.05
23 05 23 00-0355				Eccentric Valves With Taps <small>(23 05 23)</small>		
23 05 23 00-0356				Screwed Eccentric Valves With Taps <small>(23 05 23 00-0355)</small>		
	EA			1/2" Diameter Eccentric Valves With Taps, Screwed	149.14	9.63
	EA			3/4" Diameter Eccentric Valves With Taps, Screwed	161.77	10.60
	EA			1" Diameter Eccentric Valves With Taps, Screwed	203.28	12.05
	EA			1-1/4" Diameter Eccentric Valves With Taps, Screwed	247.68	12.82
	EA			1-1/2" Diameter Eccentric Valves With Taps, Screwed	272.09	14.84
	EA			2" Diameter Eccentric Valves With Taps, Screwed	320.08	17.54
	EA			2-1/2" Diameter Eccentric Valves With Taps, Screwed	477.92	23.69
	EA			3" Diameter Eccentric Valves With Taps, Screwed	577.86	27.52
23 05 23 00-0365				Flanged Eccentric Valves With Taps <small>(23 05 23 00-0355)</small>		
	EA			2-1/2" Diameter Eccentric Valves With Taps, Flanged	588.15	128.69
	EA			3" Diameter Eccentric Valves With Taps, Flanged	697.34	150.89
	EA			4" Diameter Eccentric Valves With Taps, Flanged	961.70	252.95
	EA			5" Diameter Eccentric Valves With Taps, Flanged	1,254.38	277.51
	EA			6" Diameter Eccentric Valves With Taps, Flanged	1,567.26	308.33
	EA			8" Diameter Eccentric Valves With Taps, Flanged	2,623.31	393.99
	EA			10" Diameter Eccentric Valves With Taps, Flanged	3,641.47	479.64
	EA			12" Diameter Eccentric Valves With Taps, Flanged	6,129.56	582.42
23 05 23 00-0374				Earthquake-Sensitive Gas Shut-Off Valve <small>(23 05 23)</small>		
23 05 23 00-0375				0.5 PSI Threaded Earthquake Gas Shutoff Valves <small>(23 05 23 00-0374)</small>		
	EA			3/4" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve	152.96	10.60
	EA			1" Diameter Threaded, 0.5 PSI Earthquake Gas Shutoff Valve	172.99	12.05
23 05 23 00-0378				7 PSI Threaded Earthquake Gas Shutoff Valves <small>(23 05 23 00-0374)</small>		
	EA			1-1/4" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve	201.80	12.82
	EA			1-1/2" Diameter Threaded, 7 PSI Earthquake Gas Shutoff Valve	272.81	14.84
23 05 23 00-0381				60 PSI Threaded Earthquake Gas Shutoff Valves <small>(23 05 23 00-0374)</small>		
	EA			3/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	189.64	10.60
	EA			1" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	198.46	12.05
	EA			1-1/4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	222.17	12.82
	EA			1-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	303.37	14.84
	EA			2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	698.90	17.54
	EA			2-1/2" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	831.08	23.61
	EA			3" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	1,078.94	27.52
	EA			4" Diameter Threaded, 60 PSI Earthquake Gas Shutoff Valve	1,250.54	31.07
23 05 23 00-0390				60 PSI Flanged Earthquake Gas Shutoff Valves <small>(23 05 23 00-0374)</small>		
	EA			2" Flanged, 60 PSI Earthquake Gas Shutoff Valve	975.67	128.48
	EA			3" Flanged, 60 PSI Earthquake Gas Shutoff Valve	1,202.55	150.89
	EA			4" Flanged, 60 PSI Earthquake Gas Shutoff Valve	1,692.37	252.95
	EA			6" Flanged, 60 PSI Earthquake Gas Shutoff Valve	2,780.99	308.33
	EA			8" Flanged, 60 PSI Earthquake Gas Shutoff Valve	7,519.14	393.99
23 05 23 00-0396				Emergency Shut-Off Valve With Fusible Link <small>(23 05 23)</small>		
23 05 23 00-0397				Threaded, Fusible Brass Gate Valves (Morrison Bros. 939) <small>(23 05 23 00-0396)</small> Note: Brass globe/gate valve used to shut off product flow in the event of a fire. Fusible element in the handwheel automatically closes the valve when in contact with 165° F.		
	EA			1/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)	59.15	15.52
				<i>For Work In Restricted Working Space, Add</i>	8.42	
	EA			3/8" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)	60.66	16.38
				<i>For Work In Restricted Working Space, Add</i>	8.87	
	EA			1/2" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)	95.05	15.52
				<i>For Work In Restricted Working Space, Add</i>	9.33	
	EA			3/4" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)	183.94	20.92
				<i>For Work In Restricted Working Space, Add</i>	12.57	
	EA			1" Diameter Threaded, Fusible Brass Gate Valve (Morrison Bros. 939 Series)	453.40	25.34
				<i>For Work In Restricted Working Space, Add</i>	15.22	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

23 05 23 00-0403	Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) <small>(23 05 23 00-0396)</small> Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
23 05 23 00-0404	EA 1-1/2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	352.27	14.84
23 05 23 00-0405	EA 2" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	381.44	17.54
23 05 23 00-0406	EA 3" Diameter Threaded, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	638.72	27.52
23 05 23 00-0407	Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI) <small>(23 05 23 00-0396)</small> Note: Ductile iron body, cap, seat and swing arm. Viton® encapsulated Teflon® o-ring, Teflon® gasket, and stainless steel spring.		
23 05 23 00-0408	EA 2" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	533.03	128.48
23 05 23 00-0409	EA 3" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	856.24	150.89
23 05 23 00-0410	EA 4" Diameter Flanged, Ductile Iron Emergency Gas Shutoff Valves (Morrison Bros. 346-DI).....	1,939.65	252.95
23 05 23 00-0411	Check Valves <small>(23 05 23)</small>		
23 05 23 00-0412	Iron Body Wafer Type Check Valve <small>(23 05 23 00-0411)</small>		
23 05 23 00-0413	Single Disk Type <small>(23 05 23 00-0412)</small>		
23 05 23 00-0414	EA 2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	431.30	128.52
	For 150 LB Rating, Add	56.83	
	For 200 LB Rating, Add	67.65	
	For 300 LB Rating, Add	81.18	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	153.91	
23 05 23 00-0415	EA 2-1/2" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	516.00	128.75
	For 150 LB Rating, Add	74.46	
	For 200 LB Rating, Add	88.64	
	For 300 LB Rating, Add	106.37	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	191.84	
23 05 23 00-0416	EA 3" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	637.08	150.96
	For 150 LB Rating, Add	94.11	
	For 200 LB Rating, Add	112.04	
	For 300 LB Rating, Add	134.45	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	239.45	
23 05 23 00-0417	EA 4" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	924.11	253.06
	For 150 LB Rating, Add	127.47	
	For 200 LB Rating, Add	151.75	
	For 300 LB Rating, Add	182.09	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	336.57	
23 05 23 00-0418	EA 6" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,394.73	355.18
	For 150 LB Rating, Add	199.66	
	For 200 LB Rating, Add	237.69	
	For 300 LB Rating, Add	285.23	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	516.63	
23 05 23 00-0419	EA 8" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	1,967.76	408.46
	For 150 LB Rating, Add	306.40	
	For 200 LB Rating, Add	364.76	
	For 300 LB Rating, Add	437.71	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	758.31	
23 05 23 00-0420	EA 10" Check Valve, Single Disc Type, Iron Body Wafer Type, 125 LB.....	2,956.49	497.26
	For 150 LB Rating, Add	489.38	
	For 200 LB Rating, Add	582.59	
	For 300 LB Rating, Add	699.11	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	1,173.89	
23 05 23 00-0421	Twin Disc Type <small>(23 05 23 00-0412)</small>		
23 05 23 00-0422	EA 2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	485.87	128.52
	For 150 LB Rating, Add	68.29	
	For 200 LB Rating, Add	81.30	
	For 300 LB Rating, Add	97.55	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	178.47	
23 05 23 00-0423	EA 2-1/2" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	551.71	128.75
	For 150 LB Rating, Add	81.95	
	For 200 LB Rating, Add	97.57	
	For 300 LB Rating, Add	117.08	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	207.91	
23 05 23 00-0424	EA 3" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	644.27	150.96
	For 150 LB Rating, Add	95.62	
	For 200 LB Rating, Add	113.84	
	For 300 LB Rating, Add	136.60	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	242.69	
23 05 23 00-0425	EA 4" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB.....	895.38	253.06
	For 150 LB Rating, Add	121.43	
	For 200 LB Rating, Add	144.56	
	For 300 LB Rating, Add	173.48	
	For 300 LB Rating, Cast Steel, Weld End, Wedge, Add	323.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0426 EA 6" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,376.43 195.81 233.11 279.74 508.40	355.18
23 05 23 00-0427 EA 8" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	1,931.42 299.04 356.00 427.20 742.29	408.46
23 05 23 00-0428 EA 10" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	2,877.03 473.59 563.80 676.56 1,139.21	44.40
23 05 23 00-0429 EA 12" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	3,773.99 634.51 755.37 906.44 1,510.17	603.82
23 05 23 00-0430 EA 14" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	7,079.46 1,290.25 1,536.02 1,843.22 2,951.91	701.55
23 05 23 00-0431 EA 16" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	9,702.94 1,821.54 2,168.50 2,602.20 4,109.09	823.15
23 05 23 00-0432 EA 18" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	12,920.33 2,473.18 2,944.27 3,533.12 5,528.33	916.70
23 05 23 00-0433 EA 20" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	15,370.08 2,957.62 3,520.98 4,225.17 6,594.99	1,028.95
23 05 23 00-0434 EA 24" Check Valve, Twin Disc Type, Iron Body Wafer Type, 125 LB <i>For 150 LB Rating, Add</i> <i>For 200 LB Rating, Add</i> <i>For 300 LB Rating, Add</i> <i>For 300 LB Rating, Cast Steel, Weld End, Wedge, Add</i>	20,088.75 3,886.21 4,626.44 5,551.73 8,644.19	1,262.80
23 05 23 00-0435 Lift Check Valves <small>(23 05 23 00-0411)</small>		
23 05 23 00-0436 Bronze Body, Threaded, Vertical Lift Check Valves <small>(23 05 23 00-0435)</small> Note: Watts #600 series.		
23 05 23 00-0437 EA 3/8" Lift Check Valve, Bronze, Threaded	107.39	9.63
23 05 23 00-0438 EA 1/2" Lift Check Valve, Bronze, Threaded	113.64	9.63
23 05 23 00-0439 EA 3/4" Lift Check Valve, Bronze, Threaded	144.73	10.12
23 05 23 00-0440 EA 1" Lift Check Valve, Bronze, Threaded	191.05	10.12
23 05 23 00-0441 EA 1-1/4" Lift Check Valve, Bronze, Threaded	265.39	12.82
23 05 23 00-0442 EA 1-1/2" Lift Check Valve, Bronze, Threaded	323.18	14.84
23 05 23 00-0443 EA 2" Lift Check Valve, Bronze, Threaded	462.07	17.54
23 05 23 00-0444 Bronze Body, Threaded, 300 LB, Lift Check Valves <small>(23 05 23 00-0435)</small> Note: Crane 366E.		
23 05 23 00-0445 EA 1/2" Lift Check Valve, Bronze, Threaded, 300 LB	677.69	9.63
23 05 23 00-0446 EA 3/4" Lift Check Valve, Bronze, Threaded, 300 LB	822.84	10.12
23 05 23 00-0447 EA 1" Lift Check Valve, Bronze, Threaded, 300 LB	1,478.29	10.12
23 05 23 00-0448 EA 1-1/4" Lift Check Valve, Bronze, Threaded, 300 LB	1,970.47	12.82
23 05 23 00-0449 EA 1-1/2" Lift Check Valve, Bronze, Threaded, 300 LB	2,139.92	14.84
23 05 23 00-0450 EA 2" Lift Check Valve, Bronze, Threaded, 300 LB	2,749.56	17.54
23 05 23 00-0451 Iron Body, Flanged, 125 LB Vertical Lift Check Valves <small>(23 05 23 00-0435)</small> Note: Mueller 105MAP.		
23 05 23 00-0452 EA 2" Lift Check Valve, Iron Body, Flanged, 125 LB	980.29	128.48
23 05 23 00-0453 EA 2-1/2" Lift Check Valve, Iron Body, Flanged, 125 LB	897.15	128.69
23 05 23 00-0454 EA 3" Lift Check Valve, Iron Body, Flanged, 125 LB	982.18	150.89
23 05 23 00-0455 EA 4" Lift Check Valve, Iron Body, Flanged, 125 LB	1,383.12	252.95
23 05 23 00-0456 EA 5" Lift Check Valve, Iron Body, Flanged, 125 LB	1,717.80	277.51
23 05 23 00-0457 EA 6" Lift Check Valve, Iron Body, Flanged, 125 LB	2,104.88	308.33
23 05 23 00-0458 EA 8" Lift Check Valve, Iron Body, Flanged, 125 LB	3,634.01	393.99
23 05 23 00-0459 EA 10" Lift Check Valve, Iron Body, Flanged, 125 LB	4,558.74	479.64
23 05 23 00-0460 EA 12" Lift Check Valve, Iron Body, Flanged, 125 LB	7,313.71	582.42
23 05 23 00-0461 EA 14" Lift Check Valve, Iron Body, Flanged, 125 LB	9,919.39	755.89
23 05 23 00-0462 EA 16" Lift Check Valve, Iron Body, Flanged, 125 LB	10,989.91	831.48

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 23 General-Duty Valves For HVAC Piping



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0463			Bronze Body Swing Check Valves (23 05 23 00-0411)		
23 05 23 00-0464			Bronze Body, Threaded, Brazed Or Soldered Installation, 125 LB, Swing Check Valves (23 05 23 00-0463)		
23 05 23 00-0465	EA		1/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	71.96	9.63
			For 300 LB Rating, Add	15.94	
			For Work In Restricted Working Space, Add	9.33	
23 05 23 00-0466	EA		1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	68.94	9.63
			For 300 LB Rating, Add	15.94	
			For Work In Restricted Working Space, Add	8.42	
23 05 23 00-0467	EA		3/8" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	70.41	9.63
			For 300 LB Rating, Add	15.94	
			For Work In Restricted Working Space, Add	8.86	
23 05 23 00-0468	EA		1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	73.56	9.63
			For 300 LB Rating, Add	16.56	
			For Work In Restricted Working Space, Add	9.33	
23 05 23 00-0469	EA		3/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	93.36	10.12
			For 300 LB Rating, Add	20.07	
			For Work In Restricted Working Space, Add	12.57	
23 05 23 00-0470	EA		1" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	120.60	10.12
			For 300 LB Rating, Add	27.25	
			For Work In Restricted Working Space, Add	15.22	
23 05 23 00-0471	EA		1-1/4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	162.34	12.82
			For 300 LB Rating, Add	38.25	
			For Work In Restricted Working Space, Add	19.28	
23 05 23 00-0472	EA		1-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	211.49	14.84
			For 300 LB Rating, Add	53.57	
			For Work In Restricted Working Space, Add	22.24	
23 05 23 00-0473	EA		2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	264.20	17.54
			For 300 LB Rating, Add	68.87	
			For Work In Restricted Working Space, Add	26.29	
23 05 23 00-0474	EA		2-1/2" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	524.27	23.69
			For 300 LB Rating, Add	158.31	
			For Work In Restricted Working Space, Add	35.50	
23 05 23 00-0475	EA		3" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	713.88	27.52
			For 300 LB Rating, Add	225.16	
			For Work In Restricted Working Space, Add	40.97	
23 05 23 00-0476	EA		4" Swing Check Valve, Bronze, Threaded, Brazed Or Soldered, 125 LB.....	808.63	31.07
			For 300 LB Rating, Add	254.79	
			For Work In Restricted Working Space, Add	46.60	
23 05 23 00-0477			125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves (23 05 23 00-0411)		
23 05 23 00-0478	EA		1" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	300.70	72.29
			For 150 LB Rating, Add	142.64	
			For 250 LB Rating, Add	272.70	
			For Work In Restricted Working Space, Add	27.28	
23 05 23 00-0479	EA		1-1/4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	335.87	84.34
			For 150 LB Rating, Add	157.15	
			For 250 LB Rating, Add	300.43	
			For Work In Restricted Working Space, Add	31.43	
23 05 23 00-0480	EA		1-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	377.47	101.21
			For 150 LB Rating, Add	170.44	
			For 250 LB Rating, Add	325.85	
			For Work In Restricted Working Space, Add	38.05	
23 05 23 00-0481	EA		2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	471.94	128.48
			For 150 LB Rating, Add	211.69	
			For 250 LB Rating, Add	404.70	
			For Work In Restricted Working Space, Add	48.19	
23 05 23 00-0482	EA		2-1/2" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	524.69	128.69
			For 150 LB Rating, Add	247.06	
			For 250 LB Rating, Add	472.32	
			For Work In Restricted Working Space, Add	48.41	
23 05 23 00-0483	EA		3" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	583.65	150.89
			For 150 LB Rating, Add	268.47	
			For 250 LB Rating, Add	513.25	
			For Work In Restricted Working Space, Add	56.65	
23 05 23 00-0484	EA		4" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	927.15	252.95
			For 150 LB Rating, Add	414.91	
			For 250 LB Rating, Add	793.21	
			For Work In Restricted Working Space, Add	95.10	
23 05 23 00-0485	EA		5" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,242.17	277.51
			For 150 LB Rating, Add	609.16	
			For 250 LB Rating, Add	1,164.58	
			For Work In Restricted Working Space, Add	103.90	
23 05 23 00-0486	EA		6" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	1,425.49	308.33
			For 150 LB Rating, Add	706.30	
			For 250 LB Rating, Add	1,350.28	
			For Work In Restricted Working Space, Add	116.04	
23 05 23 00-0487	EA		8" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves.....	3,082.62	393.99
			For 150 LB Rating, Add	1,763.38	
			For 250 LB Rating, Add	3,371.16	
			For Work In Restricted Working Space, Add	146.83	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0488 EA 10" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,129.44 2,400.33 4,588.87 179.86	479.64
23 05 23 00-0489 EA 12" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,231.43 3,743.20 7,156.12 218.02	582.42
23 05 23 00-0490 EA 14" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,176.95 4,237.81 8,101.70 283.46	755.89
23 05 23 00-0491 EA 16" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,116.33 6,172.35 11,800.07 311.81	831.48
23 05 23 00-0492 EA 18" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	15,419.21 9,701.20 18,546.41 345.82	922.19
23 05 23 00-0493 EA 20" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	21,155.72 13,502.44 25,813.49 389.76	1,039.35
23 05 23 00-0494 EA 24" 125 LB Flanged, Iron Body, Bronze Trim, Swing Check Valves <i>For 150 LB Rating, Add</i> <i>For 250 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	29,392.37 18,902.57 36,137.27 478.34	1,275.57
23 05 23 00-0495 Class 800 Forged Steel, Screwed, Chrome Trim, Bolted Bonnet, Piston Check, Swing Check Valves (23 05 23 00-0411) Note: 800 PSIG at 850 Degrees F.		
23 05 23 00-0496 EA 1/2" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	172.61 9.33	9.63
23 05 23 00-0497 EA 3/4" 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	202.60 12.57	10.60
23 05 23 00-0498 EA 1" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	239.43 15.22	12.05
23 05 23 00-0499 EA 1-1/4" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	372.86 19.28	12.82
23 05 23 00-0500 EA 1-1/2" 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	442.69 22.24	14.84
23 05 23 00-0501 EA 2" Class 800, Threaded, Forged Steel Swing Check Valve <i>For Work In Restricted Working Space, Add</i>	600.65 26.29	17.54
23 05 23 00-0502 Swing Check Valves, 150 LB Polyvinyl Chloride (PVC) Socket Weld End Connections (23 05 23 00-0411)		
23 05 23 00-0503 EA 1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	51.19 9.33	9.63
23 05 23 00-0504 EA 3/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	62.01 12.57	10.60
23 05 23 00-0505 EA 1" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	71.62 15.22	12.05
23 05 23 00-0506 EA 1-1/4" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	86.01 19.28	12.82
23 05 23 00-0507 EA 1-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	97.15 22.24	14.84
23 05 23 00-0508 EA 2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	123.39 26.29	17.54
23 05 23 00-0509 EA 2-1/2" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	169.27 35.50	23.69
23 05 23 00-0510 EA 3" Check Valve, Duplex Polyvinyl Chloride (PVC), Socket Weld, 150 LB <i>For Work In Restricted Working Space, Add</i>	202.64 40.97	27.52
23 05 23 00-0511 Crimped Bronze, 200 PSI, Y-Pattern, Swing Check Valves (23 05 23 00-0411) Note: Nibco®		
23 05 23 00-0512 EA 1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve <i>For Work In Restricted Working Space, Add</i>	122.39 6.50	9.63
23 05 23 00-0513 EA 3/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve <i>For Work In Restricted Working Space, Add</i>	155.49 7.41	10.60
23 05 23 00-0514 EA 1" Crimped Bronze, 200 PSI, Y-Pattern Check Valve <i>For Work In Restricted Working Space, Add</i>	214.42 8.86	12.05
23 05 23 00-0515 EA 1-1/4" Crimped Bronze, 200 PSI, Y-Pattern Check Valve <i>For Work In Restricted Working Space, Add</i>	285.07 9.76	12.82
23 05 23 00-0516 EA 1-1/2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve <i>For Work In Restricted Working Space, Add</i>	339.81 10.85	14.84
23 05 23 00-0517 EA 2" Crimped Bronze, 200 PSI, Y-Pattern Check Valve <i>For Work In Restricted Working Space, Add</i>	485.34 13.01	17.54

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0518 Crimped Bronze, 250 PSI, In-Line, Check Valves <small>(23 05 23 00-0411)</small>		
23 05 23 00-0519 EA 1/2" Crimped Bronze, 200 PSI, In-Line Check Valve	43.53	9.63
23 05 23 00-0520 EA 3/4" Crimped Bronze, 200 PSI, In-Line Check Valve	52.67	10.60
23 05 23 00-0521 EA 1" Crimped Bronze, 200 PSI, In-Line Check Valve	61.75	12.05
23 05 23 00-0522 EA 1-1/4" Crimped Bronze, 200 PSI, In-Line Check Valve	79.13	12.82
23 05 23 00-0523 EA 1-1/2" Crimped Bronze, 200 PSI, In-Line Check Valve	102.31	14.84
23 05 23 00-0524 EA 2" Crimped Bronze, 200 PSI, In-Line Check Valve	163.79	17.54
23 05 23 00-0525 Diaphragm Valves <small>(23 05 23)</small>		
23 05 23 00-0526 Polytetrafluoroethylene (PTFE) Or Viton Lined, Threaded Cast Iron Diaphragm Valves <small>(23 05 23 00-0525)</small>		
23 05 23 00-0527 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	254.11	28.85
23 05 23 00-0528 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	327.60	31.95
23 05 23 00-0529 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	353.44	39.50
23 05 23 00-0530 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	562.38	59.02
23 05 23 00-0531 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	914.41	71.00
23 05 23 00-0532 Polytetrafluoroethylene (PTFE) Or Viton Lined, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0525)</small>		
23 05 23 00-0533 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	215.72	46.26
23 05 23 00-0534 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	250.11	48.19
23 05 23 00-0535 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	298.28	72.29
23 05 23 00-0536 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	449.35	101.21
23 05 23 00-0537 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	706.98	128.48
23 05 23 00-0538 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	894.52	128.69
23 05 23 00-0539 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	1,108.75	150.89
23 05 23 00-0540 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	1,579.80	252.95
23 05 23 00-0541 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	3,215.97	308.33
23 05 23 00-0542 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Polytetrafluoroethylene (PTFE) or Viton Lined, Hand Wheel Operated	4,975.77	393.99
23 05 23 00-0543 Ethylene Propylene Diene Monomer (EPDM) Lined, Threaded Cast Iron Diaphragm Valves <small>(23 05 23 00-0525)</small>		
23 05 23 00-0544 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	151.84	28.85
23 05 23 00-0545 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	201.10	31.95
23 05 23 00-0546 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	226.94	39.50
23 05 23 00-0547 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	390.12	59.02
23 05 23 00-0548 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Threaded, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	513.37	71.00
23 05 23 00-0549 Ethylene Propylene Diene Monomer (EPDM) Lined, Flanged Cast Iron Diaphragm Valves <small>(23 05 23 00-0525)</small>		
23 05 23 00-0550 EA 1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	148.34	46.26
23 05 23 00-0551 EA 3/4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	172.79	48.19
23 05 23 00-0552 EA 1" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	220.94	72.29
23 05 23 00-0553 EA 1-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	344.04	101.21
23 05 23 00-0554 EA 2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	461.78	128.48
23 05 23 00-0555 EA 2-1/2" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	554.00	128.69
23 05 23 00-0556 EA 3" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	672.66	150.89
23 05 23 00-0557 EA 4" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated	1,065.76	252.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0558 EA 6" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	2,064.32	308.33
23 05 23 00-0559 EA 8" Diaphragm Valve, Cast Iron, 150 LB, Flanged, Ethylene Propylene Diene Monomer (EPDM) Lined, Hand Wheel Operated.....	3,149.15	393.99
23 05 23 00-0560 125 LB, Hand Wheel Operated, Flanged Cast Iron Diaphragm Valves (23 05 23 00-0561-0567)		
23 05 23 00-0561 EA 1" Diaphragm Valve, Cast Iron, 125 LB, Flanged.....	274.98	72.29
23 05 23 00-0562 EA 1-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged.....	440.80	101.21
23 05 23 00-0563 EA 2" Diaphragm Valve, Cast Iron, 125 LB, Flanged.....	590.99	128.48
23 05 23 00-0564 EA 2-1/2" Diaphragm Valve, Cast Iron, 125 LB, Flanged.....	832.61	128.69
23 05 23 00-0565 EA 3" Diaphragm Valve, Cast Iron, 125 LB, Flanged.....	922.33	150.89
23 05 23 00-0566 EA 4" Diaphragm Valve, Cast Iron, 125 LB, Flanged.....	1,451.06	252.95
23 05 23 00-0567 EA 6" Diaphragm Valve, Cast Iron, 125 LB, Flanged.....	2,849.83	308.33
23 05 23 00-0568 EA 8" Diaphragm Valve, Cast Iron, 125 LB, Flanged.....	5,853.90	393.99
23 05 23 00-0569 Solenoid Valves (23 05 23)		
23 05 23 00-0570 Bronze Body Solenoid Valves, 150 PSI Maximum Water Pressure (23 05 23 00-0571-0578)		
23 05 23 00-0571 EA 1/4" Solenoid Valve, Bronze, 150 PSI, Water.....	92.44	9.63
23 05 23 00-0572 EA 1/2" Solenoid Valve, Bronze, 150 PSI, Water.....	106.98	9.63
23 05 23 00-0573 EA 3/4" Solenoid Valve, Bronze, 150 PSI, Water.....	137.35	10.60
23 05 23 00-0574 EA 1" Solenoid Valve, Bronze, 150 PSI, Water.....	200.22	12.05
23 05 23 00-0575 EA 1-1/2" Solenoid Valve, Bronze, 150 PSI, Water.....	350.12	14.84
23 05 23 00-0576 EA 2" Solenoid Valve, Bronze, 150 PSI, Water.....	542.63	17.54
23 05 23 00-0577 EA 2-1/2" Solenoid Valve, Bronze, 150 PSI, Water.....	738.89	23.69
23 05 23 00-0578 EA 3" Solenoid Valve, Bronze, 150 PSI, Water.....	1,064.99	27.52
23 05 23 00-0579 Flow Control Valves And Meters (23 05 23)		
23 05 23 00-0580 Conditioned Water Balancing Valves (23 05 23 00-0581-0593)		
Note: Working pressures up to 300 PSIG. Iron and bronze body construction (combination balancing, flow measuring and shut-off). Excludes portable read-out meter.		
23 05 23 00-0581 EA 1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	123.50	49.18
23 05 23 00-0582 EA 3/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	149.70	65.56
23 05 23 00-0583 EA 1" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	300.20	74.91
23 05 23 00-0584 EA 1-1/4" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	394.50	92.56
23 05 23 00-0585 EA 1-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	459.75	98.34
23 05 23 00-0586 EA 2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	627.20	112.42
23 05 23 00-0587 EA 2-1/2" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	1,194.03	195.71
23 05 23 00-0588 EA 3" NPT Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	1,689.29	223.68
23 05 23 00-0589 EA 3" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	1,385.98	150.96
23 05 23 00-0590 EA 4" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	1,715.10	253.06
23 05 23 00-0591 EA 6" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	2,005.17	319.67
23 05 23 00-0592 EA 8" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	3,395.38	408.46
23 05 23 00-0593 EA 10" Flanged Flow Control Valve, Iron And Bronze, Water Balancing Valve With Pressures Up To 300 PSIG.....	5,715.24	497.26
23 05 23 00-0594 Read Out Meters (23 05 23 00-0595-0598)		
Note: For use with conditioned portable water balancing valves.		
23 05 23 00-0595 EA 0.5 - 25% Accuracy Read Out Meter For Use With Portable Water Balancing Valve.....	845.55	
23 05 23 00-0596 EA 0.5 - 50% Accuracy Read Out Meter For Use With Portable Water Balancing Valve.....	1,144.28	
23 05 23 00-0597 EA 0.5 - 75% Accuracy Read Out Meter For Use With Portable Water Balancing Valve.....	1,144.28	
23 05 23 00-0598 EA 0.5 - 100% Accuracy Read Out Meter For Use With Portable Water Balancing Valve.....	1,144.28	
23 05 23 00-0599 Balancing Valves (23 05 23)		
23 05 23 00-0600 Balancing Valves With Lever (23 05 23 00-0601-0612)		
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0601 EA 1/2" Threaded Balancing Valve With Lever.....	197.52	30.37
23 05 23 00-0602 EA 3/4" Threaded Balancing Valve With Lever.....	221.11	40.01
23 05 23 00-0603 EA 1" Threaded Balancing Valve With Lever.....	236.08	45.80
23 05 23 00-0604 EA 1-1/4" Threaded Balancing Valve With Lever.....	269.98	56.88
23 05 23 00-0605 EA 1-1/2" Threaded Balancing Valve With Lever.....	289.45	60.26
23 05 23 00-0606 EA 2" Threaded Balancing Valve With Lever.....	320.75	68.94
23 05 23 00-0607 EA 2-1/2" Flanged Balancing Valve With Lever.....	516.91	128.75
23 05 23 00-0608 EA 3" Flanged Balancing Valve With Lever.....	590.14	150.96
23 05 23 00-0609 EA 4" Flanged Balancing Valve With Lever.....	899.58	253.06
23 05 23 00-0610 EA 5" Flanged Balancing Valve With Lever.....	1,342.73	287.70
23 05 23 00-0611 EA 6" Flanged Balancing Valve With Lever.....	1,384.67	319.67
23 05 23 00-0612 EA 8" Flanged Balancing Valve With Lever.....	1,872.92	408.46
23 05 23 00-0613 Balancing Valves With Nut (23 05 23 00-0614-0615)		
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0614 EA 4" Flanged Balancing Valve With Nut.....	853.83	253.06
23 05 23 00-0615 EA 5" Flanged Balancing Valve With Nut.....	1,284.66	287.70

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 23 General-Duty Valves For HVAC Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0616 EA 6" Flanged Balancing Valve With Nut.....	1,326.60	319.67
23 05 23 00-0617 EA 8" Flanged Balancing Valve With Nut.....	1,791.98	408.46
23 05 23 00-0618 Balancing Valves With Hand Wheel (23 05 23 00-0599)		
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0619 EA 4" Flanged Balancing Valve With Hand Wheel.....	1,196.97	253.06
23 05 23 00-0620 EA 5" Flanged Balancing Valve With Hand Wheel.....	1,645.40	287.70
23 05 23 00-0621 EA 6" Flanged Balancing Valve With Hand Wheel.....	1,687.34	319.67
23 05 23 00-0622 EA 8" Flanged Balancing Valve With Hand Wheel.....	2,186.14	408.46
23 05 23 00-0623 EA 10" Flanged Balancing Valve With Hand Wheel.....	3,250.53	497.26
23 05 23 00-0624 EA 12" Flanged Balancing Valve With Hand Wheel.....	4,235.62	396.89
23 05 23 00-0625 EA 14" Flanged Balancing Valve With Hand Wheel.....	5,728.77	748.33
23 05 23 00-0626 Balancing Valves With Chain Wheel (23 05 23 00-0599)		
Note: DeZurik PEC eccentric, non-lubricated plug valves, cast iron high temperature faced plug, nickel seats, buna vee packing, bronze bearings with integral gage taps and schrader fittings for metering connections.		
23 05 23 00-0627 EA 4" Flanged Balancing Valve With Chain Wheel.....	1,383.50	253.06
23 05 23 00-0628 EA 5" Flanged Balancing Valve With Chain Wheel.....	1,833.68	287.70
23 05 23 00-0629 EA 6" Flanged Balancing Valve With Chain Wheel.....	1,875.62	319.67
23 05 23 00-0630 EA 8" Flanged Balancing Valve With Chain Wheel.....	2,372.67	408.46
23 05 23 00-0631 EA 10" Flanged Balancing Valve With Chain Wheel.....	3,438.82	497.26
23 05 23 00-0632 EA 12" Flanged Balancing Valve With Chain Wheel.....	4,466.39	396.61
23 05 23 00-0633 EA 14" Flanged Balancing Valve With Chain Wheel.....	5,957.53	748.33
23 05 23 00-0634 Calibrated Balancing Valves (23 05 23 00-0599)		
Note: Bell & Gossett CB Series.		
23 05 23 00-0635 EA 1/2" Brazed Or Soldered Calibrated Balancing Valve (CB-1/2S).....	88.70	9.64
23 05 23 00-0636 EA 3/4" Brazed Or Soldered Calibrated Balancing Valve (CB-3/4S).....	105.27	10.60
23 05 23 00-0637 EA 1" Brazed Or Soldered Calibrated Balancing Valve (CB-1S).....	128.50	12.05
23 05 23 00-0638 EA 1-1/4" Brazed Or Soldered Calibrated Balancing Valve (CB-1-1/4S).....	172.27	12.83
23 05 23 00-0639 EA 1" Threaded Calibrated Balancing Valve (CB-1).....	136.42	12.05
23 05 23 00-0640 EA 1-1/4" Threaded Calibrated Balancing Valve (CB-1-1/4).....	185.95	12.83
23 05 23 00-0641 EA 1-1/2" Threaded Calibrated Balancing Valve (CB-1-1/2).....	216.00	14.85
23 05 23 00-0642 EA 2" Threaded Calibrated Balancing Valve (CB-2).....	289.23	17.55
23 05 23 00-0643 EA 2-1/2" Threaded Calibrated Balancing Valve (CB-2-1/2).....	531.68	25.75
23 05 23 00-0644 EA 3" Threaded Calibrated Balancing Valve (CB-3).....	742.22	29.89
23 05 23 00-0645 EA 2-1/2" Flanged Calibrated Balancing Valve (CB-2-1/2F).....	708.05	139.80
23 05 23 00-0646 EA 3" Flanged Calibrated Balancing Valve (CB-3F).....	1,015.06	163.91
23 05 23 00-0647 EA 4" Flanged Calibrated Balancing Valve (CB-4F).....	1,593.42	274.79
23 05 23 00-0648 EA 5" Flanged Calibrated Balancing Valve (CB-5F).....	2,272.49	312.38
23 05 23 00-0649 EA 6" Flanged Calibrated Balancing Valve (CB-6F).....	2,973.17	347.09
23 05 23 00-0650 EA 8" Flanged Calibrated Balancing Valve (CB-8F).....	5,320.47	443.51
23 05 23 00-0651 EA 10" Flanged Calibrated Balancing Valve (CB-10F).....	7,370.23	523.82
23 05 23 00-0652 EA 12" Flanged Calibrated Balancing Valve (CB-12F).....	15,385.49	636.07
23 05 23 00-0653 EA 4" Grooved Calibrated Balancing Valve (CB-4G).....	1,813.97	33.19
23 05 23 00-0654 EA 5" Grooved Calibrated Balancing Valve (CB-5G).....	2,095.29	43.68
23 05 23 00-0655 EA 6" Grooved Calibrated Balancing Valve (CB-6G).....	2,783.67	56.01
23 05 23 00-0656 EA 8" Grooved Calibrated Balancing Valve (CB-8G).....	5,196.09	71.09
23 05 23 00-0657 EA 10" Grooved Calibrated Balancing Valve (CB-10G).....	6,978.42	79.65
23 05 23 00-0658 EA 12" Grooved Calibrated Balancing Valve (CB-12G).....	14,340.01	97.13
23 05 23 00-0659 Butterfly Valves (23 05 23)		
23 05 23 00-0660 Cast Iron Body, Iron Disc, 150 PSI, Wafer Type, Butterfly Valves (23 05 23 00-0659)		
Note: With on-off handle		
23 05 23 00-0661 EA 2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	281.70	128.48
<i>For 200 PSI, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 05 23 00-0662 EA 2-1/2" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	289.47	128.69
<i>For 200 PSI, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 05 23 00-0663 EA 3" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	326.80	150.89
<i>For 200 PSI, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 05 23 00-0664 EA 4" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	490.14	252.95
<i>For 200 PSI, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 05 23 00-0665 EA 5" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	633.17	308.33
<i>For 200 PSI, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 05 23 00-0666 EA 6" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	729.51	342.60
<i>For 200 PSI, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		
23 05 23 00-0667 EA 8" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type.....	942.71	393.99
<i>For 200 PSI, Add</i>		
<i>For Work In Restricted Working Space, Add</i>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 23 00-0668 EA 10" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,477.97 421.65 179.86	479.64
23 05 23 00-0669 EA 12" Butterfly Valve, Cast Iron, With Iron Disc, On Off Handle, 150 PSI Wafer Type <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,845.88 537.20 218.02	582.42
23 05 23 00-0670 Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve <small>(23 05 23 00-0659)</small>		
23 05 23 00-0671 EA 2-1/2" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	901.64 15.18	25.74
23 05 23 00-0672 EA 3" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	976.75 18.07	29.88
23 05 23 00-0673 EA 4" Crimped Ductile Iron, 200 PSI, Handle Butterfly Valve <i>For Work In Restricted Working Space, Add</i>	1,221.50 23.85	33.73
23 05 23 00-0674 Cast Iron Body, Bronze Disc, Gear Operated, 200 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0659)</small>		
23 05 23 00-0675 EA 2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI <i>For Work In Restricted Working Space, Add</i>	492.86 48.19	128.48
23 05 23 00-0676 EA 2-1/2" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI <i>For Work In Restricted Working Space, Add</i>	496.41 48.41	128.69
23 05 23 00-0677 EA 3" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI <i>For Work In Restricted Working Space, Add</i>	540.78 56.65	150.89
23 05 23 00-0678 EA 4" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI <i>For Work In Restricted Working Space, Add</i>	713.97 95.10	252.95
23 05 23 00-0679 EA 5" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI <i>For Work In Restricted Working Space, Add</i>	880.93 116.04	308.33
23 05 23 00-0680 EA 6" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI <i>For Work In Restricted Working Space, Add</i>	975.78 128.48	342.60
23 05 23 00-0681 EA 8" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI <i>For Work In Restricted Working Space, Add</i>	1,198.92 146.83	393.99
23 05 23 00-0682 EA 10" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI <i>For Work In Restricted Working Space, Add</i>	1,515.98 179.86	479.64
23 05 23 00-0683 EA 12" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 200 PSI <i>For Work In Restricted Working Space, Add</i>	2,058.45 218.02	582.42
23 05 23 00-0684 Cast Iron Body, Bronze Disc, Gear Operated, 150 LB, Lug Type, Butterfly Valves <small>(23 05 23 00-0659)</small>		
23 05 23 00-0685 EA 14" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,322.16 855.82 283.46	708.65
23 05 23 00-0686 EA 16" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,233.20 1,149.79 311.81	831.48
23 05 23 00-0687 EA 18" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,900.11 1,708.30 346.45	925.97
23 05 23 00-0688 EA 20" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,575.38 2,259.43 389.76	1,039.35
23 05 23 00-0689 EA 24" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	10,168.64 3,085.07 479.70	1,275.57
23 05 23 00-0690 EA 30" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	21,148.24 6,622.35 825.84	2,162.91
23 05 23 00-0691 EA 36" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	26,813.63 8,414.15 1,032.30	2,949.43
23 05 23 00-0692 EA 42" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	32,572.65 9,820.37 1,588.16	4,325.84
23 05 23 00-0693 EA 48" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	39,604.73 11,780.18 2,064.60	5,407.29
23 05 23 00-0694 EA 54" Butterfly Valve, Cast Iron, With Bronze Disc Gear Operated, 150 PSI <i>For 200 PSI, Add</i> <i>For Work In Restricted Working Space, Add</i>	47,843.36 14,126.71 2,580.75	6,488.75
23 05 29 Hangers And Supports For HVAC Piping And Equipment <small>(23 05)</small>		
23 05 29 00-0001 Hangers And Supports <small>(23 05 29)</small>		
23 05 29 00-0002 Clevis Hangers <small>(23 05 29 00-0001)</small>		
23 05 29 00-0003 Steel Clevis Hanger (Cooper B-Line B3100) <small>(23 05 29 00-0002)</small> Note: Type 1.		
23 05 29 00-0004 EA 1/2" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	18.18 4.79	7.99

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 05 29 00-0005	EA 3/4" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	19.95 5.33	8.87
23 05 29 00-0006	EA 1" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	20.97 5.60	8.87
23 05 29 00-0007	EA 1-1/4" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	21.83 5.76	9.60
23 05 29 00-0008	EA 1-1/2" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	22.12 5.76	9.60
23 05 29 00-0009	EA 2" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	23.21 5.92	9.76
23 05 29 00-0010	EA 2-1/2" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	25.94 6.09	10.12
23 05 29 00-0011	EA 3" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	28.00 6.27	10.65
23 05 29 00-0012	EA 3-1/2" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	29.09 6.68	11.70
23 05 29 00-0013	EA 4" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	32.22 7.10	12.43
23 05 29 00-0014	EA 5" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	41.57 8.92	14.87
23 05 29 00-0015	EA 6" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	50.13 10.65	17.75
23 05 29 00-0016	EA 8" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	68.60 13.31	22.19
23 05 29 00-0017	EA 10" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	102.33 17.75	30.17
23 05 29 00-0018	EA 12" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	120.95 19.97	33.28
23 05 29 00-0019	EA 14" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	152.93 22.90	37.28
23 05 29 00-0020	EA 16" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	192.74 26.63	44.38
23 05 29 00-0021	EA 18" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	240.10 33.29	55.47
23 05 29 00-0022	EA 20" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	404.52 39.94	66.57
23 05 29 00-0023	EA 24" Steel Clevis Hanger (Cooper B-Line B3100) <i>For Work In Restricted Working Space, Add</i>	634.70 46.60	77.66

23 05 29 00-0024 Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) (23 05 29 00-0002)

23 05 29 00-0025	EA 1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	24.04 4.79	7.99
23 05 29 00-0026	EA 3/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	25.81 5.33	8.87
23 05 29 00-0027	EA 1" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	26.95 5.60	8.87
23 05 29 00-0028	EA 1-1/4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	27.93 5.76	9.60
23 05 29 00-0029	EA 1-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	28.68 5.76	9.60
23 05 29 00-0030	EA 2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	29.40 5.92	9.76
23 05 29 00-0031	EA 2-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	33.50 6.09	10.12
23 05 29 00-0032	EA 3" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	35.31 6.27	10.65
23 05 29 00-0033	EA 3-1/2" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	39.49 7.10	12.43
23 05 29 00-0034	EA 4" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	44.43 7.10	12.43
23 05 29 00-0035	EA 5" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	76.01 8.92	14.87
23 05 29 00-0036	EA 6" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	94.66 10.65	17.75
23 05 29 00-0037	EA 8" Steel Clevis Hanger, Plastic Coated (Cooper B-Line B3100C) <i>For Work In Restricted Working Space, Add</i>	112.01 13.31	22.19

23 05 29 00-0038 Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) (23 05 29 00-0002)

23 05 29 00-0039	EA 1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	17.97 4.79	7.99
23 05 29 00-0040	EA 3/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	19.79 5.33	8.87
23 05 29 00-0041	EA 1" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	20.92 5.60	8.87
23 05 29 00-0042	EA 1-1/4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	21.50 5.76	9.60
23 05 29 00-0043	EA 1-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	21.66 5.76	9.60
23 05 29 00-0044	EA 2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	22.30 5.92	9.76
23 05 29 00-0045	EA 2-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	24.74 6.09	10.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0046 EA 3" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	25.96 6.27	10.65
23 05 29 00-0047 EA 3-1/2" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	29.19 7.10	12.43
23 05 29 00-0048 EA 4" Steel Clevis Hanger, Light Duty (Cooper B-Line B3104) <i>For Work In Restricted Working Space, Add</i>	30.35 7.10	12.43
23 05 29 00-0049 Extended Steel Clevis Hanger (Cooper B-Line B3108) (23 05 29 00-0002)		
23 05 29 00-0050 EA 3/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	27.10 5.33	8.87
23 05 29 00-0051 EA 1" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	28.11 5.60	8.87
23 05 29 00-0052 EA 1-1/4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	28.64 5.76	9.60
23 05 29 00-0053 EA 1-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	29.81 5.76	9.60
23 05 29 00-0054 EA 2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	32.27 5.92	9.76
23 05 29 00-0055 EA 2-1/2" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	34.87 6.09	10.12
23 05 29 00-0056 EA 3" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	36.76 6.27	10.65
23 05 29 00-0057 EA 4" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	44.60 7.10	12.43
23 05 29 00-0058 EA 5" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	56.32 8.92	14.87
23 05 29 00-0059 EA 6" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	69.91 10.65	17.75
23 05 29 00-0060 EA 8" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	101.04 13.31	22.19
23 05 29 00-0061 EA 10" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	142.96 17.75	30.17
23 05 29 00-0062 EA 12" Steel Extended Clevis Hanger (Cooper B-Line B3108) <i>For Work In Restricted Working Space, Add</i>	160.53 19.97	33.28
23 05 29 00-0063 Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) (23 05 29 00-0002)		
23 05 29 00-0064 EA 2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	33.64 5.92	9.76
23 05 29 00-0065 EA 2-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	36.16 6.09	10.12
23 05 29 00-0066 EA 3" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	38.22 6.27	10.65
23 05 29 00-0067 EA 3-1/2" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	42.10 7.10	12.43
23 05 29 00-0068 EA 4" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	45.01 7.10	12.43
23 05 29 00-0069 EA 5" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	55.78 8.92	14.87
23 05 29 00-0070 EA 6" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	64.84 10.65	17.75
23 05 29 00-0071 EA 8" Steel Clevis Hanger, Flat Top (Cooper B-Line B3109) <i>For Work In Restricted Working Space, Add</i>	87.00 13.31	22.19
23 05 29 00-0072 Adjustable Hangers (23 05 29 00-0001)		
23 05 29 00-0073 Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) (23 05 29 00-0072) Note: Type 5.		
23 05 29 00-0074 EA 1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	16.81 4.20	7.00
23 05 29 00-0075 EA 3/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	18.35 4.66	7.77
23 05 29 00-0076 EA 1" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	20.05 5.18	8.63
23 05 29 00-0077 EA 1-1/4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	22.08 5.75	9.58
23 05 29 00-0078 EA 1-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	23.20 6.04	10.07
23 05 29 00-0079 EA 2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	25.04 6.33	10.55
23 05 29 00-0080 EA 2-1/2" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	29.61 6.62	11.02
23 05 29 00-0081 EA 3" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	30.94 6.90	11.50
23 05 29 00-0082 EA 4" Steel J-Hanger Hanger With Bolt (Cooper B-Line B3690) <i>For Work In Restricted Working Space, Add</i>	37.43 7.76	12.94
23 05 29 00-0083 Adjustable Swivel Steel Ring (Cooper B-Line B3170) (23 05 29 00-0072) Note: Type 10.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 29 Hangers And Supports For HVAC Piping And Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0084	EA		1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	19.04	8.87
			<i>For Work In Restricted Working Space, Add</i>	5.33	
			<i>For 304 Stainless Steel, Add</i>	8.51	
			<i>For 316 Stainless Steel, Add</i>	10.97	
23 05 29 00-0085	EA		3/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	20.09	8.87
			<i>For Work In Restricted Working Space, Add</i>	5.60	
			<i>For 304 Stainless Steel, Add</i>	9.31	
			<i>For 316 Stainless Steel, Add</i>	11.99	
23 05 29 00-0086	EA		1" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	21.13	9.76
			<i>For Work In Restricted Working Space, Add</i>	5.92	
			<i>For 304 Stainless Steel, Add</i>	9.31	
			<i>For 316 Stainless Steel, Add</i>	11.99	
23 05 29 00-0087	EA		1-1/4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	22.47	10.65
			<i>For Work In Restricted Working Space, Add</i>	6.27	
			<i>For 304 Stainless Steel, Add</i>	10.43	
			<i>For 316 Stainless Steel, Add</i>	13.43	
23 05 29 00-0088	EA		1-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	25.24	12.43
			<i>For Work In Restricted Working Space, Add</i>	7.10	
			<i>For 304 Stainless Steel, Add</i>	10.43	
			<i>For 316 Stainless Steel, Add</i>	13.43	
23 05 29 00-0089	EA		2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	27.01	12.43
			<i>For Work In Restricted Working Space, Add</i>	7.61	
			<i>For 304 Stainless Steel, Add</i>	10.96	
			<i>For 316 Stainless Steel, Add</i>	14.11	
23 05 29 00-0090	EA		2-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	30.01	13.31
			<i>For Work In Restricted Working Space, Add</i>	8.19	
			<i>For 304 Stainless Steel, Add</i>	17.82	
			<i>For 316 Stainless Steel, Add</i>	22.95	
23 05 29 00-0091	EA		3" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	32.41	15.09
			<i>For Work In Restricted Working Space, Add</i>	8.88	
			<i>For 304 Stainless Steel, Add</i>	18.61	
			<i>For 316 Stainless Steel, Add</i>	23.97	
23 05 29 00-0092	EA		3-1/2" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	36.18	16.20
			<i>For Work In Restricted Working Space, Add</i>	9.72	
			<i>For 304 Stainless Steel, Add</i>	24.95	
			<i>For 316 Stainless Steel, Add</i>	32.13	
23 05 29 00-0093	EA		4" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	39.29	17.75
			<i>For Work In Restricted Working Space, Add</i>	10.65	
			<i>For 304 Stainless Steel, Add</i>	24.95	
			<i>For 316 Stainless Steel, Add</i>	32.13	
23 05 29 00-0094	EA		5" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	47.79	19.97
			<i>For Work In Restricted Working Space, Add</i>	11.98	
			<i>For 304 Stainless Steel, Add</i>	51.81	
			<i>For 316 Stainless Steel, Add</i>	66.73	
23 05 29 00-0095	EA		6" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	52.36	22.19
			<i>For Work In Restricted Working Space, Add</i>	13.31	
			<i>For 304 Stainless Steel, Add</i>	52.67	
			<i>For 316 Stainless Steel, Add</i>	67.83	
23 05 29 00-0096	EA		8" Adjustable Swivel Steel Ring (Cooper B-Line B3170).....	62.72	26.62
			<i>For Work In Restricted Working Space, Add</i>	15.98	
			<i>For 304 Stainless Steel, Add</i>	62.50	
			<i>For 316 Stainless Steel, Add</i>	80.50	
23 05 29 00-0097			Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT)		
			<small>(23 05 29 00-0072)</small>		
23 05 29 00-0098	EA		1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	19.66	8.87
			<i>For Work In Restricted Working Space, Add</i>	5.33	
			<i>For 304 Stainless Steel, Add</i>	12.61	
			<i>For 316 Stainless Steel, Add</i>	16.24	
23 05 29 00-0099	EA		3/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	20.59	8.87
			<i>For Work In Restricted Working Space, Add</i>	5.60	
			<i>For 304 Stainless Steel, Add</i>	12.61	
			<i>For 316 Stainless Steel, Add</i>	16.24	
23 05 29 00-0100	EA		1" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	21.63	9.76
			<i>For Work In Restricted Working Space, Add</i>	5.92	
			<i>For 304 Stainless Steel, Add</i>	12.61	
			<i>For 316 Stainless Steel, Add</i>	16.24	
23 05 29 00-0101	EA		1-1/4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	22.80	10.65
			<i>For Work In Restricted Working Space, Add</i>	6.27	
			<i>For 304 Stainless Steel, Add</i>	12.61	
			<i>For 316 Stainless Steel, Add</i>	16.24	
23 05 29 00-0102	EA		1-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	25.73	12.43
			<i>For Work In Restricted Working Space, Add</i>	7.10	
			<i>For 304 Stainless Steel, Add</i>	13.66	
			<i>For 316 Stainless Steel, Add</i>	17.60	
23 05 29 00-0103	EA		2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	27.42	12.43
			<i>For Work In Restricted Working Space, Add</i>	7.61	
			<i>For 304 Stainless Steel, Add</i>	13.66	
			<i>For 316 Stainless Steel, Add</i>	17.60	
23 05 29 00-0104	EA		2-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT).....	32.74	13.31
			<i>For Work In Restricted Working Space, Add</i>	8.19	
			<i>For 304 Stainless Steel, Add</i>	35.84	
			<i>For 316 Stainless Steel, Add</i>	46.16	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0105 EA 3" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	36.32 8.88 44.42 57.21	15.09
23 05 29 00-0106 EA 3-1/2" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	39.66 9.72 47.92 61.71	16.20
23 05 29 00-0107 EA 4" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	44.35 10.65 58.34 75.14	17.75
23 05 29 00-0108 EA 5" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	48.90 11.98 59.14 76.16	19.97
23 05 29 00-0109 EA 6" Copper Tubing Adjustable Swivel Ring (Cooper B-Line B3170CT) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	57.35 13.31 85.60 110.25	22.19
23 05 29 00-0110 Roller Hangers (23 05 29 00-0001)		
23 05 29 00-0111 Single Pipe Roll (Cooper B-Line B3114) (23 05 29 00-0110) Note: Excludes rod and nuts. Type 41.		
23 05 29 00-0112 EA 2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	32.52 4.26	7.11
23 05 29 00-0113 EA 2-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	35.67 4.79	7.99
23 05 29 00-0114 EA 3" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	39.42 5.60	9.32
23 05 29 00-0115 EA 3-1/2" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	45.40 6.39	10.66
23 05 29 00-0116 EA 4" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	64.57 7.19	11.99
23 05 29 00-0117 EA 5" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	55.87 7.99	13.32
23 05 29 00-0118 EA 6" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	69.94 9.59	15.98
23 05 29 00-0119 EA 8" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	96.19 11.19	18.65
23 05 29 00-0120 EA 10" Single Pipe Roll (Cooper B-Line B3114) Note: Excludes rod and nuts. <i>For Work In Restricted Working Space, Add</i>	113.98 13.32	22.20
23 05 29 00-0121 Adjustable Clevis Roller Hanger (Cooper B-Line B3110) (23 05 29 00-0110) Note: Type 43.		
23 05 29 00-0122 EA 2" Steel Clevis Roller Hanger (Cooper B-Line B3110) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	47.50 7.23 154.37 198.82	12.54
23 05 29 00-0123 EA 2-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	49.23 7.75 154.37 198.82	12.92
23 05 29 00-0124 EA 3" Steel Clevis Roller Hanger (Cooper B-Line B3110) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	53.64 8.27 172.19 221.77	13.50
23 05 29 00-0125 EA 3-1/2" Steel Clevis Roller Hanger (Cooper B-Line B3110) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	63.65 8.68 229.22 295.21	14.47
23 05 29 00-0126 EA 4" Steel Clevis Roller Hanger (Cooper B-Line B3110) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	66.86 9.64 229.22 295.21	16.39
23 05 29 00-0127 EA 5" Steel Clevis Roller Hanger (Cooper B-Line B3110) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	75.83 10.59 267.56 344.59	17.65
23 05 29 00-0128 EA 6" Steel Clevis Roller Hanger (Cooper B-Line B3110) <i>For Work In Restricted Working Space, Add</i> <i>For 304 Stainless Steel, Add</i> <i>For 316 Stainless Steel, Add</i>	88.91 11.57 332.31 427.98	19.29

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0129 EA 8" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	123.56	24.11
<i>For Work In Restricted Working Space, Add</i>	14.46	
<i>For 304 Stainless Steel, Add</i>	497.31	
<i>For 316 Stainless Steel, Add</i>	640.48	
23 05 29 00-0130 EA 10" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	154.05	32.78
<i>For Work In Restricted Working Space, Add</i>	19.28	
<i>For 304 Stainless Steel, Add</i>	592.48	
<i>For 316 Stainless Steel, Add</i>	763.05	
23 05 29 00-0131 EA 12" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	204.30	36.16
<i>For Work In Restricted Working Space, Add</i>	21.70	
<i>For 304 Stainless Steel, Add</i>	871.07	
<i>For 316 Stainless Steel, Add</i>	1,121.83	
23 05 29 00-0132 EA 14" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	448.64	41.46
<i>For Work In Restricted Working Space, Add</i>	24.88	
<i>For 304 Stainless Steel, Add</i>	2,413.75	
<i>For 316 Stainless Steel, Add</i>	3,108.62	
23 05 29 00-0133 EA 16" Steel Clevis Roller Hanger (Cooper B-Line B3110).....	565.86	48.21
<i>For Work In Restricted Working Space, Add</i>	28.92	
<i>For 304 Stainless Steel, Add</i>	3,098.37	
<i>For 316 Stainless Steel, Add</i>	3,990.33	
23 05 29 00-0134 Roller Chair (Cooper B-Line B3120) (23 05 29 00-0110)		
23 05 29 00-0135 EA 2" Steel Roller Chair (Cooper B-Line B3120).....	45.96	12.54
<i>For Work In Restricted Working Space, Add</i>	7.23	
23 05 29 00-0136 EA 2-1/2" Steel Roller Chair (Cooper B-Line B3120).....	49.56	12.92
<i>For Work In Restricted Working Space, Add</i>	7.75	
23 05 29 00-0137 EA 3" Steel Roller Chair (Cooper B-Line B3120).....	51.81	13.50
<i>For Work In Restricted Working Space, Add</i>	8.27	
23 05 29 00-0138 EA 3-1/2" Steel Roller Chair (Cooper B-Line B3120).....	59.83	14.47
<i>For Work In Restricted Working Space, Add</i>	8.68	
23 05 29 00-0139 EA 4" Steel Roller Chair (Cooper B-Line B3120).....	66.69	16.39
<i>For Work In Restricted Working Space, Add</i>	9.64	
23 05 29 00-0140 EA 5" Steel Roller Chair (Cooper B-Line B3120).....	72.84	17.65
<i>For Work In Restricted Working Space, Add</i>	10.59	
23 05 29 00-0141 EA 6" Steel Roller Chair (Cooper B-Line B3120).....	90.86	19.29
<i>For Work In Restricted Working Space, Add</i>	11.57	
23 05 29 00-0142 EA 8" Steel Roller Chair (Cooper B-Line B3120).....	118.91	24.11
<i>For Work In Restricted Working Space, Add</i>	14.46	
23 05 29 00-0143 EA 10" Steel Roller Chair (Cooper B-Line B3120).....	152.97	32.78
<i>For Work In Restricted Working Space, Add</i>	19.28	
23 05 29 00-0144 EA 12" Steel Roller Chair (Cooper B-Line B3120).....	201.47	36.16
<i>For Work In Restricted Working Space, Add</i>	21.70	
23 05 29 00-0145 EA 14" Steel Roller Chair (Cooper B-Line B3120).....	218.39	41.46
<i>For Work In Restricted Working Space, Add</i>	24.88	
23 05 29 00-0146 EA 16" Steel Roller Chair (Cooper B-Line B3120).....	264.56	48.21
<i>For Work In Restricted Working Space, Add</i>	28.92	
23 05 29 00-0147 EA 18" Steel Roller Chair (Cooper B-Line B3120).....	359.96	60.26
<i>For Work In Restricted Working Space, Add</i>	36.16	
23 05 29 00-0148 EA 20" Steel Roller Chair (Cooper B-Line B3120).....	446.99	72.32
<i>For Work In Restricted Working Space, Add</i>	43.39	
23 05 29 00-0149 Adjustable Roller Support (Cooper B-Line B3122) (23 05 29 00-0110)		
23 05 29 00-0150 EA 2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	53.15	12.54
<i>For Work In Restricted Working Space, Add</i>	7.23	
23 05 29 00-0151 EA 2-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	60.20	12.92
<i>For Work In Restricted Working Space, Add</i>	7.75	
23 05 29 00-0152 EA 3" Steel Adjustable Roller Support (Cooper B-Line B3122).....	63.15	13.50
<i>For Work In Restricted Working Space, Add</i>	8.27	
23 05 29 00-0153 EA 3-1/2" Steel Adjustable Roller Support (Cooper B-Line B3122).....	66.77	14.47
<i>For Work In Restricted Working Space, Add</i>	8.68	
23 05 29 00-0154 EA 4" Steel Adjustable Roller Support (Cooper B-Line B3122).....	81.23	16.39
<i>For Work In Restricted Working Space, Add</i>	9.64	
23 05 29 00-0155 EA 5" Steel Adjustable Roller Support (Cooper B-Line B3122).....	92.53	17.65
<i>For Work In Restricted Working Space, Add</i>	10.59	
23 05 29 00-0156 EA 6" Steel Adjustable Roller Support (Cooper B-Line B3122).....	108.64	19.29
<i>For Work In Restricted Working Space, Add</i>	11.57	
23 05 29 00-0157 EA 8" Steel Adjustable Roller Support (Cooper B-Line B3122).....	155.51	24.11
<i>For Work In Restricted Working Space, Add</i>	14.46	
23 05 29 00-0158 EA 10" Steel Adjustable Roller Support (Cooper B-Line B3122).....	192.43	32.78
<i>For Work In Restricted Working Space, Add</i>	19.28	
23 05 29 00-0159 EA 12" Steel Adjustable Roller Support (Cooper B-Line B3122).....	223.32	36.16
<i>For Work In Restricted Working Space, Add</i>	21.70	
23 05 29 00-0160 EA 14" Steel Adjustable Roller Support (Cooper B-Line B3122).....	322.98	41.46
<i>For Work In Restricted Working Space, Add</i>	24.88	
23 05 29 00-0161 EA 16" Steel Adjustable Roller Support (Cooper B-Line B3122).....	388.27	48.21
<i>For Work In Restricted Working Space, Add</i>	28.92	
23 05 29 00-0162 EA 18" Steel Adjustable Roller Support (Cooper B-Line B3122).....	436.93	60.26
<i>For Work In Restricted Working Space, Add</i>	36.16	
23 05 29 00-0163 Adjustable Double Roller Support (Cooper B-Line B3122A) (23 05 29 00-0110)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0164 EA 2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	53.57	12.54
For Work In Restricted Working Space, Add	7.23	
23 05 29 00-0165 EA 2-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)	60.57	12.92
For Work In Restricted Working Space, Add	7.75	
23 05 29 00-0166 EA 3" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	63.77	13.50
For Work In Restricted Working Space, Add	8.27	
23 05 29 00-0167 EA 3-1/2" Steel Adjustable Double Roller Support (Cooper B-Line B3122A)	66.22	14.47
For Work In Restricted Working Space, Add	8.68	
23 05 29 00-0168 EA 4" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	85.43	16.39
For Work In Restricted Working Space, Add	9.64	
23 05 29 00-0169 EA 5" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	97.48	17.65
For Work In Restricted Working Space, Add	10.59	
23 05 29 00-0170 EA 6" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	114.54	19.29
For Work In Restricted Working Space, Add	11.57	
23 05 29 00-0171 EA 8" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	164.65	24.11
For Work In Restricted Working Space, Add	14.46	
23 05 29 00-0172 EA 10" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	203.40	32.78
For Work In Restricted Working Space, Add	19.28	
23 05 29 00-0173 EA 12" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	236.15	36.16
For Work In Restricted Working Space, Add	21.70	
23 05 29 00-0174 EA 14" Steel Adjustable Double Roller Support (Cooper B-Line B3122A).....	343.50	41.46
For Work In Restricted Working Space, Add	24.88	
 23 05 29 00-0175 Pipe And Riser Clamps (23 05 29 00-0001)		
Note: Includes bolts and weldless eye nuts.		
23 05 29 00-0176 Steel Pipe Clamp (Cooper B-Line B3140) (23 05 29 00-0175)		
Note: Type 4.		
23 05 29 00-0177 EA 1/2" Steel Pipe Clamp (Cooper B-Line B3140).....	16.94	5.75
For Work In Restricted Working Space, Add	3.45	
23 05 29 00-0178 EA 3/4" Steel Pipe Clamp (Cooper B-Line B3140)	17.13	5.85
For Work In Restricted Working Space, Add	3.51	
23 05 29 00-0179 EA 1" Steel Pipe Clamp (Cooper B-Line B3140).....	17.36	5.94
For Work In Restricted Working Space, Add	3.56	
23 05 29 00-0180 EA 1-1/4" Steel Pipe Clamp (Cooper B-Line B3140)	19.21	6.04
For Work In Restricted Working Space, Add	3.62	
23 05 29 00-0181 EA 1-1/2" Steel Pipe Clamp (Cooper B-Line B3140)	19.40	6.13
For Work In Restricted Working Space, Add	3.68	
23 05 29 00-0182 EA 2" Steel Pipe Clamp (Cooper B-Line B3140).....	20.86	6.23
For Work In Restricted Working Space, Add	3.74	
23 05 29 00-0183 EA 2-1/2" Steel Pipe Clamp (Cooper B-Line B3140)	21.74	6.42
For Work In Restricted Working Space, Add	3.86	
23 05 29 00-0184 EA 3" Steel Pipe Clamp (Cooper B-Line B3140)	23.16	6.61
For Work In Restricted Working Space, Add	3.97	
23 05 29 00-0185 EA 3-1/2" Steel Pipe Clamp (Cooper B-Line B3140)	27.46	6.71
For Work In Restricted Working Space, Add	4.03	
23 05 29 00-0186 EA 4" Steel Pipe Clamp (Cooper B-Line B3140)	31.29	8.63
For Work In Restricted Working Space, Add	5.18	
23 05 29 00-0187 EA 5" Steel Pipe Clamp (Cooper B-Line B3140)	45.43	11.50
For Work In Restricted Working Space, Add	6.90	
23 05 29 00-0188 EA 6" Steel Pipe Clamp (Cooper B-Line B3140)	63.15	14.38
For Work In Restricted Working Space, Add	8.63	
23 05 29 00-0189 EA 8" Steel Pipe Clamp (Cooper B-Line B3140)	74.43	16.77
For Work In Restricted Working Space, Add	10.07	
23 05 29 00-0190 EA 10" Steel Pipe Clamp (Cooper B-Line B3140)	112.03	19.17
For Work In Restricted Working Space, Add	11.50	
23 05 29 00-0191 EA 12" Steel Pipe Clamp (Cooper B-Line B3140)	156.16	21.09
For Work In Restricted Working Space, Add	12.65	
23 05 29 00-0192 EA 14" Steel Pipe Clamp (Cooper B-Line B3140)	259.94	23.00
For Work In Restricted Working Space, Add	13.80	
23 05 29 00-0193 EA 16" Steel Pipe Clamp (Cooper B-Line B3140)	281.76	24.92
For Work In Restricted Working Space, Add	14.95	
23 05 29 00-0194 EA 18" Steel Pipe Clamp (Cooper B-Line B3140)	466.84	26.84
For Work In Restricted Working Space, Add	16.10	
23 05 29 00-0195 EA 20" Steel Pipe Clamp (Cooper B-Line B3140)	541.37	28.75
For Work In Restricted Working Space, Add	17.25	
23 05 29 00-0196 EA 24" Steel Pipe Clamp (Cooper B-Line B3140)	709.47	31.63
For Work In Restricted Working Space, Add	18.98	
 23 05 29 00-0197 Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142) (23 05 29 00-0175)		
23 05 29 00-0198 EA 3" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	38.46	6.22
For Work In Restricted Working Space, Add	3.70	
23 05 29 00-0199 EA 4" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	51.88	6.22
For Work In Restricted Working Space, Add	3.70	
23 05 29 00-0200 EA 5" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	57.19	6.43
For Work In Restricted Working Space, Add	3.86	
23 05 29 00-0201 EA 6" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	93.81	6.66
For Work In Restricted Working Space, Add	4.02	
23 05 29 00-0202 EA 8" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	102.22	7.10
For Work In Restricted Working Space, Add	4.26	
23 05 29 00-0203 EA 10" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142).....	178.58	7.10
For Work In Restricted Working Space, Add	4.25	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0204 EA 12" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)	291.42	7.99
<i>For Work In Restricted Working Space, Add</i>	4.79	
23 05 29 00-0205 EA 14" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)	370.59	8.87
<i>For Work In Restricted Working Space, Add</i>	5.33	
23 05 29 00-0206 EA 16" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)	402.27	10.65
<i>For Work In Restricted Working Space, Add</i>	6.39	
23 05 29 00-0207 EA 18" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)	1,265.29	12.43
<i>For Work In Restricted Working Space, Add</i>	7.46	
23 05 29 00-0208 EA 20" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)	1,455.07	13.31
<i>For Work In Restricted Working Space, Add</i>	7.99	
23 05 29 00-0209 EA 24" Two Bolt Steel Heavy Duty Pipe Clamp (Cooper B-Line B3142)	1,865.77	14.20
<i>For Work In Restricted Working Space, Add</i>	8.52	
23 05 29 00-0210 Steel Riser Clamp (Cooper B-Line B3373) (23 05 29 00-0175)		
Note: Type 8.		
23 05 29 00-0211 EA 1/2" Steel Riser Clamp (Cooper B-Line B3373)	17.46	5.32
<i>For Work In Restricted Working Space, Add</i>	3.20	
23 05 29 00-0212 EA 3/4" Steel Riser Clamp (Cooper B-Line B3373)	18.27	5.41
<i>For Work In Restricted Working Space, Add</i>	3.25	
23 05 29 00-0213 EA 1" Steel Riser Clamp (Cooper B-Line B3373)	18.53	5.50
<i>For Work In Restricted Working Space, Add</i>	3.30	
23 05 29 00-0214 EA 1-1/4" Steel Riser Clamp (Cooper B-Line B3373)	20.29	5.59
<i>For Work In Restricted Working Space, Add</i>	3.36	
23 05 29 00-0215 EA 1-1/2" Steel Riser Clamp (Cooper B-Line B3373)	21.17	5.68
<i>For Work In Restricted Working Space, Add</i>	3.41	
23 05 29 00-0216 EA 2" Steel Riser Clamp (Cooper B-Line B3373)	21.72	5.77
<i>For Work In Restricted Working Space, Add</i>	3.46	
23 05 29 00-0217 EA 2-1/2" Steel Riser Clamp (Cooper B-Line B3373)	22.69	5.95
<i>For Work In Restricted Working Space, Add</i>	3.57	
23 05 29 00-0218 EA 3" Steel Riser Clamp (Cooper B-Line B3373)	24.17	6.13
<i>For Work In Restricted Working Space, Add</i>	3.67	
23 05 29 00-0219 EA 3-1/2" Steel Riser Clamp (Cooper B-Line B3373)	26.93	6.22
<i>For Work In Restricted Working Space, Add</i>	3.73	
23 05 29 00-0220 EA 4" Steel Riser Clamp (Cooper B-Line B3373)	32.40	7.99
<i>For Work In Restricted Working Space, Add</i>	4.79	
23 05 29 00-0221 EA 5" Steel Riser Clamp (Cooper B-Line B3373)	41.65	10.65
<i>For Work In Restricted Working Space, Add</i>	6.39	
23 05 29 00-0222 EA 6" Steel Riser Clamp (Cooper B-Line B3373)	52.96	13.31
<i>For Work In Restricted Working Space, Add</i>	7.99	
23 05 29 00-0223 EA 8" Steel Riser Clamp (Cooper B-Line B3373)	74.19	15.53
<i>For Work In Restricted Working Space, Add</i>	9.32	
23 05 29 00-0224 EA 10" Steel Riser Clamp (Cooper B-Line B3373)	99.32	17.75
<i>For Work In Restricted Working Space, Add</i>	10.65	
23 05 29 00-0225 EA 12" Steel Riser Clamp (Cooper B-Line B3373)	121.47	19.53
<i>For Work In Restricted Working Space, Add</i>	11.72	
23 05 29 00-0226 EA 14" Steel Riser Clamp (Cooper B-Line B3373)	166.60	21.30
<i>For Work In Restricted Working Space, Add</i>	12.78	
23 05 29 00-0227 EA 16" Steel Riser Clamp (Cooper B-Line B3373)	329.20	23.08
<i>For Work In Restricted Working Space, Add</i>	13.85	
23 05 29 00-0228 Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C) (23 05 29 00-0175)		
23 05 29 00-0229 EA 1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)	33.66	5.32
<i>For Work In Restricted Working Space, Add</i>	3.20	
23 05 29 00-0230 EA 3/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)	34.18	5.41
<i>For Work In Restricted Working Space, Add</i>	3.25	
23 05 29 00-0231 EA 1" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)	35.68	5.50
<i>For Work In Restricted Working Space, Add</i>	3.30	
23 05 29 00-0232 EA 1-1/4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)	38.36	5.59
<i>For Work In Restricted Working Space, Add</i>	3.36	
23 05 29 00-0233 EA 1-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)	43.76	5.68
<i>For Work In Restricted Working Space, Add</i>	3.41	
23 05 29 00-0234 EA 2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)	46.68	5.77
<i>For Work In Restricted Working Space, Add</i>	3.46	
23 05 29 00-0235 EA 2-1/2" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)	50.73	5.95
<i>For Work In Restricted Working Space, Add</i>	3.57	
23 05 29 00-0236 EA 3" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)	56.02	6.13
<i>For Work In Restricted Working Space, Add</i>	3.67	
23 05 29 00-0237 EA 4" Steel Riser Clamp, Plastic Coated (Cooper B-Line B3373C)	76.09	7.99
<i>For Work In Restricted Working Space, Add</i>	4.79	
23 05 29 00-0238 Two Bolt Steel Underground Clamp (Cooper B-Line B3132) (23 05 29 00-0175)		
Note: Type 42		
23 05 29 00-0239 EA 4" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)	79.88	6.22
<i>For Work In Restricted Working Space, Add</i>	3.70	
23 05 29 00-0240 EA 6" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)	84.67	6.66
<i>For Work In Restricted Working Space, Add</i>	4.02	
23 05 29 00-0241 EA 8" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)	93.17	7.10
<i>For Work In Restricted Working Space, Add</i>	4.26	
23 05 29 00-0242 EA 10" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)	99.82	7.10
<i>For Work In Restricted Working Space, Add</i>	4.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0243 EA 12" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	121.17 4.79	7.99
23 05 29 00-0244 EA 14" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	387.61 5.33	8.87
23 05 29 00-0245 EA 16" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	520.16 6.39	10.65
23 05 29 00-0246 EA 18" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	620.00 7.46	12.43
23 05 29 00-0247 EA 20" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	906.58 7.99	13.31
23 05 29 00-0248 EA 24" Two Bolt Steel Underground Clamp (Cooper B-Line B3132)..... <i>For Work In Restricted Working Space, Add</i>	1,252.47 8.52	14.20
23 05 29 00-0249 Four Bolt Steel Underground Clamp (Cooper B-Line B3134) (23 05 29 00-0175)		
23 05 29 00-0250 EA 4" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	73.39 3.70	6.22
23 05 29 00-0251 EA 6" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	79.11 4.02	6.66
23 05 29 00-0252 EA 8" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	141.55 4.26	7.10
23 05 29 00-0253 EA 10" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	157.97 4.25	7.10
23 05 29 00-0254 EA 12" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	228.40 4.79	7.99
23 05 29 00-0255 EA 14" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	352.61 5.33	8.87
23 05 29 00-0256 EA 16" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	473.88 6.39	10.65
23 05 29 00-0257 EA 18" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	564.21 7.46	12.43
23 05 29 00-0258 EA 20" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	828.22 7.99	13.31
23 05 29 00-0259 EA 24" Four Bolt Steel Underground Clamp (Cooper B-Line B3134)..... <i>For Work In Restricted Working Space, Add</i>	1,136.49 8.52	14.20
23 05 29 00-0260 Split Pipe Clamps And Rings (23 05 29 00-0001)		
23 05 29 00-0261 Adjustable Split Ring Swivel Hanger (Cooper B-Line B3171) (23 05 29 00-0260) Note: Type 6.		
23 05 29 00-0262 EA 3/4" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	29.39 4.89	8.15
23 05 29 00-0263 EA 1" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	31.12 5.18	8.63
23 05 29 00-0264 EA 1-1/4" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	33.71 5.75	9.58
23 05 29 00-0265 EA 1-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	36.50 6.04	10.07
23 05 29 00-0266 EA 2" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	39.66 6.33	10.55
23 05 29 00-0267 EA 2-1/2" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	50.34 6.62	11.02
23 05 29 00-0268 EA 3" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	55.65 6.90	11.50
23 05 29 00-0269 EA 4" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	75.69 7.76	12.94
23 05 29 00-0270 EA 5" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	96.36 9.78	16.30
23 05 29 00-0271 EA 6" Adjustable Swivel Ring (Cooper B-Line B3171)..... <i>For Work In Restricted Working Space, Add</i>	130.64 11.50	19.17
23 05 29 00-0272 Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R) (23 05 29 00-0260) Note: Type 11.		
23 05 29 00-0273 EA 1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	18.01 4.13	6.75
23 05 29 00-0274 EA 3/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	19.03 4.31	6.75
23 05 29 00-0275 EA 1" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	20.88 4.82	8.68
23 05 29 00-0276 EA 1-1/4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	22.89 5.07	8.68
23 05 29 00-0277 EA 1-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	26.04 5.26	8.68
23 05 29 00-0278 EA 2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	30.87 5.78	9.63
23 05 29 00-0279 EA 2-1/2" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	43.22 6.02	9.63
23 05 29 00-0280 EA 3" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	48.53 6.29	10.60
23 05 29 00-0281 EA 4" Extension Split Pipe Clamp, Malleable Iron (Cooper B-Line B3198R)..... <i>For Work In Restricted Working Space, Add</i>	51.45 6.89	11.57

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC**

23 05 29 Hangers And Supports For HVAC Piping And Equipment

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0282			Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H) (23 05 29 00-0260) Note: Type 12.		
23 05 29 00-0283	EA		1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	18.01	6.75
			<i>For Work In Restricted Working Space, Add</i>	4.13	
23 05 29 00-0284	EA		3/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	19.03	7.23
			<i>For Work In Restricted Working Space, Add</i>	4.31	
23 05 29 00-0285	EA		1" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	20.88	8.20
			<i>For Work In Restricted Working Space, Add</i>	4.82	
23 05 29 00-0286	EA		1-1/4" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	22.89	8.68
			<i>For Work In Restricted Working Space, Add</i>	5.07	
23 05 29 00-0287	EA		1-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	26.04	8.68
			<i>For Work In Restricted Working Space, Add</i>	5.26	
23 05 29 00-0288	EA		2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	30.87	9.63
			<i>For Work In Restricted Working Space, Add</i>	5.78	
23 05 29 00-0289	EA		2-1/2" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	43.22	10.12
			<i>For Work In Restricted Working Space, Add</i>	6.02	
23 05 29 00-0290	EA		3" Hinged Extension Split Pipe Clamp (Cooper B-Line B3198H).....	48.53	10.60
			<i>For Work In Restricted Working Space, Add</i>	6.29	
23 05 29 00-0291			Pipe Straps (23 05 29 00-0001)		
23 05 29 00-0292			Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B-3180) (23 05 29 00-0291)		
23 05 29 00-0293	EA		1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	12.14	4.82
			<i>For Work In Restricted Working Space, Add</i>	2.89	
23 05 29 00-0294	EA		3/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	12.66	5.78
			<i>For Work In Restricted Working Space, Add</i>	3.05	
23 05 29 00-0295	EA		1" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	13.22	5.78
			<i>For Work In Restricted Working Space, Add</i>	3.21	
23 05 29 00-0296	EA		1-1/4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	13.96	5.78
			<i>For Work In Restricted Working Space, Add</i>	3.40	
23 05 29 00-0297	EA		1-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	14.75	6.75
			<i>For Work In Restricted Working Space, Add</i>	3.62	
23 05 29 00-0298	EA		2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	17.30	6.75
			<i>For Work In Restricted Working Space, Add</i>	3.86	
23 05 29 00-0299	EA		2-1/2" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	21.82	6.75
			<i>For Work In Restricted Working Space, Add</i>	4.13	
23 05 29 00-0300	EA		3" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	28.92	6.75
			<i>For Work In Restricted Working Space, Add</i>	4.45	
23 05 29 00-0301	EA		4" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	34.33	8.68
			<i>For Work In Restricted Working Space, Add</i>	5.21	
23 05 29 00-0302	EA		6" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	42.68	9.63
			<i>For Work In Restricted Working Space, Add</i>	5.78	
23 05 29 00-0303	EA		8" Standard Two Hole Pipe Strap, Galvanized Steel (Cooper B-Line B3180).....	54.16	10.60
			<i>For Work In Restricted Working Space, Add</i>	6.36	
23 05 29 00-0304			Two Hole Copper-Clad Pipe Straps (23 05 29 00-0291)		
23 05 29 00-0305	EA		1/2" Two Hole Copper-Clad Pipe Strap.....	5.25	
			<i>For Work In Restricted Working Space, Add</i>	1.45	
23 05 29 00-0306	EA		3/4" Two Hole Copper-Clad Pipe Strap.....	5.56	
			<i>For Work In Restricted Working Space, Add</i>	1.52	
23 05 29 00-0307	EA		1" Two Hole Copper-Clad Pipe Strap.....	6.17	
			<i>For Work In Restricted Working Space, Add</i>	1.59	
23 05 29 00-0308	EA		1-1/4" Two Hole Copper-Clad Pipe Strap.....	6.80	
			<i>For Work In Restricted Working Space, Add</i>	1.66	
23 05 29 00-0309	EA		1-1/2" Two Hole Copper-Clad Pipe Strap.....	7.28	
			<i>For Work In Restricted Working Space, Add</i>	1.73	
23 05 29 00-0310	EA		2" Two Hole Copper-Clad Pipe Strap.....	7.91	
			<i>For Work In Restricted Working Space, Add</i>	1.88	
23 05 29 00-0311			One Hole Galvanized Steel Pipe Straps (23 05 29 00-0291)		
23 05 29 00-0312	EA		1/2" One Hole Galvanized Steel Pipe Strap (Anvil 185D).....	2.72	
			<i>For Work In Restricted Working Space, Add</i>	0.48	
23 05 29 00-0313	EA		3/4" One Hole Galvanized Steel Pipe Strap (Anvil 185D).....	3.30	
			<i>For Work In Restricted Working Space, Add</i>	0.52	
23 05 29 00-0314	EA		1" One Hole Galvanized Steel Pipe Strap (Anvil 185D).....	3.54	
			<i>For Work In Restricted Working Space, Add</i>	0.56	
23 05 29 00-0315	EA		1-1/4" Galvanized Steel Strap, 1 Hole.....	3.81	
			<i>For Work In Restricted Working Space, Add</i>	0.60	
23 05 29 00-0316	EA		1-1/2" Galvanized Steel Strap, 1 Hole.....	4.08	
			<i>For Work In Restricted Working Space, Add</i>	0.66	
23 05 29 00-0317	EA		2" Galvanized Steel Strap, 1 Hole.....	4.56	
			<i>For Work In Restricted Working Space, Add</i>	0.72	
23 05 29 00-0318			Pipe and Equipment Support Brackets (23 05 29 00-0001)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0319 Pipe and Equipment Supports, Light Duty Welded Steel Bracket (Cooper B-Line B3068) <small>(23 05 29 00-0318)</small> Note: Up to 750# load.		
23 05 29 00-0320 EA 9" x 9" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068).....	133.59	10.65
For Work In Restricted Working Space, Add	6.39	
For Galvanized, Add	22.46	
23 05 29 00-0321 EA 13" x 13" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068).....	135.64	10.65
For Work In Restricted Working Space, Add	6.39	
For Galvanized, Add	22.87	
23 05 29 00-0322 EA 19" x 19" Light Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3068).....	143.77	10.65
For Work In Restricted Working Space, Add	6.39	
For Galvanized, Add	24.49	
23 05 29 00-0323 Pipe and Equipment Supports, Medium Duty Welded Steel Bracket (Cooper B-Line B3066) <small>(23 05 29 00-0318)</small> Note: Up to 1500# load.		
23 05 29 00-0324 EA 12" Wide x 18" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066).....	332.01	10.65
For Work In Restricted Working Space, Add	6.39	
For Galvanized, Add	62.14	
23 05 29 00-0325 EA 18" Wide x 24" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066).....	390.42	10.65
For Work In Restricted Working Space, Add	6.39	
For Galvanized, Add	73.82	
23 05 29 00-0326 EA 24" Wide x 30" Deep Medium Duty Welded Steel Bracket, Wall Mounted (Cooper B-Line B3066).....	509.53	10.65
For Work In Restricted Working Space, Add	6.39	
For Galvanized, Add	97.65	
23 05 29 00-0327 Pipe Alignment Guide <small>(23 05 29 00-0001)</small>		
23 05 29 00-0328 Pipe Alignment Guide, 1" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0329 EA 1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1/2).....	392.56	16.86
23 05 29 00-0330 EA 3/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3/4).....	393.44	17.31
23 05 29 00-0331 EA 1" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1).....	394.34	17.75
23 05 29 00-0332 EA 1-1/4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/4).....	395.22	18.19
23 05 29 00-0333 EA 1-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-1-1/2).....	431.06	18.64
23 05 29 00-0334 EA 2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2).....	440.04	20.41
23 05 29 00-0335 EA 2-1/2" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-2-1/2).....	441.37	21.08
23 05 29 00-0336 EA 3" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-3).....	442.70	21.74
23 05 29 00-0337 EA 4" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-4).....	468.55	23.08
23 05 29 00-0338 EA 5" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-5).....	546.80	29.29
23 05 29 00-0339 EA 6" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-6).....	559.22	35.51
23 05 29 00-0340 EA 8" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-8).....	631.00	44.38
23 05 29 00-0341 EA 10" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-10).....	1,162.02	53.25
23 05 29 00-0342 EA 12" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-12).....	1,766.85	71.00
23 05 29 00-0343 EA 14" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-14).....	2,174.45	88.76
23 05 29 00-0344 EA 16" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-16).....	2,615.15	99.41
23 05 29 00-0345 EA 18" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-18).....	2,821.27	110.95
23 05 29 00-0346 EA 20" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-20).....	2,999.82	126.92
23 05 29 00-0347 EA 24" Diameter Pipe Alignment Guide, 1" Insulation (Cooper B-Line B3281-24).....	3,775.32	133.13
23 05 29 00-0348 Pipe Alignment Guide, 1-1/2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0349 EA 1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1/2).....	393.44	17.31
23 05 29 00-0350 EA 3/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3/4).....	429.29	17.75
23 05 29 00-0351 EA 1" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1).....	430.17	18.19
23 05 29 00-0352 EA 1-1/4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/4).....	431.06	18.64
23 05 29 00-0353 EA 1-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-1-1/2).....	431.94	19.09
23 05 29 00-0354 EA 2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2).....	440.92	20.86
23 05 29 00-0355 EA 2-1/2" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-2-1/2).....	442.25	21.52
23 05 29 00-0356 EA 3" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-3).....	466.78	22.19
23 05 29 00-0357 EA 4" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-4).....	469.44	23.52
23 05 29 00-0358 EA 5" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-5).....	548.13	29.95
23 05 29 00-0359 EA 6" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-6).....	561.00	36.39
23 05 29 00-0360 EA 8" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-8).....	633.21	45.49
23 05 29 00-0361 EA 10" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-10).....	1,164.68	54.58
23 05 29 00-0362 EA 12" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-12).....	1,770.41	72.78
23 05 29 00-0363 EA 14" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-14).....	2,178.89	90.97
23 05 29 00-0364 EA 16" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-16).....	2,620.48	102.07
23 05 29 00-0365 EA 18" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-18).....	2,826.59	113.61
23 05 29 00-0366 EA 20" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-20).....	3,006.02	130.03
23 05 29 00-0367 EA 24" Diameter Pipe Alignment Guide, 1-1/2" Insulation (Cooper B-Line B3282-24).....	3,781.97	136.46
23 05 29 00-0368 Pipe Alignment Guide, 2" Insulation <small>(23 05 29 00-0327)</small>		
23 05 29 00-0369 EA 1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1/2).....	429.29	17.75
23 05 29 00-0370 EA 3/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-3/4).....	435.60	18.19
23 05 29 00-0371 EA 1" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1).....	436.49	18.64
23 05 29 00-0372 EA 1-1/4" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/4).....	437.37	19.09
23 05 29 00-0373 EA 1-1/2" Diameter Pipe Alignment Guide, 2" Insulation (Cooper B-Line B3283-1-1/2).....	438.26	19.53

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 29 Hangers And Supports For HVAC Piping And Equipment



MINOR CSI UOM DESCRIPTION TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

Table with 5 columns: Item ID, UOM, Description, Total Direct Unit Cost, Demolition Unit Cost. Rows include items 23 05 29 00-0374 through 23 05 29 00-0387.

23 05 29 00-0388 Pipe Alignment Guide, 2-1/2" Insulation (23 05 29 00-0327)

Table with 5 columns: Item ID, UOM, Description, Total Direct Unit Cost, Demolition Unit Cost. Rows include items 23 05 29 00-0389 through 23 05 29 00-0407.

23 05 29 00-0408 Pipe Alignment Guide, 3" Insulation (23 05 29 00-0327)

Table with 5 columns: Item ID, UOM, Description, Total Direct Unit Cost, Demolition Unit Cost. Rows include items 23 05 29 00-0409 through 23 05 29 00-0427.

23 05 29 00-0428 Pipe Alignment Guide, 3-1/2" Insulation (23 05 29 00-0327)

Table with 5 columns: Item ID, UOM, Description, Total Direct Unit Cost, Demolition Unit Cost. Rows include items 23 05 29 00-0429 through 23 05 29 00-0446.



	MINOR	CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0447		Pipe Alignment Guide, 4" Insulation <small>(23 05 29 00-0327)</small>		
	EA	1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1/2).....	527.27	19.53
	EA	3/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3/4).....	528.16	19.97
	EA	1" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1).....	529.05	20.41
	EA	1-1/4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/4).....	529.93	20.86
	EA	1-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-1-1/2).....	530.82	21.30
	EA	2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2).....	588.83	23.30
	EA	2-1/2" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-2-1/2).....	591.06	24.41
	EA	3" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-3).....	592.57	25.16
	EA	4" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-4).....	654.88	26.40
	EA	5" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-5).....	1,122.96	33.73
	EA	6" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-6).....	1,137.17	40.83
	EA	8" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-8).....	1,726.92	51.03
	EA	10" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-10).....	2,120.68	61.69
	EA	12" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-12).....	2,580.10	81.88
	EA	14" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-14).....	2,803.52	102.07
	EA	16" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-16).....	2,976.73	115.38
	EA	18" Diameter Pipe Alignment Guide, 4" Insulation (Cooper B-Line B3287-18).....	3,766.45	128.69
23 05 29 00-0465		Sway Bracing For No Hub Pipe <small>(23 05 29 00-0001)</small>		
	EA	1-1/2" Sway Bracing.....	104.29	11.71
		<i>For Work In Restricted Working Space, Add</i>	7.01	
	EA	2" Sway Bracing.....	107.52	12.34
		<i>For Work In Restricted Working Space, Add</i>	7.40	
	EA	3" Sway Bracing.....	111.44	13.05
		<i>For Work In Restricted Working Space, Add</i>	7.83	
	EA	4" Sway Bracing.....	126.48	14.82
		<i>For Work In Restricted Working Space, Add</i>	8.88	
	EA	6" Sway Bracing.....	185.68	22.19
		<i>For Work In Restricted Working Space, Add</i>	13.31	
	EA	8" Sway Bracing.....	206.36	27.69
		<i>For Work In Restricted Working Space, Add</i>	16.64	
	EA	10" Sway Bracing.....	233.88	37.02
		<i>For Work In Restricted Working Space, Add</i>	22.19	
23 05 29 00-0473		Pipe Stand With Adjustable Saddle (Cooper B-Line B3088T-18 Base, B3093 Adjustable Pipe Saddle) <small>(23 05 29 00-0001)</small>		
		<small>Note: Heights listed is total for base and adjustable saddle</small>		
	EA	23" to 28" High Pipe Stand With Adjustable Saddle For 1-1/4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	198.88	8.87
		<i>For Work In Restricted Working Space, Add</i>	5.33	
	EA	24" to 29" High Pipe Stand With Adjustable Saddle For 1-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	203.04	9.76
		<i>For Work In Restricted Working Space, Add</i>	5.86	
	EA	24" to 29" High Pipe Stand With Adjustable Saddle For 2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	356.11	11.10
		<i>For Work In Restricted Working Space, Add</i>	6.66	
	EA	24" to 29" High Pipe Stand With Adjustable Saddle For 2-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	454.23	12.43
		<i>For Work In Restricted Working Space, Add</i>	7.46	
	EA	24" to 29" High Pipe Stand With Adjustable Saddle For 3" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	460.15	13.75
		<i>For Work In Restricted Working Space, Add</i>	8.26	
	EA	25" to 29" High Pipe Stand With Adjustable Saddle For 3-1/2" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	499.51	15.53
		<i>For Work In Restricted Working Space, Add</i>	9.32	
	EA	25" to 30" High Pipe Stand With Adjustable Saddle For 4" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	604.50	16.86
		<i>For Work In Restricted Working Space, Add</i>	10.12	
	EA	25" to 30" High Pipe Stand With Adjustable Saddle For 5" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	611.46	18.19
		<i>For Work In Restricted Working Space, Add</i>	10.92	
	EA	26" to 31" High Pipe Stand With Adjustable Saddle For 6" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	620.41	19.97
		<i>For Work In Restricted Working Space, Add</i>	11.98	
	EA	28" to 33" High Pipe Stand With Adjustable Saddle For 8" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	643.03	21.74
		<i>For Work In Restricted Working Space, Add</i>	13.05	
	EA	29" to 34" High Pipe Stand With Adjustable Saddle For 10" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	682.84	23.97
		<i>For Work In Restricted Working Space, Add</i>	14.38	
	EA	30" to 35" High Pipe Stand With Adjustable Saddle For 12" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	702.07	26.62
		<i>For Work In Restricted Working Space, Add</i>	15.98	
	EA	32" to 37" High Pipe Stand With Adjustable Saddle For 14" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	857.38	29.29
		<i>For Work In Restricted Working Space, Add</i>	17.57	
	EA	33" to 38" High Pipe Stand With Adjustable Saddle For 16" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	925.36	32.84
		<i>For Work In Restricted Working Space, Add</i>	19.70	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 29 Hangers And Supports For HVAC Piping And Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0488 EA 35" to 40" High Pipe Stand With Adjustable Saddle For 18" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	1,323.06	36.39
<i>For Work In Restricted Working Space, Add</i>	21.83	
23 05 29 00-0489 EA 36" to 41" High Pipe Stand With Adjustable Saddle For 20" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	1,582.33	39.94
<i>For Work In Restricted Working Space, Add</i>	23.96	
23 05 29 00-0490 EA 39" to 44" High Pipe Stand With Adjustable Saddle For 24" Pipe (Cooper B-Line B3088T-18 Base, With B3093 Adjustable Pipe Saddle).....	1,858.06	43.49
<i>For Work In Restricted Working Space, Add</i>	26.09	
23 05 29 00-0491 Channel Mounted Cushion Clamp (23 05 29 00-0001)		
<i>Note: Includes fastening into channel.</i>		
23 05 29 00-0492 EA 1/2" Channel Mounted Cushion Clamp For 3/8" Pipe (Cooper B-Line BVT050).....	11.82	3.99
23 05 29 00-0493 EA 5/8" Channel Mounted Cushion Clamp For 1/2" Pipe (Cooper B-Line BVT062).....	12.44	4.44
23 05 29 00-0494 EA 7/8" Channel Mounted Cushion Clamp For 3/4" Pipe (Cooper B-Line BVT087).....	14.05	4.66
23 05 29 00-0495 EA 1-1/8" Channel Mounted Cushion Clamp For 1" Pipe (Cooper B-Line BVT112).....	15.14	4.88
23 05 29 00-0496 EA 1-3/8" Channel Mounted Cushion Clamp For 1-1/4" Pipe (Cooper B-Line BVT137).....	17.04	5.32
23 05 29 00-0497 EA 1-5/8" Channel Mounted Cushion Clamp For 1-1/2" Pipe (Cooper B-Line BVT162).....	19.44	5.54
23 05 29 00-0498 EA 2-1/8" Channel Mounted Cushion Clamp For 2" Pipe (Cooper B-Line BVT212).....	25.79	5.77
23 05 29 00-0499 EA 2-5/8" Channel Mounted Cushion Clamp For 2-1/2" Pipe (Cooper B-Line BVT262).....	28.69	6.22
23 05 29 00-0500 EA 3-1/8" Channel Mounted Cushion Clamp For 3" Pipe (Cooper B-Line BVT312).....	35.79	7.10
23 05 29 00-0501 EA 4-1/8" Channel Mounted Cushion Clamp For 4" Pipe (Cooper B-Line BVT412).....	57.03	7.99
23 05 29 00-0502 Galvanized Steel Cushion Tube Clamp (KMC) (23 05 29 00-0001)		
<i>Note: Excludes fastening bolt and drilling if necessary.</i>		
23 05 29 00-0503 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/8" Pipe.....	3.20	
<i>Note: 19/32" Center To Center Length, 9/32" Hole Diameter For Screw</i>		
23 05 29 00-0504 EA 1/2" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/8" Pipe.....	3.28	
<i>Note: 23/32" Center To Center Length, 13/32" Hole Diameter For Screw</i>		
23 05 29 00-0505 EA 5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1/2" Pipe.....	3.33	
<i>Note: 23/32" Center To Center Length, 9/32" Hole Diameter For Screw</i>		
23 05 29 00-0506 EA 5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1/2" Pipe.....	3.46	
<i>Note: 27/32" Center To Center Length, 13/32" Hole Diameter For Screw</i>		
23 05 29 00-0507 EA 7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3/4" Pipe.....	3.30	
<i>Note: 27/32" Center To Center Length, 9/32" Hole Diameter For Screw</i>		
23 05 29 00-0508 EA 7/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3/4" Pipe.....	3.54	
<i>Note: 31/32" Center To Center Length, 13/32" Hole Diameter For Screw</i>		
23 05 29 00-0509 EA 1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1" Pipe.....	3.40	
<i>Note: 31/32" Center To Center Length, 9/32" Hole Diameter For Screw</i>		
23 05 29 00-0510 EA 1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1" Pipe.....	3.68	
<i>Note: 1-1/32" Center To Center Length, 13/32" Hole Diameter For Screw</i>		
23 05 29 00-0511 EA 1-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1" Pipe.....	3.69	
<i>Note: 1-5/32" Center To Center Length, 17/32" Hole Diameter For Screw</i>		
23 05 29 00-0512 EA 1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/4" Pipe.....	3.52	
<i>Note: 1-3/32" Center To Center Length, 9/32" Hole Diameter For Screw</i>		
23 05 29 00-0513 EA 1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/4" Pipe.....	3.65	
<i>Note: 1-7/32" Center To Center Length, 13/32" Hole Diameter For Screw</i>		
23 05 29 00-0514 EA 1-3/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/4" Pipe.....	4.05	
<i>Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw</i>		
23 05 29 00-0515 EA 1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 1-1/2" Pipe.....	3.67	
<i>Note: 1-5/16" Center To Center Length, 9/32" Hole Diameter For Screw</i>		
23 05 29 00-0516 EA 1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 1-1/2" Pipe.....	3.92	
<i>Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw</i>		
23 05 29 00-0517 EA 1-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 1-1/2" Pipe.....	4.35	
<i>Note: 1-13/16" Center To Center Length, 17/32" Hole Diameter For Screw</i>		
23 05 29 00-0518 EA 2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2" Pipe.....	4.39	
<i>Note: 1-7/16" Center To Center Length, 9/32" Hole Diameter For Screw</i>		
23 05 29 00-0519 EA 2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2" Pipe.....	4.62	
<i>Note: 1-9/16" Center To Center Length, 13/32" Hole Diameter For Screw</i>		
23 05 29 00-0520 EA 2-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2" Pipe.....	5.09	
<i>Note: 1-11/16" Center To Center Length, 17/32" Hole Diameter For Screw</i>		
23 05 29 00-0521 EA 2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 2-1/2" Pipe.....	5.23	
<i>Note: 1-11/16" Center To Center Length, 9/32" Hole Diameter For Screw</i>		
23 05 29 00-0522 EA 2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 2-1/2" Pipe.....	5.93	
<i>Note: 1-13/16" Center To Center Length, 13/32" Hole Diameter For Screw</i>		
23 05 29 00-0523 EA 2-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 2-1/2" Pipe.....	5.98	
<i>Note: 1-15/16" Center To Center Length, 17/32" Hole Diameter For Screw</i>		
23 05 29 00-0524 EA 3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3" Pipe.....	5.37	
<i>Note: 1-15/16" Center To Center Length, 9/32" Hole Diameter For Screw</i>		
23 05 29 00-0525 EA 3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3" Pipe.....	5.93	
<i>Note: 2-1/16" Center To Center Length, 13/32" Hole Diameter For Screw</i>		
23 05 29 00-0526 EA 3-1/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3" Pipe.....	6.26	
<i>Note: 2-3/16" Center To Center Length, 17/32" Hole Diameter For Screw</i>		
23 05 29 00-0527 EA 3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 3-1/2" Pipe.....	5.55	
<i>Note: 2-3/16" Center To Center Length, 9/32" Hole Diameter For Screw</i>		
23 05 29 00-0528 EA 3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 3-1/2" Pipe.....	5.89	
<i>Note: 2-5/16" Center To Center Length, 13/32" Hole Diameter For Screw</i>		
23 05 29 00-0529 EA 3-5/8" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 3-1/2" Pipe.....	7.19	
<i>Note: 2-7/16" Center To Center Length, 17/32" Hole Diameter For Screw</i>		
23 05 29 00-0530 EA 4" Vinyl Coated Galvanized Cushion Tube Clamp, 1/2" Width For 4" Pipe.....	5.51	
<i>Note: 2-7/16" Center To Center Length, 9/32" Hole Diameter For Screw</i>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0531 EA 4" Vinyl Coated Galvanized Cushion Tube Clamp, 3/4" Width For 4" Pipe.....	6.00	
Note: 2-9/16" Center To Center Length, 13/32" Hole Diameter For Screw		
23 05 29 00-0532 EA 4" Vinyl Coated Galvanized Cushion Tube Clamp, 1" Width For 4" Pipe.....	7.48	
Note: 2-11/16" Center To Center Length, 17/32" Hole Diameter For Screw		
23 05 29 00-0533 Rooftop Pipe Supports <small>(23 05 29 00-0001)</small>		
Note: Excludes pipe/conduit clamps and straps.		
23 05 29 00-0534 Rooftop Support Base <small>(23 05 29 00-0533)</small>		
23 05 29 00-0535 EA 4" x 6" x 4.8" Rooftop Support Base (Cooper B-Line Dura-Blok DBM).....	30.56	7.23
23 05 29 00-0536 EA 4" x 6" x 9.6" Rooftop Support Base (Cooper B-Line Dura-Blok DBP).....	42.51	9.63
23 05 29 00-0537 Rooftop Support Base With 14 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0538 EA 5" x 6" x 4.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB5).....	34.57	7.23
23 05 29 00-0539 EA 5" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10).....	49.02	9.63
23 05 29 00-0540 EA 5" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB20).....	89.60	12.05
23 05 29 00-0541 EA 5" x 6" x 30.8" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB30).....	123.49	14.46
23 05 29 00-0542 EA 5" x 6" x 41.4" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB40).....	170.51	16.87
23 05 29 00-0543 EA 5" x 6" x 52" Rooftop Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB48).....	180.05	19.28
23 05 29 00-0544 Rooftop Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0545 EA 6-7/16" x 6" x 9.6" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB610).....	59.66	9.63
23 05 29 00-0546 EA 6-7/16" x 6" x 20.2" Support Base With 14 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB620).....	94.35	12.05
23 05 29 00-0547 EA 6-7/16" x 6" x 30.8" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB630).....	125.39	14.46
23 05 29 00-0548 EA 6-7/16" x 6" x 41.4" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB640).....	170.61	16.87
23 05 29 00-0549 EA 6-7/16" x 6" x 52" Rooftop Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB648).....	191.22	14.46
23 05 29 00-0550 Rooftop Bridge Support Base With 12 Gauge Galvanized Channel <small>(23 05 29 00-0533)</small>		
23 05 29 00-0551 EA 5-5/8" x 6" x 28" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-28).....	99.66	14.46
23 05 29 00-0552 EA 5-5/8" x 6" x 36" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-36).....	113.57	16.87
23 05 29 00-0553 EA 5-5/8" x 6" x 42" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-42).....	118.35	19.28
23 05 29 00-0554 EA 5-5/8" x 6" x 50" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-50).....	129.64	21.68
23 05 29 00-0555 EA 5-5/8" x 6" x 60" Rooftop Bridge Support Base With 12 Gauge Galvanized Channel (Cooper B-Line Dura-Blok DB10-60).....	165.33	24.10
23 05 29 00-0556 Rooftop Pipe Support Base And Rod <small>(23 05 29 00-0533)</small>		
23 05 29 00-0557 EA 9.69" To 11.19" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1/2CT).....	72.27	9.63
23 05 29 00-0558 EA 9.84" To 11.34" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-3/4CT).....	72.27	9.63
23 05 29 00-0559 EA 9.95" To 11.45" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1CT).....	72.67	9.63
23 05 29 00-0560 EA 10.13" To 11.63" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/4CT).....	77.89	12.05
23 05 29 00-0561 EA 10.28" To 11.78" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-1-1/2CT).....	74.98	12.05
23 05 29 00-0562 EA 10.53" To 12.03" Height Rooftop Pipe Support Base And Rod (Cooper B-Line Dura-Blok DBM-2CT).....	78.72	12.05
23 05 29 00-0563 Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly <small>(23 05 29 00-0533)</small>		
23 05 29 00-0564 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR2-3 1/2).....	91.34	9.63
23 05 29 00-0565 EA 7.09" x 6" x 9.6" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR4-6).....	101.80	9.63
23 05 29 00-0566 EA 8.34" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR8-10).....	133.35	12.05
23 05 29 00-0567 EA 9.38" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR12-14).....	176.09	12.05
23 05 29 00-0568 EA 9.78" x 6" x 20.2" Rooftop Support Base With 14 Gauge Galvanized Channel And Fixed Height Roller Assembly (Cooper B-Line Dura-Blok DBR16-20).....	239.57	12.05
23 05 29 00-0569 Rooftop Support Base And Adjustable Height Roller Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes base, two zinc all threaded rod risers and pipe roller.		
23 05 29 00-0570 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Roller Assembly (Cooper B-Line Dura-Blok DBR10-12).....	114.14	14.46
23 05 29 00-0571 Rooftop Support Base And Adjustable Height Channel Assembly <small>(23 05 29 00-0533)</small>		
Note: Includes base, two zinc all threaded rod and 14 gauge slotted channel.		
23 05 29 00-0572 EA Up To 8" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-8).....	75.17	12.05
23 05 29 00-0573 EA Up To 12" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-12).....	102.19	14.46
23 05 29 00-0574 EA Up To 16" Height, 6" x 9.6" Rooftop Support Base And Adjustable Height Channel Assembly (Cooper B-Line Dura-Blok DBE10-16).....	114.05	16.87

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 29 Hangers And Supports For HVAC Piping And Equipment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0575			Rooftop Support Bases With Channel Support And Risers Assembly <small>(23 05 29 00-0533)</small>		
			Note: Includes two support bases, two 12 gauge galvanized channel risers and one 12 gauge galvanized channel support. Dimensions are "overall" (height x width x length).		
23 05 29 00-0576	EA		23" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2318DS).....	272.62	19.28
23 05 29 00-0577	EA		29" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2918DS).....	275.63	19.28
23 05 29 00-0578	EA		41" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4118DS).....	286.18	19.28
23 05 29 00-0579	EA		53" x 25-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5318DS).....	310.41	19.28
23 05 29 00-0580	EA		23" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2324DS).....	267.25	19.28
23 05 29 00-0581	EA		29" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2924DS).....	277.35	19.28
23 05 29 00-0582	EA		41" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4124DS).....	287.90	19.28
23 05 29 00-0583	EA		53" x 31-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5324DS).....	312.12	19.28
23 05 29 00-0584	EA		23" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2336DS).....	279.25	19.28
23 05 29 00-0585	EA		29" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2936DS).....	282.78	19.28
23 05 29 00-0586	EA		41" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4136DS).....	293.13	19.28
23 05 29 00-0587	EA		53" x 43-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5336DS).....	317.45	19.28
23 05 29 00-0588	EA		23" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2348DS).....	291.51	19.28
23 05 29 00-0589	EA		29" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB2948DS).....	294.73	19.28
23 05 29 00-0590	EA		41" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB4148DS).....	305.08	19.28
23 05 29 00-0591	EA		53" x 55-5/8" x 20.2" Rooftop Support Bases With Channel Support And Risers Assembly (Cooper B-Line Dura-Blok DB5348DS).....	329.40	19.28

23 05 29 00-0592			Threaded Rod, Accessories And Attachments <small>(23 05 29)</small>		
23 05 29 00-0593			Threaded Rod And Rod Accessories <small>(23 05 29 00-0592)</small>		
23 05 29 00-0594			Threaded Rod <small>(23 05 29 00-0593)</small>		
			Note: Fully threaded.		
23 05 29 00-0595	LF		3/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	3.11	0.60
			<i>For Work In Restricted Working Space, Add</i>	0.36	
			<i>For Galvanized, Add</i>	0.76	
			<i>For Zinc Plated, Add</i>	0.54	
23 05 29 00-0596	LF		1/2" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	4.30	0.64
			<i>For Work In Restricted Working Space, Add</i>	0.38	
			<i>For Galvanized, Add</i>	1.21	
			<i>For Zinc Plated, Add</i>	0.86	
23 05 29 00-0597	LF		5/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	6.02	0.66
			<i>For Work In Restricted Working Space, Add</i>	0.40	
			<i>For Galvanized, Add</i>	1.88	
			<i>For Zinc Plated, Add</i>	1.34	
23 05 29 00-0598	LF		3/4" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	9.88	0.68
			<i>For Work In Restricted Working Space, Add</i>	0.41	
			<i>For Galvanized, Add</i>	3.40	
			<i>For Zinc Plated, Add</i>	2.43	
23 05 29 00-0599	LF		7/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	10.78	0.70
			<i>For Work In Restricted Working Space, Add</i>	0.43	
			<i>For Galvanized, Add</i>	3.74	
			<i>For Zinc Plated, Add</i>	2.67	
23 05 29 00-0600	LF		1" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	14.75	0.80
			<i>For Work In Restricted Working Space, Add</i>	0.48	
			<i>For Galvanized, Add</i>	5.26	
			<i>For Zinc Plated, Add</i>	3.74	
23 05 29 00-0601	LF		1-1/8" Diameter, Plain Finish Steel, Low Carbon Threaded Rod.....	18.35	0.90
			<i>For Work In Restricted Working Space, Add</i>	0.53	
			<i>For Galvanized, Add</i>	6.63	
			<i>For Zinc Plated, Add</i>	4.72	

23 05 29 00-0602			Rod Couplings <small>(23 05 29 00-0593)</small>		
23 05 29 00-0603	EA		3/8" Diameter, Threaded Rod Coupling Nut.....	7.43	
			<i>For Work In Restricted Working Space, Add</i>	1.78	
23 05 29 00-0604	EA		1/2" Diameter, Threaded Rod Coupling Nut.....	8.46	
			<i>For Work In Restricted Working Space, Add</i>	1.97	
23 05 29 00-0605	EA		5/8" Diameter, Threaded Rod Coupling Nut.....	10.75	
			<i>For Work In Restricted Working Space, Add</i>	2.22	
23 05 29 00-0606	EA		3/4" Diameter, Threaded Rod Coupling Nut.....	13.31	
			<i>For Work In Restricted Working Space, Add</i>	2.42	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0607 EA 7/8" Diameter, Threaded Rod Coupling Nut.....	20.15	
For Work In Restricted Working Space, Add	2.66	
23 05 29 00-0608 EA 1" Diameter, Threaded Rod Coupling Nut.....	23.92	
For Work In Restricted Working Space, Add	3.13	
23 05 29 00-0609 EA 1-1/8" Diameter, Threaded Rod Coupling Nut	47.51	
For Work In Restricted Working Space, Add	3.55	
23 05 29 00-0610 Flat Washers (23 05 29 00-0593)		
Note: Zinc plated.		
23 05 29 00-0611 EA 3/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.53	0.19
For Work In Restricted Working Space, Add	0.12	
For Galvanized, Add	0.03	
23 05 29 00-0612 EA 1/2" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	0.74	0.19
For Work In Restricted Working Space, Add	0.14	
For Galvanized, Add	0.07	
23 05 29 00-0613 EA 5/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.08	0.29
For Work In Restricted Working Space, Add	0.16	
For Galvanized, Add	0.14	
23 05 29 00-0614 EA 3/4" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.47	0.29
For Work In Restricted Working Space, Add	0.20	
For Galvanized, Add	0.20	
23 05 29 00-0615 EA 7/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	1.74	0.38
For Work In Restricted Working Space, Add	0.24	
For Galvanized, Add	0.24	
23 05 29 00-0616 EA 1" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.06	0.38
For Work In Restricted Working Space, Add	0.27	
For Galvanized, Add	0.29	
23 05 29 00-0617 EA 1-1/8" Inside Diameter, Zinc Plated Steel, Low Carbon Flat Washer	2.32	0.48
For Work In Restricted Working Space, Add	0.30	
For Galvanized, Add	0.33	
23 05 29 00-0618 Hex Nuts (23 05 29 00-0593)		
Note: Grade 2 and zinc plated.		
23 05 29 00-0619 EA 3/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.65	0.24
For Work In Restricted Working Space, Add	0.16	
For Galvanized, Add	0.03	
23 05 29 00-0620 EA 1/2" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	0.84	0.24
For Work In Restricted Working Space, Add	0.18	
For Galvanized, Add	0.06	
23 05 29 00-0621 EA 5/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.18	0.24
For Work In Restricted Working Space, Add	0.19	
For Galvanized, Add	0.14	
23 05 29 00-0622 EA 3/4" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	1.41	0.48
For Work In Restricted Working Space, Add	0.20	
For Galvanized, Add	0.19	
23 05 29 00-0623 EA 7/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.10	0.48
For Work In Restricted Working Space, Add	0.21	
For Galvanized, Add	0.35	
23 05 29 00-0624 EA 1" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	2.69	0.48
For Work In Restricted Working Space, Add	0.24	
For Galvanized, Add	0.47	
23 05 29 00-0625 EA 1-1/8" Diameter, Zinc Plated Steel, Low Carbon/Grade 2 Hex Nut	4.48	0.48
For Work In Restricted Working Space, Add	0.27	
For Galvanized, Add	0.90	
23 05 29 00-0626 Turnbuckle (Cooper B-Line B3202) (23 05 29 00-0593)		
Note: Type 13.		
23 05 29 00-0627 EA 3/8" Turnbuckle (Cooper B-Line B3202)	27.91	4.82
For Work In Restricted Working Space, Add	2.89	
23 05 29 00-0628 EA 1/2" Turnbuckle (Cooper B-Line B3202)	33.44	5.30
For Work In Restricted Working Space, Add	3.21	
23 05 29 00-0629 EA 5/8" Turnbuckle (Cooper B-Line B3202)	35.81	5.78
For Work In Restricted Working Space, Add	3.62	
23 05 29 00-0630 EA 3/4" Turnbuckle (Cooper B-Line B3202)	45.59	6.75
For Work In Restricted Working Space, Add	4.13	
23 05 29 00-0631 EA 7/8" Turnbuckle (Cooper B-Line B3202)	59.69	7.23
For Work In Restricted Working Space, Add	4.82	
23 05 29 00-0632 EA 1" Turnbuckle (Cooper B-Line B3202)	74.35	7.72
For Work In Restricted Working Space, Add	5.79	
23 05 29 00-0633 EA 1-1/8" Turnbuckle (Cooper B-Line B3202)	104.14	8.68
For Work In Restricted Working Space, Add	7.23	
23 05 29 00-0634 Swivel Turnbuckle (Cooper B-Line B3224) (23 05 29 00-0593)		
Note: Type 15.		
23 05 29 00-0635 EA 3/8" Swivel Turnbuckle (Cooper B-Line B3224)	16.36	4.82
For Work In Restricted Working Space, Add	2.89	
23 05 29 00-0636 EA 1/2" Swivel Turnbuckle (Cooper B-Line B3224)	19.10	5.40
For Work In Restricted Working Space, Add	3.21	
23 05 29 00-0637 EA 5/8" Swivel Turnbuckle (Cooper B-Line B3224)	26.14	5.98
For Work In Restricted Working Space, Add	3.62	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0638 EA 3/4" Swivel Turnbuckle (Cooper B-Line B3224) <i>For Work In Restricted Working Space, Add</i>	31.88 4.13	6.84
23 05 29 00-0639 Forged Steel Clevis (Cooper B-Line B3201) (23 05 29 00-0593) Note: Type 14.		
23 05 29 00-0640 EA 3-9/16" Forged Steel Clevis With Pin, 3/8" To 5/8" Rod Size (Cooper B-Line B3201) <i>For Work In Restricted Working Space, Add</i>	98.42 5.33	8.87
23 05 29 00-0641 EA 4" Forged Steel Clevis With Pin, 3/4" To 7/8" Rod Size (Cooper B-Line B3201) <i>For Work In Restricted Working Space, Add</i>	148.00 5.60	9.32
23 05 29 00-0642 EA 5-1/16" Forged Steel Clevis With Pin, 1" Rod Size (Cooper B-Line B3201)..... <i>For Work In Restricted Working Space, Add</i>	160.25 5.92	9.76
23 05 29 00-0643 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/8" Rod Size (Cooper B-Line B3201)..... <i>For Work In Restricted Working Space, Add</i>	166.76 6.27	10.65
23 05 29 00-0644 EA 5-1/16" Forged Steel Clevis With Pin, 1-1/4" Rod Size (Cooper B-Line B3201)..... <i>For Work In Restricted Working Space, Add</i>	174.87 7.10	11.98
23 05 29 00-0645 EA 6" Forged Steel Clevis With Pin, 1-1/2" Rod Size (Cooper B-Line B3201)..... <i>For Work In Restricted Working Space, Add</i>	294.55 9.32	15.53
23 05 29 00-0646 EA 5-15/16" Forged Steel Clevis With Pin, 1-3/4" Rod Size (Cooper B-Line B3201)..... <i>For Work In Restricted Working Space, Add</i>	319.03 10.65	17.75
23 05 29 00-0647 EA 7" Forged Steel Clevis With Pin, 2" Rod Size (Cooper B-Line B3201)..... <i>For Work In Restricted Working Space, Add</i>	375.14 13.31	22.19
23 05 29 00-0648 Welded Eye Rod (Cooper B-Line B3211) (23 05 29 00-0593)		
23 05 29 00-0649 EA 3/8" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	27.44 3.13	5.21
23 05 29 00-0650 EA 3/8" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	28.37 3.19	5.30
23 05 29 00-0651 EA 3/8" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	29.30 3.25	5.40
23 05 29 00-0652 EA 3/8" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	29.50 3.31	5.49
23 05 29 00-0653 EA 3/8" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	31.38 3.44	5.68
23 05 29 00-0654 EA 3/8" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	33.48 3.62	6.07
23 05 29 00-0655 EA 3/8" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	34.80 3.80	6.37
23 05 29 00-0656 EA 3/8" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	37.64 3.98	6.65
23 05 29 00-0657 EA 3/8" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	39.70 4.16	6.94
23 05 29 00-0658 EA 3/8" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	41.79 4.34	7.23
23 05 29 00-0659 EA 1/2" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	37.40 3.47	5.78
23 05 29 00-0660 EA 1/2" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	38.33 3.53	5.89
23 05 29 00-0661 EA 1/2" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	39.31 3.59	5.98
23 05 29 00-0662 EA 1/2" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	40.25 3.66	6.08
23 05 29 00-0663 EA 1/2" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	42.16 3.79	6.27
23 05 29 00-0664 EA 1/2" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	45.75 3.98	6.65
23 05 29 00-0665 EA 1/2" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	48.61 4.17	6.94
23 05 29 00-0666 EA 1/2" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	52.21 4.37	7.23
23 05 29 00-0667 EA 1/2" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	55.04 4.56	7.62
23 05 29 00-0668 EA 1/2" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	57.92 4.75	7.91
23 05 29 00-0669 EA 5/8" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	51.33 3.88	6.46
23 05 29 00-0670 EA 5/8" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	53.01 3.95	6.56
23 05 29 00-0671 EA 5/8" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	54.72 4.01	6.65
23 05 29 00-0672 EA 5/8" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	55.68 4.08	6.84
23 05 29 00-0673 EA 5/8" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	58.34 4.21	7.04
23 05 29 00-0674 EA 5/8" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	62.70 4.41	7.32
23 05 29 00-0675 EA 5/8" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	67.05 4.61	7.72
23 05 29 00-0676 EA 5/8" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	70.67 4.82	8.00
23 05 29 00-0677 EA 5/8" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	75.02 5.01	8.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0678 EA 5/8" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	79.36 5.21	8.68
23 05 29 00-0679 EA 3/4" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	63.41 4.41	7.32
23 05 29 00-0680 EA 3/4" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	65.88 4.48	7.42
23 05 29 00-0681 EA 3/4" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	67.57 4.55	7.62
23 05 29 00-0682 EA 3/4" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	70.01 4.62	7.72
23 05 29 00-0683 EA 3/4" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	74.16 4.76	7.91
23 05 29 00-0684 EA 3/4" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	79.99 4.96	8.29
23 05 29 00-0685 EA 3/4" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	85.84 5.16	8.58
23 05 29 00-0686 EA 3/4" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	92.45 5.37	8.96
23 05 29 00-0687 EA 3/4" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	99.01 5.57	9.26
23 05 29 00-0688 EA 3/4" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	104.87 5.78	9.64
23 05 29 00-0689 EA 7/8" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	76.09 5.12	8.48
23 05 29 00-0690 EA 7/8" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	79.27 5.18	8.68
23 05 29 00-0691 EA 7/8" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	81.74 5.26	8.77
23 05 29 00-0692 EA 7/8" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	84.19 5.33	8.87
23 05 29 00-0693 EA 7/8" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	89.11 5.47	9.16
23 05 29 00-0694 EA 7/8" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	97.19 5.69	9.45
23 05 29 00-0695 EA 7/8" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	104.54 5.90	9.84
23 05 29 00-0696 EA 7/8" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	112.63 6.11	10.22
23 05 29 00-0697 EA 7/8" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	119.99 6.33	10.51
23 05 29 00-0698 EA 7/8" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	127.35 6.54	10.90
23 05 29 00-0699 EA 1" Diameter x 8" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	95.63 6.11	10.22
23 05 29 00-0700 EA 1" Diameter x 10" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	98.86 6.19	10.31
23 05 29 00-0701 EA 1" Diameter x 12" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	102.09 6.27	10.41
23 05 29 00-0702 EA 1" Diameter x 14" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	105.31 6.35	10.60
23 05 29 00-0703 EA 1" Diameter x 18" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	111.71 6.51	10.90
23 05 29 00-0704 EA 1" Diameter x 24" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	121.39 6.75	11.28
23 05 29 00-0705 EA 1" Diameter x 30" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	131.07 6.99	11.67
23 05 29 00-0706 EA 1" Diameter x 36" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	141.43 7.23	12.05
23 05 29 00-0707 EA 1" Diameter x 42" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	151.08 7.47	12.43
23 05 29 00-0708 EA 1" Diameter x 48" Length Shank, Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	160.77 7.71	12.83
23 05 29 00-0709 Welded Linked Eye Rod (Cooper B-Line B3211X) (23 05 29 00-0593)		
23 05 29 00-0710 EA 3/8" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	59.85 4.24	7.04
23 05 29 00-0711 EA 3/8" Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	61.46 4.36	7.23
23 05 29 00-0712 EA 3/8" Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	63.07 4.48	7.52
23 05 29 00-0713 EA 3/8" Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	63.69 4.67	7.80
23 05 29 00-0714 EA 3/8" Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	66.72 4.84	8.10
23 05 29 00-0715 EA 3/8" Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	70.44 5.21	8.68
23 05 29 00-0716 EA 3/8" Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	72.85 5.57	9.25
23 05 29 00-0717 EA 3/8" Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	77.76 5.93	9.93
23 05 29 00-0718 EA 1/2" Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	78.21 4.69	7.81

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 29 Hangers And Supports For HVAC Piping And Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0719	EA	1/2"	Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	79.86 4.82	8.00
23 05 29 00-0720	EA	1/2"	Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	81.56 4.94	8.20
23 05 29 00-0721	EA	1/2"	Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	83.42 5.14	8.58
23 05 29 00-0722	EA	1/2"	Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	86.50 5.33	8.87
23 05 29 00-0723	EA	1/2"	Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	92.70 5.71	9.55
23 05 29 00-0724	EA	1/2"	Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	97.69 6.10	10.12
23 05 29 00-0725	EA	1/2"	Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	103.90 6.48	10.79
23 05 29 00-0726	EA	5/8"	Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	105.82 5.24	8.68
23 05 29 00-0727	EA	5/8"	Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	108.69 5.37	8.96
23 05 29 00-0728	EA	5/8"	Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	111.62 5.50	9.16
23 05 29 00-0729	EA	5/8"	Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	113.51 5.70	9.55
23 05 29 00-0730	EA	5/8"	Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	117.87 5.90	9.84
23 05 29 00-0731	EA	5/8"	Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	125.36 6.30	10.51
23 05 29 00-0732	EA	5/8"	Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	132.82 6.70	11.19
23 05 29 00-0733	EA	5/8"	Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	139.07 7.10	11.86
23 05 29 00-0734	EA	3/4"	Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	134.54 5.93	9.84
23 05 29 00-0735	EA	3/4"	Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	138.73 6.06	10.12
23 05 29 00-0736	EA	3/4"	Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	141.62 6.20	10.31
23 05 29 00-0737	EA	3/4"	Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	146.00 6.41	10.70
23 05 29 00-0738	EA	3/4"	Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	152.83 6.61	11.00
23 05 29 00-0739	EA	3/4"	Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	162.78 7.02	11.67
23 05 29 00-0740	EA	3/4"	Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	172.77 7.43	12.34
23 05 29 00-0741	EA	3/4"	Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	184.00 7.84	13.11
23 05 29 00-0742	EA	7/8"	Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	161.89 6.85	11.38
23 05 29 00-0743	EA	7/8"	Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	167.30 6.99	11.67
23 05 29 00-0744	EA	7/8"	Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	171.47 7.13	11.86
23 05 29 00-0745	EA	7/8"	Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	175.86 7.35	12.24
23 05 29 00-0746	EA	7/8"	Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	183.99 7.56	12.63
23 05 29 00-0747	EA	7/8"	Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	197.70 7.99	13.31
23 05 29 00-0748	EA	7/8"	Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	210.19 8.42	14.07
23 05 29 00-0749	EA	7/8"	Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	223.91 8.85	14.75
23 05 29 00-0750	EA	1"	Diameter x 16" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	206.83 8.16	13.59
23 05 29 00-0751	EA	1"	Diameter x 20" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	212.30 8.33	13.88
23 05 29 00-0752	EA	1"	Diameter x 24" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	217.76 8.48	14.18
23 05 29 00-0753	EA	1"	Diameter x 30" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	223.49 8.73	14.56
23 05 29 00-0754	EA	1"	Diameter x 36" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	234.09 8.97	14.94
23 05 29 00-0755	EA	1"	Diameter x 48" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	250.48 9.45	15.71
23 05 29 00-0756	EA	1"	Diameter x 60" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	266.88 9.93	16.58
23 05 29 00-0757	EA	1"	Diameter x 72" Length Shank, Linked Welded Eye Rod <i>For Work In Restricted Working Space, Add</i>	284.40 10.41	17.35

23 05 29 00-0758 Attachments (23 05 29 00-0522)

23 05 29 00-0759 Welded Beam Attachments (B-Line B-3083) (23 05 29 00-0758)
Note: Type 22.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0760 EA 3/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083) <i>For Work In Restricted Working Space, Add</i>	32.08 5.39	8.98
23 05 29 00-0761 EA 1/2" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083) <i>For Work In Restricted Working Space, Add</i>	34.15 5.67	9.43
23 05 29 00-0762 EA 5/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083) <i>For Work In Restricted Working Space, Add</i>	36.30 5.99	9.97
23 05 29 00-0763 EA 3/4" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083) <i>For Work In Restricted Working Space, Add</i>	44.81 6.34	10.60
23 05 29 00-0764 EA 7/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083) <i>For Work In Restricted Working Space, Add</i>	52.74 6.74	11.23
23 05 29 00-0765 EA 1" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083) <i>For Work In Restricted Working Space, Add</i>	71.90 7.70	12.84
23 05 29 00-0766 EA 1-1/8" Rod Size, Welded Beam Attachment With Pin (B-Line B-3083) <i>For Work In Restricted Working Space, Add</i>	98.53 8.08	13.47
23 05 29 00-0767 C-Clamp Style Beam Clamps (B-Line B-3034) (23 05 29 00-0758) Note: Type 23. Top or bottom flange mount.		
23 05 29 00-0768 EA 3/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034) <i>For Work In Restricted Working Space, Add</i>	13.78 3.62	4.92
23 05 29 00-0769 EA 1/2" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034) <i>For Work In Restricted Working Space, Add</i>	15.85 3.86	6.27
23 05 29 00-0770 EA 5/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034) <i>For Work In Restricted Working Space, Add</i>	17.66 4.13	6.75
23 05 29 00-0771 EA 3/4" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034) <i>For Work In Restricted Working Space, Add</i>	21.58 4.45	7.23
23 05 29 00-0772 EA 7/8" Rod Size, C-Clamp Style Beam Clamp (B-Line B-3034) <i>For Work In Restricted Working Space, Add</i>	29.18 4.82	7.72
23 05 29 00-0773 Bottom Mount I-Beam Clamps (B-Line B-3055) (23 05 29 00-0758) Note: Type 21. For attaching threaded rod centered under beam flanges.		
23 05 29 00-0774 EA 3/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055) <i>For Work In Restricted Working Space, Add</i>	31.24 4.82	6.75
23 05 29 00-0775 EA 1/2" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055) <i>For Work In Restricted Working Space, Add</i>	43.54 5.26	8.68
23 05 29 00-0776 EA 5/8" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055) <i>For Work In Restricted Working Space, Add</i>	59.95 5.79	9.64
23 05 29 00-0777 EA 3/4" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055) <i>For Work In Restricted Working Space, Add</i>	71.11 6.43	10.60
23 05 29 00-0778 EA 1" Rod Size, Up To 6" Flange Width, Bottom Mount I-Beam Clamp (B-Line B-3055) <i>For Work In Restricted Working Space, Add</i>	161.28 7.23	11.57
23 05 29 00-0779 Steel U-Bolts (B-Line B-3188) (23 05 29 00-0758) Note: Type 24. Includes plate and nuts.		
23 05 29 00-0780 EA 1/2" Pipe Size, Steel U-Bolt (B-Line B-3188) <i>For Work In Restricted Working Space, Add</i>	11.15 2.89	2.41
23 05 29 00-0781 EA 3/4" Pipe Size, Steel U-Bolt (B-Line B-3188) <i>For Work In Restricted Working Space, Add</i>	11.99 3.05	2.90
23 05 29 00-0782 EA 1" Pipe Size, Steel U-Bolt (B-Line B-3188) <i>For Work In Restricted Working Space, Add</i>	12.82 3.21	2.90
23 05 29 00-0783 EA 1-1/4" Pipe Size, Steel U-Bolt (B-Line B-3188) <i>For Work In Restricted Working Space, Add</i>	14.23 3.40	2.90
23 05 29 00-0784 EA 1-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188) <i>For Work In Restricted Working Space, Add</i>	14.84 3.62	3.37
23 05 29 00-0785 EA 2" Pipe Size, Steel U-Bolt (B-Line B-3188) <i>For Work In Restricted Working Space, Add</i>	15.87 3.86	3.37
23 05 29 00-0786 EA 2-1/2" Pipe Size, Steel U-Bolt (B-Line B-3188) <i>For Work In Restricted Working Space, Add</i>	21.00 4.13	3.37
23 05 29 00-0787 EA 3" Pipe Size, Steel U-Bolt (B-Line B-3188) <i>For Work In Restricted Working Space, Add</i>	23.00 4.45	3.85
23 05 29 00-0788 EA 4" Pipe Size, Steel U-Bolt (B-Line B-3188) <i>For Work In Restricted Working Space, Add</i>	27.07 4.82	4.33
23 05 29 00-0789 Copper Standoff Brackets With Flange (23 05 29 00-0758) Note: Installed in wood, concrete, concrete block or steel.		
23 05 29 00-0790 EA Clamp Size 1/2", Copper Standoff Brackets With Flange <i>For Work In Restricted Working Space, Add</i>	29.64 8.27	13.78
23 05 29 00-0791 EA Clamp Size 3/4", Copper Standoff Brackets With Flange <i>For Work In Restricted Working Space, Add</i>	29.77 8.27	13.78
23 05 29 00-0792 EA Clamp Size 1", Copper Standoff Brackets With Flange <i>For Work In Restricted Working Space, Add</i>	29.90 8.27	13.78
23 05 29 00-0793 EA Clamp Size 1 1/4", Copper Standoff Brackets With Flange <i>For Work In Restricted Working Space, Add</i>	31.82 8.77	14.66
23 05 29 00-0794 EA Clamp Size 1 1/2", Copper Standoff Brackets With Flange <i>For Work In Restricted Working Space, Add</i>	32.08 8.77	14.66
23 05 29 00-0795 Malleable Iron Eye Sockets (B-Line B-3222) (23 05 29 00-0758) Note: Type 16.		
23 05 29 00-0796 EA 3/8" Rod Size, Malleable Iron Eye Socket <i>For Work In Restricted Working Space, Add</i>	6.74 0.88	1.45

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0797 EA 1/2" Rod Size, Malleable Iron Eye Socket.....	8.65	1.93
<i>For Work In Restricted Working Space, Add</i>	1.16	
23 05 29 00-0798 EA 5/8" Rod Size, Malleable Iron Eye Socket.....	13.75	1.93
<i>For Work In Restricted Working Space, Add</i>	1.17	
23 05 29 00-0799 EA 3/4" Rod Size, Malleable Iron Eye Socket.....	18.71	1.93
<i>For Work In Restricted Working Space, Add</i>	1.16	
23 05 29 00-0800 EA 7/8" Rod Size, Malleable Iron Eye Socket.....	20.47	2.41
<i>For Work In Restricted Working Space, Add</i>	1.45	
23 05 29 00-0801 Steel Weldless Eye Nuts (B-Line B-3200) (23 05 29 00-0758)		
Note: Type 17.		
23 05 29 00-0802 EA 3/8" Rod Size, Steel Weldless Eye Nut.....	19.26	1.45
<i>For Work In Restricted Working Space, Add</i>	0.88	
23 05 29 00-0803 EA 1/2" Rod Size, Steel Weldless Eye Nut.....	20.19	1.93
<i>For Work In Restricted Working Space, Add</i>	1.16	
23 05 29 00-0804 EA 5/8" Rod Size, Steel Weldless Eye Nut.....	20.23	1.93
<i>For Work In Restricted Working Space, Add</i>	1.17	
23 05 29 00-0805 EA 3/4" Rod Size, Steel Weldless Eye Nut.....	20.19	1.93
<i>For Work In Restricted Working Space, Add</i>	1.16	
23 05 29 00-0806 EA 7/8" Rod Size, Steel Weldless Eye Nut.....	38.06	2.12
<i>For Work In Restricted Working Space, Add</i>	1.30	
23 05 29 00-0807 EA 1" Rod Size, Steel Weldless Eye Nut.....	38.54	2.41
<i>For Work In Restricted Working Space, Add</i>	1.45	
23 05 29 00-0808 Top Mount I-Beam Clamps (B-Line B-3042) (23 05 29 00-0758)		
Note: For attaching threaded rod to either side of an I-beam.		
23 05 29 00-0809 EA 3/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	15.92	4.49
<i>For Work In Restricted Working Space, Add</i>	2.69	
23 05 29 00-0810 EA 1/2" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	18.79	4.94
<i>For Work In Restricted Working Space, Add</i>	2.97	
23 05 29 00-0811 EA 5/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	22.31	5.39
<i>For Work In Restricted Working Space, Add</i>	3.27	
23 05 29 00-0812 EA 3/4" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	29.22	5.83
<i>For Work In Restricted Working Space, Add</i>	3.44	
23 05 29 00-0813 EA 7/8" Rod Size, Up To 6" Flange Width, Top Mount I-Beam Clamp.....	43.17	6.74
<i>For Work In Restricted Working Space, Add</i>	4.04	
23 05 29 00-0814 EA 3/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp.....	16.56	4.49
<i>For Work In Restricted Working Space, Add</i>	2.69	
23 05 29 00-0815 EA 1/2" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp.....	19.70	4.94
<i>For Work In Restricted Working Space, Add</i>	2.97	
23 05 29 00-0816 EA 5/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp.....	22.31	5.39
<i>For Work In Restricted Working Space, Add</i>	3.27	
23 05 29 00-0817 EA 3/4" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp.....	31.62	5.83
<i>For Work In Restricted Working Space, Add</i>	3.44	
23 05 29 00-0818 EA 7/8" Rod Size, >6" To 8" Flange Width, Top Mount I-Beam Clamp.....	47.26	6.74
<i>For Work In Restricted Working Space, Add</i>	4.04	
23 05 29 00-0819 EA 3/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp.....	18.06	4.49
<i>For Work In Restricted Working Space, Add</i>	2.69	
23 05 29 00-0820 EA 1/2" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp.....	21.38	4.94
<i>For Work In Restricted Working Space, Add</i>	2.97	
23 05 29 00-0821 EA 5/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp.....	26.26	5.39
<i>For Work In Restricted Working Space, Add</i>	3.27	
23 05 29 00-0822 EA 3/4" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp.....	36.09	5.83
<i>For Work In Restricted Working Space, Add</i>	3.44	
23 05 29 00-0823 EA 7/8" Rod Size, >8" To 12" Flange Width, Top Mount I-Beam Clamp.....	56.02	6.74
<i>For Work In Restricted Working Space, Add</i>	4.04	
23 05 29 00-0824 Side Beam Brackets (B-Line B-3062) (23 05 29 00-0758)		
Note: Type 34.		
23 05 29 00-0825 EA 3/8" Rod Size, Side Beam Bracket.....	14.84	6.27
<i>For Work In Restricted Working Space, Add</i>	3.62	
23 05 29 00-0826 EA 1/2" Rod Size, Side Beam Bracket.....	17.01	6.27
<i>For Work In Restricted Working Space, Add</i>	3.86	
23 05 29 00-0827 EA 5/8" Rod Size, Side Beam Bracket.....	20.84	6.75
<i>For Work In Restricted Working Space, Add</i>	4.13	
23 05 29 00-0828 EA 3/4" Rod Size, Side Beam Bracket.....	33.12	7.23
<i>For Work In Restricted Working Space, Add</i>	4.45	
23 05 29 00-0829 EA 7/8" Rod Size, Side Beam Bracket.....	38.25	8.20
<i>For Work In Restricted Working Space, Add</i>	4.82	
23 05 29 00-0830 Hex Lag Bolts (23 05 29 00-0758)		
Note: Also known as coach screws.		
23 05 29 00-0831 EA 3/8" x 3-1/2" Long, Hex Lag Bolt.....	2.65	
<i>For Work In Restricted Working Space, Add</i>	0.60	
23 05 29 00-0832 EA 3/8" x 4" Long, Hex Lag Bolt.....	2.78	
<i>For Work In Restricted Working Space, Add</i>	0.62	
23 05 29 00-0833 EA 3/8" x 6" Long, Hex Lag Bolt.....	3.16	
<i>For Work In Restricted Working Space, Add</i>	0.65	
23 05 29 00-0834 EA 3/8" x 8" Long, Hex Lag Bolt.....	3.89	
<i>For Work In Restricted Working Space, Add</i>	0.67	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0835 EA 3/8" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.15 0.69	
23 05 29 00-0836 EA 3/8" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.99 0.72	
23 05 29 00-0837 EA 1/2" x 3-1/2" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.65 0.72	
23 05 29 00-0838 EA 1/2" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	3.87 0.75	
23 05 29 00-0839 EA 1/2" x 6" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	4.55 0.78	
23 05 29 00-0840 EA 1/2" x 8" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.35 0.82	
23 05 29 00-0841 EA 1/2" x 10" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.38 0.86	
23 05 29 00-0842 EA 1/2" x 12" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	6.85 0.90	
23 05 29 00-0843 EA 5/8" x 4" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.08 0.80	
23 05 29 00-0844 EA 3/4" x 5" Long, Hex Lag Bolt <i>For Work In Restricted Working Space, Add</i>	5.98 0.82	
23 05 29 00-0845 Hanger Strap (23 05 29 00-0592)		
23 05 29 00-0846 LF 3/4" Wide x 0.025" Thick Galvanized Hanger Strap	4.60	
23 05 29 00-0847 Shields And Saddles (23 05 29)		
23 05 29 00-0848 Insulation Protection Shield (23 05 29 00-0847) Note: Type 40.		
23 05 29 00-0849 Insulation Protection Shield (Cooper B-Line B3151) (23 05 29 00-0848)		
23 05 29 00-0850 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	15.31 2.32	2.31
23 05 29 00-0851 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	15.54 2.34	2.34
23 05 29 00-0852 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	15.95 2.37	2.37
23 05 29 00-0853 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	16.77 2.40	2.40
23 05 29 00-0854 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	18.76 2.46	2.45
23 05 29 00-0855 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	23.37 2.52	2.52
23 05 29 00-0856 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	27.54 2.57	2.58
23 05 29 00-0857 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 18" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	34.17 2.63	2.64
23 05 29 00-0858 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	44.59 2.66	2.66
23 05 29 00-0859 EA 14" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	48.77 2.69	2.69
23 05 29 00-0860 EA 16" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	68.12 2.72	2.72
23 05 29 00-0861 EA 18" Outside Diameter, 14 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	76.84 2.75	2.75
23 05 29 00-0862 EA 20" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	144.87 2.78	2.78
23 05 29 00-0863 EA 24" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	157.66 2.84	2.84
23 05 29 00-0864 EA 30" Outside Diameter, 12 Gauge Insulation Protection Shield, 24" Length (Cooper B-Line B3151)..... <i>For Work In Restricted Working Space, Add</i>	191.08 2.89	2.90
23 05 29 00-0865 Insulation Protection Shield (Cooper B-Line B3154) (23 05 29 00-0848)		
23 05 29 00-0866 EA 1-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154)..... <i>For Work In Restricted Working Space, Add</i>	13.23 2.32	2.31
23 05 29 00-0867 EA 2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154)..... <i>For Work In Restricted Working Space, Add</i>	13.41 2.34	2.34
23 05 29 00-0868 EA 2-1/2" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154)..... <i>For Work In Restricted Working Space, Add</i>	13.74 2.37	2.37
23 05 29 00-0869 EA 3" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154)..... <i>For Work In Restricted Working Space, Add</i>	14.36 2.40	2.40
23 05 29 00-0870 EA 4" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154)..... <i>For Work In Restricted Working Space, Add</i>	15.86 2.46	2.45
23 05 29 00-0871 EA 6" Outside Diameter, 18 Gauge Insulation Protection Shield, 8" Length (Cooper B-Line B3154)..... <i>For Work In Restricted Working Space, Add</i>	19.25 2.52	2.52
23 05 29 00-0872 EA 8" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154)..... <i>For Work In Restricted Working Space, Add</i>	20.82 2.57	2.58
23 05 29 00-0873 EA 10" Outside Diameter, 16 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154)..... <i>For Work In Restricted Working Space, Add</i>	27.19 2.63	2.64
23 05 29 00-0874 EA 12" Outside Diameter, 14 Gauge Insulation Protection Shield, 12" Length (Cooper B-Line B3154)..... <i>For Work In Restricted Working Space, Add</i>	33.13 2.66	2.66

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC**

23 05 29 Hangers And Supports For HVAC Piping And Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0875 Pipe Covering Protection Saddle <small>(23 05 29 00-0847)</small> Note: Sizes are pipe sizes.		
23 05 29 00-0876 Saddle, For 1" Insulation (Cooper B-Line B3160) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0877 EA 3/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	23.86	3.18
For Work In Restricted Working Space, Add	3.18	
23 05 29 00-0878 EA 1" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	23.95	3.21
For Work In Restricted Working Space, Add	3.21	
23 05 29 00-0879 EA 1-1/4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	24.04	3.24
For Work In Restricted Working Space, Add	3.23	
23 05 29 00-0880 EA 1-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	25.34	3.29
For Work In Restricted Working Space, Add	3.29	
23 05 29 00-0881 EA 2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	25.43	3.32
For Work In Restricted Working Space, Add	3.32	
23 05 29 00-0882 EA 2-1/2" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	26.33	3.37
For Work In Restricted Working Space, Add	3.37	
23 05 29 00-0883 EA 3" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	29.64	3.42
For Work In Restricted Working Space, Add	3.42	
23 05 29 00-0884 EA 4" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	33.69	3.47
For Work In Restricted Working Space, Add	3.48	
23 05 29 00-0885 EA 6" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	38.23	3.58
For Work In Restricted Working Space, Add	3.58	
23 05 29 00-0886 EA 8" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	47.26	3.72
For Work In Restricted Working Space, Add	3.72	
23 05 29 00-0887 EA 10" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	53.26	3.78
For Work In Restricted Working Space, Add	3.77	
23 05 29 00-0888 EA 12" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	63.82	3.78
For Work In Restricted Working Space, Add	3.85	
23 05 29 00-0889 EA 14" Pipe Saddle, For 1" Insulation (Cooper B-Line B3160).....	70.02	3.91
For Work In Restricted Working Space, Add	3.91	
23 05 29 00-0890 Saddle, For 1-1/2" Insulation (Cooper B-Line B3161) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0891 EA 3/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	27.39	3.18
For Work In Restricted Working Space, Add	3.18	
23 05 29 00-0892 EA 1" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	27.48	3.21
For Work In Restricted Working Space, Add	3.21	
23 05 29 00-0893 EA 1-1/4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	27.57	3.24
For Work In Restricted Working Space, Add	3.23	
23 05 29 00-0894 EA 1-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	28.64	3.29
For Work In Restricted Working Space, Add	3.29	
23 05 29 00-0895 EA 2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	31.18	3.32
For Work In Restricted Working Space, Add	3.32	
23 05 29 00-0896 EA 2-1/2" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	33.81	3.37
For Work In Restricted Working Space, Add	3.37	
23 05 29 00-0897 EA 3" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	34.38	3.42
For Work In Restricted Working Space, Add	3.42	
23 05 29 00-0898 EA 4" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	39.52	3.42
For Work In Restricted Working Space, Add	3.48	
23 05 29 00-0899 EA 6" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	44.83	3.58
For Work In Restricted Working Space, Add	3.58	
23 05 29 00-0900 EA 8" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	53.73	3.72
For Work In Restricted Working Space, Add	3.72	
23 05 29 00-0901 EA 10" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	60.91	3.78
For Work In Restricted Working Space, Add	3.77	
23 05 29 00-0902 EA 12" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	73.26	3.85
For Work In Restricted Working Space, Add	3.85	
23 05 29 00-0903 EA 14" Pipe Saddle, For 1-1/2" Insulation (Cooper B-Line B3161).....	80.61	3.91
For Work In Restricted Working Space, Add	3.91	
23 05 29 00-0904 Saddle, For 2" Insulation (Cooper B-Line B3162) <small>(23 05 29 00-0875)</small>		
23 05 29 00-0905 EA 3/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	29.39	3.34
For Work In Restricted Working Space, Add	3.34	
23 05 29 00-0906 EA 1" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	29.48	3.37
For Work In Restricted Working Space, Add	3.37	
23 05 29 00-0907 EA 1-1/4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	31.22	3.39
For Work In Restricted Working Space, Add	3.40	
23 05 29 00-0908 EA 1-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	32.23	3.45
For Work In Restricted Working Space, Add	3.45	
23 05 29 00-0909 EA 2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	33.14	3.47
For Work In Restricted Working Space, Add	3.48	
23 05 29 00-0910 EA 2-1/2" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	33.32	3.54
For Work In Restricted Working Space, Add	3.53	
23 05 29 00-0911 EA 3" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	35.39	3.59
For Work In Restricted Working Space, Add	3.58	
23 05 29 00-0912 EA 4" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	37.48	3.65
For Work In Restricted Working Space, Add	3.64	
23 05 29 00-0913 EA 6" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	48.85	3.77
For Work In Restricted Working Space, Add	3.77	
23 05 29 00-0914 EA 8" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	55.83	3.91
For Work In Restricted Working Space, Add	3.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0915 EA 10" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	58.80	3.96
For Work In Restricted Working Space, Add	3.96	
23 05 29 00-0916 EA 12" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	80.96	4.04
For Work In Restricted Working Space, Add	4.04	
23 05 29 00-0917 EA 14" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	90.12	4.10
For Work In Restricted Working Space, Add	4.10	
23 05 29 00-0918 EA 16" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	99.48	4.21
For Work In Restricted Working Space, Add	4.20	
23 05 29 00-0919 EA 18" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	108.83	4.31
For Work In Restricted Working Space, Add	4.31	
23 05 29 00-0920 EA 20" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	119.74	4.42
For Work In Restricted Working Space, Add	4.42	
23 05 29 00-0921 EA 24" Pipe Saddle, For 2" Insulation (Cooper B-Line B3162).....	137.79	4.53
For Work In Restricted Working Space, Add	4.53	
23 05 29 00-0922 Saddle, For 2-1/2" Insulation (Cooper B-Line B3163) (23 05 29 00-0875)		
23 05 29 00-0923 EA 1-1/4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	33.26	3.47
For Work In Restricted Working Space, Add	3.48	
23 05 29 00-0924 EA 1-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	35.29	3.53
For Work In Restricted Working Space, Add	3.53	
23 05 29 00-0925 EA 2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	36.30	3.56
For Work In Restricted Working Space, Add	3.56	
23 05 29 00-0926 EA 2-1/2" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	37.42	3.62
For Work In Restricted Working Space, Add	3.61	
23 05 29 00-0927 EA 3" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	37.69	3.69
For Work In Restricted Working Space, Add	3.69	
23 05 29 00-0928 EA 4" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	44.50	3.74
For Work In Restricted Working Space, Add	3.74	
23 05 29 00-0929 EA 6" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	51.51	3.85
For Work In Restricted Working Space, Add	3.85	
23 05 29 00-0930 EA 8" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	60.66	4.00
For Work In Restricted Working Space, Add	3.99	
23 05 29 00-0931 EA 10" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	65.28	4.06
For Work In Restricted Working Space, Add	4.07	
23 05 29 00-0932 EA 12" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	83.06	4.14
For Work In Restricted Working Space, Add	4.15	
23 05 29 00-0933 EA 14" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	99.56	4.21
For Work In Restricted Working Space, Add	4.20	
23 05 29 00-0934 EA 16" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	116.24	4.31
For Work In Restricted Working Space, Add	4.31	
23 05 29 00-0935 EA 18" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	123.70	4.41
For Work In Restricted Working Space, Add	4.42	
23 05 29 00-0936 EA 20" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	132.01	4.53
For Work In Restricted Working Space, Add	4.53	
23 05 29 00-0937 EA 24" Pipe Saddle, For 2-1/2" Insulation (Cooper B-Line B3163).....	140.33	4.63
For Work In Restricted Working Space, Add	4.64	
23 05 29 00-0938 Saddle, For 3" Insulation (Cooper B-Line B3164) (23 05 29 00-0875)		
23 05 29 00-0939 EA 2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	37.61	3.65
For Work In Restricted Working Space, Add	3.64	
23 05 29 00-0940 EA 2-1/2" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	41.38	3.71
For Work In Restricted Working Space, Add	3.72	
23 05 29 00-0941 EA 3" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	43.32	3.77
For Work In Restricted Working Space, Add	3.77	
23 05 29 00-0942 EA 4" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	45.25	3.83
For Work In Restricted Working Space, Add	3.83	
23 05 29 00-0943 EA 6" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	52.63	3.94
For Work In Restricted Working Space, Add	3.94	
23 05 29 00-0944 EA 8" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	67.20	4.08
For Work In Restricted Working Space, Add	4.10	
23 05 29 00-0945 EA 10" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	73.24	4.15
For Work In Restricted Working Space, Add	4.15	
23 05 29 00-0946 EA 12" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	96.99	4.24
For Work In Restricted Working Space, Add	4.23	
23 05 29 00-0947 EA 14" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	116.88	4.31
For Work In Restricted Working Space, Add	4.31	
23 05 29 00-0948 EA 16" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	136.77	4.40
For Work In Restricted Working Space, Add	4.39	
23 05 29 00-0949 EA 18" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	139.33	4.52
For Work In Restricted Working Space, Add	4.53	
23 05 29 00-0950 EA 20" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	141.80	4.62
For Work In Restricted Working Space, Add	4.64	
23 05 29 00-0951 EA 24" Pipe Saddle, For 3" Insulation (Cooper B-Line B3164).....	181.66	4.75
For Work In Restricted Working Space, Add	4.74	
23 05 29 00-0952 Saddle, For 4" Insulation (Cooper B-Line B3165) (23 05 29 00-0875)		
23 05 29 00-0953 EA 2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	42.97	3.73
For Work In Restricted Working Space, Add	3.72	
23 05 29 00-0954 EA 2-1/2" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165).....	47.46	3.79
For Work In Restricted Working Space, Add	3.80	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 29 Hangers And Supports For HVAC Piping And Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-0955 EA 3" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	49.73 3.85	3.85
23 05 29 00-0956 EA 4" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	52.12 3.91	3.91
23 05 29 00-0957 EA 6" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	64.69 4.04	4.03
23 05 29 00-0958 EA 8" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	77.26 4.18	4.19
23 05 29 00-0959 EA 10" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	79.96 4.26	4.25
23 05 29 00-0960 EA 12" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	103.87 4.34	4.34
23 05 29 00-0961 EA 14" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	127.41 4.39	4.39
23 05 29 00-0962 EA 16" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	151.12 4.50	4.51
23 05 29 00-0963 EA 18" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	186.18 4.61	4.61
23 05 29 00-0964 EA 20" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	221.02 4.74	4.73
23 05 29 00-0965 EA 24" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	236.78 4.85	4.85
23 05 29 00-0966 EA 30" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	249.37 4.99	4.98
23 05 29 00-0967 EA 36" Pipe Saddle, For 4" Insulation (Cooper B-Line B3165)..... <i>For Work In Restricted Working Space, Add</i>	258.67 5.09	5.10
23 05 29 00-0968 Adjustable Pipe Saddle Support (Cooper B-Line B3096) <small>(23 05 29 00-0847)</small>		
23 05 29 00-0969 EA 2" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	98.63	12.05
23 05 29 00-0970 EA 3" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	103.82	13.98
23 05 29 00-0971 EA 4" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	126.64	15.91
23 05 29 00-0972 EA 5" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	131.63	17.35
23 05 29 00-0973 EA 6" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	146.03	19.29
23 05 29 00-0974 EA 8" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	164.48	24.11
23 05 29 00-0975 EA 10" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	214.66	32.29
23 05 29 00-0976 EA 12" Adjustable Pipe Saddle Support (Cooper B-Line B3096).....	259.25	48.21
23 05 29 00-0977 Pipe Stanchion Support (Cooper B-Line B3090) <small>(23 05 29 00-0847)</small>		
23 05 29 00-0978 EA 2-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	124.10	12.05
23 05 29 00-0979 EA 3" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	127.54	13.98
23 05 29 00-0980 EA 3-1/2" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	136.53	14.94
23 05 29 00-0981 EA 4" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	138.77	15.91
23 05 29 00-0982 EA 5" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	145.58	17.35
23 05 29 00-0983 EA 6" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	153.71	19.29
23 05 29 00-0984 EA 8" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	195.47	24.11
23 05 29 00-0985 EA 10" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	263.97	32.29
23 05 29 00-0986 EA 12" Pipe Stanchion Support With U-Bolt (Cooper B-Line B3090).....	340.88	48.21
23 05 29 00-0987 Pipe Saddle Support (Cooper B-Line B3095) <small>(23 05 29 00-0847)</small>		
23 05 29 00-0988 EA 2-1/2" Pipe Saddle Support (Cooper B-Line B3095).....	59.55	12.05
23 05 29 00-0989 EA 3" Pipe Saddle Support (Cooper B-Line B3095).....	62.99	13.98
23 05 29 00-0990 EA 3-1/2" Pipe Saddle Support (Cooper B-Line B3095).....	99.10	14.94
23 05 29 00-0991 EA 4" Pipe Saddle Support (Cooper B-Line B3095).....	101.34	15.91
23 05 29 00-0992 EA 5" Pipe Saddle Support (Cooper B-Line B3095).....	111.64	17.35
23 05 29 00-0993 EA 6" Pipe Saddle Support (Cooper B-Line B3095).....	123.72	19.29
23 05 29 00-0994 EA 8" Pipe Saddle Support (Cooper B-Line B3095).....	140.51	24.11
23 05 29 00-0995 EA 10" Pipe Saddle Support (Cooper B-Line B3095).....	161.07	32.29
23 05 29 00-0996 EA 12" Pipe Saddle Support (Cooper B-Line B3095).....	198.06	48.21
23 05 29 00-0997 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0847)</small>		
Note: Insert is for use as isolated protective insulation at hangers.		
23 05 29 00-0998 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate <small>(23 05 29 00-0997)</small>		
23 05 29 00-0999 EA 1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	12.85	5.33
23 05 29 00-1000 EA 3/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	13.20	5.33
23 05 29 00-1001 EA 1" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	13.29	5.33
23 05 29 00-1002 EA 1-1/4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	13.63	5.33
23 05 29 00-1003 EA 1-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	14.57	5.65
23 05 29 00-1004 EA 2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	15.28	5.82
23 05 29 00-1005 EA 2-1/2" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	16.11	6.06
23 05 29 00-1006 EA 3" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	17.05	6.31
23 05 29 00-1007 EA 4" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	18.85	6.55
23 05 29 00-1008 EA 6" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	21.49	6.55
23 05 29 00-1009 EA 8" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	34.51	7.37
23 05 29 00-1010 EA 10" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	40.85	8.68
23 05 29 00-1011 EA 12" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate.....	46.37	10.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1012 EA 14" Diameter Pipe, 1" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	53.19	10.40
23 05 29 00-1013 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1014 EA 1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	11.59	4.02
23 05 29 00-1015 EA 3/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	13.29	4.02
23 05 29 00-1016 EA 1" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	13.63	4.10
23 05 29 00-1017 EA 1-1/4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	14.18	4.18
23 05 29 00-1018 EA 1-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	14.70	4.18
23 05 29 00-1019 EA 2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	15.58	4.34
23 05 29 00-1020 EA 2-1/2" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	16.55	4.51
23 05 29 00-1021 EA 3" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.02	4.59
23 05 29 00-1022 EA 4" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.87	4.99
23 05 29 00-1023 EA 6" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.76	8.60
23 05 29 00-1024 EA 8" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.76	6.47
23 05 29 00-1025 EA 10" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	31.39	7.62
23 05 29 00-1026 EA 12" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	35.50	8.77
23 05 29 00-1027 EA 14" Diameter Pipe, 1-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	41.72	10.57
23 05 29 00-1028 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1029 EA 1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.21	4.59
23 05 29 00-1030 EA 3/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	17.49	4.59
23 05 29 00-1031 EA 1" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.19	4.67
23 05 29 00-1032 EA 1-1/4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	18.81	4.75
23 05 29 00-1033 EA 1-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.44	4.83
23 05 29 00-1034 EA 2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.20	4.99
23 05 29 00-1035 EA 2-1/2" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.38	5.16
23 05 29 00-1036 EA 3" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.48	5.33
23 05 29 00-1037 EA 4" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.01	5.65
23 05 29 00-1038 EA 6" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.66	6.39
23 05 29 00-1039 EA 8" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	43.44	10.89
23 05 29 00-1040 EA 10" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	46.80	12.61
23 05 29 00-1041 EA 12" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	53.60	14.91
23 05 29 00-1042 EA 14" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	60.08	16.71
23 05 29 00-1043 EA 16" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	66.92	18.84
23 05 29 00-1044 EA 18" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	76.11	22.12
23 05 29 00-1045 EA 20" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	84.48	24.57
23 05 29 00-1046 EA 24" Diameter Pipe, 2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	95.35	27.86
23 05 29 00-1047 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1048 EA 1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.68	5.33
23 05 29 00-1049 EA 3/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.99	5.33
23 05 29 00-1050 EA 1" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	20.83	5.41
23 05 29 00-1051 EA 1-1/4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	21.47	5.49
23 05 29 00-1052 EA 1-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	22.14	5.49
23 05 29 00-1053 EA 2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.07	5.74
23 05 29 00-1054 EA 2-1/2" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	24.41	5.90
23 05 29 00-1055 EA 3" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.63	6.14
23 05 29 00-1056 EA 4" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.49	6.47
23 05 29 00-1057 EA 6" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.70	7.37
23 05 29 00-1058 EA 8" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	44.39	8.19
23 05 29 00-1059 EA 10" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	53.18	9.42
23 05 29 00-1060 EA 12" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	59.99	11.72
23 05 29 00-1061 EA 14" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	68.04	12.86
23 05 29 00-1062 EA 16" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	79.48	16.38
23 05 29 00-1063 EA 18" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	85.66	17.21
23 05 29 00-1064 EA 20" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	97.16	19.66
23 05 29 00-1065 EA 24" Diameter Pipe, 2-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	114.00	23.76
23 05 29 00-1066 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)		
23 05 29 00-1067 EA 1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.25	5.49
23 05 29 00-1068 EA 3/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	35.91	5.74
23 05 29 00-1069 EA 1" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	37.26	5.74
23 05 29 00-1070 EA 1-1/4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	38.15	5.90
23 05 29 00-1071 EA 1-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	39.18	6.06
23 05 29 00-1072 EA 2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	40.35	6.14
23 05 29 00-1073 EA 2-1/2" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	42.44	6.31
23 05 29 00-1074 EA 3" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	44.29	6.71
23 05 29 00-1075 EA 4" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	48.74	6.97
23 05 29 00-1076 EA 6" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	55.75	8.52
23 05 29 00-1077 EA 8" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	71.62	9.34
23 05 29 00-1078 EA 10" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	85.11	9.83

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 29 Hangers And Supports For HVAC Piping And Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 29 00-1079	EA	12" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	97.93	12.69
23 05 29 00-1080	EA	14" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	110.14	13.52
23 05 29 00-1081	EA	16" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	132.36	18.02
23 05 29 00-1082	EA	18" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	142.45	19.66
23 05 29 00-1083	EA	20" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	161.28	21.30
23 05 29 00-1084	EA	24" Diameter Pipe, 3" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	189.53	26.22

23 05 29 00-1085 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)

23 05 29 00-1086	EA	1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	19.68	5.33
23 05 29 00-1087	EA	3/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	23.74	6.47
23 05 29 00-1088	EA	1" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.03	6.47
23 05 29 00-1089	EA	1-1/4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	25.76	6.55
23 05 29 00-1090	EA	1-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.64	6.63
23 05 29 00-1091	EA	2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	27.64	6.88
23 05 29 00-1092	EA	2-1/2" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	29.27	7.13
23 05 29 00-1093	EA	3" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	30.63	7.37
23 05 29 00-1094	EA	4" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	34.21	7.78
23 05 29 00-1095	EA	6" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	39.23	8.85
23 05 29 00-1096	EA	8" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	53.24	9.83
23 05 29 00-1097	EA	10" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	63.80	11.31
23 05 29 00-1098	EA	12" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	71.97	14.09
23 05 29 00-1099	EA	14" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	81.66	15.40
23 05 29 00-1100	EA	16" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	95.40	19.66
23 05 29 00-1101	EA	18" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	102.80	20.64
23 05 29 00-1102	EA	20" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	116.64	23.59
23 05 29 00-1103	EA	24" Diameter Pipe, 3-1/2" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	136.80	28.51

23 05 29 00-1104 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate (23 05 29 00-0997)

23 05 29 00-1105	EA	1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.53	7.21
23 05 29 00-1106	EA	3/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	26.96	7.21
23 05 29 00-1107	EA	1" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	28.10	7.29
23 05 29 00-1108	EA	1-1/4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	29.05	7.37
23 05 29 00-1109	EA	1-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	29.82	7.37
23 05 29 00-1110	EA	2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	31.41	7.86
23 05 29 00-1111	EA	2-1/2" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	32.91	7.94
23 05 29 00-1112	EA	3" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	34.61	8.28
23 05 29 00-1113	EA	4" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	38.47	8.77
23 05 29 00-1114	EA	6" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	44.11	9.92
23 05 29 00-1115	EA	8" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	59.28	10.73
23 05 29 00-1116	EA	10" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	71.78	12.78
23 05 29 00-1117	EA	12" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	80.98	15.90
23 05 29 00-1118	EA	14" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	91.88	17.29
23 05 29 00-1119	EA	16" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	107.37	22.12
23 05 29 00-1120	EA	18" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	115.60	23.19
23 05 29 00-1121	EA	20" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	129.41	26.54
23 05 29 00-1122	EA	24" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	153.93	32.12
23 05 29 00-1123	EA	26" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	174.34	37.76
23 05 29 00-1124	EA	28" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	196.79	44.56
23 05 29 00-1125	EA	30" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	220.44	52.67
23 05 29 00-1126	EA	42" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	309.23	81.34
23 05 29 00-1127	EA	44" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	331.15	89.54
23 05 29 00-1128	EA	46" Diameter Pipe, 4" Thick 360 Degree Thermal Hanger Shield, Pre-Insulated With Calcium Silicate	351.55	96.66

23 05 29 00-1129 Equipment Housekeeping Pads (23 05 29)
See CSI section 03 31 13 00-0091 for Concrete Equipment Pads.**23 05 29 00-1130 Molded Plastic Condenser Pad** (23 05 29 00-1129)

23 05 29 00-1131	EA	30" Round Molded Plastic Pad	68.63	12.05
23 05 29 00-1132	EA	30" Octagon Molded Plastic Pad	71.56	12.05
23 05 29 00-1133	EA	30" x 30" Molded Plastic Pad	68.63	12.05
23 05 29 00-1134	EA	36" x 36" Molded Plastic Pad	86.18	12.05
23 05 29 00-1135	EA	36" x 48" Molded Plastic Pad	119.01	12.05

23 05 29 00-1136 Inertia Base (23 05 29 00-1129)

Note: Includes spring isolators.

23 05 29 00-1137	EA	Up To 12 SF Inertia Base, 8" Thick With Spring Base	1,097.92	
23 05 29 00-1138	EA	>12 To 16 SF Inertia Base, 8" Thick With Spring Base	1,324.42	
23 05 29 00-1139	EA	>16 To 20 SF Inertia Base, 8" Thick With Spring Base	1,516.87	
23 05 29 00-1140	EA	>20 To 24 SF Inertia Base, 8" Thick With Spring Base	1,732.03	

23 05 29 00-1141 Hanger Assemblies (23 05 29)

Note: Includes hanger, rod, nuts, washers, clamps, upper attachment, etc. Not for use where detail is available.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 29 00-1142 EA 1/2" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	42.28 9.65	14.99
23 05 29 00-1143 EA 3/4" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	44.05 10.18	15.88
23 05 29 00-1144 EA 1" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	45.48 10.58	16.80
23 05 29 00-1145 EA 1-1/4" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	46.34 10.74	16.82
23 05 29 00-1146 EA 1-1/2" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	46.62 10.74	16.82
23 05 29 00-1147 EA 2" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	47.73 10.90	16.96
23 05 29 00-1148 EA 2-1/2" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	55.39 10.99	17.97
23 05 29 00-1149 EA 3" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	57.42 11.16	18.49
23 05 29 00-1150 EA 4" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	69.78 12.32	20.88
23 05 29 00-1151 EA 6" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	103.92 16.18	26.98
23 05 29 00-1152 EA 8" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	122.16 18.77	31.30
23 05 29 00-1153 EA 10" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	167.54 23.56	39.76
23 05 29 00-1154 EA 12" Standard Duty Clevis Pipe Hanger Assembly..... Note: Includes hanger, rod, nuts, washers and clamp. <i>For Work In Restricted Working Space, Add</i>	185.95 25.71	42.78
23 05 29 00-1155 Steel Shapes For Hanger Devices (23 05 29)		
23 05 29 00-1156 Angle Iron For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1157 LF 1/2" x 1/2" x 1/8" Angle Iron For Hanger Devices.....	2.31	1.40
23 05 29 00-1158 LF 3/4" x 3/4" x 1/8" Angle Iron For Hanger Devices.....	3.04	1.75
23 05 29 00-1159 LF 1" x 1" x 1/8" Angle Iron For Hanger Devices.....	3.74	2.09
23 05 29 00-1160 LF 1-1/4" x 1-1/4" x 3/16" Angle Iron For Hanger Devices.....	5.23	2.61
23 05 29 00-1161 LF 1-1/2" x 1-1/2" x 3/16" Angle Iron For Hanger Devices.....	5.85	2.80
23 05 29 00-1162 LF 2" x 2" x 1/4" Angle Iron For Hanger Devices.....	7.97	3.14
23 05 29 00-1163 LF 2-1/2" x 2-1/2" x 1/4" Angle Iron For Hanger Devices.....	9.93	3.82
23 05 29 00-1164 LF 3" x 2" x 3/8" Angle Iron For Hanger Devices.....	12.95	4.49
23 05 29 00-1165 LF 3" x 3" x 3/8" Angle Iron For Hanger Devices.....	15.50	5.24
23 05 29 00-1166 Channels For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1167 LF C2 X 1.78 - 2" Wide (Channels) For Hanger Devices.....	6.77	3.52
23 05 29 00-1168 LF C3 X 4.1 - 3" Wide (Channels) For Hanger Devices.....	11.60	5.06
23 05 29 00-1169 LF C4 X 5.4 - 4" Wide (Channels) For Hanger Devices.....	14.49	6.07
23 05 29 00-1170 LF C5 X 6.7 - 5" Wide (Channels) For Hanger Devices.....	17.38	7.08
23 05 29 00-1171 LF C6 X 8.2 - 6" Wide (Channels) For Hanger Devices.....	21.04	8.50
23 05 29 00-1172 LF C7 X 9.8 - 7" Wide (Channels) For Hanger Devices.....	25.09	10.12
23 05 29 00-1173 LF C8 X 11.5 - 8" Wide (Channels) For Hanger Devices.....	28.46	11.14
23 05 29 00-1174 Structural Bar Tees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1175 LF 3/4" x 3/4" x 1/8" Structural Bar Tee For Hanger Devices.....	7.51	4.95
23 05 29 00-1176 LF 1" x 1" x 1/8" Structural Bar Tee For Hanger Devices.....	9.03	5.85
23 05 29 00-1177 LF 1-1/2" x 1-1/2" x 1/4" Structural Bar Tee For Hanger Devices.....	12.96	6.75
23 05 29 00-1178 LF 2" x 2" x 1/4" Structural Bar Tee For Hanger Devices.....	16.69	9.00
23 05 29 00-1179 LF 2-1/2" x 2-1/2" x 3/8" Structural Bar Tee For Hanger Devices.....	22.90	10.80
23 05 29 00-1180 LF 3" x 3" x 3/8" Structural Bar Tee For Hanger Devices.....	28.71	13.95
23 05 29 00-1181 Structural Zees For Hanger Devices (23 05 29 00-1155)		
23 05 29 00-1182 LF 1-1/4" x 1-3/4" x 1-3/4" Structural Zee For Hanger Devices.....	12.97	6.75
23 05 29 00-1183 LF 2-11/16" x 3" x 2-11/16" Structural Zee For Hanger Devices.....	15.63	6.75
23 05 29 00-1184 LF 3-1/16" x 4" x 3-1/16" Structural Zee For Hanger Devices.....	22.89	6.75
23 05 29 00-1185 LF 3-1/4" x 5" x 3-1/4" Structural Zee For Hanger Devices.....	28.96	6.75
23 05 29 00-1186 LF 3-1/2" x 6" x 3-1/2" Structural Zee For Hanger Devices.....	35.33	6.75

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC**

23 05 29 Hangers And Supports For HVAC Piping And Equipment

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 29 00-1187 Junior I-beams For Hanger Devices (23 05 29 00-1155)			
23 05 29 00-1188	LF	3" I-beam (Junior) For Hanger Devices.....	16.12 9.90
23 05 29 00-1189	LF	4" I-beam (Junior) For Hanger Devices.....	18.54 10.80
23 05 29 00-1190	LF	5" I-beam (Junior) For Hanger Devices.....	21.42 11.70
23 05 29 00-1191	LF	6" I-beam (Junior) For Hanger Devices.....	23.43 13.04
23 05 29 00-1192	LF	7" I-beam (Junior) For Hanger Devices.....	27.87 13.95
23 05 29 00-1193	LF	8" I-beam (Junior) For Hanger Devices.....	30.18 14.85

23 05 48 Vibration and Seismic Controls for HVAC (23 05)

23 05 48 13 Vibration Controls for HVAC (23 05 48)

23 05 48 13-0001 Unhoused Stable Steel Spring Isolators (23 05 48 13)			
Note: Includes leveling adjustment, cast top, base plate and pad. For use with floor mounted equipment only.			
23 05 48 13-0002	EA	60 LB Unhoused Steel Spring Isolator.....	88.59 26.98
23 05 48 13-0003	EA	115 LB Unhoused Steel Spring Isolator.....	94.20 26.98
23 05 48 13-0004	EA	1,130 LB Unhoused Steel Spring Isolator.....	112.82 26.98

23 05 48 13-0005 Housed Stable Steel Spring Isolators (23 05 48 13)			
Note: Includes leveling adjustment, top plate, base plate and pad. For use with floor mounted equipment only. Mason Industries, Inc.			
23 05 48 13-0006	EA	To 770 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection.....	393.31 26.98
23 05 48 13-0007	EA	To 1,040 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection.....	445.58 26.98
23 05 48 13-0008	EA	To 1,600 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection.....	471.72 26.98
23 05 48 13-0009	EA	To 2,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection.....	576.26 26.98
23 05 48 13-0010	EA	To 3,250 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 1" Deflection.....	602.40 26.98
23 05 48 13-0011	EA	To 730 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	439.05 26.98
23 05 48 13-0012	EA	To 930 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	484.78 26.98
23 05 48 13-0013	EA	To 1,440 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	517.45 26.98
23 05 48 13-0014	EA	To 1,860 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	667.74 26.98
23 05 48 13-0015	EA	To 2,880 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	726.54 26.98
23 05 48 13-0016	EA	To 3,720 LB Housed Hot Dipped Galvanized Steel Spring Isolator, 2" Deflection.....	863.76 26.98

23 05 48 13-0017 Vibration Isolators (23 05 48 13)			
23 05 48 13-0018 Spring And Rubber Hanger For 1" Deflection (23 05 48 13-0017)			
23 05 48 13-0019	EA	50-500 LB Rated Spring And Rubber Hanger For Vibration Isolation With 3/4" Max Rod Size.....	117.08 17.35
23 05 48 13-0020	EA	600-1,000 LB Rated Spring And Rubber Hanger For Vibration Isolation With 7/8" Max Rod Size.....	246.26 19.29

23 05 48 13-0021 Rubber-In-Shear Isolator Hanger (23 05 48 13-0017)			
23 05 48 13-0022	EA	45-340 LB Rubber In Shear Hanger 0.38" Deflection With <1/2" Rod Size.....	65.07 14.47
23 05 48 13-0023	EA	130-700 LB Rubber In Shear Hanger 0.43" Deflection With <3/4" Rod Size.....	84.35 17.35

23 05 48 13-0024 Spring Hanger For 1" Deflection (23 05 48 13-0017)			
23 05 48 13-0025	EA	50 To 1,000 LB Rubber In Shear Hanger For 1" Deflection With <3/4" Rod Size.....	73.81 17.35

23 05 48 13-0026 Rubber-In-Shear Vibration Isolator (23 05 48 13-0017)			
23 05 48 13-0027	EA	45 To 340 LB Rubber In Shear Vibration Isolation With 0.38" Deflection.....	135.83 32.78
23 05 48 13-0028	EA	130 To 700 LB Rubber In Shear Vibration Isolation With 0.43" Deflection.....	185.49 32.78
23 05 48 13-0029	EA	550 To 1,920 LB Rubber In Shear Vibration Isolation With 0.48" Deflection.....	355.95 32.78

23 05 48 13-0030 Two-Piece Spring Type Vibration Isolator (23 05 48 13-0017)			
Note: For equipment support aluminum construction 1/2" adjusting and leveling bolt 1" deflection.			
23 05 48 13-0031	EA	50 To 1,000 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator.....	114.89 32.78
23 05 48 13-0032	EA	>1,000 To 1,600 LB Rated Load 2-Piece Isolator Spring Type Vibration Isolator.....	118.60 32.78

23 05 48 13-0033 Open Double Spring Type Vibration Isolator (23 05 48 13-0017)			
Note: For equipment support 1" deflection neoprene pad and 5/8" stud bolt.			
23 05 48 13-0034	EA	150 To 450 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	89.41 16.39
23 05 48 13-0035	EA	500 To 1,000 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	89.41 16.39
23 05 48 13-0036	EA	1,100 To 1,600 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	101.75 16.39
23 05 48 13-0037	EA	1,700 To 2,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	101.75 16.39
23 05 48 13-0038	EA	2,500 To 3,400 LB Rated Load Open Isolator, Double Spring Type Vibration Isolator.....	157.55 16.39

23 05 48 13-0039 Isolation Pads (23 05 48 13-0017)			
23 05 48 13-0040 Laminated Neoprene And Cork Isolation Pad (23 05 48 13-0039)			

23 05 48 13-0041	EA	2" x 2", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	6.02 2.41
23 05 48 13-0042	EA	3" x 3", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	7.91 2.51
23 05 48 13-0043	EA	4" x 4", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	10.07 2.61
23 05 48 13-0044	EA	12" x 12", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	42.34 2.99



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0045 EA 18" x 18", 1" Thick Laminated Neoprene And Cork Isolation Pad.....	81.83	3.37
23 05 48 13-0046 Neoprene And Steel Plate Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0047 EA 6" x 4", 5/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad.....	53.25	2.41
23 05 48 13-0048 EA 6" x 4", 7/8" Thick Steel Plate And Ribbed Neoprene Isolation Pad.....	58.59	2.41
23 05 48 13-0049 Neoprene Isolation Pad (23 05 48 13-0039)		
23 05 48 13-0050 EA 2" x 2", 3/8" Thick Ribbed Neoprene Isolation Pad.....	5.56	2.41
23 05 48 13-0051 EA 3" x 3", 3/8" Thick Ribbed Neoprene Isolation Pad.....	6.42	2.41
23 05 48 13-0052 EA 4" x 4", 3/8" Thick Ribbed Neoprene Isolation Pad.....	7.80	2.41
23 05 48 13-0053 EA 12" x 12", 3/8" Thick Ribbed Neoprene Isolation Pad.....	41.63	2.90
23 05 48 13-0054 EA 18" x 18", 3/8" Thick Ribbed Neoprene Isolation Pad.....	76.83	3.37
23 05 48 13-0055 Miscellaneous Piping Isolators (23 05 48 13-0017)		
23 05 48 13-0056 EA Vibration Isolator, 2" Deflector..... Note: M.M. Sausse Model # RMXA.	575.47	28.92
23 05 48 13-0057 Threaded Flexible Bronze Hose Connectors (23 05 48 13)		
Note: Includes hex threaded nipple ends.		
23 05 48 13-0058 EA 3/8" Diameter x 9" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	62.97	15.42
23 05 48 13-0059 EA 1/2" Diameter x 10" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	73.79	21.21
23 05 48 13-0060 EA 3/4" Diameter x 11" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	90.59	26.04
23 05 48 13-0061 EA 1" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	105.42	30.86
23 05 48 13-0062 EA 1-1/4" Diameter x 12" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	120.86	40.49
23 05 48 13-0063 EA 1-1/2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	136.12	43.10
23 05 48 13-0064 EA 2" Diameter x 14" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	182.26	51.10
23 05 48 13-0065 EA 2-1/2" Diameter x 16" Flexible Hose Connection, For Vibration Isolation, Bronze Hose With Hex Threaded Nipple Ends.....	251.56	79.64
23 05 48 13-0066 Weld End Flexible Hose Connectors (23 05 48 13)		
23 05 48 13-0067 EA 1/2" Diameter x 10" Flexible Hose Connection, Weld Ends.....	256.70	55.34
23 05 48 13-0068 EA 3/4" Diameter x 10" Flexible Hose Connection, Weld Ends.....	301.76	60.75
23 05 48 13-0069 EA 1" Diameter x 10" Flexible Hose Connection, Weld Ends.....	342.66	64.31
23 05 48 13-0070 EA 1-1/4" Diameter x 11" Flexible Hose Connection, Weld Ends.....	382.41	73.27
23 05 48 13-0071 EA 1-1/2" Diameter x 12" Flexible Hose Connection, Weld Ends.....	435.92	79.06
23 05 48 13-0072 EA 2" Diameter x 14" Flexible Hose Connection, Weld Ends.....	545.35	102.88
23 05 48 13-0073 EA 2-1/2" Diameter x 16" Flexible Hose Connection, Weld Ends.....	839.75	115.70
23 05 48 13-0074 EA 3" Diameter x 16" Flexible Hose Connection, Weld Ends.....	1,044.48	130.16
23 05 48 13-0075 EA 4" Diameter x 18" Flexible Hose Connection, Weld Ends.....	1,437.42	192.83
23 05 48 13-0076 Flanged Flexible Hose Connectors (23 05 48 13)		
23 05 48 13-0077 Flanged Flexible Molded Rubber Hose Connectors (23 05 48 13-0076)		
Note: With helical wire reinforcement 150 PSI.		
23 05 48 13-0078 EA 1-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI.....	191.04	72.32
23 05 48 13-0079 EA 2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI.....	206.71	80.31
23 05 48 13-0080 EA 2-1/2" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI.....	336.26	160.44
23 05 48 13-0081 EA 3" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI.....	465.70	238.63
23 05 48 13-0082 EA 4" Diameter x 12" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI.....	606.78	308.05
23 05 48 13-0083 EA 6" Diameter x 18" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI.....	772.68	321.29
23 05 48 13-0084 EA 8" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI.....	939.24	366.96
23 05 48 13-0085 EA 10" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI.....	1,216.30	436.70
23 05 48 13-0086 EA 12" Diameter x 24" Molded Rubber Connectors With Helical Wire Reinforcement 150 PSI.....	2,947.83	546.19
23 05 48 13-0087 Flanged Flexible Corrugated Stainless Steel Hose Connectors (23 05 48 13-0076)		
Note: With braided metal wire.		
23 05 48 13-0088 EA 1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	148.74	65.76
23 05 48 13-0089 EA 1" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	144.43	90.43
23 05 48 13-0090 EA 1-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	277.56	120.52
23 05 48 13-0091 EA 2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	360.20	180.78
23 05 48 13-0092 EA 2-1/2" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	387.38	198.91
23 05 48 13-0093 EA 3" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	450.14	240.84
23 05 48 13-0094 EA 4" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	576.34	308.34
23 05 48 13-0095 EA 4" Diameter x 30" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	1,045.26	425.38
23 05 48 13-0096 EA 4" Diameter x 36" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	1,196.17	498.66

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 48 Vibration and Seismic Controls for HVAC**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 05 48 13-0097	EA	6" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	796.31	384.78
23 05 48 13-0098	EA	6" Diameter x 36" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	1,510.54	481.93
23 05 48 13-0099	EA	8" Diameter x 12" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	1,301.20	514.06
23 05 48 13-0100	EA	10" Diameter x 13" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	1,531.44	594.44
23 05 48 13-0101	EA	12" Diameter x 14" Metal Wire Braid Connector, Over Corrugated Stainless Steel, 150 PSI For Vibration Isolation.....	1,970.29	642.59

23 05 48 13-0102 Flanged Flexible Molded Teflon Hose Connectors (23 05 48 13-0076)

Note: 150 PSI.

23 05 48 13-0103	EA	2-1/2" Diameter x 3-3/16" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	832.94	139.80
23 05 48 13-0104	EA	3" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	934.21	163.91
23 05 48 13-0105	EA	4" Diameter x 3-5/8" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,415.78	275.47
23 05 48 13-0106	EA	6" Diameter x 4" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	1,721.51	321.29
23 05 48 13-0107	EA	8" Diameter x 6" Molded Teflon Connectors With Stainless Steel Flanges, 150 PSI, For Vibration Isolation	2,263.01	394.12

23 05 48 13-0108 Flexible Hose Connectors Braided Metal Hose Type (23 05 48 13)**23 05 48 13-0109 Braided Metal Hose Type Flexible Bronze Hose Connectors** (23 05 48 13-0108)

Note: MPT connection.

23 05 48 13-0110	EA	1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	32.96	1.93
23 05 48 13-0111	EA	1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	39.40	1.93
23 05 48 13-0112	EA	1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	43.83	2.50
23 05 48 13-0113	EA	1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	53.32	2.50
23 05 48 13-0114	EA	3/4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	44.12	2.31
23 05 48 13-0115	EA	3/4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	53.32	2.31
23 05 48 13-0116	EA	3/4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	61.00	2.99
23 05 48 13-0117	EA	3/4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	75.31	2.99
23 05 48 13-0118	EA	1" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	60.21	2.70
23 05 48 13-0119	EA	1" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	65.85	2.70
23 05 48 13-0120	EA	1" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	78.25	3.57
23 05 48 13-0121	EA	1" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	99.19	3.57
23 05 48 13-0122	EA	1" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	119.96	3.57
23 05 48 13-0123	EA	1" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	140.81	3.57
23 05 48 13-0124	EA	1-1/4" Or 1-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	85.78	3.46
23 05 48 13-0125	EA	1-1/4" Or 1-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	94.57	3.46
23 05 48 13-0126	EA	1-1/4" Or 1-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	121.35	3.46
23 05 48 13-0127	EA	1-1/4" Or 1-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	168.73	4.62
23 05 48 13-0128	EA	1-1/4" Or 1-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	195.72	4.62
23 05 48 13-0129	EA	1-1/4" Or 1-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	231.63	4.62
23 05 48 13-0130	EA	2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	117.45	4.18
23 05 48 13-0131	EA	2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	135.82	4.18
23 05 48 13-0132	EA	2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	171.39	4.18
23 05 48 13-0133	EA	2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	228.58	5.59
23 05 48 13-0134	EA	2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	282.79	5.59
23 05 48 13-0135	EA	2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	336.95	5.59
23 05 48 13-0136	EA	2-1/2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	163.10	5.23
23 05 48 13-0137	EA	2-1/2" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	185.72	4.97
23 05 48 13-0138	EA	2-1/2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	208.57	4.97
23 05 48 13-0139	EA	2-1/2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	257.19	6.66
23 05 48 13-0140	EA	2-1/2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	303.14	6.66
23 05 48 13-0141	EA	2-1/2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	347.65	6.66
23 05 48 13-0142	EA	3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	257.21	6.66
23 05 48 13-0143	EA	3" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	287.73	6.66
23 05 48 13-0144	EA	3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	407.92	6.66
23 05 48 13-0145	EA	3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	492.05	8.87
23 05 48 13-0146	EA	3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	445.62	8.87
23 05 48 13-0147	EA	3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	505.68	8.87
23 05 48 13-0148	EA	4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	470.63	7.71
23 05 48 13-0149	EA	4" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	506.29	7.71
23 05 48 13-0150	EA	4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	541.96	7.71
23 05 48 13-0151	EA	4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	619.56	10.28
23 05 48 13-0152	EA	4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	690.61	10.28
23 05 48 13-0153	EA	4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, MPT Connection	763.19	10.28

23 05 48 13-0154 Braided Stainless Steel Flexible Hose Connectors (23 05 48 13-0108)

Note: Over braided carbon steel connection.

23 05 48 13-0155	EA	2" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	139.93	4.23
23 05 48 13-0156	EA	2" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	169.11	4.23
23 05 48 13-0157	EA	2" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	197.74	4.23
23 05 48 13-0158	EA	2" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	258.81	5.66
23 05 48 13-0159	EA	2" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	316.85	5.66
23 05 48 13-0160	EA	2" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded.....	374.81	5.66



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 48 13-0161 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	158.64	4.97
23 05 48 13-0162 EA 2-1/2" Or 3" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	189.14	4.97
23 05 48 13-0163 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	219.77	4.97
23 05 48 13-0164 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	284.70	6.66
23 05 48 13-0165 EA 2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	345.72	6.66
23 05 48 13-0166 EA 2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	405.89	6.66
23 05 48 13-0167 EA 4" Diameter x 12" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	168.29	6.66
23 05 48 13-0168 EA 4" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	203.23	6.83
23 05 48 13-0169 LF 4" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	238.66	6.66
23 05 48 13-0170 EA 4" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	316.08	8.87
23 05 48 13-0171 EA 4" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	386.56	8.87
23 05 48 13-0172 EA 4" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	459.04	8.87
23 05 48 13-0173 EA 6" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	339.31	12.93
23 05 48 13-0174 EA 6" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	500.87	13.02
23 05 48 13-0175 EA 6" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	671.73	17.16
23 05 48 13-0176 EA 6" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	833.35	17.16
23 05 48 13-0177 EA 6" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	994.94	17.16
23 05 48 13-0178 EA 8" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	588.22	15.55
23 05 48 13-0179 EA 8" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	710.45	15.55
23 05 48 13-0180 EA 8" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	963.24	20.22
23 05 48 13-0181 EA 8" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,205.73	20.22
23 05 48 13-0182 EA 8" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,448.15	20.22
23 05 48 13-0183 EA 10" Diameter x 18" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	629.97	19.44
23 05 48 13-0184 EA 10" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	935.57	19.44
23 05 48 13-0185 EA 10" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,253.15	25.32
23 05 48 13-0186 EA 10" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,559.81	25.32
23 05 48 13-0187 EA 10" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,865.18	25.32
23 05 48 13-0188 EA 12" Diameter x 24" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,250.62	23.50
23 05 48 13-0189 EA 12" Diameter x 36" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	1,632.00	23.50
23 05 48 13-0190 EA 12" Diameter x 48" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,041.60	31.62
23 05 48 13-0191 EA 12" Diameter x 60" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,426.33	31.62
23 05 48 13-0192 EA 12" Diameter x 72" Long, Flexible Hose Connectors, Braided Stainless Steel Over Braided Carbon Steel Connection, Welded	2,812.85	31.62
23 05 48 13-0193 Braided Metal Hose Type Flexible Bronze Hose Connectors <small>(23 05 48 13-0108)</small>		
<small>Note: Flanged end connection (carbon steel ends).</small>		
23 05 48 13-0194 EA 2" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	182.82	4.18
23 05 48 13-0195 EA 2" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	396.39	118.31
23 05 48 13-0196 EA 2" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	471.49	118.31
23 05 48 13-0197 EA 2" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	546.60	118.31
23 05 48 13-0198 EA 2" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	621.73	118.31
23 05 48 13-0199 EA 2-1/2" Or 3" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	385.48	150.89
23 05 48 13-0200 EA 2-1/2" Or 3" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	464.62	150.89
23 05 48 13-0201 EA 2-1/2" Or 3" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	543.80	150.89

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC****23 05 48 Vibration and Seismic Controls for HVAC**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT
UNIT COST DEMOLITION
UNIT COST

23 05 48 13-0202	EA	2-1/2" Or 3" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	623.00	150.89
23 05 48 13-0203	EA	2-1/2" Or 3" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	700.82	150.89
23 05 48 13-0204	EA	4" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	559.23	252.95
23 05 48 13-0205	EA	4" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	651.61	253.58
23 05 48 13-0206	EA	4" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	745.49	252.95
23 05 48 13-0207	EA	4" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	850.45	252.95
23 05 48 13-0208	EA	4" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	930.66	252.95
23 05 48 13-0209	EA	6" Diameter x 12" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	831.31	323.38
23 05 48 13-0210	EA	6" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,040.62	323.38
23 05 48 13-0211	EA	6" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,250.05	324.53
23 05 48 13-0212	EA	6" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,459.39	323.38
23 05 48 13-0213	EA	6" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,668.70	323.38
23 05 48 13-0214	EA	8" Diameter x 18" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,302.13	397.44
23 05 48 13-0215	EA	8" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,460.48	397.44
23 05 48 13-0216	EA	8" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	1,774.43	397.44
23 05 48 13-0217	EA	8" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,088.50	397.44
23 05 48 13-0218	EA	8" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,402.43	397.44
23 05 48 13-0219	EA	10" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,045.61	483.84
23 05 48 13-0220	EA	10" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,440.12	483.84
23 05 48 13-0221	EA	10" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,837.28	483.84
23 05 48 13-0222	EA	10" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,233.60	483.84
23 05 48 13-0223	EA	10" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,553.89	483.84
23 05 48 13-0224	EA	12" Diameter x 24" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	2,740.11	587.52
23 05 48 13-0225	EA	12" Diameter x 36" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,240.74	587.52
23 05 48 13-0226	EA	12" Diameter x 48" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	3,741.33	587.52
23 05 48 13-0227	EA	12" Diameter x 60" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,241.93	587.52
23 05 48 13-0228	EA	12" Diameter x 72" Long, Flexible Hose Connectors, Braided Metal Hose, Bronze, Flanged End Connection (Carbon Steel Ends)	4,742.56	587.52

23 05 53 Identification For HVAC Piping And Equipment (23 05)**23 05 53 00-0001 Systems Identification (23 05 53)****23 05 53 00-0002 Pipe Marker Snap-On Type Plastic (23 05 53 00-0001)**

Note: Outside diameters include insulation where necessary.

23 05 53 00-0003	EA	1/2" Outside Diameter Snap-On Plastic Marker	11.78
23 05 53 00-0004	EA	3/4" Outside Diameter Snap-On Plastic Marker	12.02
23 05 53 00-0005	EA	1" Outside Diameter Snap-On Plastic Marker	12.15
23 05 53 00-0006	EA	1-1/4" Outside Diameter Snap-On Plastic Marker	12.35
23 05 53 00-0007	EA	1-1/2" Outside Diameter Snap-On Plastic Marker	13.72
23 05 53 00-0008	EA	2" Outside Diameter Snap-On Plastic Marker	14.16
23 05 53 00-0009	EA	2-1/2" Outside Diameter Snap-On Plastic Marker	19.95
23 05 53 00-0010	EA	3" Outside Diameter Snap-On Plastic Marker	20.29
23 05 53 00-0011	EA	3-1/2" Outside Diameter Snap-On Plastic Marker	20.66
23 05 53 00-0012	EA	4" Outside Diameter Snap-On Plastic Marker	20.87
23 05 53 00-0013	EA	4-1/2" Outside Diameter Snap-On Plastic Marker	21.08
23 05 53 00-0014	EA	5" Outside Diameter Snap-On Plastic Marker	21.29
23 05 53 00-0015	EA	6" Outside Diameter Snap-On Plastic Marker	22.16
23 05 53 00-0016	EA	7" Outside Diameter Snap-On Plastic Marker	22.39
23 05 53 00-0017	EA	8" Outside Diameter Snap-On Plastic Marker	26.38
23 05 53 00-0018	EA	10" Outside Diameter Snap-On Plastic Marker	27.67
23 05 53 00-0019	EA	12" Outside Diameter Snap-On Plastic Marker	32.18
23 05 53 00-0020	EA	14" Outside Diameter Snap-On Plastic Marker	36.80

23 05 53 00-0021 Pipe Markers Pressure-Sensitive (23 05 53 00-0001)

Note: Stick on include arrow tape. Outside diameter includes insulation where necessary.



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST	
23 05 53 00-0022	EA			1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	10.45		
23 05 53 00-0023	EA			3/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	10.93		
23 05 53 00-0024	EA			1" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	11.90		
23 05 53 00-0025	EA			1-1/4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	12.10		
23 05 53 00-0026	EA			1-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	12.82		
23 05 53 00-0027	EA			2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	13.11		
23 05 53 00-0028	EA			2-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	14.55		
23 05 53 00-0029	EA			3" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	14.93		
23 05 53 00-0030	EA			3-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	15.22		
23 05 53 00-0031	EA			4" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	15.52		
23 05 53 00-0032	EA			4-1/2" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	16.12		
23 05 53 00-0033	EA			5" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	16.76		
23 05 53 00-0034	EA			6" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	17.34		
23 05 53 00-0035	EA			7" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	17.90		
23 05 53 00-0036	EA			8" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	19.52		
23 05 53 00-0037	EA			10" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	20.58		
23 05 53 00-0038	EA			12" Outside Diameter Press-Sensitive Marker Stick-on With Arrow Tape Over Insulation	23.90		
23 05 53 00-0039	Valve Identification Tag <small>(23 05 53 00-0001)</small>						
	Note: Includes beaded chain and/or "S" hook.						
23 05 53 00-0040	EA			2" Diameter Identification Tag, Brass	9.28		
23 05 53 00-0041	EA			1-1/2" Diameter Identification Tag, Plastic	8.85		
23 05 53 00-0042	EA			1-1/2" Diameter Identification Tag, Brass.....	8.71		
23 05 66	Anti-Microbial Ultraviolet Emitters For HVAC Ducts And Equipment <small>(23 05)</small>						
23 05 66 00-0001	Double Ended Ultraviolet HVAC Microbial Control Fixtures <small>(23 05 66)</small>						
23 05 66 00-0002	EA			18" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-181-VO)	484.99	52.73	
	Note: Includes tube.						
23 05 66 00-0003	EA			24" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-241-VO)	506.41	55.35	
	Note: Includes tube.						
23 05 66 00-0004	EA			30" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-301-VO)	508.80	57.72	
	Note: Includes tube.						
23 05 66 00-0005	EA			36" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-361-VO)	532.54	60.64	
	Note: Includes tube.						
23 05 66 00-0006	EA			42" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-421-VO)	575.37	63.26	
	Note: Includes tube.						
23 05 66 00-0007	EA			62" Double Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire DE-621-VO)	657.95	65.23	
	Note: Includes tube.						
23 05 66 00-0008	Single Ended Ultraviolet HVAC Microbial Control Fixtures <small>(23 05 66)</small>						
23 05 66 00-0009	EA			12" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-121-VO)	421.46	36.53	
	Note: Includes tube.						
23 05 66 00-0010	EA			16" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-161-VO)	428.84	39.53	
	Note: Includes tube.						
23 05 66 00-0011	EA			20" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-201-VO)	436.42	41.91	
	Note: Includes tube.						
23 05 66 00-0012	EA			24" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-241-VO)	436.63	45.07	
	Note: Includes tube.						
23 05 66 00-0013	EA			30" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-301-VO)	454.31	47.44	
	Note: Includes tube.						
23 05 66 00-0014	EA			36" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-361-VO)	464.94	49.82	
	Note: Includes tube.						
23 05 66 00-0015	EA			42" Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SE-421-VO)	475.63	52.97	
	Note: Includes tube.						
23 05 66 00-0016	EA			12" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-121-VO)	493.68	36.53	
	Note: Includes tube.						
23 05 66 00-0017	EA			16" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-161-VO)	501.07	39.53	
	Note: Includes tube.						
23 05 66 00-0018	EA			20" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-201-VO)	508.64	41.91	
	Note: Includes tube.						
23 05 66 00-0019	EA			24" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-241-VO)	508.85	45.07	
	Note: Includes tube.						
23 05 66 00-0020	EA			30" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-301-VO)	526.53	47.44	
	Note: Includes tube.						
23 05 66 00-0021	EA			36" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-361-VO)	537.17	49.82	
	Note: Includes tube.						
23 05 66 00-0022	EA			42" NEMA 4X Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire SEN-421-VO)	547.85	52.97	
	Note: Includes tube.						
23 05 66 00-0023	EA			16" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-161-VO)	343.91	39.53	
	Note: Includes tube.						
23 05 66 00-0024	EA			20" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-201-VO)	351.49	41.91	
	Note: Includes tube.						
23 05 66 00-0025	EA			24" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-241-VO)	351.70	45.07	
	Note: Includes tube.						
23 05 66 00-0026	EA			30" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-301-VO)	369.38	47.44	
	Note: Includes tube.						

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 05 Common Work Results For HVAC

23 05 66 Anti-Microbial Ultraviolet Emitters For HVAC Ducts And Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 66 00-0027	EA		36" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-361-VO) Note: Includes tube.	380.01	49.82
23 05 66 00-0028	EA		42" Residential Type Single Ended Ultraviolet HVAC Microbial Control Fixture (Steril-Aire RSE-421-VO) Note: Includes tube.	390.70	52.97
23 05 66 00-0029			Fan Coil Unit Ultraviolet Microbial Control Fixtures (23 05 66)		
23 05 66 00-0030	EA		16" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	305.51	50.60
23 05 66 00-0031	EA		20" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	312.83	52.97
23 05 66 00-0032	EA		24" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	320.15	55.35
23 05 66 00-0033	EA		30" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	329.65	57.72
23 05 66 00-0034	EA		36" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	341.65	60.64
23 05 66 00-0035	EA		42" Fan Coil Unit Ultraviolet Microbial Control Fixture (Steril-Aire) Note: Includes tube.	352.35	63.26
23 05 66 00-0036			Ultraviolet HVAC Microbial Control Replacement Parts (23 05 66)		
23 05 66 00-0037	EA		18" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-16-VO) Note: Includes tube.	80.74	
23 05 66 00-0038	EA		24" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-22-VO) Note: Includes tube.	84.83	
23 05 66 00-0039	EA		30" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-28-VO) Note: Includes tube.	95.92	
23 05 66 00-0040	EA		36" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-34-VO) Note: Includes tube.	110.13	
23 05 66 00-0041	EA		42" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-40-VO) Note: Includes tube.	124.64	
23 05 66 00-0042	EA		62" Double Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTD-60-VO) Note: Includes tube.	152.58	
23 05 66 00-0043	EA		12" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-12-VO) Note: Includes tube.	78.36	
23 05 66 00-0044	EA		16" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-16-VO) Note: Includes tube.	82.58	
23 05 66 00-0045	EA		20" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-20-VO) Note: Includes tube.	86.99	
23 05 66 00-0046	EA		24" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-24-VO) Note: Includes tube.	84.04	
23 05 66 00-0047	EA		30" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-30-VO) Note: Includes tube.	98.56	
23 05 66 00-0048	EA		36" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-36-VO) Note: Includes tube.	106.03	
23 05 66 00-0049	EA		42" Single Ended Ultraviolet HVAC Microbial Control Tube Replacement (Steril-Aire GTS-42-VO) Note: Includes tube.	113.56	
23 05 66 00-0050	EA		Removal And Replacement Of Power Supply For Ultraviolet Microbial Control Fixture (Steril-Aire).....	231.73	
23 05 66 00-0051			Ultraviolet HVAC Microbial Control Mounting Accessories (23 05 66)		
23 05 66 00-0052	EA		Two Spring Clip, 61" Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006610) Note: Includes 61" emitter, power supply, wires and connectors.	412.21	
23 05 66 00-0053	EA		Two Spring Clip, 61" Sleeved Emitter Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 11006620) Note: Includes 61" emitter, power supply, wires and connectors.	525.35	
23 05 66 00-0054	EA		Two Spring Clip, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-1)..... Note: Includes power supply, wires and connectors. Excludes emitter.	241.84	
23 05 66 00-0055	EA		Two Short Hook Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-2)..... Note: Includes power supply, wires and connectors. Excludes emitter.	255.69	
23 05 66 00-0056	EA		Flat Plate For Metal, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-3)..... Note: Includes power supply, wires and connectors. Excludes emitter.	325.50	
23 05 66 00-0057	EA		Flat Plate For Plastic, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-4)..... Note: Includes power supply, wires and connectors. Excludes emitter.	203.88	
23 05 66 00-0058	EA		Insert Lamp Holder, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-5) Note: Includes power supply, wires and connectors. Excludes emitter.	220.92	
23 05 66 00-0059	EA		16" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-6)..... Note: Includes power supply, wires and connectors. Excludes emitter.	288.95	
23 05 66 00-0060	EA		12" U-Bracket, Air Handler Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 10000166-7)..... Note: Includes power supply, wires and connectors. Excludes emitter.	285.02	
23 05 66 00-0061	LF		30 x 30 mm Framing Structure For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000101).....	10.75	
23 05 66 00-0062	EA		Vertical Support Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000111)	36.41	
23 05 66 00-0063	EA		Joint Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000112)	12.65	
23 05 66 00-0064	EA		Emitter Mounting Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000113).....	11.97	
23 05 66 00-0065	EA		Foundation Bracket FB 8WA For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000104).....	33.60	
23 05 66 00-0066	EA		Slider Assembly Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000114)	39.42	
23 05 66 00-0067	EA		Splice Kit For Horizontal Rows For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000108).....	35.05	
23 05 66 00-0068	EA		Gusset Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000115)	28.50	
23 05 66 00-0069	EA		ISO "A" Bracket Hanger For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 15000109)	26.94	
23 05 66 00-0070	EA		DE Boot Kit UV Resistant For 1 DE Fixture For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000223).....	14.71	
23 05 66 00-0071	EA		DE Wiring Kit For Up To 65" (DE Bank Install) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000603).....	30.25	
23 05 66 00-0072	EA		Cleaning Kit For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000100).....	14.77	
23 05 66 00-0073	EA		480 To 220 Volt AC / 180 VA Step-Down Transformer For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000503).....	57.82	
23 05 66 00-0074	EA		Interlock Switch (16 Amps At 125 Volt, 10 Amperes At 250 Volt Maximum Ampacity) For Ultraviolet HVAC Microbial Control Tube (Steril-Aire 90000120).....	60.75	

23 05 93 Testing, Adjusting, And Balancing For HVAC (23 05)

Note: New systems include all necessary testing, startup, and checkout. Use these tasks for testing, startup, and checkout of existing systems or for third party testing and report when required.

23 05 93 00-0001 Heating And Ventilating Equipment (23 05 93)

23 05 93 00-0002	EA		Balancing Centrifugal Fans For Testing Of Unit Without Balancing, Deduct	366.24	-183.12
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MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0003 EA Balancing Heating And Ventilating Units.....	457.62	
For Testing Of Unit Without Balancing, Deduct	-228.81	
23 05 93 00-0004 EA Balancing In Line Fan	412.02	
For Testing Of Unit Without Balancing, Deduct	-206.01	
23 05 93 00-0005 EA Balancing Propeller And Wall Fan	91.56	
For Testing Of Unit Without Balancing, Deduct	-45.78	
23 05 93 00-0006 EA Balancing Roof Exhaust Fan.....	274.66	
For Testing Of Unit Without Balancing, Deduct	-137.33	
23 05 93 00-0007 EA Balancing Wall Fan	68.66	
For Testing Of Unit Without Balancing, Deduct	-34.33	
23 05 93 00-0008 EA Balancing Fan Section Exhaust.....	365.66	
For Testing Of Unit Without Balancing, Deduct	-182.83	
23 05 93 00-0009 Air Conditioning Equipment (23 05 93)		
23 05 93 00-0010 EA Balancing Constant Volume Air Handling Unit.....	710.37	
For Testing Of Unit Without Balancing, Deduct	-355.19	
23 05 93 00-0011 EA Balancing Package A/C Unit.....	266.39	
For Testing Of Unit Without Balancing, Deduct	-133.20	
23 05 93 00-0012 EA Balancing Rooftop Heat And Cool Unit.....	355.18	
For Testing Of Unit Without Balancing, Deduct	-177.59	
23 05 93 00-0013 EA Balancing Variable Volume Air Handling Unit.....	1,243.15	
For Testing Of Unit Without Balancing, Deduct	-621.58	
23 05 93 00-0014 Registers, Diffusers, Terminal Air Units And Dampers (23 05 93)		
23 05 93 00-0015 EA Balancing HVAC Duct System, Ceiling Height To 12' Supply, Return, Exhaust, Register And Diffuser.....	68.67	
For Testing Of Unit Without Balancing, Deduct	-34.34	
23 05 93 00-0016 EA Balancing HVAC Duct System, Ceiling Height >12' Supply, Return, Exhaust, Register And Diffuser.....	114.46	
For Testing Of Unit Without Balancing, Deduct	-57.23	
23 05 93 00-0017 EA Balancing HVAC Duct System, Floor Height Supply, Return, Exhaust, Register And Diffuser	59.52	
For Testing Of Unit Without Balancing, Deduct	-29.76	
23 05 93 00-0018 EA Balance Variable Air Volume Box	64.48	
For Testing Of Unit Without Balancing, Deduct	-32.24	
23 05 93 00-0019 EA Balance Constant Volume Box	64.48	
For Testing Of Unit Without Balancing, Deduct	-32.24	
23 05 93 00-0020 EA Balance Fan Powered Box.....	73.25	
For Testing Of Unit Without Balancing, Deduct	-36.63	
23 05 93 00-0021 EA Balance Lab Fume Hood	297.58	
For Testing Of Unit Without Balancing, Deduct	-148.79	
23 05 93 00-0022 EA Balance General Hood.....	228.90	
For Testing Of Unit Without Balancing, Deduct	-114.45	
23 05 93 00-0023 EA Balance Induction Unit	137.34	
For Testing Of Unit Without Balancing, Deduct	-68.67	
23 05 93 00-0024 EA Balance Moduline - Master	54.92	
For Testing Of Unit Without Balancing, Deduct	-27.46	
23 05 93 00-0025 EA Balance Moduline - Slave	27.46	
For Testing Of Unit Without Balancing, Deduct	-13.73	
23 05 93 00-0026 EA Balance Dampers	25.50	
For Testing Of Unit Without Balancing, Deduct	-12.75	
23 05 93 00-0027 EA Balance Regenerators	365.66	
For Testing Of Unit Without Balancing, Deduct	-182.83	
23 05 93 00-0028 Water Balancing Of Components (23 05 93)		
23 05 93 00-0029 EA Water Balance, Air Cool Condenser	488.42	
For Testing Of Unit Without Balancing, Deduct	-244.21	
23 05 93 00-0030 EA Water Balance, Cabinet Heater	62.16	
For Testing Of Unit Without Balancing, Deduct	-31.08	
23 05 93 00-0031 EA Water Balance, Chiller, Air Cooled.....	532.73	
For Testing Of Unit Without Balancing, Deduct	-266.37	
23 05 93 00-0032 EA Water Balance, Chiller, Water Cooled	710.37	
For Testing Of Unit Without Balancing, Deduct	-355.19	
23 05 93 00-0033 EA Water Balance, Cooling Tower	355.18	
For Testing Of Unit Without Balancing, Deduct	-177.59	
23 05 93 00-0034 EA Water Balance, Fan Coil And Vent	88.85	
For Testing Of Unit Without Balancing, Deduct	-44.43	
23 05 93 00-0035 EA Water Balance, Fin Tube And Radiant Panel.....	88.80	
For Testing Of Unit Without Balancing, Deduct	-44.40	
23 05 93 00-0036 EA Water Balance, Main And Duct Re-Heat Coil.....	97.68	
For Testing Of Unit Without Balancing, Deduct	-48.84	
23 05 93 00-0037 EA Water Balance, Pumps	266.40	
For Testing Of Unit Without Balancing, Deduct	-133.20	
23 05 93 00-0038 EA Water Balance, Unit Heater	62.16	
For Testing Of Unit Without Balancing, Deduct	-31.08	
23 05 93 00-0039 EA Water Balancing, Converter.....	266.49	
For Testing Of Unit Without Balancing, Deduct	-133.25	
23 05 93 00-0040 EA Water Balancing, Cocks And Valves.....	44.39	
For Testing Of Unit Without Balancing, Deduct	-22.20	
23 05 93 00-0041 EA Water Balance, Convactor	53.28	
For Testing Of Unit Without Balancing, Deduct	-26.64	
23 05 93 00-0042 EA Water Balancing, Backflow Preventer Or Reduced Pressure Zone Valves.....	66.60	
For Testing Of Unit Without Balancing, Deduct	-33.30	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 05 Common Work Results For HVAC**

23 05 93 Testing, Adjusting, And Balancing For HVAC

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0043 EA Water Balance, Boiler, Up To 500 MBH.....	577.17	
For Testing Of Unit Without Balancing, Deduct	-288.59	
23 05 93 00-0044 EA >500 To 1,000 MBH, Water Balance, Boiler	1,065.56	
For Testing Of Unit Without Balancing, Deduct	-532.78	
23 05 93 00-0045 EA >1,000 MBH, Water Balance, Boiler	1,953.53	
For Testing Of Unit Without Balancing, Deduct	-976.77	
23 05 93 00-0046 Non Destructive Testing (23 05 93)		
23 05 93 00-0047 X-Ray Welds, Non-Destructive Testing (23 05 93 00-0046)		
23 05 93 00-0048 X-Ray Welds Minimum Set-Up Charge (23 05 93 00-0047)		
23 05 93 00-0049 EA X-Ray Welds Minimum Set-Up Charge.....	713.07	
Note: For projects where the total charges are less than the minimum set-up charge, use this task exclusively. This task should not be used in conjunction with any other tasks in this section.		
23 05 93 00-0050 Piping, X-Ray Welds, Non Destructive Testing (23 05 93 00-0047)		
23 05 93 00-0051 EA Up To 3/4" Piping, X-Ray Welds, Non Destructive Testing	72.50	
23 05 93 00-0052 EA 1" Piping, X-Ray Welds, Non Destructive Testing	82.55	
23 05 93 00-0053 EA 1-1/4" - 1-1/2" Piping, X-Ray Welds, Non Destructive Testing	92.61	
23 05 93 00-0054 EA 2" Piping, X-Ray Welds, Non Destructive Testing	97.85	
23 05 93 00-0055 EA 3" Piping, X-Ray Welds, Non Destructive Testing	103.09	
23 05 93 00-0056 EA 4" Piping, X-Ray Welds, Non Destructive Testing	108.75	
23 05 93 00-0057 EA 6" Piping, X-Ray Welds, Non Destructive Testing	119.22	
23 05 93 00-0058 EA 8" Piping, X-Ray Welds, Non Destructive Testing	129.70	
23 05 93 00-0059 EA 10" Piping, X-Ray Welds, Non Destructive Testing	135.34	
23 05 93 00-0060 EA 12" Piping, X-Ray Welds, Non Destructive Testing	141.01	
23 05 93 00-0061 Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0046)		
23 05 93 00-0062 Piping, Liquid Penetration Of Welds, Non Destructive Testing (23 05 93 00-0061)		
23 05 93 00-0063 EA Up To 3/4" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	82.86	
23 05 93 00-0064 EA 1" Piping, Liquid Penetration Of Welds, Non Destructive Testing	87.68	
23 05 93 00-0065 EA 1-1/4" - 1-1/2" Piping, Liquid Penetration Of Welds, Non Destructive Testing.....	92.50	
23 05 93 00-0066 EA 2" Piping, Liquid Penetration Of Welds, Non Destructive Testing	94.91	
23 05 93 00-0067 EA 3" Piping, Liquid Penetration Of Welds, Non Destructive Testing	98.52	
23 05 93 00-0068 EA 4" Piping, Liquid Penetration Of Welds, Non Destructive Testing	102.14	
23 05 93 00-0069 EA 6" Piping, Liquid Penetration Of Welds, Non Destructive Testing	109.37	
23 05 93 00-0070 EA 8" Piping, Liquid Penetration Of Welds, Non Destructive Testing	116.60	
23 05 93 00-0071 EA 10" Piping, Liquid Penetration Of Welds, Non Destructive Testing	123.84	
23 05 93 00-0072 EA 12" Piping, Liquid Penetration Of Welds, Non Destructive Testing	131.06	
23 05 93 00-0073 Hydrostatic Testing (23 05 93 00-0046)		
Note: Includes flushing and restoring of system.		
23 05 93 00-0074 Piping, Hydrostatic Testing (23 05 93 00-0073)		
23 05 93 00-0075 EA Up To 100', Up To 1-1/2" Piping, Hydrostatic Testing	634.31	
23 05 93 00-0076 EA >100' To 250', Up To 1-1/2" Piping, Hydrostatic Testing	906.16	
23 05 93 00-0077 EA >250' To 500', Up To 1-1/2" Piping, Hydrostatic Testing	1,085.76	
23 05 93 00-0078 EA >500' To 1,000', Up To 1-1/2" Piping, Hydrostatic Testing	1,446.23	
23 05 93 00-0079 EA >1,000' To 2,000', Up To 1-1/2" Piping, Hydrostatic Testing	2,191.25	
23 05 93 00-0080 EA Up To 100', >1-1/2" To 4" Piping, Hydrostatic Testing	843.38	
23 05 93 00-0081 EA >100' To 250', >1-1/2" To 4" Piping, Hydrostatic Testing	1,205.19	
23 05 93 00-0082 EA >250' To 500', >1-1/2" To 4" Piping, Hydrostatic Testing	1,434.75	
23 05 93 00-0083 EA >500' To 1,000', >1-1/2" To 4" Piping, Hydrostatic Testing	1,880.08	
23 05 93 00-0084 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Hydrostatic Testing	2,844.23	
23 05 93 00-0085 EA Up To 100', >4" To 10" Piping, Hydrostatic Testing	1,099.13	
23 05 93 00-0086 EA >100' To 250', >4" To 10" Piping, Hydrostatic Testing	1,566.75	
23 05 93 00-0087 EA >250' To 500', >4" To 10" Piping, Hydrostatic Testing	1,657.87	
23 05 93 00-0088 EA >500' To 1,000', >4" To 10" Piping, Hydrostatic Testing	2,171.94	
23 05 93 00-0089 EA >1,000' To 2,000', >4" To 10" Piping, Hydrostatic Testing	3,285.74	
23 05 93 00-0090 EA Up To 100', >10" To 14" Piping, Hydrostatic Testing	1,426.95	
23 05 93 00-0091 EA >100' To 250', >10" To 14" Piping, Hydrostatic Testing	2,034.34	
23 05 93 00-0092 EA >250' To 500', >10" To 14" Piping, Hydrostatic Testing	2,155.65	
23 05 93 00-0093 EA >500' To 1,000', >10" To 14" Piping, Hydrostatic Testing	2,827.36	
23 05 93 00-0094 EA >1,000' To 2,000', >10" To 14" Piping, Hydrostatic Testing	4,283.90	
23 05 93 00-0095 Pneumatic Testing (23 05 93 00-0046)		
Note: Includes soaping joints flushing and restoring of system. Can be used for gas or smoke test.		
23 05 93 00-0096 Piping, Pneumatic Testing (23 05 93 00-0095)		
23 05 93 00-0097 EA Up To 100', Up To 1-1/2" Piping, Pneumatic Testing	721.33	
Note: Includes soaping joints.		
23 05 93 00-0098 EA >100' To 250', Up To 1-1/2" Piping, Pneumatic Testing	1,029.26	
Note: Includes soaping joints.		
23 05 93 00-0099 EA >250' To 500', Up To 1-1/2" Piping, Pneumatic Testing	1,111.85	
Note: Includes soaping joints.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 05 93 00-0100 EA >500' To 1,000', Up To 1-1/2" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,424.10	
23 05 93 00-0101 EA >1,000' To 2,000', Up To 1-1/2" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,227.52	
23 05 93 00-0102 EA Up To 100', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	941.23	
23 05 93 00-0103 EA >100' To 250', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,336.52	
23 05 93 00-0104 EA >250' To 500', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,445.31	
23 05 93 00-0105 EA >500' To 1,000', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,851.71	
23 05 93 00-0106 EA >1,000' To 2,000', >1-1/2" To 4" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,895.36	
23 05 93 00-0107 EA Up To 100', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,133.57	
23 05 93 00-0108 EA >100' To 250', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,599.75	
23 05 93 00-0109 EA >250' To 500', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,814.93	
23 05 93 00-0110 EA >500' To 1,000', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,318.97	
23 05 93 00-0111 EA >1,000' To 2,000', >4" To 10" Piping, Pneumatic Testing..... Note: Includes soaping joints.	3,631.26	
23 05 93 00-0112 EA Up To 100', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	1,476.01	
23 05 93 00-0113 EA >100' To 250', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,079.82	
23 05 93 00-0114 EA >250' To 500', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	2,360.11	
23 05 93 00-0115 EA >500' To 1,000', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	3,015.24	
23 05 93 00-0116 EA >1,000' To 2,000', >10" To 14" Piping, Pneumatic Testing..... Note: Includes soaping joints.	4,728.21	
23 05 93 00-0117 EPA Testing Of Sludge (23 05 93)		
23 05 93 00-0118 EA Flashpoint And Lead Test For Lead.....	643.52	
23 05 93 00-0119 EA Air Test/Combustion Gas Level.....	70.98	
23 05 93 00-0120 EA Toxicity Test For Heavy Metals.....	986.11	
23 05 93 00-0121 EA Aboveground Tank Water Settlement Test Including Water.....	749.34	
23 07 HVAC Insulation (23)		
23 07 13 Duct Insulation (23 07)		
Note: Based on SF surface area of duct to receive insulation.		
23 07 13 00-0001 FSK Fiber Glass Duct Wrap Insulation (23 07 13)		
Note: Foil-scrim kraft (FSK) facing lapped and joints sealed vapor tight.		
23 07 13 00-0002 Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)		
23 07 13 00-0003 SF 1" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2.45 -0.11 0.65	1.64
23 07 13 00-0004 SF 1-1/2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2.87 -0.12 0.77	1.64
23 07 13 00-0005 SF 2" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3.27 -0.14 0.88	2.46
23 07 13 00-0006 SF 3" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3.84 -0.17 1.03	2.87
23 07 13 00-0007 SF 4" Thick, Type 75 (0.75 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4.34 -0.26 1.10	3.11
23 07 13 00-0008 Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)		
23 07 13 00-0009 SF 1" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3.04 -0.12 0.82	2.46
23 07 13 00-0010 SF 1-1/2" Thick, Type 100 (1.0 LB/CF) FSK Fiber Glass Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3.53 -0.15 0.95	2.87
23 07 13 00-0011 SF 2" Thick, Type 100 (1.0 LB/CF) Fiber Glass FSK Duct Wrap Insulation..... <i>For Plain Blanket, With No Facing, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4.17 -0.18 1.12	3.27
23 07 13 00-0012 Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation (23 07 13 00-0001)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 07 HVAC Insulation****23 07 13 Duct Insulation**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 13 00-0013 SF 1" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	3.82	3.27
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.21	
<i>For Work In Restricted Working Space, Add</i>	0.99	
23 07 13 00-0014 SF 1-1/2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation	4.68	3.68
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.37	
<i>For Work In Restricted Working Space, Add</i>	1.13	
23 07 13 00-0015 SF 2" Thick, Type 150 (1.5 LB/CF) FSK Fiber Glass Duct Wrap Insulation.....	5.46	4.10
<i>For Plain Blanket, With No Facing, Deduct</i>	-0.44	
<i>For Work In Restricted Working Space, Add</i>	1.31	
23 07 13 00-0016 3 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)		
Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fasteners.		
23 07 13 00-0017 SF 1" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation	8.02	4.49
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	17.99	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	13.48	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	11.07	
<i>For Work In Restricted Working Space, Add</i>	2.18	
23 07 13 00-0018 SF 1-1/2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation	10.58	5.47
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	22.45	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	17.22	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	14.04	
<i>For Work In Restricted Working Space, Add</i>	2.66	
23 07 13 00-0019 SF 2" Thick, 3 LB/CF FSK Rigid Fiber Glass Board Insulation	13.39	6.59
<i>For 8 Oz Canvas On Duct, Applied Over Deadening Felt And Finished, Add</i>	27.53	
<i>For Finishing Cement 1/2" Thick Over 1" Wire Mesh, Add</i>	21.40	
<i>For Non-Metallic Weatherproof Paste, 2 LB, Add</i>	17.38	
<i>For Work In Restricted Working Space, Add</i>	3.20	
23 07 13 00-0020 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation (23 07 13)		
Note: Foil-scrim kraft (FSK) facing, sealed vapor tight and attached to ducts with mechanical fastener.		
23 07 13 00-0021 SF 1" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation	9.09	4.94
<i>For Work In Restricted Working Space, Add</i>	2.40	
23 07 13 00-0022 SF 1-1/2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation	12.20	6.01
<i>For Work In Restricted Working Space, Add</i>	2.92	
23 07 13 00-0023 SF 2" Thick, 4.253 LB/CF FSK Rigid Fiber Glass Board Insulation	16.05	7.26
<i>For Work In Restricted Working Space, Add</i>	3.53	
23 07 13 00-0024 Sheet Flexible Elastomeric Insulation (23 07 13)		
23 07 13 00-0025 SF 3/8" Thick, Sheet Flexible Elastomeric Insulation.....	7.53	2.21
23 07 13 00-0026 SF 1/2" Thick, Sheet Flexible Elastomeric Insulation.....	8.05	2.34
23 07 13 00-0027 SF 3/4" Thick, Sheet Flexible Elastomeric Insulation.....	10.76	2.46
23 07 13 00-0028 SF 1" Thick, Sheet Flexible Elastomeric Insulation.....	12.50	2.58
23 07 13 00-0029 SF 1-1/2" Thick, Sheet Flexible Elastomeric Insulation	17.56	2.83
23 07 13 00-0030 SF 2" Thick, Sheet Flexible Elastomeric Insulation.....	20.86	3.07
23 07 13 00-0031 Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation (23 07 13)		
Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0032 SF 1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	11.45	2.34
23 07 13 00-0033 SF 3/4" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	12.64	2.46
23 07 13 00-0034 SF 1" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	14.13	2.58
23 07 13 00-0035 SF 1-1/2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	22.46	2.83
23 07 13 00-0036 SF 2" Thick, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	26.71	3.07
23 07 13 00-0037 Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation (23 07 13)		
Note: Jacketing is a 3-ply laminate consisting of a PVC core, 0.012" thick aluminum foil jacketing and UV-protective Mylar film.		
23 07 13 00-0038 SF 1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation.....	13.88	2.34
23 07 13 00-0039 SF 3/4" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation.....	15.06	2.46
23 07 13 00-0040 SF 1" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation.....	16.99	2.58
23 07 13 00-0041 SF 1-1/2" Thick, Adhesive Backed, Aluminum Foil/Mylar Film, Multi-Layer Sheet Elastomeric Insulation	25.28	2.83
23 07 16 HVAC Equipment Insulation (23 07)		
23 07 16 00-0001 Calcium Silicate Block Insulation (23 07 16)		
23 07 16 00-0002 SF 1" Thick, Calcium Silicate Block Insulation.....	14.70	5.40
<i>For Work In Restricted Working Space, Add</i>	3.24	
23 07 16 00-0003 SF 1-1/2" Thick, Calcium Silicate Block Insulation.....	18.01	6.07
<i>For Work In Restricted Working Space, Add</i>	3.64	
23 07 16 00-0004 SF 2" Thick, Calcium Silicate Block Insulation.....	21.88	7.00
<i>For Work In Restricted Working Space, Add</i>	4.22	
23 07 16 00-0005 SF 2-1/2" Thick, Calcium Silicate Block Insulation.....	26.24	8.22
<i>For Work In Restricted Working Space, Add</i>	4.94	
23 07 16 00-0006 SF 3" Thick, Calcium Silicate Block Insulation.....	31.98	10.12
<i>For Work In Restricted Working Space, Add</i>	6.07	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 07 19 HVAC Piping Insulation (23 07)

See CSI section 22 07 19 00-0000 for pipe insulation.

23 07 19 00-0001 Calcium Silicate Pipe Insulation (23 07 19)

Note: Includes adhesive. Excludes fittings (a location requiring purchase of an insulation fitting or cutting and fitting straight sections, excludes couplings, plugs, etc.). For fittings/valves up to 3" add 2 LF for each fitting/valve or 3 LF for each flanged/grooved joint. For fittings/valves >3" add 3 LF for each fitting/valve or 4 LF for each flanged/grooved joint. See CSI section 22 07 19 00-0492 for protective jacketing.

23 07 19 00-0002 1" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)

23 07 19 00-0003	LF	1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	10.40	2.69
		<i>For Work In Restricted Working Space, Add</i>	2.02	
23 07 19 00-0004	LF	3/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	10.40	2.69
		<i>For Work In Restricted Working Space, Add</i>	2.02	
23 07 19 00-0005	LF	1" Diameter Pipe, 1" Thick Calcium Silicate Insulation	10.34	2.73
		<i>For Work In Restricted Working Space, Add</i>	2.05	
23 07 19 00-0006	LF	1-1/4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	10.51	2.77
		<i>For Work In Restricted Working Space, Add</i>	2.08	
23 07 19 00-0007	LF	1-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	10.63	2.81
		<i>For Work In Restricted Working Space, Add</i>	2.11	
23 07 19 00-0008	LF	2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	11.38	2.89
		<i>For Work In Restricted Working Space, Add</i>	2.17	
23 07 19 00-0009	LF	2-1/2" Diameter Pipe, 1" Thick Calcium Silicate Insulation	11.90	3.00
		<i>For Work In Restricted Working Space, Add</i>	2.25	
23 07 19 00-0010	LF	3" Diameter Pipe, 1" Thick Calcium Silicate Insulation	12.42	3.08
		<i>For Work In Restricted Working Space, Add</i>	2.31	
23 07 19 00-0011	LF	4" Diameter Pipe, 1" Thick Calcium Silicate Insulation	14.20	3.31
		<i>For Work In Restricted Working Space, Add</i>	2.49	
23 07 19 00-0012	LF	6" Diameter Pipe, 1" Thick Calcium Silicate Insulation	15.81	3.74
		<i>For Work In Restricted Working Space, Add</i>	2.81	

23 07 19 00-0013 1-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)

23 07 19 00-0014	LF	1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	10.89	2.81
		<i>For Work In Restricted Working Space, Add</i>	2.11	
23 07 19 00-0015	LF	3/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	10.96	2.81
		<i>For Work In Restricted Working Space, Add</i>	2.11	
23 07 19 00-0016	LF	1" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	11.73	2.97
		<i>For Work In Restricted Working Space, Add</i>	2.23	
23 07 19 00-0017	LF	1-1/4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	12.20	3.03
		<i>For Work In Restricted Working Space, Add</i>	2.27	
23 07 19 00-0018	LF	1-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	12.69	3.08
		<i>For Work In Restricted Working Space, Add</i>	2.31	
23 07 19 00-0019	LF	2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	13.61	3.25
		<i>For Work In Restricted Working Space, Add</i>	2.44	
23 07 19 00-0020	LF	2-1/2" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	14.26	3.31
		<i>For Work In Restricted Working Space, Add</i>	2.48	
23 07 19 00-0021	LF	3" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	14.80	3.42
		<i>For Work In Restricted Working Space, Add</i>	2.57	
23 07 19 00-0022	LF	4" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	16.49	3.69
		<i>For Work In Restricted Working Space, Add</i>	2.78	
23 07 19 00-0023	LF	6" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	19.12	4.32
		<i>For Work In Restricted Working Space, Add</i>	3.24	
23 07 19 00-0024	LF	8" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	22.44	4.56
		<i>For Work In Restricted Working Space, Add</i>	3.42	
23 07 19 00-0025	LF	10" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	28.26	5.46
		<i>For Work In Restricted Working Space, Add</i>	4.09	
23 07 19 00-0026	LF	12" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	33.23	6.35
		<i>For Work In Restricted Working Space, Add</i>	4.77	
23 07 19 00-0027	LF	14" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	37.00	6.97
		<i>For Work In Restricted Working Space, Add</i>	5.22	
23 07 19 00-0028	LF	16" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	44.10	8.86
		<i>For Work In Restricted Working Space, Add</i>	6.65	
23 07 19 00-0029	LF	18" Diameter Pipe, 1-1/2" Thick Calcium Silicate Insulation	47.53	9.30
		<i>For Work In Restricted Working Space, Add</i>	6.98	

23 07 19 00-0030 2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)

23 07 19 00-0031	LF	1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	13.83	3.08
		<i>For Work In Restricted Working Space, Add</i>	2.31	
23 07 19 00-0032	LF	3/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	14.16	3.08
		<i>For Work In Restricted Working Space, Add</i>	2.31	
23 07 19 00-0033	LF	1" Diameter Pipe, 2" Thick Calcium Silicate Insulation	14.60	3.12
		<i>For Work In Restricted Working Space, Add</i>	2.34	
23 07 19 00-0034	LF	1-1/4" Diameter Pipe, 2" Thick Calcium Silicate Insulation	15.19	3.16
		<i>For Work In Restricted Working Space, Add</i>	2.37	
23 07 19 00-0035	LF	1-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	15.60	3.20
		<i>For Work In Restricted Working Space, Add</i>	2.40	
23 07 19 00-0036	LF	2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	16.28	3.31
		<i>For Work In Restricted Working Space, Add</i>	2.49	
23 07 19 00-0037	LF	2-1/2" Diameter Pipe, 2" Thick Calcium Silicate Insulation	18.19	3.43
		<i>For Work In Restricted Working Space, Add</i>	2.57	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 07 HVAC Insulation

23 07 19 HVAC Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0038 LF 3" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.52 2.66	3.55
23 07 19 00-0039 LF 4" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.51 2.81	3.75
23 07 19 00-0040 LF 6" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	25.15 3.37	4.49
23 07 19 00-0041 LF 8" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	28.42 3.56	4.74
23 07 19 00-0042 LF 10" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	35.00 4.26	5.68
23 07 19 00-0043 LF 12" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	40.11 5.10	6.80
23 07 19 00-0044 LF 14" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	49.13 7.11	9.48
23 07 19 00-0045 LF 16" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	51.73 7.11	9.48
23 07 19 00-0046 LF 18" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	55.46 7.47	9.96
23 07 19 00-0047 LF 20" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	66.09 8.54	11.38
23 07 19 00-0048 LF 24" Diameter Pipe, 2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	76.97 10.31	13.75
23 07 19 00-0049 2-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0050 LF 1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.59 2.67	3.55
23 07 19 00-0051 LF 3/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	16.94 2.67	3.55
23 07 19 00-0052 LF 1" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.24 2.71	3.61
23 07 19 00-0053 LF 1-1/4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.39 2.73	3.63
23 07 19 00-0054 LF 1-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	17.84 2.75	3.66
23 07 19 00-0055 LF 2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	18.60 2.86	3.82
23 07 19 00-0056 LF 2-1/2" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.91 2.96	3.95
23 07 19 00-0057 LF 3" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.26 3.07	4.09
23 07 19 00-0058 LF 4" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	24.55 3.23	4.31
23 07 19 00-0059 LF 6" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	30.57 3.67	4.90
23 07 19 00-0060 LF 8" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	34.90 4.10	5.46
23 07 19 00-0061 LF 10" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	41.69 4.73	6.30
23 07 19 00-0062 LF 12" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	48.50 5.87	7.83
23 07 19 00-0063 LF 14" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	53.65 6.41	8.55
23 07 19 00-0064 LF 16" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	65.13 8.19	10.92
23 07 19 00-0065 LF 18" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	68.79 8.60	11.47
23 07 19 00-0066 LF 20" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	79.80 9.83	13.11
23 07 19 00-0067 LF 24" Diameter Pipe, 2-1/2" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	93.76 11.88	15.84
23 07 19 00-0068 3" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0069 LF 1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	20.93 2.95	3.94
23 07 19 00-0070 LF 3/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.01 2.95	3.94
23 07 19 00-0071 LF 1" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.20 2.98	3.98
23 07 19 00-0072 LF 1-1/4" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.43 3.00	4.00
23 07 19 00-0073 LF 1-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	21.62 3.03	4.05
23 07 19 00-0074 LF 2" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	22.37 3.15	4.20
23 07 19 00-0075 LF 2-1/2" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	24.81 3.25	4.34
23 07 19 00-0076 LF 3" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	25.32 3.37	4.49
23 07 19 00-0077 LF 4" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	29.85 3.56	4.74
23 07 19 00-0078 LF 6" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	35.41 4.04	5.39



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0079 LF 8" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	41.14 4.50	6.00
23 07 19 00-0080 LF 10" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	48.87 5.20	6.93
23 07 19 00-0081 LF 12" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	56.42 6.46	8.61
23 07 19 00-0082 LF 14" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	62.64 7.05	9.40
23 07 19 00-0083 LF 16" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	73.28 9.01	12.01
23 07 19 00-0084 LF 18" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	79.03 9.46	12.61
23 07 19 00-0085 LF 20" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	92.54 10.82	14.43
23 07 19 00-0086 LF 24" Diameter Pipe, 3" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	109.45 13.07	17.43
23 07 19 00-0087 3-1/2" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0088 LF 1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	26.69 3.23	4.31
23 07 19 00-0089 LF 3/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.70 3.23	4.31
23 07 19 00-0090 LF 1" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.77 3.25	4.34
23 07 19 00-0091 LF 1-1/4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	27.84 3.27	4.37
23 07 19 00-0092 LF 1-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	28.72 3.32	4.42
23 07 19 00-0093 LF 2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	30.49 3.43	4.57
23 07 19 00-0094 LF 2-1/2" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	33.11 3.55	4.73
23 07 19 00-0095 LF 3" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	34.28 3.68	4.90
23 07 19 00-0096 LF 4" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	39.06 3.89	5.17
23 07 19 00-0097 LF 6" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	43.59 4.41	5.88
23 07 19 00-0098 LF 8" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	53.08 4.91	6.54
23 07 19 00-0099 LF 10" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	64.53 5.67	7.56
23 07 19 00-0100 LF 12" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	78.11 7.05	9.39
23 07 19 00-0101 LF 14" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	82.27 7.69	10.26
23 07 19 00-0102 LF 16" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	95.91 9.83	13.11
23 07 19 00-0103 LF 18" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	110.20 10.32	13.76
23 07 19 00-0104 LF 20" Diameter Pipe, 3-1/2" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	118.90 11.81	15.74
23 07 19 00-0105 4" Thick, Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0106 LF 1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	33.36 3.59	4.78
23 07 19 00-0107 LF 3/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	33.39 3.59	4.78
23 07 19 00-0108 LF 1" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	33.59 3.65	4.87
23 07 19 00-0109 LF 1-1/4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	34.52 3.69	4.92
23 07 19 00-0110 LF 1-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	36.57 3.81	5.08
23 07 19 00-0111 LF 2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	37.32 3.93	5.24
23 07 19 00-0112 LF 2-1/2" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	40.77 3.99	5.32
23 07 19 00-0113 LF 3" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	41.94 4.13	5.52
23 07 19 00-0114 LF 4" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	47.64 4.37	5.82
23 07 19 00-0115 LF 6" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	55.10 4.95	6.60
23 07 19 00-0116 LF 8" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	65.66 5.52	7.37
23 07 19 00-0117 LF 10" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	75.61 6.38	8.51
23 07 19 00-0118 LF 12" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	86.08 7.93	10.57
23 07 19 00-0119 LF 14" Diameter Pipe, 4" Thick Calcium Silicate Insulation <i>For Work In Restricted Working Space, Add</i>	91.54 8.66	11.55

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 07 HVAC Insulation

23 07 19 HVAC Piping Insulation



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 07 19 00-0120 LF 16" Diameter Pipe, 4" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	108.37 11.07	14.76
23 07 19 00-0121 LF 18" Diameter Pipe, 4" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	115.26 11.60	15.46
23 07 19 00-0122 LF 20" Diameter Pipe, 4" Thick Calcium Silicate Insulation..... <i>For Work In Restricted Working Space, Add</i>	127.55 13.28	17.70
23 07 19 00-0123 Weather-Protective Coating For Calcium Silicate Pipe Insulation (23 07 19 00-0001)		
23 07 19 00-0124 SF 1/4" Thick (Two 1/8" Coats), Weatherproof Coating Over Glass Cloth Mesh (Insulokote ET) <i>For Work In Restricted Working Space, Add</i>	3.90 0.76	
23 08 Commissioning Of HVAC (23)		
See CSI section 23 05 93 00-0000 for testing and balancing.		
23 09 Instrumentation And Control For HVAC (23)		
23 09 23 Direct-Digital Control System For HVAC (23 09)		
23 09 23 11 Control Valves (23 09 23)		
23 09 23 11-0001 Valves With Actuator (23 09 23 11)		
23 09 23 11-0002 EA 1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G215+NV24-MFT US).....	479.11	12.44
23 09 23 11-0003 EA 3/4" 2-Way Bronze Globe Valve With Actuator (Belimo G220+NV24-MFT US).....	497.27	16.77
23 09 23 11-0004 EA 1" 2-Way Bronze Globe Valve With Actuator (Belimo B225+NV24-MFT US).....	545.15	20.30
23 09 23 11-0005 EA 1-1/4" 2-Way Bronze Globe Valve With Actuator (Belimo B232+NV24-MFT US).....	596.51	25.71
23 09 23 11-0006 EA 1-1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G240+NV24-MFT US).....	679.65	29.67
23 09 23 11-0007 EA 2" 2-Way Bronze Globe Valve With Actuator (Belimo G250+NV24-MFT US).....	768.84	35.06
23 09 23 11-0008 EA 2-1/2" 2-Way Bronze Globe Valve With Actuator (Belimo G665+GMX24-MFTX1).....	1,439.98	70.12
23 09 23 11-0009 EA 3" 2-Way Bronze Globe Valve With Actuator (Belimo G680+GMX24-MFTX1).....	1,563.83	82.05
23 09 23 11-0010 EA 4" 2-Way Bronze Globe Valve With Actuator (Belimo G6100C+GMX24-MFTX1).....	2,115.31	120.52
23 09 23 11-0011 EA 5" 2-Way Bronze Globe Valve With Actuator (Belimo G6125C+GMX24-MFTX1).....	3,110.06	174.17
23 09 23 11-0012 EA 6" 2-Way Bronze Globe Valve With Actuator (Belimo G6150C+GMX24-MFTX1).....	3,444.81	192.83
23 09 23 11-0013 EA 1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G315+NV24-MFT US).....	517.86	18.66
23 09 23 11-0014 EA 3/4" 3-Way Bronze Globe Valve With Actuator (Belimo G320+NV24-MFT US).....	536.53	25.15
23 09 23 11-0015 EA 1" 3-Way Bronze Globe Valve With Actuator (Belimo G325+NV24-MFT US).....	582.73	30.44
23 09 23 11-0016 EA 1-1/4" 3-Way Bronze Globe Valve With Actuator (Belimo G332+NV24-MFT US).....	648.19	38.56
23 09 23 11-0017 EA 1-1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G340+NV24-MFT US).....	830.26	44.50
23 09 23 11-0018 EA 2" 3-Way Bronze Globe Valve With Actuator (Belimo G350+NV24-MFT US).....	922.51	52.59
23 09 23 11-0019 EA 2-1/2" 3-Way Bronze Globe Valve With Actuator (Belimo G765+GMX24-MFTX1).....	1,635.06	105.18
23 09 23 11-0020 EA 3" 3-Way Bronze Globe Valve With Actuator (Belimo G780+GMX24-MFTX1).....	1,800.67	123.08
23 09 23 11-0021 EA 4" 3-Way Bronze Globe Valve With Actuator (Belimo G7100+2*GMX24-MFTX1).....	2,621.14	180.78
23 09 23 11-0022 EA 5" 3-Way Bronze Globe Valve With Actuator (Belimo G7125+2*GMX24-MFTX1).....	3,801.43	261.25
23 09 23 11-0023 EA 6" 3-Way Bronze Globe Valve With Actuator (Belimo G7150+2*GMX24-MFTX1).....	4,225.44	289.24
23 09 23 11-0024 EA 1/2" Two Way Brass Zone Valve With Actuator (Belimo ZONE215N-35+ZONE24NC).....	109.69	12.44
23 09 23 11-0025 EA 3/4" Two Way Brass Zone Valve With Actuator (Belimo ZONE220N-50+ZONE24NC).....	129.33	16.77
23 09 23 11-0026 EA 1" Two Way Brass Zone Valve With Actuator (Belimo ZONE225N-80+ZONE24NC).....	162.96	20.30
23 09 23 11-0027 EA 1/2" Two Way Brass Zone Valve With Actuator (Belimo ZONE315N-35+ZONE24NC).....	134.06	18.66
23 09 23 11-0028 EA 3/4" Two Way Brass Zone Valve With Actuator (Belimo ZONE320N-50+ZONE24NC).....	156.59	25.15
23 09 23 11-0029 EA 1" Two Way Brass Zone Valve With Actuator (Belimo ZONE325N-80+ZONE24NC).....	195.88	30.44
23 09 23 11-0030 EA 1/2" 2-Way Brass Ball Valve With Actuator (Belimo B215B+LRB24-3).....	182.79	12.44
23 09 23 11-0031 EA 3/4" 2-Way Brass Ball Valve With Actuator (Belimo B220B+LRB24-3).....	216.64	16.77
23 09 23 11-0032 EA 1" 2-Way Brass Ball Valve With Actuator (Belimo B225+LRB24-3).....	246.39	20.30
23 09 23 11-0033 EA 1-1/4" 2-Way Brass Ball Valve With Actuator (Belimo B232+ARB24-3).....	320.59	25.71
23 09 23 11-0034 EA 1-1/2" 2-Way Brass Ball Valve With Actuator (Belimo B240+ARB24-3).....	331.52	29.67
23 09 23 11-0035 EA 2" 2-Way Brass Ball Valve With Actuator (Belimo B250+ARB24-3).....	422.43	35.06
23 09 23 11-0036 EA 2-1/2" 2-Way Brass Ball Valve With Actuator (Belimo B265+ARB24-3).....	907.62	70.12
23 09 23 11-0037 EA 3" 2-Way Brass Ball Valve With Actuator (Belimo B280+ARB24-3).....	1,065.63	82.05
23 09 23 11-0038 EA 1/2" 3-Way Brass Ball Valve With Actuator (Belimo B315B+LRB24-3).....	221.37	18.66
23 09 23 11-0039 EA 3/4" 3-Way Brass Ball Valve With Actuator (Belimo B320B+LRB24-3).....	255.89	25.15
23 09 23 11-0040 EA 1" 3-Way Brass Ball Valve With Actuator (Belimo B325+LRB24-3).....	330.34	30.44
23 09 23 11-0041 EA 1-1/4" 3-Way Brass Ball Valve With Actuator (Belimo B331+ARB24-3).....	468.85	38.56
23 09 23 11-0042 EA 1-1/2" 3-Way Brass Ball Valve With Actuator (Belimo B341+ARB24-3).....	494.13	44.50
23 09 23 11-0043 EA 2" 3-Way Brass Ball Valve With Actuator (Belimo B352+ARB24-3).....	655.08	52.59
23 09 23 11-0044 EA 2" 2-Way Butterfly Valve With Actuator (Belimo F650HD+AMB24-3X1).....	534.18	64.28
23 09 23 11-0045 EA 2-1/2" 2-Way Butterfly Valve With Actuator (Belimo F665HD+AMB24-3X1).....	560.82	70.12
23 09 23 11-0046 EA 3" 2-Way Butterfly Valve With Actuator (Belimo F680HD+GMB24-3X1).....	737.65	82.05
23 09 23 11-0047 EA 4" 2-Way Butterfly Valve With Actuator (Belimo F6100HD+2*GMB24-3X1).....	1,125.84	137.74
23 09 23 11-0048 EA 5" 2-Way Butterfly Valve With Actuator (Belimo F6125HD+SY2-24).....	2,270.41	174.17
23 09 23 11-0049 EA 6" 2-Way Butterfly Valve With Actuator (Belimo F6150HD+SY3-24).....	2,395.00	192.83
23 09 23 11-0050 EA 8" 2-Way Butterfly Valve With Actuator (Belimo F6200HD+SY4-24).....	3,259.50	220.38
23 09 23 11-0051 EA 10" 2-Way Butterfly Valve With Actuator (Belimo F6250HD+SY4-24).....	3,999.13	269.97
23 09 23 11-0052 EA 12" 2-Way Butterfly Valve With Actuator (Belimo F6300HS+SY4-24).....	4,942.62	327.23
23 09 23 11-0053 EA 14" 2-Way Butterfly Valve With Actuator (Belimo F6350HD+SY5-24).....	5,491.48	385.66
23 09 23 11-0054 EA 16" 2-Way Butterfly Valve With Actuator (Belimo F6400HD+SY6-110).....	7,265.95	424.23
23 09 23 11-0055 EA 18" 2-Way Butterfly Valve With Actuator (Belimo F6450HD+SY8-110).....	8,807.94	471.28
23 09 23 11-0056 EA 2" 3-Way Butterfly Valve With Actuator (Belimo F750HD+AMB24-3X1).....	988.02	96.41
23 09 23 11-0057 EA 2-1/2" 3-Way Butterfly Valve With Actuator (Belimo F765HD+GMB24-3X1).....	1,164.23	105.18
23 09 23 11-0058 EA 3" 3-Way Butterfly Valve With Actuator (Belimo F780HD+2*GMB24-3X1).....	1,437.58	123.08
23 09 23 11-0059 EA 4" 3-Way Butterfly Valve With Actuator (Belimo F7100HD+2*GMB24-3X1).....	1,842.01	206.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 11-0060 EA 5" 3-Way Butterfly Valve With Actuator (Belimo F7125HD+SY3-24)	3,780.15	261.25
23 09 23 11-0061 EA 6" 3-Way Butterfly Valve With Actuator (Belimo F7150HD+SY3-24)	3,912.91	289.24
23 09 23 11-0062 EA 8" 3-Way Butterfly Valve With Actuator (Belimo F7200HD+SY4-24)	4,934.29	330.60
23 09 23 11-0063 EA 10" 3-Way Butterfly Valve With Actuator (Belimo F7250HD+SY4-24)	6,533.02	404.94
23 09 23 11-0064 EA 12" 3-Way Butterfly Valve With Actuator (Belimo F7300HD+SY5-24)	7,940.92	490.84
23 09 23 11-0065 EA 14" 3-Way Butterfly Valve With Actuator (Belimo F7350HD+SY6-110)	12,401.23	578.49
23 09 23 11-0066 EA 16" 3-Way Butterfly Valve With Actuator (Belimo F7400HD+SY7-110)	13,828.45	636.33
23 09 23 11-0067 EA 18" 3-Way Butterfly Valve With Actuator (Belimo F7450HD+SY8-110)	21,296.73	706.92

23 09 23 11-0068 Valve Actuators (23 09 23 11)

23 09 23 11-0069 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Terminal Strip, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3-T)	374.35	79.66
23 09 23 11-0070 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 95 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3)	380.08	79.66
23 09 23 11-0071 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, Terminal Strip, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-SR-T)	413.95	79.66
23 09 23 11-0072 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-3-S)	427.69	79.66
23 09 23 11-0073 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-SR)	436.05	79.66
23 09 23 11-0074 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, 150 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-MFT)	490.99	79.66
23 09 23 11-0075 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 2.5 Seconds Run Time, 35 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRQX24-1)	505.43	79.66
23 09 23 11-0076 EA 24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 150 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX24-MFT95)	514.76	79.66
23 09 23 11-0077 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, 2.5 Seconds Run Time, 35 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRQX24-MFT)	537.26	79.66
23 09 23 11-0078 EA 120 Volt AC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX120-3)	404.42	79.66
23 09 23 11-0079 EA 120 Volt AC Power Supply, 2-10 Volt DC Control Input, 90 Seconds Run Time, 45 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo LRX120-SR)	451.63	79.66
23 09 23 11-0080 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Terminal Strip, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-T)	463.77	79.66
23 09 23 11-0081 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3)	472.16	79.66
23 09 23 11-0082 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARB24-3-5-14)	475.29	79.66
23 09 23 11-0083 EA 24 Volt AC/DC Power Supply, On/Off/Floating Point Control Input, Auxiliary Switch, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-3-S)	532.31	79.66
23 09 23 11-0084 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T)	556.89	79.66
23 09 23 11-0085 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR)	569.96	79.66
23 09 23 11-0086 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, Variable Run Time (90 To 350 Seconds), 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT)	567.36	79.66
23 09 23 11-0087 EA 24 Volt AC/DC Power Supply, Phasecut Control Input, 95 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-PC)	575.72	79.66
23 09 23 11-0088 EA 24 Volt AC/DC Power Supply, 0-135 Ohms Control Input, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT95)	575.19	79.66
23 09 23 11-0089 EA 24 Volt AC/DC Power Supply, 2-10 Volt DC Control Input, NEMA 4X, 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-SR-T N4)	629.45	79.66
23 09 23 11-0090 EA 24 Volt AC/DC Power Supply, Proportional/Multi-Function Control Input, NEMA 4X, Variable Run Time (75 To 350 Seconds), 160 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX24-MFT-T N4)	766.65	79.66
23 09 23 11-0091 EA 100-240 Volt AC Power Supply, On/Off/Floating Point Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-3)	504.05	79.66
23 09 23 11-0092 EA 100-240 Volt AC Power Supply, 2-10 Volt DC Control Input, 300, 150, Or 90 Seconds Run Time, 180 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo ARX120-SR)	604.50	79.66
23 09 23 11-0093 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 15 Seconds Run Time, 801 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY2-24)	1,392.26	79.66
23 09 23 11-0094 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 1,335 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY3-24)	1,563.83	79.66
23 09 23 11-0095 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 16 Seconds Run Time, 3,560 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY4-24)	1,881.34	79.66
23 09 23 11-0096 EA 24 Volt AC/DC Power Supply, On/Off Control Input, 22 Seconds Run Time, 4,450 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY5-24)	2,133.99	79.66
23 09 23 11-0097 EA 120 Volt AC Power Supply, On/Off Control Input, 28 Seconds Run Time, 5,785 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY6-110)	2,529.97	79.66
23 09 23 11-0098 EA 120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 8,900 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY7-110)	2,984.01	79.66
23 09 23 11-0099 EA 120 Volt AC Power Supply, On/Off Control Input, 46 Seconds Run Time, 13,350 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY8-110)	4,028.09	79.66
23 09 23 11-0100 EA 120 Volt AC Power Supply, On/Off Control Input, 58 Seconds Run Time, 17,800 IN-LB, Direct Coupled, Non-Spring Return, Valve Actuator (Belimo SY9-110)	4,922.03	79.66

23 09 23 12 Control Dampers (23 09 23)

23 09 23 12-0001 Rectangular Galvanized Volume Control Dampers (23 09 23 12)

Note: Excludes actuators.

23 09 23 12-0002 EA 8" x 8" Low Leakage Volume Control Damper (Johnson Controls VOPSN-008X008)	134.27	28.38
23 09 23 12-0003 EA 10" x 10" Low Leakage Volume Control Damper (Johnson Controls VOPSN-010X010)	151.07	31.13
23 09 23 12-0004 EA 12" x 12" Low Leakage Volume Control Damper (Johnson Controls VOPSN-012X012)	168.77	34.34

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 12-0005 EA 14" x 14" Low Leakage Volume Control Damper (Johnson Controls VOPSN-014X014)	195.32	40.29
23 09 23 12-0006 EA 16" x 16" Low Leakage Volume Control Damper (Johnson Controls VOPSN-016X016)	220.95	45.78
23 09 23 12-0007 EA 18" x 18" Low Leakage Volume Control Damper (Johnson Controls VOPSN-018X018)	225.08	51.50
23 09 23 12-0008 EA 20" x 20" Low Leakage Volume Control Damper (Johnson Controls VOPSN-020X020)	274.39	57.22
23 09 23 12-0009 EA 24" x 24" Low Leakage Volume Control Damper (Johnson Controls VOPSN-024X024)	327.78	68.67
23 09 23 12-0010 EA 32" x 32" Low Leakage Volume Control Damper (Johnson Controls VOPSN-032X032)	418.42	80.12
23 09 23 12-0011 EA 48" x 48" Low Leakage Volume Control Damper (Johnson Controls VOPSN-048X048)	612.81	91.56
23 09 23 12-0012 EA 60" x 60" Low Leakage Volume Control Damper (Johnson Controls VOPSN-060X060)	1,103.85	103.01
23 09 23 12-0013 EA 72" x 72" Low Leakage Volume Control Damper (Johnson Controls VOPSN-072X072)	1,397.14	114.46
23 09 23 12-0014 Round Galvanized Control Dampers (23 09 23 12)		
Note: Excludes actuators.		
23 09 23 12-0015 EA 6" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG06)	131.84	32.04
23 09 23 12-0016 EA 8" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG08)	136.48	34.34
23 09 23 12-0017 EA 10" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG10)	141.91	34.34
23 09 23 12-0018 EA 12" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG12)	157.79	38.91
23 09 23 12-0019 EA 14" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG14)	177.92	38.91
23 09 23 12-0020 EA 16" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG16)	194.10	45.78
23 09 23 12-0021 EA 18" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG18)	260.38	48.19
23 09 23 12-0022 EA 20" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG20)	272.07	49.95
23 09 23 12-0023 EA 22" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG22)	289.04	53.84
23 09 23 12-0024 EA 24" Diameter Round Low Leakage Volume Control Damper (Johnson Controls RCG24)	306.31	57.75
23 09 23 12-0025 Remote Damper Control (23 09 23 12)		
23 09 23 12-0026 EA Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-275B)	199.57	
For Each 10' Flexible Casing And Wire, Add	23.76	
23 09 23 12-0027 EA Remote Cable Control Concealed Ceiling Regulator For Damper (Young Regulator Co. 270-301B)	204.44	
For Each 10' Flexible Casing And Wire, Add	23.76	
23 09 23 12-0028 Control Damper Actuators (23 09 23 12)		
23 09 23 12-0029 EA 44 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non Spring Return Direct Coupled Control Damper Actuator (Belimo LMB24-SR)	407.52	75.64
23 09 23 12-0030 EA 90 IN-LB, 24 Volt AC/DC, 4-20mA, 2-10 Volt DC, Proportional Control, Non Spring Return Direct Coupled Control Damper Actuator (Belimo NMB24-SR)	443.61	75.64
23 09 23 12-0031 EA 90 IN-LB, 2 Position, 24 To 240 Volt AC Spring Return Direct Coupled Control Damper Actuator (Belimo NFBUP)	502.72	75.64
23 09 23 12-0032 EA 175 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo AMB24-SR)	530.96	75.64
23 09 23 12-0033 EA 90 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Spring Return Direct Coupled Control Damper Actuator (Belimo NFB24-SR)	547.72	75.64
23 09 23 12-0034 EA 360 IN-LB, 24 Volt AC, 4-20mA, 2-10 Volt DC, Proportional Control, Non-Spring Return Direct Coupled Control Damper Actuator (Belimo GMB24-SR)	613.62	75.64
23 09 23 13 Energy Meters (23 09 23)		
23 09 23 13-0001 Surge Protectors (23 09 23 13)		
23 09 23 13-0002 EA Surge Protector, T100's, Summit, BCU, UPCM, PCM, TCM (Transtector TR2255)	205.35	6.34
23 09 23 13-0003 EA Surge Protector, 1AC Outlet (Transtector TR2251)	155.35	6.34
23 09 23 13-0004 EA Surge Protector, 2 AC Outlets (Transtector TR2254)	241.39	6.34
23 09 23 13-0005 EA Surge Protector, DB-15 Connection (Transtector TR2259-DLP15)	130.93	6.34
23 09 23 13-0006 EA Surge Protector, DB-25 Connection (Transtector TR2259-DLP25)	130.93	6.34
23 09 23 13-0007 EA Surge Protector, DB-9 Connection (Transtector TR2259-DLP9)	130.93	6.34
23 09 23 13-0008 EA Surge Protector, Individual Wire Connection (Transtector TR2258)	189.08	6.34
23 09 23 13-0009 EA Surge Protector, Trane Communication Links (Transtector TR2257)	116.98	6.34
23 09 23 14 Flow Instruments (23 09 23)		
23 09 23 14-0001 Water Flow Meters (23 09 23 14)		
23 09 23 14-0002 EA Insertion Electromagnetic Water Flow Meter (Onicon F-3500)	3,107.91	85.21
Note: Excludes pipe fittings.		
23 09 23 14-0003 Air Flow Monitoring Stations (23 09 23 14)		
23 09 23 14-0004 EA Analog Transmitter, 2 Point, 3 Sensor Air Flow Monitoring Station (Eatron GTA116)	2,441.96	87.90
Note: 10' cable, 36" x 24" typical duct size.		
23 09 23 14-0005 EA Analog Transmitter, 3 Point, 4 Sensor Air Flow Monitoring Station (Eatron GTA116)	3,486.62	87.90
Note: 10' cable, 48" x 36" typical duct size.		
23 09 23 14-0006 EA Analog Transmitter, 4 Point, 4 Sensor Air Flow Monitoring Station (Eatron GTA116)	4,328.31	87.90
Note: 10' cable, 60" x 48" typical duct size.		
23 09 23 16 Gas Instruments (23 09 23)		
23 09 23 16-0001 Gas Sensors (23 09 23 16)		
23 09 23 16-0002 EA 6-1/4" x 6-1/8" CO2 Sensor, 0-2,000 ppm (Kele WCO-1B)	1,274.39	38.01
23 09 23 16-0003 EA Wall Mounted CO2 Sensor, 0-2,000 ppm With LCD Display (Kele CD-AW-LCD)	564.91	25.34
23 09 23 16-0004 EA CO Monitor/Transmitter, 0 To 250 ppm (Kele GMT-CO-S2)	1,014.40	38.01
Note: Solid state sensor.		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 16-0005	EA			CO2 Transmitter, Duct Mount, No Display, 0-10 Volt DC Out, 24 Volt AC/Volt DC, 0-10 Or 4-20mA, 0-2,000 ppm Range With CD-AD Duct Probe Assembly (CDE CD-AD-LCD; CD-AD).....	555.84	45.63
23 09 23 19 Moisture Instruments (23 09 23)						
23 09 23 19-0001 Relative Humidity Sensors (23 09 23 19)						
23 09 23 19-0002	EA			3% Duct Mounted RH Sensor (Kele HD30K).....	349.82	45.63
23 09 23 19-0003	EA			10K Ohm Thermistor 3% Duct Mounted RH Sensor (Kele HD30K-T3).....	359.11	45.63
23 09 23 19-0004	EA			3% RH Outdoor Air Sensor (Kele HO30K).....	408.98	63.37
23 09 23 19-0005	EA			2% Surface Mounted RH Transmitter (Kele HW20K).....	313.33	25.34
23 09 23 21 Motion Instruments (23 09 23)						
23 09 23 21-0001 Peco Motion Sensors (23 09 23 21)						
23 09 23 21-0002	EA			Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SA200-001).....	115.52	17.82
23 09 23 21-0003	EA			Wall/Ceiling Mount Passive Infrared, 24 Volt, Slave Motion Sensor (Peco SB200-001).....	113.30	17.82
23 09 23 21-0004	EA			Wall/Ceiling Passive Infrared, 24 Volt, Master Motion Sensor (Peco SD200-001).....	150.49	17.82
23 09 23 21-0005	EA			Wall/Ceiling Mount, Passive Infrared, 24 Volt, Master Time Sensor (Peco SD200-002).....	134.08	17.82
23 09 23 21-0006	EA			Door Switch Occupancy Sensor (Peco SE200-001).....	43.89	17.82
23 09 23 21-0007	EA			Window Switch Occupancy Sensor (Peco SE200-002).....	40.83	17.82
23 09 23 21-0008	EA			Power Pack And Controller (Peco SF200-001).....	72.28	17.82
23 09 23 23 Pressure Instruments (23 09 23)						
23 09 23 23-0001 Pressure Sensors (23 09 23 23)						
23 09 23 23-0002	EA			Differential Pressure Transmitters With NEMA 1 Case, 0 To .5" W.C. (Kele T30-005).....	465.04	53.51
23 09 23 23-0003	EA			Differential Pressure Transmitters With NEMA 1 Case, 0 To 5" W.C. (Kele T30-050).....	415.12	53.51
23 09 23 23-0004	EA			Adjustable Differential Pressure Switches, .05 To 12" W.C. (Kele AFS-222).....	173.58	53.51
23 09 23 23-0005	EA			Adjustable Differential Pressure Switches, .05 To 2" W.C. (Kele AFS-262).....	179.38	53.51
23 09 23 23-0006	EA			Manual Reset Adjustable Differential Pressure Switches, .4 To 2" W.C. (Kele AFS-460).....	190.73	53.51
23 09 23 23-0007	EA			Adjustable Differential Pressure Switches, .05 To 12" W.C., 1/8" NPT (Kele AFS-145).....	177.70	53.51
23 09 23 23-0008	EA			Water Differential Pressure Transmitter, 0 To 100psid, Bypass Valve Assembly Option (Kele 360C-P210D-BVA).....	1,680.08	53.51
				Note: Excludes pipe fittings.		
23 09 23 23-0009	EA			Water Differential Pressure Transmitter, 0 To 60psid, Bypass Valve Assembly Option (Kele 360C-P160D-BVA).....	1,680.08	53.51
				Note: Excludes pipe fittings.		
23 09 23 23-0010	EA			Magnahelic Gauge.....	456.50	32.71
23 09 23 27 Temperature Instruments (23 09 23)						
23 09 23 27-0001 Air Temperature Sensors (23 09 23 27)						
23 09 23 27-0002	EA			10K Ohm Thermistor Duct Temperature Sensor (Kele ST-D24).....	135.75	45.63
23 09 23 27-0003	EA			10K Ohm Thermistor Duct Temperature Sensor, 1/2" LB Conduit Fitting (Kele ST-D24-XCO).....	185.66	45.63
23 09 23 27-0004	EA			10K Ohm Thermistor Duct Temperature Sensor With Greenfield Fitting (Kele ST-D24-XG).....	141.49	45.63
23 09 23 27-0005	EA			10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing (Kele ST-D24-XH).....	147.38	45.63
23 09 23 27-0006	EA			10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 18" Probe (Kele ST-D24-XH-XL18).....	149.34	45.63
23 09 23 27-0007	EA			10K Ohm Thermistor Duct Temperature Sensor With Handibox Housing, 6" Probe (Kele ST-D24-XH-XL6).....	147.40	45.63
23 09 23 27-0008	EA			10K Ohm Thermistor Duct Temperature Sensor With Non Metallic Handibox Housing (Kele ST-D24-XHP).....	148.44	45.63
23 09 23 27-0009	EA			10K Ohm Thermistor Duct Temperature Sensor With 4" Probe (Kele ST-D24-XL4).....	158.36	45.63
23 09 23 27-0010	EA			10K Ohm Thermistor Duct Temperature Sensor With Weatherproof Housing (Kele ST-D24-XW).....	167.02	45.63
23 09 23 27-0011	EA			10K Ohm Thermistor Outdoor Air Temperature Sensor (Kele ST-O24).....	204.28	63.37
23 09 23 27-0012	EA			10K Ohm Thermistor Outdoor Air Temperature Sensor With 25' Lead (Kele ST-O24-XC25).....	210.95	63.37
23 09 23 27-0013	EA			Delta Style Surface Mounted 10K Ohm Thermistor Room Temperature Sensor (Kele BA/10K3-R-N-DF).....	91.57	25.34
23 09 23 27-0014	EA			Delta Style Surface Mounted AD592 Room Temperature Sensor (Kele BA/592-10K-R).....	94.02	25.34
23 09 23 27-0015	EA			Stainless Steel Plate 1K Ohm Room Temperature Sensor (Kele BA/1K8-SP).....	87.57	25.34
23 09 23 27-0016 Water Temperature Sensors (23 09 23 27)						
23 09 23 27-0017	EA			5" Immersion 20K Ohm Water Temp Sensor (Honeywell C7041D2001).....	108.41	49.03
23 09 23 27-0018	EA			Strap-On 20K Ohm Water Temp Sensor (Honeywell C7041K2005).....	249.72	49.03
23 09 23 27-0019 Peco Thermostats (23 09 23 27)						
23 09 23 27-0020	EA			3 Heating Stage, 2 Cooling Stage Programmable Thermostat With Humidification/Dehumidification Control (Peco T12532-1AQ).....	242.45	11.88
23 09 23 27-0021	EA			3 Heating Stage, 2 Cooling Stage Programmable Thermostat (Peco T12532-001).....	217.01	11.88
23 09 23 53 Proprietary Control Systems (23 09 23)						
23 09 23 53-0001 EMCS General Costs (23 09 23 53)						
23 09 23 53-0002 EMCS System Design Engineering (23 09 23 53-0001)						
				Note: Hourly labor rates are used for engineering projects only. Not used in conjunction with construction tasks.		
23 09 23 53-0003	HR			EMCS Site Inspection Of Existing Facilities.....	196.03	
23 09 23 53-0004	HR			EMCS Engineering Project Management.....	196.03	
23 09 23 53-0005	HR			EMCS System Engineering, Schematic Design And Layout.....	207.92	
23 09 23 53-0006	HR			EMCS System Software Programming And Graphics Programming.....	207.92	
23 09 23 53-0007	HR			EMCS Graphics Picture Creation.....	133.69	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 09 Instrumentation And Control For HVAC

23 09 23 Direct-Digital Control System For HVAC



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0008 HR EMCS System Controls Training.....	196.03	
23 09 23 53-0009 HR EMCS On Site System Diagnostics Field Technician	196.03	
23 09 23 53-0010 HR EMCS Remote Technical Support Using Phone Or Internet.....	163.40	
23 09 23 53-0011 HR EMCS Travel Time (All Personnel)	169.34	
23 09 23 53-0012 Field Tests, Checkout And Commissioning (23 09 23 53-0001) Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.		
23 09 23 53-0013 PNT EMCS Field Test.....	103.99	
Note: Priced per point.		
23 09 23 53-0014 PNT EMCS Field Checkout And Startup.....	103.99	
Note: Priced per point.		
23 09 23 53-0015 PNT EMCS Field Commissioning	103.99	
Note: Priced per point.		
23 09 23 53-0016 EA EMCS Field Balance Support	89.10	
Note: Priced per controller.		
23 09 23 53-0017 EMCS System Engineering/Submittal Design And Layout (23 09 23 53-0001) Note: A point is defined as any transmitter, switch, actuator, sensor or device (starter, VFD, controller, fan, electric coil, actuator, valve, etc.) that is monitored or controlled by the EMCS system. Most devices count as 1 point. Actuators, valves and thermostats count as 2 points.		
23 09 23 53-0018 PNT EMCS System Engineering/Submittal Design And Layout.....	34.69	
Note: Priced per point.		
23 09 23 53-0019 Alerton Controls (23 09 23 53) 23 09 23 53-0020 EA 50 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-SMALL)	8,447.84	
23 09 23 53-0021 EA 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-MEDIUM)	11,116.28	
23 09 23 53-0022 EA Dashboard Option, 150 Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-MEDIUM).....	29,547.05	
23 09 23 53-0023 EA Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-LARGE)	21,934.34	
23 09 23 53-0024 EA Dashboard Option, Unlimited Devices, 1 WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-LARGE).....	57,994.51	
23 09 23 53-0025 EA Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-ENTERPRISE).....	45,540.93	
23 09 23 53-0026 EA Dashboard Option, Unlimited Devices, SQL Derver Interface, Unlimited WEBtalk VM, Alerton Building Suite 3 (Alerton ABS-3-D-ENTERPRISE).....	70,014.55	
23 09 23 53-0027 EA Alerton Building Suite Tech License (Alerton ABS-3-TECH).....	1,849.63	
23 09 23 53-0028 EA Enterprise Edition With SQL Server Support, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-ENT1).....	25,989.10	
23 09 23 53-0029 EA Unlimited Controllers, Unlimited Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-LRG).....	18,765.04	
23 09 23 53-0030 EA 150 Controllers, 3 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-MED).....	11,060.20	
23 09 23 53-0031 EA 50 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-SM).....	6,480.55	
23 09 23 53-0032 EA 10 Controllers, 1 Workstation, Envision for BACTalk v2.6 (Alerton ENV-BT-2.6-XS).....	2,396.86	
23 09 23 53-0033 EA 1 Ethernet, 1 MS/TP, BACTalk Control Module (Alerton 715000100).....	4,636.61	190.09
23 09 23 53-0034 EA Foreign Protocol Converter For P1 Systems, BACTalk Control Module (Alerton BCM-FPCS)	6,910.28	253.45
23 09 23 53-0035 EA Modbus Gateway, BACTalk Control Module (Alerton BCM-MDBS).....	6,812.51	253.45
23 09 23 53-0036 EA V.90/56K Modem, BACTalk Control Module (Alerton BCM-MDM).....	2,272.65	190.09
23 09 23 53-0037 EA 1 MS/TP, BACTalk Control Module (Alerton 715000300).....	2,845.61	190.09
23 09 23 53-0038 EA Power Supply, BACTalk Control Module (Alerton BCM-PWS).....	2,096.35	190.09
23 09 23 53-0039 EA 1 TUX Trunk, BACTalk Control Module (Alerton BCM-TUX).....	2,714.20	190.09
23 09 23 53-0040 EA Web Server And Configurator CD, BACTalk Control Module (Alerton BCM-WEB).....	7,016.57	190.09
23 09 23 53-0041 EA BACTalk Field Level Gateway For Modbus (Alerton FLG-MODBUS).....	2,833.88	253.45
23 09 23 53-0042 EA EXP BACnet Controller (Alerton VLX).....	6,344.89	506.90
23 09 23 53-0043 EA VLX BACnet High Performance Controller (Alerton VLX-PLATINUM).....	7,599.00	506.90
23 09 23 53-0044 EA Multiple Segment MS/TP Repeater (Alerton MSTP-REP).....	1,026.66	56.44
23 09 23 53-0045 EA 4 Inputs, 2 Flow Transducers, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD).....	1,771.82	190.09
23 09 23 53-0046 EA 4 Inputs, 2 Flow Transducers, 3 Binary Triac Outputs, 4 Ground-Switching Binary Triac Outputs, Dual-Duct VAV Controller (Alerton VAV-DD7).....	1,904.05	190.09
23 09 23 53-0047 EA 4 Inputs, 1 Flow Transducers, 3 Hot-Switching Binary Triac Outputs, 2 Ground-Switching Binary Triac Outputs, Single-Duct VAV Controller (Alerton VAV-SD).....	1,447.28	190.09
23 09 23 53-0048 EA 4 Universal Inputs, 5 Binary Outputs, 2 Analog Outputs, Single-Duct VAV Controller (Alerton VAV-SD2A).....	1,631.60	190.09
23 09 23 53-0049 EA 5 Universal Inputs, 6 Binary Outputs, Integral Honeywell Actuator, Single-Duct VAV Controller (Alerton VAVIH-SD).....	1,623.58	190.09
23 09 23 53-0050 EA 11 Inputs, 8 Binary Triac Outputs, 8 Analog Outputs, BACTalk Field Controller For Central Plant Systems (Alerton VLC-1188).....	2,681.35	190.09
23 09 23 53-0051 EA 16 Inputs, BACTalk Field Controller (Alerton VLC-1600).....	1,952.93	190.09
23 09 23 53-0052 EA 16 Inputs, 16 Binary Triac Outputs, BACTalk Field Controller (Alerton VLC-16160).....	3,006.18	253.45
23 09 23 53-0053 EA 4 Universal Inputs, 4 Binary Outputs, 4 Analog Outputs, Field Controller (Alerton VLC-444).....	1,296.35	126.73
23 09 23 53-0054 EA 5 Inputs, 5 Binary Outputs, BACTalk Field Controller (Alerton VLC-550).....	1,243.45	126.73
23 09 23 53-0055 EA 6 Inputs, 2 Binary Triac Outputs, 3 Isolated Relay Outputs, BACTalk Field Controller (Alerton VLC-651R).....	1,643.61	190.09
23 09 23 53-0056 EA 6 Inputs, 3 Binary Triac Outputs, 3 Isolated Relay Outputs, BACTalk Field Controller (Alerton VLC-660R).....	1,643.61	190.09
23 09 23 53-0057 EA 8 Inputs, 5 Binary Triac Outputs, 3 Analog Outputs, BACTalk Field Controller (Alerton VLC-853).....	2,070.72	190.09
23 09 23 53-0058 EA 16 Universal Inputs, 8 Binary Outputs, 8 Analog Outputs, Field Controller (Alerton VLCA-1688).....	4,409.32	253.45
23 09 23 53-0059 EA 2 Fixed Inputs, 3 Universal Inputs, 6 Binary Outputs, 2 Analog Outputs, VisualLogic Display Controller (Alerton VLD-362).....	1,719.74	190.09
23 09 23 53-0060 EA Wireless Door Contact Sensor (Alerton AL-OC-DS).....	130.68	7.13
23 09 23 53-0061 EA One-Speed BACTalk Microset Wall Sensor (Alerton MS-1010-BT).....	223.96	7.13
23 09 23 53-0062 EA One-Speed BACTalk Microset Wall Sensor With RH Sensor (Alerton MS-1010H-BT).....	602.19	7.13
23 09 23 53-0063 EA Three-Speed BACTalk Microset Wall Sensor (Alerton MS-1030-BT).....	602.19	7.13
23 09 23 53-0064 EA Three-Speed BACTalk Microset Wall Sensor With RH Sensor (Alerton MS-1030H-BT).....	464.37	7.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0065 EA BACnet-Compliant Wall Sensor (Alerton TS-1050-BT).....	143.83	7.13
23 09 23 53-0066 EA Wireless Temperature And Humidity Sensor (Alerton WTS-1000-KIT).....	636.65	7.13
23 09 23 53-0067 EA Wireless Temperature And Humidity Sensor With Temperature Adjustment Knob And Manual Override (Alerton WTS-1050-KIT).....	716.80	7.13
23 09 23 53-0068 EA 10 12-Bit Inputs, 12 Binary Triac Outputs Expansion Module (Alerton EXP-10-12-0).....	2,673.33	190.09
23 09 23 53-0069 EA 10 12-Bit Inputs, 4 Binary Triac Outputs Expansion Module (Alerton EXP-10-4-8).....	2,870.45	190.09
23 09 23 53-0070 EA 22 12-Bit Inputs Expansion Module (Alerton EXP-22-0-0).....	2,700.58	190.09
23 09 23 53-0071 EA 50 Devices, Ascent Compass 1 Software, Small License (Alerton Compass-1-SM).....	6,306.98	
23 09 23 53-0072 EA Global Controller Base Unit (Alerton ACM).....	3,428.86	190.09
23 09 23 53-0073 EA External Battery Pack For ACM (Alerton ACM-BATT).....	745.41	105.74
23 09 23 53-0074 EA Licenses The ACM For Capacity Of 32 Directly Connected Devices (Alerton ACM032).....	596.92	
23 09 23 53-0075 EA Microset 4 Wall Sensor (Alerton MS4-THC).....	687.06	7.13
23 09 23 53-0076 Automated Logic Controls (23 09 23 53)		
23 09 23 53-0077 EA 0 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0100).....	3,071.32	190.09
23 09 23 53-0078 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M0320).....	6,522.11	570.27
23 09 23 53-0079 EA 2 Digital Outputs, 2 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M220nx).....	1,978.26	190.09
23 09 23 53-0080 EA 4 Digital Outputs, 10 Universal Inputs, 6 Analog Outputs Standalone Control Module (Automated Logic M4106nx).....	4,530.15	253.45
23 09 23 53-0081 EA 8 Digital Outputs, 10 Universal Inputs, 2 Analog Outputs Standalone Control Module (Automated Logic M8102nx).....	4,448.58	253.45
23 09 23 53-0082 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M16160).....	6,939.43	506.90
23 09 23 53-0083 EA 8 Digital Outputs, 8 Universal Inputs, 0 Analog Outputs Standalone Control Module (Automated Logic M880nx).....	3,918.36	253.45
23 09 23 53-0084 EA 0 Digital Outputs, 32 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX0320).....	4,082.81	190.09
23 09 23 53-0085 EA 16 Digital Outputs, 16 Universal Inputs, 0 Analog Outputs Expander Control Module (Automated Logic MX16160).....	6,450.00	506.90
23 09 23 53-0086 EA No Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642).....	1,176.31	126.73
23 09 23 53-0087 EA With Display, Interior Wall Mounted, Standalone Controller For Heat Pumps, Fan Coil Units And Other Packaged HVAC Equipment (Automated Logic RC642D).....	1,252.80	126.73
23 09 23 53-0088 EA 3 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN341+).....	2,356.85	126.73
23 09 23 53-0089 EA 1 Digital Outputs, 4 Universal Inputs, 1 Analog Outputs Controller For Pressure Independent VAV Applications (Automated Logic ZN141+).....	2,265.08	126.73
23 09 23 53-0090 EA Air Flow Sensor And Damper Actuator Accessory For ZN341V+ Or ZN141V+ (Automated Logic ZASF).....	1,766.17	190.09
23 09 23 53-0091 EA Unlimited Points, Front End Software For Building Control (Automated Logic WC).....	12,586.84	
23 09 23 53-0092 EA 500 Point, Front End Software For Building Control (Automated Logic WC500).....	7,610.95	
23 09 23 53-0093 EA Enterprise Integration Option, Front End Software For Building Control (Automated Logic WC-ENTERPRISE).....	10,830.14	
23 09 23 53-0094 Cypress Envirosystems Controls (23 09 23 53)		
23 09 23 53-0095 Wireless Pneumatic Thermostat (23 09 23 53-0094)		
Note: Wireless pneumatic thermostats, hub and repeaters must be installed by installers certified by the manufacturer.		
23 09 23 53-0096 EA Two-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2DP).....	335.61	7.92
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
-17.19		
For >200, Deduct		
-34.36		
23 09 23 53-0097 EA Two-Pipe Reverse Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2RP).....	335.61	7.92
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
-17.19		
For >200, Deduct		
-34.36		
23 09 23 53-0098 EA Single-Pipe Direct Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP).....	335.61	7.92
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
-17.19		
For >200, Deduct		
-34.36		
23 09 23 53-0099 EA Single-Pipe Indirect Acting Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1RP).....	335.61	7.92
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
-17.19		
For >200, Deduct		
-34.36		
23 09 23 53-0100 EA Two-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2DP-DB).....	381.66	7.92
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
-19.75		
For >200, Deduct		
-39.47		
23 09 23 53-0101 EA Two-Pipe Reverse Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T2RP-DB).....	381.66	7.92
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
-19.75		
For >200, Deduct		
-39.47		
23 09 23 53-0102 EA Single-Pipe Direct Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1DP-DB).....	381.66	7.92
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
-19.75		
For >200, Deduct		
-39.47		
23 09 23 53-0103 EA Single-Pipe Indirect Acting Deadband Wireless Pneumatic Thermostat (Cypress Envirosystems WPT-800-T1RP-DB).....	391.60	7.92
Note: One for every thermostat to be retrofitted.		
For >50 To 200, Deduct		
-20.31		
For >200, Deduct		
-40.58		
23 09 23 53-0104 EA Wireless Pneumatic Thermostat Blank Cover (Cypress Envirosystems WPT-800-MCOV).....	28.21	7.92
Note: Optional cover.		
For >50 To 200, Deduct		
-1.13		
For >200, Deduct		
-2.25		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 09 Instrumentation And Control For HVAC

23 09 23 Direct-Digital Control System For HVAC



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0105	EA	Green Box Controller (Cypress Envirosystems GBC-800-001)..... Note: One unit for up to 100 thermostats.	3,691.20	7.92
		<i>For 2, Deduct</i>	-187.62	
		<i>For >2, Deduct</i>	-374.89	
23 09 23 53-0106	EA	WPT USB Hub (Cypress Envirosystems WPT-800-HUSB)..... Note: One unit for up to 100 thermostats.	275.69	7.92
		<i>For 2, Deduct</i>	-14.89	
		<i>For >2, Deduct</i>	-29.75	
23 09 23 53-0107	EA	WPT Repeater (Cypress Envirosystems WPT-800-RWAL)..... Note: One unit for up to 15 thermostats.	481.39	7.92
		<i>For >5 To 10, Deduct</i>	-24.56	
		<i>For >10, Deduct</i>	-49.08	
23 09 23 53-0108	EA	24 Volt, WPT Repeater (Cypress Envirosystems WPT-800-RWAL24V)..... Note: One unit for up to 15 thermostats.	592.94	7.92
		<i>For >5 To 10, Deduct</i>	-28.56	
		<i>For >10, Deduct</i>	-57.08	
23 09 23 53-0109		Delta Controls <small>(23 09 23 53)</small>		
23 09 23 53-0110		Software <small>(23 09 23 53-0109)</small> Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0111	EA	Orca Software Unlimited Points License (Delta Controls DOW333-USB).....	1,458.09	
23 09 23 53-0112	EA	Orca Graphics Module, Delta Controls Orca View With Graphics Creation Capabilities (Delta Controls DOW333-I-USB).....	2,422.26	
23 09 23 53-0113	EA	Orca Historical Module, Delta Controls Historian Package With Unlimited Archiving Trend Logs (Delta Controls DHS330-HL-USB).....	5,248.23	
23 09 23 53-0114	EA	Web Server Unlimited Points License, Delta Controls Web Server Front End (Delta Controls DWS330-L-USB).....	8,321.16	
23 09 23 53-0115	EA	Web Server Limited Points (Maximum I/O 2500) License, Delta Controls Web Server Front End (Delta Controls DWS330-M-USB).....	4,284.06	
23 09 23 53-0116	EA	Web Server Limited Points (Maximum I/O 250) License, Delta Controls Web Server Front End (Delta Controls DWS330-S-USB).....	1,458.09	
23 09 23 53-0117	EA	100 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.01).....	3,476.64	
23 09 23 53-0118	EA	1,000 User Energy Portal, Data Collection Controller, Web PC Server Program License (Delta Controls EP-2.02).....	4,284.06	
23 09 23 53-0119	EA	KW Meter With H8163-2400-4-3 Series, With 3, 2,400 Amperes CT's And BACnet MS/TP Interface (Delta Controls H8186-CB).....	1,536.02	79.20
23 09 23 53-0120	EA	Delta Controls Touch Screen (Delta Controls DHMI-7-I).....	1,646.52	
23 09 23 53-0121		EMCS Central Equipment And Controllers <small>(23 09 23 53-0109)</small>		
23 09 23 53-0122	EA	Fully Programmable, Native BACnet Building Controller (Delta Controls DSC-1616E + DFM1616)..... Note: Includes 32 Universal Inputs/32 Analog Or Binary Outputs HOA's, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), SubLAN (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS, Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup	5,427.12	316.82
23 09 23 53-0123	EA	Fully Programmable, Native BACnet Building Controller, 16 Universal Inputs/16 Analog Or Binary Outputs HOA's, Twisted-Pair Ethernet Port, BACnet IP, BACnet Over Ethernet, Main LAN RS-485 BACnet MS/TP (Maximum Of 99 Devices), Sublan (Net2) BACnet MS/TP (Maximum 99 Devices) Or Delta LINKnet At 76,800 BPS (Maximum 12 Devices On LINKnet, With 2 DFM Devices) Serial RS-232 BACnet PTP, Real-Time Clock With Lithium Battery And SRAM Backup (Delta Controls DSC-1616E).....	4,135.25	316.82
23 09 23 53-0124	EA	Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146).....	3,059.36	316.82
23 09 23 53-0125	EA	Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 8 Analog Or Binary Outputs (Delta Controls DAC-1180).....	3,059.36	316.82
23 09 23 53-0126	EA	Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 11 Universal Inputs, 4 Analog Output Or 6 Binary (Triac) Outputs (Delta Controls DAC-1146).....	3,059.36	316.82
23 09 23 53-0127	EA	Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3).....	2,862.61	316.82
23 09 23 53-0128	EA	VAV Controllers Are Native BACnet Application Controllers That Are Fully Programmable, Communicate On A RS-485 LAN Using The MS/TP BACnet Protocol, 3 Universal Inputs, 4 Binary Outputs, Actuator Position Feedback, Supports 4 BACstat Network Sensors On LINKnet For Room Sensing And Control Or 2 Delta Field Modules On LINKnet For I/O Expansion (Delta Controls DVC-304AF).....	990.92	158.41
23 09 23 53-0129	EA	Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240).....	904.13	158.41
23 09 23 53-0130	EA	Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 6 Universal Inputs, 3 Binary (Triac) Outputs And 3 Analog Outputs (Delta Controls DAC-633 R3).....	961.71	158.41
23 09 23 53-0131	EA	Fully Programmable, Native BACnet Advanced Application Controller That Communicates On A RS-485 LAN Using The BACnet MS/TP Protocol, 4 Binary Triac Outputs (24 Volt AC), 3 Binary Relay Outputs For Fan Speed Control, 240 Volt AC, 1 HP (60 LRA/10 FLA) LED Status Indication Of Each Output (Delta Controls DFC-304R3-240).....	904.13	158.41
23 09 23 53-0132	EA	Remotely Expandable I/O To Delta's BACnet Controllers, 16 Universal Inputs, 16 Analog Outputs (Delta Controls DFM-1616).....	2,083.92	198.01
23 09 23 53-0133	EA	Remotely Expandable I/O To Delta's BACnet Controllers, 4 Universal Inputs, 4 Analog Outputs (Delta Controls DFM-440).....	528.46	79.20
23 09 23 53-0134	EA	Remotely Expandable I/O To Delta's BACnet™ Controllers, 4 Universal Inputs, 4 Binary Triac Outputs (Delta Controls DFM-404).....	565.06	79.20
23 09 23 53-0135	EA	Remotely Expandable I/O To Delta's BACnet™ Controllers, 16 Universal Inputs (Delta Controls DFM-1600).....	659.97	79.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0136	Network, VAV And Special Sensors <small>(23 09 23 53-0109)</small>	
23 09 23 53-0137 EA	BACnet MS/TP VAV Network Room Temperature Sensor With LCD Display (Delta Controls DNS-24)	172.32 25.34
23 09 23 53-0138 EA	BACnet MS/TP VAV Network Temperature And Humidity Sensor With LCD Display (Delta Controls DNS-H24)	232.76 28.52
23 09 23 53-0139 EA	Programmable BACnet MS/TP Thermostat With 8 Button Keypad And LCD Display For DX Unit, Fan Coils And RTU (Delta Controls DAC-T305-G2B)	452.55 11.88
23 09 23 53-0140	Honeywell Controls <small>(23 09 23 53)</small>	
23 09 23 53-0141	EMCS Central Equipment And Controllers <small>(23 09 23 53-0140)</small>	
23 09 23 53-0142	EMCS Network Area Controllers (BACnet Or Lon) <small>(23 09 23 53-0141)</small>	
	Note: Includes loading software, software license, loading data base and mounting on wall.	
23 09 23 53-0143 EA	Network Area Java Controller Supporting 126 Devices (Honeywell WC2003B2004)	7,456.63 386.12
	Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 minimum RS-232 serial ports, 1 minimum RS-485 electrically isolated ports, 1 LonWorks port (supports 126 devices), and web user interface software.	
23 09 23 53-0144 EA	Network Area Java Controller Supporting 27 Devices (Honeywell WC2003B1022)	5,148.12 386.12
	Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 LonWorks port with driver, Lon tunnel service, BACnet driver, wind river VxWorks OS with Jeode java virtual machine, Niagara control engine and web user interface software (supports 27 device).	
23 09 23 53-0145 EA	Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201)	3,977.84 386.12
	Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Supports up to 10 devices.	
23 09 23 53-0146 EA	Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-EZ)	4,909.11 386.12
	Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, 1 RS-232 serial port, 1 RS-485 serial port, NDIO port, 2 communication card option slots, BACnet IP Client, and BACnet MS/TP. Includes WEB user interface and Enterprise connectivity pack.	
23 09 23 53-0147 EA	Niagara Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LN)	3,945.78 386.12
	Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485 communications. Includes Niagara network ethernet communication between stations.	
23 09 23 53-0148 EA	Web UI Network Area Java Controller Supporting 10 Devices (Honeywell WEB-201-LU)	3,945.78 386.12
	Note: Includes 128 MB RAM / 64 MB Flash, 2 10/100 Mb ethernet ports, factory installed LON card, NDIO port and MODBus TCP driver. Excludes RS232 and RS485.	
23 09 23 53-0149 EA	16 Point BACnet IP Network Area Java Controller (Honeywell WEB-216-B)	4,267.86 386.12
	Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.	
23 09 23 53-0150 EA	16 Point Web UI And BACnet IP Network Area Java Controller (Honeywell WEB-216-BU)	4,605.97 386.12
	Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.	
23 09 23 53-0151 EA	16 Point Niagara Network Area Java Controller (Honeywell WEB-216-N)	4,267.86 386.12
	Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.	
23 09 23 53-0152 EA	16 Point Web UI And Niagara Network Area Java Controller (Honeywell WEB-216-NU)	4,605.97 386.12
	Note: Includes 16 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.	
23 09 23 53-0153 EA	34 Point BACnet IP Network Area Java Controller (Honeywell WEB-234-B)	4,608.89 386.12
	Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.	
23 09 23 53-0154 EA	34 Point Web UI and BACnet IP Network Area Java Controller (Honeywell WEB-234-BU)	4,947.00 386.12
	Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.	
23 09 23 53-0155 EA	34 Point Niagara Network Area Java Controller (Honeywell WEB-216-N)	4,608.89 386.12
	Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this controller.	
23 09 23 53-0156 EA	34 Point Web UI and Niagara Network Area Java Controller (Honeywell WEB-216-NU)	4,947.00 386.12
	Note: Includes 34 IO point equipment controller consisting of a controller, one IO-16 module and BACnet IP client communications. Includes 64 MB RAM / 64 MB Flash, 2 10/100 MB ethernet ports, NDIO port and 2 communication card option slots. Excludes RS232 and RS485. The LON card is not an option on this.	
23 09 23 53-0157 EA	Network Area Java Controller Supporting 27 Devices (Controller Only) (Honeywell WEB-403-AX)	4,893.08 386.12
	Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.	
23 09 23 53-0158 EA	Unrestricted Network Area Java Controller Supporting 27 Devices (Controller Only)	6,022.56 386.12
	Note: Unrestricted limit on connected devices. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. Honeywell WEB-403-EXP-AX. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.	
23 09 23 53-0159 EA	Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EZ)	6,370.87 386.12
	Note: Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service.	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0160 EA Expanded Easy Pack Network Area Java Controller Supporting 27 Devices (Honeywell WEB-403-EXP-EZ) .....7,500.35	7,500.35	386.12
Note: Unrestricted limit on connected devices. Includes controller plus User Interface Station Pack and Enterprise Connectivity Station Pack bundled as an "easy-order" bundle. Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 1 RS-485 port, 1 RS-232 port, 1 LonWorks FTT 10 port, 6 universal inputs (analog or contact/pulse input), 4 form C (SPDT) relay outputs. Excludes UI service and Enterprise connectivity service. As with other WEBs controllers, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0161 EA Network Area Java Controller Supporting 124 Devices (Controller Only) (Honeywell WEB-545-AX).....6,386.90	6,386.90	386.12
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other WEBs controllers, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Excludes UI service and Enterprise connectivity service.		
23 09 23 53-0162 EA Easy Pack Network Area Java Controller Supporting 124 Devices (Honeywell WEB-545-EZ).....8,539.47	8,539.47	386.12
Note: Includes 128 MB RAM / 32 MB Flash, 10/100 MB ethernet port, 4 RS-485 port, 2 RS-232 port, 1 LonWorks port. As with other JACEs, capacity is limited by the characteristics of the application. Unit is supplied with a steel, wall mountable enclosure, and 120 volt power supply. Includes WEB-545-AX plus User Interface Station Pack (UI-SP-5XX) and Enterprise Connectivity Station Pack (EC-SP-5XX) bundled as an "easy-order" bundle.		
23 09 23 53-0163 EMCS Network Interfaces (23 09 23 53-0141)		
Note: Includes installation, start-up and tech labor.		
23 09 23 53-0164 EA Serial LonTalk Adapter For LonWorks Bus And A PC (Honeywell Q7760A2001).....1,063.89	1,063.89	106.93
Note: For desktop computer.		
23 09 23 53-0165 EA Serial LonTalk Card For LonWorks Bus And A PC (Honeywell Q7752B2009).....907.22	907.22	71.28
Note: For laptop computer.		
23 09 23 53-0166 EA FTT-10 To FTT-10 Router (Honeywell Q7751A2010).....1,160.29	1,160.29	133.69
23 09 23 53-0167 EA 4FTT-10 To TP/FTT-1250 Multi Port Router (Honeywell Q7751J2002).....1,765.83	1,765.83	193.10
23 09 23 53-0168 EA Two Way Lon Repeater (Honeywell Q7740A1008).....922.00	922.00	193.10
23 09 23 53-0169 EA FTT Termination Module For Network Bus (Honeywell 209541B).....68.64	68.64	23.76
23 09 23 53-0170 DDC Application Specific Controller Assemblies (23 09 23 53-0141)		
Note: Includes submittal generation, installation, field test, checkout and start-up. Includes control enclosure, transformer, terminal strip and ancillary devices. (For example, fan coil unit include valves, actuators with controller and thermostat; VAVs include controller, thermostat and hot water valve if VAV has reheat coil). Excludes graphics and database generation. Excludes discharge air sensor.		
23 09 23 53-0171 EA Up To 10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....1,728.03	1,728.03	552.45
23 09 23 53-0172 EA >10 Factory Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....1,431.01	1,431.01	327.11
23 09 23 53-0173 EA Up To 10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....1,852.77	1,852.77	552.45
23 09 23 53-0174 EA >10 Field Installed Cooling Only Or Electric Reheat VAV Or FPB Controller Assemblies.....1,555.76	1,555.76	359.58
23 09 23 53-0175 EA Up To 10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....2,043.79	2,043.79	614.86
23 09 23 53-0176 EA >10 Factory Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....1,820.99	1,820.99	460.97
23 09 23 53-0177 EA Up To 10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....2,480.37	2,480.37	614.86
23 09 23 53-0178 EA >10 Field Installed Steam Or Hot Water Heating VAV Or FPB Controller Assemblies.....2,168.54	2,168.54	470.48
23 09 23 53-0179 EA Up To 10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....1,535.92	1,535.92	614.86
23 09 23 53-0180 EA >10 Factory Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....1,238.90	1,238.90	363.55
23 09 23 53-0181 EA Up To 10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....1,699.32	1,699.32	614.86
23 09 23 53-0182 EA >10 Field Installed Application Specific Heat Pump Or Gas Heat With DX Cooling Controller Assemblies.....1,402.22	1,402.22	409.49
23 09 23 53-0183 EA Up To 10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies.....2,032.71	2,032.71	614.86
23 09 23 53-0184 EA >10 Factory Installed Application Specific Fan Coil Unit Controller Assemblies.....1,729.76	1,729.76	362.76
23 09 23 53-0185 EA Up To 10 Field Installed Application Specific Fan Coil Unit Controller Assemblies.....2,196.11	2,196.11	614.86
23 09 23 53-0186 EA >10 Field Installed Application Specific Fan Coil Unit Controller Assemblies.....1,893.07	1,893.07	408.69
23 09 23 53-0187 EA Up To 10 Factory Installed Application Specific Unit Ventilator Controller Assemblies.....2,554.33	2,554.33	614.86
23 09 23 53-0188 EA >10 Factory Installed Application Specific Unit Ventilator Controller Assemblies.....2,284.08	2,284.08	392.85
23 09 23 53-0189 EA Up To 10 Field Installed Application Specific Unit Ventilator Controller Assemblies.....2,881.12	2,881.12	614.86
23 09 23 53-0190 EA >10 Field Installed Application Specific Unit Ventilator Controller Assemblies.....2,610.80	2,610.80	460.17
23 09 23 53-0191 DDC Programmable Controller Assemblies (23 09 23 53-0141)		
Note: Includes installation, field test, checkout and start-up. Includes control enclosure, transformer and terminal strip only. Excludes ancillary devices. Excludes submittal generation/system engineering and database generation. See CSI section 23 09 23 53-0198 for additional components.		
23 09 23 53-0192 EA 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies.....1,764.95	1,764.95	472.29
23 09 23 53-0193 EA Oversized Enclosure 3 AO, 6 UI, 8 DO And 4 DI Small Programmable Controller Assemblies.....2,041.28	2,041.28	472.29
23 09 23 53-0194 EA 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies.....2,723.39	2,723.39	555.46
23 09 23 53-0195 EA Oversized Enclosure 6 AO, 8 AI, 8 DO And 8 DI Medium Programmable Controller Assemblies.....2,999.73	2,999.73	555.46
23 09 23 53-0196 EA 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies.....4,930.59	4,930.59	650.51
23 09 23 53-0197 EA Oversized Enclosure 10 AO, 16 AI, 16 DO And 16 DI Large Programmable Controller Assemblies.....5,250.03	5,250.03	650.51
23 09 23 53-0198 EMCS Optional DDC Controller Hardware (23 09 23 53-0141)		
Note: Used to expand the capacity of DDC programmable controller assemblies.		
23 09 23 53-0199 EA 6 DO (Repay), 3 AI, 3 DI AHU Controller (Honeywell W7750A2005).....332.28	332.28	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0200 EA 6 AI, 5 DI, 8 DO (Triac) AHU Controller (Honeywell W7750B2011).....384.02	384.02	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0201 EA 3 AO, 6 AI, 5 DI, 5 DO (Triac) AHU Controller (Honeywell W7750C2001).....402.24	402.24	
Note: For constant volume single zone and heat pump AHUs.		
23 09 23 53-0202 EA VAV Controller Compatible Printed Wiring Board (Honeywell W7751B2010).....379.65	379.65	
23 09 23 53-0203 EA VAV Controller With Internally Wired Subbase (Honeywell W7751D2016).....385.48	385.48	
23 09 23 53-0204 EA VAV Controller With Externally Wired Subbase (Honeywell W7751F2011).....376.74	376.74	
23 09 23 53-0205 EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751H2025).....324.27	324.27	
23 09 23 53-0206 EA VAV Controller With Premounted ML6161 Actuator (Honeywell W7751J2004).....282.00	282.00	
23 09 23 53-0207 EA Fan Coil Unit Controller With Electric Reheat Relay (Honeywell W7752F2002).....413.17	413.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0208 EA Fan Coil Unit Controller Without Electric Reheat Relay (Honeywell W7752G2000)	369.45	
23 09 23 53-0209 EA Unit Ventilator Controller With Heating, Cooling, Actuator And Fan Control (Honeywell W7753A2002)	408.07	
23 09 23 53-0210 EA Building Manager, Monitor And Control HVAC Equipment (Honeywell W7760A2011)	866.42	
23 09 23 53-0211 EA Plant Controller, Monitor And Control HVAC Equipment (Honeywell W7760C2017)	1,077.74	
23 09 23 53-0212 EA Remote IO Device For Ancillary Point Monitoring And Control (Honeywell W7761A2002)	538.51	
23 09 23 53-0213 EA Remote IO, UUKL-UL 864 Approved (Honeywell W7761A2010)	530.49	
23 09 23 53-0214 EA Hydronic Controller Without Wall Module (Honeywell W7762B1027)	260.14	
23 09 23 53-0215 EA Hydronic Controller With Built-in Wall Module (Honeywell W7763C1016)	295.85	
23 09 23 53-0216 EA IO Module, 24 Volt AC Without Overrides (Honeywell XFC3A06001)	546.52	
23 09 23 53-0217 EA IO Module, 24 Volt AC With Overrides (Honeywell XFC3D06001)	584.41	
23 09 23 53-0218 EA AI Module (Honeywell XFL521B)	365.80	
23 09 23 53-0219 EA AO Module (Honeywell XFL522B)	365.80	
23 09 23 53-0220 EA DI Module (Honeywell XFL523B)	365.80	
23 09 23 53-0221 EA DO Module (Honeywell XFL524B)	365.80	
23 09 23 53-0222 EA Distributed IO, Lonwork Bus Connector Module With Endplate (Honeywell XSL511)	64.85	
23 09 23 53-0223 EA Distributed IO, Terminal Block For AI, AO And DI Modules (Honeywell XSL513)	122.42	
23 09 23 53-0224 EA Distributed IO, Terminal Block For DO Modules (Honeywell XSL514)	120.23	
23 09 23 53-0225 EA Lon Analog IO Module, 24 Volt AC/DC, 10 Digital Inputs (Honeywell XIO-10DI)	367.99	
23 09 23 53-0226 EA Lon Hub (Honeywell XIO-HUB)	54.65	
23 09 23 53-0227 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Outputs (Honeywell XIO-4AO)	367.99	
23 09 23 53-0228 EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Inputs (Honeywell XIO-4DI)	338.84	
23 09 23 53-0229 EA Lon Digital IO, 24 Volt AC/DC, 4 Digital Outputs (Honeywell XIO-4DO)	338.84	
23 09 23 53-0230 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog Inputs (Honeywell XIO-4NTC)	357.06	
23 09 23 53-0231 EA Lon Analog IO, 24 Volt AC/DC, 4 Analog PT1000 Inputs (Honeywell XIO-4PT1000)	357.06	
23 09 23 53-0232 EA Lon Analog IO, 24 Volt AC/DC, 8 Analog Inputs (Honeywell XIO-8AI)	513.73	
23 09 23 53-0233 EA 16 Point IO Module For Network Area Controllers (Honeywell WEB-IO-16)	606.27	
Note: Includes 8 universal inputs, 4 relay outputs, and 4 analog outputs.		
23 09 23 53-0234 EA 34 Point IO Module For Network Area Controllers (Honeywell W7750A2005)	1,288.33	
Note: Includes 16 universal inputs, 10 relay outputs, and 8 analog outputs.		
23 09 23 53-0235 EMCS Software (23 09 23 53-0140)		
23 09 23 53-0236 Software Packages And License (23 09 23 53-0235)		
Note: Includes installation on equipment.		
23 09 23 53-0237 EA On Board Programming Tool For Network Area Controllers (Honeywell WP-AX-WEB)	410.98	
Note: Requires UI services to be installed on NAC.		
23 09 23 53-0238 EA Software Upgrade To Provide Unrestricted Connected Device Limit (Honeywell WEB-403-EXUP-AX)	1,577.62	
Note: Upgrade existing network area controller. As with other WEBS controllers, capacity is limited by the characteristics of the application including size and complexity.		
23 09 23 53-0239 EA WEBStation-AX Software For Windows (Honeywell WEB-S-AX)	4,590.78	
Note: Includes Archon database. WEBS controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes one copy of WP-AX (WEBPro-AX).		
23 09 23 53-0240 EA Small Building WEBStation-AX Based Software (Honeywell WEB-S-AX-SBS)	2,732.61	
Note: For up to 3 NAC controllers. NAC controllers must have Enterprise Connectivity Station Pack (EC-SP). Includes Archon database.		
23 09 23 53-0241 EA Upgrade Small Building To Large Building Software	3,107.88	
Note: Upgrade WEB-S-AX-SBS to WEB-S-AX.		
23 09 23 53-0242 EA Additional Copy Of WEBPro-AX (Honeywell WEB-S-AX-W)	2,183.55	
Note: One copy is included with WEB-S-AX and WEBStation-AX.		
23 09 23 53-0243 EA WEBS Energy Suite (WES) Base Software (Honeywell WES-BASE-AX)	3,892.34	
Note: Includes license for 10 points of E ² Profiler and 2 licensed meters of Cost Profiler. Limit of one WES-BASE per WEBStation-AX Supervisor. Additional E ² Profiler point requirements or Cost Profiler meter requirements may use one or any combination of point/meter bundles. One WES-BASE required per WES project.		
23 09 23 53-0244 EA Perpetual License One Meter Point Bundle Of A Cost Profiler Meter And Two E ² Profiler Points (Honeywell WES-CP-AX)	507.55	
Note: Can be combined with the required single instance of WES-BASE as well as with any combination of other EP points and CP meters.		
23 09 23 53-0245 EA Perpetual License For One Point Of E ² Profiler (Honeywell WES-E2-AX)	336.31	
Note: Can be combined with the required single instance of WES-BASE as well as with any number of other EP Points and Cost Profiler meters.		
23 09 23 53-0246 EA Perpetual License For An Unlimited Bundle Of E2 Points And CP Meters	21,092.46	
Note: Sold on a per server basis. Purchase of this product must be accompanied by WES-M1-ENT-AX maintenance. The first year price of maintenance is included with WES-ENT-AX.		
23 09 23 53-0247 EA Annual Maintenance For Enterprise WEBS-AX Energy Suite (Honeywell WES-M1-ENT-AX)	19,243.09	
Note: The first year cost of WES-M1-ENT-AX is included with WES-ENT-AX. After the first year WES-M1-ENT-AX maintenance fee will be invoiced annually.		
23 09 23 53-0248 EA Standard WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX)	7,320.47	
23 09 23 53-0249 EA Small WEBStation-AX Supervisor Bundled With WES-BASE-AX (Honeywell WES-S-AX-SBS)	5,462.30	
23 09 23 53-0250 EA Add 500 Modbus TCP Points To WEBStation With WS-OSD Option (Honeywell WS-MTCP-500)	1,579.08	
23 09 23 53-0251 EA Add 500 OPC Points To WEBStation With WS-OSD Option (Honeywell WS-OPC-500)	1,579.08	
23 09 23 53-0252 EA Vikon Oracle Driver For Support Of Oracle Database (Honeywell WS-ORCL)	10,930.42	
Note: Excludes Oracle.		
23 09 23 53-0253 EA Open System Driver Option (Honeywell WS-SNMP-500)	1,457.39	
Note: Adds 25 points each of BACnet IP, OPC (client), Modbus TCP and SNMP to a standard WEBStation. Can be purchase with the WS or added later. Web Supervisor required to purchase this option.		
23 09 23 53-0254 EA Add 500 SNMP Points To WEBStation With WS-OSD Option (Honeywell WS-SNMP-500)	1,579.08	
23 09 23 53-0255 EA WEBStation Software WS-1 And First Copy Of WEBPro Software (Honeywell ZW2000A1003)	4,129.51	
Note: For a single Honeywell WEB NP controller. Excludes software keys for the additional nodes.		
23 09 23 53-0256 EA WEBStation Additional Node (Honeywell ZW2000B1002)	1,579.08	
23 09 23 53-0257 EA WEBStation Software And 20 Pack Of Node Software Keys (Honeywell ZW2000C1001)	26,476.40	
23 09 23 53-0258 EA WEBStation Software And 50 Pack Of Node Software Keys (Honeywell ZW2000D1000)	48,579.91	
23 09 23 53-0259 EA WEBStation Software And 100 Pack Of Node Software Keys (Honeywell ZW2000E1009)	85,014.66	
23 09 23 53-0260 EA Master WEBStation Software For Monitoring Multiple WEBStations (Honeywell ZW2000F1008)	4,372.17	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 09 23 53-0261	EA	Additional Master WEBStation Software Licenses (Honeywell ZW200G1007).....	2,186.08	
23 09 23 53-0262	EA	Additional Copies Of Workplace Pro WP-1 (Web Pro) (Honeywell ZW2001A1001).....	1,734.68	
23 09 23 53-0263	EA	Upgrade Existing NAC To Provide Unrestricted Connected Device Limit (Honeywell WC2003B1055)..... Note: As with other WEBS, capacity is limited by the characteristics of the application including size and complexity.	1,905.53	
23 09 23 53-0264		Initial Database Generation (23 09 23 53-0235)		
23 09 23 53-0265	PNT	Database Generation For Central Plant.....	53.15	
23 09 23 53-0266	PNT	Database Generation For Programmable Controller..... Note: For VAV AHU, large CV AHU, or heat exchanger, etc.	53.15	
23 09 23 53-0267	EA	Database Generation For Application Specific Controller..... Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.	53.15	
23 09 23 53-0268	EA	Replication Of Database Generation For Application Specific Controller..... Note: Price per copy made.	36.99	
23 09 23 53-0269	EA	Database Generation For Remote IO Modules, Sensors, Etcetera.....	36.99	
23 09 23 53-0270		Application Software Programs (23 09 23 53-0235)		
23 09 23 53-0271	EA	Basic Application Program Package..... Note: One per project. Includes program inputs, command priorities, alarms, trends for analog and digital points, energy totalization, schedules, calendars, special events, occupied and unoccupied setpoints, ventilation and recirculation modes, hot water reset program, chilled water reset program, condenser water reset program, and fail-over logic.	2,217.72	
23 09 23 53-0272	EA	Optimum Start/Stop Program..... Note: Priced per controller requiring optimum start programming.	74.13	
23 09 23 53-0273	EA	Duty Cycling Program.....	35.01	
23 09 23 53-0274	EA	Hot Deck/Cold Deck Reset Application Program.....	3,809.97	
23 09 23 53-0275	EA	Boiler Optimization Program.....	4,992.73	
23 09 23 53-0276	EA	Chiller Optimization Program.....	6,763.15	
23 09 23 53-0277	EA	Lighting Control Program.....	3,263.64	
23 09 23 53-0278	EA	Demand Limiting Program..... Note: Priced per controller requiring optimum start programming.	65.02	
23 09 23 53-0279	EA	Email Alarm Server Configuration.....	2,517.76	
23 09 23 53-0280		Color Graphics Generation (23 09 23 53-0235) Note: Priced per page.		
23 09 23 53-0281	EA	Single Site Home Page Graphics Page With HTML Navigation Code.....	1,328.90	
23 09 23 53-0282	EA	Multi Site Home Page Graphics Page With HTML Navigation Code.....	2,359.41	
23 09 23 53-0283	EA	Color Graphics Page For Central Plant.....	603.78	
23 09 23 53-0284	EA	Color Graphics Page For Building Floor Plan.....	557.52	
23 09 23 53-0285	EA	Replication Of Color Graphics Page For Central Plant.....	302.87	
23 09 23 53-0286	EA	Color Graphics Page For Programmable Controller..... Note: For VAV AHU, large CV AHU, or heat exchanger, etc.	679.26	
23 09 23 53-0287	EA	Replication Of Color Graphics Page For Programmable Controller..... Note: Priced per copy made.	145.26	
23 09 23 53-0288	EA	Color Graphics Page For Application Specific Controller..... Note: Price per each VAV box, fan coil unit, unit ventilator or small CV AHU. Task used for the first piece of each equipment.	628.25	
23 09 23 53-0289	EA	Replication Of Color Graphics Page For Application Specific Cont..... Note: Priced per copy made.	62.81	
23 09 23 53-0290		Sensors, Actuators And Control Devices (23 09 23 53-0140) Note: Includes installation, startup, checkout and miscellaneous parts for installation. Excludes conduit, wire and cable. Excludes engineering and programming labor. Each device is considered one control point. No engineering or programming time required for replacement parts.		
23 09 23 53-0291		Special Sensors (23 09 23 53-0290)		
23 09 23 53-0292	EA	Dewpoint Sensor (Honeywell C7232B1014).....	1,306.19	49.03
23 09 23 53-0293	EA	Enthalpy Sensor -25 To 125 F.....	1,362.50	49.03
23 09 23 53-0294	EA	Outdoor Mounted Temperature And Humidity Transmitter (Honeywell H7635C1002).....	629.89	98.06
23 09 23 53-0295	EA	Freezestat (Honeywell L482A1004).....	436.77	163.40
23 09 23 53-0296	EA	Wall Mounted Occupancy Sensor.....	310.20	49.03
23 09 23 53-0297	EA	Ceiling Mounted Occupancy Sensor.....	248.12	49.03
23 09 23 53-0298	EA	I/P Positioner With Gauge.....	291.99	49.03
23 09 23 53-0299	EA	Non Communicating Duct Mounted Smoke Detector With Sampling Tube.....	349.74	49.03
23 09 23 53-0300	EA	EP Transducer.....	291.99	32.71
23 09 23 53-0301	EA	Electric Heat Sequencer.....	464.93	65.35
23 09 23 53-0302		Meters (23 09 23 53-0290)		
23 09 23 53-0303	EA	208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer.....	2,976.56	392.07
23 09 23 53-0304	EA	208 - 480 Volt, Up To 2,400 Amperes, KW/KWh Meter/Current Transformer With LON interface.....	4,328.97	457.40
23 09 23 53-0305	EA	1 To 300 Amperes, Current Transformer For KW Meter.....	1,045.89	163.40
23 09 23 53-0306	EA	300 To 800 Amperes, Current Transformer For KW Meter.....	1,190.97	163.40
23 09 23 53-0307	EA	800 To 2,400 Amperes, Current Transformer For KW Meter.....	1,469.20	163.40
23 09 23 53-0308		Direct Coupled Actuators (23 09 23 53-0290)		



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0309	EA			44 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4105A1002).....	440.32	75.53
23 09 23 53-0310	EA			88 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4110A1200).....	481.20	75.53
23 09 23 53-0311	EA			175 IN-LB, 2 Position, 120 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS4120A1209).....	551.47	75.53
23 09 23 53-0312	EA			44 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8105A1008).....	416.41	75.53
23 09 23 53-0313	EA			88 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8110A1206).....	460.36	75.53
23 09 23 53-0314	EA			175 IN-LB, 2 Position, 24 Volt AC Spring Return Direct Coupled Damper Actuator (Honeywell MS8120A1205).....	503.89	75.53
23 09 23 53-0315	EA			44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator.....	462.77	75.53
23 09 23 53-0316	EA			88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7510A2206).....	525.44	75.53
23 09 23 53-0317	EA			175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Spring Return Direct Coupled Damper Actuator (Honeywell MS7520A2205).....	593.09	75.53
23 09 23 53-0318	EA			44 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7505A2209).....	383.80	75.53
23 09 23 53-0319	EA			88 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC Or Floating Control, Non- Spring Return Direct Coupled Damper Actuator (Honeywell MN7510A2209).....	417.17	75.53
23 09 23 53-0320	EA			175 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6120A1200).....	484.22	75.53
23 09 23 53-0321	EA			175 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7220A2007).....	515.78	75.53
23 09 23 53-0322	EA			300 IN-LB, 24 Volt AC, 4-20 mA, Floating Control, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN6134A10030).....	515.39	75.53
23 09 23 53-0323	EA			300 IN-LB, 24 Volt AC, 4-20mA, 0-10 Volt DC, Non-Spring Return Direct Coupled Damper Actuator (Honeywell MN7234A2008).....	601.93	75.53
23 09 23 53-0324	EA			Pneumatic Spring Return Damper Actuator Without Positive Positioner (Honeywell MP909E1018).....	397.48	75.53
23 09 23 53-0325	EA			Pneumatic Spring Return Damper Actuator With Positive Positioner (Honeywell MP909H1368).....	681.65	75.53
23 09 23 53-0326	EA			Foot Mount Kit With Damper Linkage And Connectors For Direct Coupled Actuator.....	303.94	75.53
23 09 23 53-0327	EA			Direct Coupled Damper Actuator Enclosure For Outdoor Use.....	455.42	75.53
23 09 23 53-0328				Thermostats (23 09 23 53-0140)		
23 09 23 53-0329				Electric And Electronic Thermostats (23 09 23 53-0328)		
				Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as one control point.		
23 09 23 53-0330	EA			Line Voltage 120 Volt, Heat/Cool Thermostat (Honeywell T651A3018).....	137.83	11.88
23 09 23 53-0331	EA			Electronic Non Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell TH5320).....	148.19	11.88
23 09 23 53-0332	EA			Electronic Programmable Heating/Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6110).....	136.68	11.88
23 09 23 53-0333	EA			Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6220).....	152.45	11.88
23 09 23 53-0334	EA			Electronic Programmable Three Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH6320).....	164.30	11.88
23 09 23 53-0335	EA			Electronic Programmable Two Heating/Two Cooling Heat Pump Or Conventional Unit Thermostat (Honeywell TH8321).....	240.25	11.88
23 09 23 53-0336	EA			Humidity Control Electronic Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7351F).....	348.43	11.88
23 09 23 53-0337	EA			Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350H).....	562.32	11.88
23 09 23 53-0338	EA			Modulating Lon Communicating Humidity Control Programmable Heat/Cool Heat Pump Or Conventional Unit Thermostat (Honeywell T7350M).....	599.49	11.88
23 09 23 53-0339				Pneumatic Thermostats (23 09 23 53-0328)		
				Note: Includes installation, startup and checkout labor. Excludes engineering and programming labor. Each thermostat counts as two control point.		
23 09 23 53-0340	EA			Pneumatic Thermostat (Honeywell TP970B2182).....	188.78	11.88
23 09 23 53-0341				Thermostats Guards (23 09 23 53-0328)		
23 09 23 53-0342	EA			9-3/4" x 7-1/4" x 3-3/8" Universal Thermostat Guard (Honeywell TG512A1009).....	46.14	11.88
23 09 23 53-0343	EA			7-1/2" x 6-1/2" x 2-15/16" Universal Thermostat Guard (Honeywell TG511).....	54.77	11.88
23 09 23 53-0344	EA			5-7/8" x 5-7/8" x 2-1/2" Deep Universal Thermostat Guard (Honeywell TG510).....	51.67	11.88
23 09 23 53-0345				Johnson Controls (23 09 23 53)		
23 09 23 53-0346				Software (23 09 23 53-0345)		
				Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0347	EA			5 Concurrent User Application And Data Server (Johnson Controls MS-ADS05U-0).....	11,723.70	
23 09 23 53-0348	EA			10 Concurrent User External Application And Data Server (Johnson Controls MS-ADX10U-0).....	13,862.15	
23 09 23 53-0349	EA			N2 Controllers Commissioning And Download Software (Johnson Controls MW-MTOOL-0).....	699.09	
23 09 23 53-0350	EA			N2 Controllers Download Cable Kit (Johnson Controls AS-CBLPRO-2).....	1,051.51	
23 09 23 53-0351	EA			BACnet FEU Controllers Commissioning And Download Software (Johnson Controls MS-CCTSWO-0).....	1,850.98	
23 09 23 53-0352	EA			BACnet Controllers Download Bluetooth Converter (Johnson Controls MS-BTCVT-0).....	705.06	
23 09 23 53-0353	EA			New User FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-0).....	701.50	
23 09 23 53-0354	EA			Upgrade FX Tools Pro CD-Rom (FX Builder, FX Builder Express, FX CommPro N2, FX CommPro LON, FX CommPro BACnet) Software (Johnson Controls LP-FXTPRO-6).....	265.17	
23 09 23 53-0355				Supervisory Controllers (23 09 23 53-0345)		
23 09 23 53-0356	EA			NAE With 1 RS-485, Support For 50 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE3510-2).....	5,293.20	316.82

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0357 EA NAE With 1 RS-485, Support For 100 Devices (Either N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE4511-2).....	8,113.43	316.82
23 09 23 53-0358 EA NAE With 2 RS-485, Support For 200 Devices (N2 Or BACnet MS/TP) Supervisory Controllers (Johnson Controls MS-NAE5511-1).....	10,939.92	316.82
23 09 23 53-0359 EA NCE, 33 Points, Network Control Engine, 32 N2 Device Support Supervisory Controllers (Johnson Controls MS-NCE2510-0).....	4,206.85	316.82
23 09 23 53-0360 Controllers <small>(23 09 23 53-0345)</small>		
23 09 23 53-0361 EA 10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-FEU1610-0).....	616.51	79.20
23 09 23 53-0362 EA 10 Point Field Equipment Controller With 2 UI, 1 BI, 3 BO, 4 CO, 24 Volt AC And Sensor Actuator Bus, Mounting Base And Integral Display (Johnson Controls MS-FEU1620-0).....	804.57	158.41
23 09 23 53-0363 EA 17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Mounting Base (Johnson Controls MS-FEU2610-0).....	1,065.21	158.41
23 09 23 53-0364 EA 17 Point Field Equipment Controller With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC, Sensor Actuator Bus And Integral Display (Johnson Controls MS-FEU2620-0).....	1,253.26	158.41
23 09 23 53-0365 EA BACnet MS/TP 4-Point I/O Module With 4 BI, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM1710-0).....	508.63	79.20
23 09 23 53-0366 EA BACnet MS/TP 6 Point I/O Module With 2 UI, 2 UO, 2 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM2710-0).....	556.58	79.20
23 09 23 53-0367 EA BACnet MS/TP 12 Point I/O Module With 4 UI, 4 UO, 4 BO, Field Controller Bus And Sensor Actuator Bus Support (Johnson Controls MS-IOM3710-0).....	628.51	79.20
23 09 23 53-0368 EA 17 Point I/O Module With 6 UI, 2 BI, 3 BO, 2 AO, 4 CO, 24 Volt AC And Sensor Actuator Bus With Mounting Base (Johnson Controls MS-IOU4710-0).....	638.09	79.20
23 09 23 53-0369 EA BACnet MS/TP Rooftop Controller For Stand-Alone And Networked Zoning Systems (Johnson Controls TEC2664Z-2).....	1,302.19	158.41
23 09 23 53-0370 EA 32-bit, Integrated VAV Controller/Actuator/DPT, 3 UI, 3 BO, and 2 CO; 24 Volt AC; Field Controller Bus And Sensor Actuator Bus (Johnson Controls MS-VMA1630-0).....	625.95	79.20
23 09 23 53-0371 EA 32-bit, Integrated VAV Controller/Actuator/Pressure Sensor - DPT, 3 UI and 3 BO, 2 CO, 24 Volt AC, and Sensor Actuator Bus (Johnson Controls MS-VMA1930-0).....	900.05	79.20
Note: Includes 6-pin Sensor Port for use with TE-7xx Series Non-Communicating Sensors and two Ethernet Ports for BACnet/IP Communications		
23 09 23 53-0372 Master FX Controllers <small>(23 09 23 53-0345)</small>		
23 09 23 53-0373 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X00-000C).....	1,633.01	158.41
23 09 23 53-0374 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X01-000C).....	1,746.75	158.41
23 09 23 53-0375 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X02-000C).....	1,803.27	158.41
23 09 23 53-0376 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X03-000C).....	1,768.92	158.41
23 09 23 53-0377 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X04-000C).....	1,715.24	158.41
23 09 23 53-0378 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X11-000C).....	1,723.84	158.41
23 09 23 53-0379 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card Without Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X14-000C).....	1,715.24	158.41
23 09 23 53-0380 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X50-000C).....	1,746.87	158.41
23 09 23 53-0381 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, N2 Open Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X51-000C).....	1,845.10	158.41
23 09 23 53-0382 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X52-000C).....	1,910.58	158.41
23 09 23 53-0383 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X53-000C).....	1,877.84	158.41
23 09 23 53-0384 EA 6 AI, 8 DI, 4 AO, 9 DO, 9 Relays, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X54-000C).....	1,810.81	158.41
23 09 23 53-0385 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, No Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X60-000C).....	1,746.87	158.41
23 09 23 53-0386 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, N2 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X61-000C).....	1,845.10	158.41
23 09 23 53-0387 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, LON Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X62-000C).....	1,910.58	158.41
23 09 23 53-0388 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, RS-232 Communication Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X63-000C).....	1,877.84	158.41
23 09 23 53-0389 EA 6 AI, 8 DI, 4 AO, 9 DO, 4 Relays, 5 Triac, BACnet Communications Card With Integral Display, Extended Temperature Range Master Controllers (Johnson Controls LP-FX16X64-000C).....	1,810.81	158.41
23 09 23 53-0390 EA N2 Open Communication Card For FX16 (Johnson Controls LP-NET151-010C).....	195.22	39.60
23 09 23 53-0391 EA LON Communication Card For FX15 and FX16 (Johnson Controls LP-NET152-010C).....	275.80	39.60
23 09 23 53-0392 EA RS-232 Communication Card For FX16 (Johnson Controls LP-NET163-000C).....	217.84	39.60
23 09 23 53-0393 EA BACnet Communications Card For FX16 (Johnson Controls LP-NET164-000C).....	195.22	39.60
23 09 23 53-0394 EA Remote Medium User Interface For FX16 (Johnson Controls LP-DIS60P20-0C).....	538.82	39.60
23 09 23 53-0395 EA Facility Explorer Extension I/O Module (Johnson Controls LP-XT91D00-000C).....	497.37	39.60
23 09 23 53-0396 EA 5 UI, 4 BI, 3 AO, 6 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X01-000C).....	507.07	39.60
23 09 23 53-0397 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO Expansion I/O Module (Johnson Controls LP-XM07X11-000C).....	507.07	39.60
23 09 23 53-0398 EA 5 UI, 4 BI, 3 AO, 6 Relay DO (Manual Overrides For 2 AO And 4 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X51-000C).....	555.55	39.60
23 09 23 53-0399 EA 5 UI, 4 BI, 3 AO, 2 Triac DO, 4 Relay DO (Manual Overrides For 2 AO, 2 Triac DO, And 2 Relay DO) Expansion I/O Module (Johnson Controls LP-XM07X61-000C).....	555.55	39.60
23 09 23 53-0400 EA 6 UI, 12 BI, 4 AO, 9 Relay DO Expansion I/O Module (Johnson Controls LP-XM14X01-000C).....	694.94	39.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0401 EA 6 UI, 12 BI, 4 AO, 4 Triac DO Expansion I/O Module (Johnson Controls LP-XM14X11-000C)	694.94	39.60
23 09 23 53-0402 EA 6 UI, 12 BI, 4 AO, 9 Relay DO (Manual Overrides For 3 AO And 7 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X51-000C)	773.72	39.60
23 09 23 53-0403 EA 6 UI, 12 BI, 4 AO, 4 Triac DO, 5 Relay DO (Manual Overrides For 3 AO, 2 Triac DO, And 5 Relay DO) Expansion I/O Module (Johnson Controls LP-XM14X61-000C)	773.72	39.60
23 09 23 53-0404 VAV, Network And Special Sensors <small>(23 09 23 53-0345)</small>		
23 09 23 53-0405 EA 3" x 4-1/2", Surface Or Box Mounted, LCD RH Display, 3% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHR7001-0)	362.21	25.34
23 09 23 53-0406 EA 3" x 4-1/2", Surface Or Box Mounted, Addressing Switch BACnet Temperature Sensor (Johnson Controls NS-BTN7003-0)	124.42	25.34
23 09 23 53-0407 EA 3" x 4-1/2", Surface Or Box Mounted, 3% RH Accuracy, BACnet Temperature And Humidity Sensor (Johnson Controls NS-BHN7001-0)	281.42	25.34
23 09 23 53-0408 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, 2% RH Accuracy, Occupancy Override, Adjustable Temperature Setpoint Addressing Switch BACnet Temperature And Humidity Sensor (Johnson Controls NS-BPB7003-0)	418.54	25.34
23 09 23 53-0409 EA 3" x 4-1/2", Surface Or Box Mounted, LCD Display, Occupancy Override, Adjustable Temperature Setpoint, BACnet Temperature Sensor (Johnson Controls NS-BTB7001-0)	142.23	25.34
23 09 23 53-0410 EA 3" x 4-1/2", Surface Or Box Mounted CO2 Sensor, 0 To 2,000 ppm (Johnson Controls NS-BCN7004-0)	379.88	25.34
23 09 23 53-0411 Sensors - Hard Wired Type <small>(23 09 23 53-0345)</small>		
23 09 23 53-0412 EA Duct Mount Temperature Sensor, Platinum RT, With Handi-Box (Johnson Controls TFDCR00)	124.79	45.63
23 09 23 53-0413 EA Well Insertion Temperature Sensor, With Stainless 4-1/2" Well (Johnson Controls TIGB1C0)	104.06	25.34
23 09 23 53-0414 EA BACnet MS/TP Networked, Single Stage Thermostat (Johnson Controls TEC2601-2)	283.00	11.88
Note: For fan coil units, unit heaters and single stage packaged heating/cooling equipment.		
23 09 23 53-0415 EA BACnet MS/TP Networked Two Outputs, Dehumidification Capability And Three Speed Fan Control Thermostat (Johnson Controls TEC2616-2)	381.41	11.88
Note: For two or four pipe fan coils, cabinet unit heaters or other equipment using on/off, floating, or proportional 0 to 10 Volt DC control input, three speeds of fan control, and dehumidification capability.		
23 09 23 53-0416 EA BACnet MS/TP Networked Thermostats With Two Outputs (Johnson Controls TEC2627VVT-2)	283.54	11.88
Note: For VVT systems.		
23 09 23 53-0417 EA BACnet MS/TP Zone Controller For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2)	371.10	25.34
23 09 23 53-0418 EA BACnet Zone Controller With Occupancy Sensor For Proportional Zone Damper, On/Off Or Proportional Reheat Control (Johnson Controls TEC2647Z-2+PIR)	456.26	25.34
23 09 23 53-0419 Melink Intelli-Hood IH3 Controls <small>(23 09 23 53)</small>		
23 09 23 53-0420 Kitchen Ventilation Controllers <small>(23 09 23 53-0419)</small>		
23 09 23 53-0421 EA Fully Programmable Kitchen Ventilation Controller (Melink Intelli-Hood 2SYS-3001)	6,117.37	316.82
Note: RS-485 communication protocol supports up to 39 Hood Controllers, 10 graphical user interface devices, 10 auxiliary power supplies, and 10 auxiliary light controllers. Modbus VFD communications interface for support of up to 64 variable frequency drives, programmable I/O points include: 3 digital inputs, 4 digital outputs, 1 analog output, and 1 analog input. BACnet over TCP/IP Interface, Real-Time Clock with battery back-up.		
23 09 23 53-0422 EA Graphical User Interface (Melink Intelli-Hood 2KPD-3001)	1,136.85	65.35
Note: Full color 2.5" display and programming interface device. RS-485 communication protocol for interface with main controller.		
23 09 23 53-0423 EA Hood Controller (Melink Intelli-Hood 2SEN-3001)	1,892.32	263.75
Note: 6 point field I/O device, RS-485 communication protocol, supports up to 4 field temperature sensors and 1 optic sensor system.		
23 09 23 53-0424 Kitchen Ventilation Sensors <small>(23 09 23 53-0419)</small>		
23 09 23 53-0425 EA Duct Mount Stainless Steel RTD (Melink Intelli-Hood 2SEN-3005-Q)	339.86	45.63
Note: Includes UL listed mounting compression fitting, stainless steel probe protection sleeve, RJ-45 communication connector.		
23 09 23 53-0426 EA Optic Sensor System For Detection Of Cooking Effluent (Melink Intelli-Hood 2SEN-3004-28)	2,891.37	253.45
Note: Includes air purge unit, infrared emitter/receiver with stainless steel housings. Auto-calibration, 0.2 second response time, conformal-coated circuit boards, purge pipe assembly complete with UL listed compression fittings, communication interface cables and blower box assembly.		
23 09 23 53-0427 Siemens Controls <small>(23 09 23 53)</small>		
23 09 23 53-0428 EA Concealed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1083)	273.31	11.88
23 09 23 53-0429 EA Exposed Temperature Set Point Adjustment, Electric Line Voltage Heating/Cooling Thermostat (Siemens 134-1085)	194.38	11.88
23 09 23 53-0430 EA SPST/Manual Reset, 1" To 12" Set Point Range, Differential Static Pressure Airflow Switch (Siemens 141-0575)	205.98	53.51
23 09 23 53-0431 EA -0.5" To 0.5" WG, Low Differential Pressure Transmitter (Siemens 141-0591)	306.75	53.51
23 09 23 53-0432 EA Spring Clip Mounting Kit For Thermostat (Siemens 182-685)	46.04	7.92
23 09 23 53-0433 EA Two Position, Pneumatic Circuit, RL243 Switching Relay (Siemens 243-0001)	154.43	79.20
23 09 23 53-0434 EA 3/4" Two Way, Normally Closed, 6.3 Cv, FxF, Brass Trim, Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 260-02012)	257.85	16.77
23 09 23 53-0435 EA 1" Three Way, 10 Cv, FxF, Stainless Steel Trim. Floating, Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 266-02079)	455.33	30.44
23 09 23 53-0436 EA 1" Three Way, 10 Cv, FxF, Brass Trim, 0 To 10 Volt DC, 4 To 20 mA Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 274-03203)	897.97	30.44
23 09 23 53-0437 EA 1-1/4" Two Way, 16 Cv, FxF, Stainless Steel Trim, 0 To 10 Volt DC Electronic Spring Return Actuator, Globe Valve And Actuator Assembly (Siemens 298-03006)	767.26	38.56
23 09 23 53-0438 EA 36" Rigid Probe, 4 To 20 mA, 20 To 120 Degree F Range, Duct Averaging Sensor (Siemens 535-490-36)	204.65	45.63

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0439 EA -58 To 122 Degree F Range, Outside Air Temperature Sensor (Siemens 536-768).....	169.37	25.34
23 09 23 53-0440 EA Unit Conditioner Controller With Secure Mode (Siemens 540-110C).....	905.66	126.73
23 09 23 53-0441 EA 9-Pin, Female To RJ-11 Cable (Siemens 540-143).....	66.55	3.96
23 09 23 53-0442 EA Terminal Box Controller, Electronic Output, For Trane (Siemens 540-800).....	1,037.66	126.73
23 09 23 53-0443 EA MMI Extension Cable (Siemens 545-712).....	166.88	3.96
23 09 23 53-0444 EA Remote Pressure Transmitter (Siemens 547-003).....	866.44	25.34
23 09 23 53-0445 EA Cooling Only, GDE, BACnet Actuating Terminal Equipment Controller (Siemens 550-400).....	575.61	63.37
23 09 23 53-0446 EA BACnet Unit Conditioner Fan Coil Controller (Siemens 550-433).....	469.43	63.37
23 09 23 53-0447 EA Door Lock And Key Assembly (Siemens 567-225).....	26.67	15.84
23 09 23 53-0448 EA Insight Advanced Software Package (Siemens 571-010-381-USB)..... Note: Includes one user license and one sentinel key.	8,747.42	
23 09 23 53-0449 EA BACnet Client Option For Insight Advanced Software Package (Siemens 571-188).....	331.95	
23 09 23 53-0450 EA Soft Controller Option For Insight Advanced Software Package (Siemens 571-620).....	1,945.60	
23 09 23 53-0451 EA 1" Steam, Normally Open, 10 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03059).....	303.23	10.12
23 09 23 53-0452 EA 2" Steam, Normally Open, 40 Cv, Stainless Steel Trim, Class 250 Globe Valve (Siemens 599-03062).....	633.50	17.55
23 09 23 53-0453 EA Firefinder XLS Driver, Modular Equipment Controller With RS-485 BLN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, HOA-Ready (Siemens 986-83481C).....	8,191.60	316.82
23 09 23 53-0454 EA SiPass Driver, Modular Equipment Controller With RS-485 ALN, 8 DI, 8 DO, 8 AI, 8 AO, Point Expansion Support, Modem With HOA (Siemens 986-83482F).....	9,212.50	316.82
23 09 23 53-0455 EA 7" x 13-7/16" x 3-3/4" Weather Shield (Siemens ASK75.3U).....	107.21	11.88
23 09 23 53-0456 EA Two Position, 24 Volt AC/Volt DC, Standard Cabling, Dual Auxillary Switches, Electronic Damper Actuator With Spring Return (Siemens GMA126.1U).....	441.98	75.53
23 09 23 53-0457 EA Modulating, 0 To 10 Volt DC, 24 Volt AC/Volt DC, Standard Cabling, Electronic Damper Actuator With Spring Return (Siemens GMA161.1U).....	459.70	75.53
23 09 23 53-0458 EA License To Enable 4 TX-I/O Modules On The Island Bus And FLN Support On Models PXC36-E.A And PXC36- PE.A (Siemens LSM-36.A).....	2,536.69	
23 09 23 53-0459 EA License To Enable FLN Support On PXC-16 or PXC-24 "F" Models (Siemens LSM-FLN).....	512.22	
23 09 23 53-0460 EA License To Enable FLN Support On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-FLN36.A).....	1,648.55	
23 09 23 53-0461 EA License To Enable BACnet Field Panel Web Server (PXC-36) Or Web Services (PXC-16/24) (Siemens LSM- FPWEB).....	1,180.13	
23 09 23 53-0462 EA License To Enable 4 TX-I/O Modules On The Island Bus On Models PXC36-E.A And PXC36-PE.A (Siemens LSM-IB36.A).....	1,014.50	
23 09 23 53-0463 EA License To Enable SNMP Agent License To Enable SNMP Agent (Siemens LSM-SNMP).....	2,999.32	
23 09 23 53-0464 EA 16-Switch HOA Upgrade Kit (Siemens PXA16-M).....	478.59	1.59
23 09 23 53-0465 EA 16-Switch HOA Upgrade Kit (Extended Temp, UL 916) With HMI Cable (Siemens PXA16-MR).....	533.94	6.34
23 09 23 53-0466 EA 8-Switch HOA Upgrade Kit (Siemens PXA8-M).....	271.34	1.59
23 09 23 53-0467 EA 18" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC18).....	305.57	15.84
23 09 23 53-0468 EA 19" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC19).....	504.49	15.84
23 09 23 53-0469 EA 34" NEMA Type 1 Enclosure (Utility Cabinet) (Siemens PXA-ENC34).....	679.18	15.84
23 09 23 53-0470 EA Serial Cable Required For HOA Or PXM10T/S Connection To Non-Rooftop Variants Of The 16-Point And 24- Point Compact Series (Siemens PXA-HMI.CABLEP5).....	25.43	7.92
23 09 23 53-0471 EA 115 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB115V192VA).....	632.50	39.60
23 09 23 53-0472 EA 115 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB115V384VA).....	917.15	39.60
23 09 23 53-0473 EA 230 Volt, 24 Volt AC, 50/60 Hertz, 192 VA PX Series Service Box (Siemens PXA-SB230V192VA).....	737.37	39.60
23 09 23 53-0474 EA 230 Volt, 24 Volt AC, 50/60 Hertz, 384 VA PX Series Service Box (Siemens PXA-SB230V384VA).....	1,037.02	39.60
23 09 23 53-0475 EA PXC Modular, BACnet/IP Or MS/TP ALN, P1 Or MS/TP FLN, PXX-485.3 Is Also Required As The Connection To The FLN Devices (Siemens PXC00-E96.A).....	4,706.24	443.55
23 09 23 53-0476 EA PXC Modular Series For BACnet Networks, TX-I/O Module, 96 Node (Siemens PXC100-E96.A).....	3,873.59	126.73
23 09 23 53-0477 EA Peer To Peer, TX-I/O, 96 Node, APOGEE Automation System, Programmable Controller - Modular (Siemens PXC100-PE96.A).....	6,235.83	506.90
23 09 23 53-0478 EA 16 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC16.2-E.A).....	2,153.75	237.62
23 09 23 53-0479 EA 16 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC16.2-EF.A).....	2,356.96	237.62
23 09 23 53-0480 EA 16 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC16.2-M.A).....	2,222.32	237.62
23 09 23 53-0481 EA 24 Point, BACnet/IP ALN Compact Programmable Controller (Siemens PXC24.2-E.A).....	2,708.60	253.45
23 09 23 53-0482 EA 24 Point, BACnet/IP ALN, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2-EF.A).....	2,848.92	253.45
23 09 23 53-0483 EA 24 Point, BACnet/IP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-ER.A).....	2,814.11	253.45
23 09 23 53-0484 EA 24 Point, BACnet/IP ALN, Rooftop, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC24.2- ERF.A).....	2,939.82	253.45
23 09 23 53-0485 EA 24 Point, MS/TP ALN Compact Programmable Controller (Siemens PXC24.2-M.A).....	2,810.94	253.45
23 09 23 53-0486 EA 24 Point, MS/TP ALN, Rooftop Compact Programmable Controller (Siemens PXC24.2-MR.A).....	2,938.97	253.45
23 09 23 53-0487 EA 36 Point, BACnet/IP Or MS/TP ALN Compact Programmable Controller (Siemens PXC36-E.A).....	4,393.43	443.55
23 09 23 53-0488 EA 36 Point, BACnet/IP Or MS/TP ALN, Island Bus, P1 Or MS/TP FLN Compact Programmable Controller (Siemens PXC36-EF.A).....	6,948.10	506.90
23 09 23 53-0489 EA License To Enable The Island Bus On PXC00-E96.A and PXC00-PE96.A (Siemens PXF-TXIO.A).....	761.03	
23 09 23 53-0490 EA Controller Mounted Operator Display Module With Point Monitor And Optional Blue Backlight (Siemens PXM10S).....	425.48	31.68
23 09 23 53-0491 EA Controller Mounted Operator Display Module (Siemens PXM10T).....	501.72	63.37
23 09 23 53-0492 EA Provides FLN Support For The PXC Modular (Siemens PXX-485.3)..... Note: Includes Three RS-485 P1 FLN Connections Or One MS/TP FLN Connection, Maximum Of 96 Devices Supported	510.43	15.84
23 09 23 53-0493 EA Full Feature With Display, Override And Temperature Setpoint Adjustment, Room Temperature Sensor, 10K Ohm Type III Thermistor (Siemens QAA22SS.FWSN).....	248.72	45.63
23 09 23 53-0494 EA Digital Temperature Room Unit for TEC, Sensing, Setpoint, Override, Display, No Logo (Siemens QAA2280.FWNC).....	172.39	25.34
23 09 23 53-0495 EA 4" Platinum, 1,000 Ohm, 385 Alpha Probe, Immersion Temperature Sensor (Siemens QAE2012.010).....	110.38	25.34
23 09 23 53-0496 EA 8" Platinum, 1,000 Ohm, 385 Alpha Probe, Duct Temperature Sensor (Siemens QAM2012.020).....	140.05	45.63
23 09 23 53-0497 EA 24" Flexible Averaging Probe (Siemens QAM2012.750).....	224.67	45.63
23 09 23 53-0498 EA 2 Meter Flexible Duct Temperature Sensor With Four Mounting Clamps (Siemens QAM2120.200).....	176.88	45.63
23 09 23 53-0499 EA 10 HP, 240 Volt, NEMA 2 Variable Frequency Drive (Siemens SED2-7.5/22X).....	2,084.21	255.20
23 09 23 53-0500 EA Two Sets, Address Keys 1 - 12, Accessory For TX-I/O Module (Siemens TXA1.K12).....	23.28	7.92
23 09 23 53-0501 EA Labels For HOA And TX-I/O Modules (Siemens TXA1.LLT-P100).....	0.50	
23 09 23 53-0502 EA 16 Digital Input Module (Siemens TXM1.16D).....	398.87	7.92
23 09 23 53-0503 EA 6 Digital Output Relay Points, Manual Override, Digital Output Module (Siemens TXM1.6R-M).....	592.76	7.92
23 09 23 53-0504 EA 8 Universal Points, Local Override/Identification, Digital Output Module (Siemens TXM1.8X-ML).....	938.75	15.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 23 53-0505 EA 1.2 A, 4A Fuse, Power Supply (Siemens TXS1.12F4).....	334.64	25.34
23 09 23 53-0506 Trane Controls (23 09 23 53)		
23 09 23 53-0507 Software (23 09 23 53-0506)		
Note: Excludes programming, set-up and commissioning of application.		
23 09 23 53-0508 EA Summit + Building Management Package (Trane 40201152).....	4,360.56	
23 09 23 53-0509 EA Summit Current Version Software (Trane 40201111).....	2,471.70	
23 09 23 53-0510 EA Summit Customer Upgrade Package, Currently V10-V16 To V17 (Trane 40201113).....	591.45	
23 09 23 53-0511 EA Rover Service Software And Hardware, Complete Kit (Trane X1365150001).....	2,457.97	
23 09 23 53-0512 EA Tracer SC With -X1365152401 - BACnet (2 Pack) (Trane BMSC000AAA011000).....	6,748.69	
23 09 23 53-0513 EMCS Central Equipment And Controllers (23 09 23 53-0506)		
23 09 23 53-0514 EA Summit BTMX Operator Display Upgrade (Trane 40201224).....	3,989.05	316.82
23 09 23 53-0515 EA Summit BTMX Retrofit Kit For BMTS And BMTW BCU (Trane 49500531).....	8,789.16	316.82
23 09 23 53-0516 EA Summit BTMX Retrofit Kit For Tracer 100 (Trane 49500532).....	8,789.16	316.82
23 09 23 53-0517 EA Summit BTMX, 120 Volt, (Trane BMTX-001-A-A-B0-00).....	7,746.88	316.82
23 09 23 53-0518 EA Summit BTMX, 120 Volt, With Display (Trane BMTX-001-A-A-B0-10).....	8,958.72	316.82
23 09 23 53-0519 EA Summit CCP Upgrade ROM Kit (Trane 40201095).....	139.53	19.80
23 09 23 53-0520 EA Summit Comm5 Repeater (Trane 49500457).....	1,078.43	158.41
23 09 23 53-0521 EA AHU Controller MP580/581 E Board Only (Trane 40201157).....	1,808.14	198.01
23 09 23 53-0522 EA AHU Controller MP581 120 Volt AC With Enclosure And Display (Trane BMTM000AAC01).....	2,314.42	237.62
23 09 23 53-0523 EA AHU Controller MP581 120 Volt AC With Enclosure, No Display (Trane BMTM000AAC00).....	1,832.80	237.62
23 09 23 53-0524 EA AHU Controller MP581 Operator Door Display (Trane 40201156).....	1,561.07	237.62
23 09 23 53-0525 EA AHU Controller MP581 Portable, Rugged, With Case (Trane 49500491).....	1,558.98	237.62
23 09 23 53-0526 EA Controller MP503 I/O Module With Metal Enclosure (Trane 49500590).....	694.12	79.20
23 09 23 53-0527 EA Controller MP503 I/O Module With Plastic Cover (Trane 49500490).....	634.25	79.20
23 09 23 53-0528 EA Controller MP581 EX2 Expansion Module With Metal Enclosure (Trane 49500500).....	1,148.81	158.41
23 09 23 53-0529 EA Controller MP581 EX2 Expansion Module With Plastic Cover (Trane 49500499).....	1,099.17	158.41
23 09 23 53-0530 EA 2 Position, FCU Controller ZN511 Zone With Metal Enclosure (Trane 49500569).....	612.32	79.20
23 09 23 53-0531 EA 2 Position, FCU Controller ZN511 Zone With Plastic Cover (Trane 4950-0469).....	540.23	79.20
23 09 23 53-0532 EA 4 Position, FCU Controller ZN517 Zone With Metal Enclosure (Trane 49500596).....	789.70	79.20
23 09 23 53-0533 EA 4 Position, FCU Controller ZN517 Zone With Plastic Cover (Trane 49500496).....	718.01	79.20
23 09 23 53-0534 EA Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 4950049).....	618.74	79.20
23 09 23 53-0535 EA Modulating FCU Controller ZN520 Zone With Plastic Cover (Trane 49500496).....	590.94	79.20
23 09 23 53-0536 EA Modulating Tri ST FCU Controller ZN521 Zone With Metal Cover (Trane 49500570).....	675.74	79.20
23 09 23 53-0537 EA Modulating Tri ST FCU Controller ZN521 Zone With Plastic Cover (Trane 49500470).....	618.74	79.20
23 09 23 53-0538 EA DDC VAV Retrofit Kit (Trane VRTODD01).....	877.54	158.41
23 09 23 53-0539 EA DDC VAV Retrofit Kit With Belimo Actuator (Trane VRTODD01BLMO).....	948.44	158.41
23 09 23 53-0540 Network, VAV And Special Sensors (23 09 23 53-0506)		
23 09 23 53-0541 EA Digital Display Zone Sensor (Trane X13790464010).....	145.09	25.34
23 09 23 53-0542 EA Single Setpoint Wall Mounted Zone Temperature Sensor (Trane X13511529010).....	98.63	25.34
23 09 23 53-0543 EA Wall Mounted Zone Temperature-Only Sensor (Trane X13511528010).....	90.80	25.34
23 09 23 53-0544 EA Ceiling Mount Zone Occupancy Sensor (Trane X13790421-01).....	178.19	28.52
23 09 23 53-0545 EA Zone LCD O/C Setpoint, 3 Speed Fan (Trane 41901121).....	109.32	25.34
23 09 23 53-0546 EA Zone Sensor LCD O/C Setpoint (Trane 41901120).....	109.32	25.34
23 09 23 53-0547 EA Duct CO2 Sensor, 0 To 2,000 ppm (Trane X13790423010).....	372.09	45.63
23 09 23 53-0548 EA Room CO2 Sensor, 0 To 2,000 ppm (Trane X13790422010).....	337.09	25.34
23 09 23 53-0549 EA Transformer 120/24 40 VA (Trane X13550284010).....	86.88	25.34
23 09 23 53-0550 EA Transformer 24 Volt AC Wall Plug-In (Trane 35803005).....	84.08	25.34
23 09 23 53-0551 EA Transformer UL Listed 120 Volt AC, 40 VA (Trane 35812022).....	79.60	25.34
23 09 23 53-0552 EA Controller UC400 VAV Kit With Enclosure, And Belimo (Trane 5189454010).....	977.04	158.41
23 09 23 53-0553 EA Controller UC400 VAV Kit With Enclosure, No Actuator (Trane 5189456010).....	938.79	158.41
23 09 23 53-0554 EA Controller UC400 XM32 Module (4 Relay) (Trane X13651563010).....	859.08	158.41
23 09 23 53-0555 EA Controller UC400 XM70 (8UI,6UI/AO,4R,1P) (Trane X13651568010).....	1,516.33	237.62
23 09 23 53-0556 EA Controller UC400 XM30 I/O Module (4 UI/AO) (Trane X13651537010).....	859.08	158.41
23 09 23 53-0557 EA Controller UC210 VAV With Belimo Actuator (Trane BMUC210AAA0B00011).....	899.46	158.41
23 09 23 53-0558 EA Controller UC210 VAV Without Actuator (Trane BMUC210AAA0100011).....	902.74	158.41
23 09 23 53-0559 EA Controller Optional Metal Enclosure, UC210 (Trane 501898).....	334.90	157.73
23 09 23 53-0560 EA Controller UC400 PM14 24 Volt AC To 1.4 Amperes, 24 Volt DC (Trane X1365153801).....	469.72	157.73
23 09 23 53-0561 EA Controller Tracer UC600 Controller (Trane BMUC600AAA0100011).....	1,685.93	237.62
23 09 23 53-0562 EA Controller UC600 Tracer TD7 Display (Trane X13651571010).....	1,624.36	237.62
23 09 23 53-0563 EA Controller UC600 TD7 Mounting Bracket (Trane X05010511010).....	100.87	31.56
23 09 23 53-0564 EA Controller UC400 13" DIN Rail Enclosure, 120 Volt (Trane X13651559010).....	352.83	31.56
23 09 23 53-0565 EA SC 24" DIN Rail Enclosure, 120 Volt (Trane X13651552010).....	1,723.99	237.62
23 09 23 53-0566 EA BACnet Term (2 Pack) (Trane X1365152401).....	161.40	56.79
23 09 23 53-0567 EA Tracer ES Add License (Trane X40250125010).....	2,081.15	
23 09 23 53-0568 EA Kit - Tracer TU For Controls (Trane X4509151201).....	3,116.68	316.82
23 09 23 53-0569 EA Kit - Tracer TU Complete (Trane X4509151301).....	4,054.83	316.82
23 09 23 53-0570 EA Tracer TU Adapter Wired/Wireless (Trane X13651529010).....	398.73	56.79
23 09 23 53-0571 EA Sensor Wireless Zone Sensor, Fahrenheit (Trane X13790492010).....	233.61	56.79
23 09 23 53-0572 EA Sensor Wireless Display Sensor (Trane X13790822010).....	262.71	56.79
23 09 23 53-0573 EA Sensor Wireless Receiver, 100mW (Trane X13790854010).....	236.40	56.79
23 09 23 53-0574 EA Sensor Wireless Comm Interface (WCI) Indoor, 100mW (Trane X13790901010).....	316.83	56.79
23 09 23 53-0575 EA Sensor Wireless Comm Interface (WCI) Outdoor, 100mW (Trane X13790941010).....	344.24	56.79

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 09 Instrumentation And Control For HVAC****23 09 23 Direct-Digital Control System For HVAC**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 09 23 53-0576		Control Sensors, Meters, Relays, Power Supplies, Valves, Dampers And Actuators <small>(23 09 23 53)</small>		
23 09 23 53-0577		Room Pressure Monitoring <small>(23 09 23 53-0576)</small>		
23 09 23 53-0578	EA	Hospital Room Pressure Monitor With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8640-PM)	2,016.62	45.78
23 09 23 53-0579	EA	Hospital Room Pressure Controller With Digital Interface Monitor, Through Wall Sensor Transformer And Plenum Rated Cable (TSI 8630-PC)	3,230.35	45.78
		Note: Excludes dampers and actuators.		
23 09 23 53-0580	EA	Hospital Room Pressure Status Remote Visual Display (TSI 8694-4)	261.53	27.46
23 09 23 53-0581	EA	Hospital Room Pressure Status Remote Negative/Neutral Key Switch (TSI 8694-7)	300.27	27.46
23 09 23 53-0582		Current Switches And Current Sensors <small>(23 09 23 53-0576)</small>		
23 09 23 53-0583	EA	Up To 20 Amperes, 0 To 5 Volt DC, Current Sensor (Senva C-1203)	92.48	25.34
23 09 23 53-0584	EA	Up To 20 Amperes, 4-20mA, Current Sensor (Senva C-1205)	95.84	25.34
23 09 23 53-0585	EA	0.5 To 135 Amperes Range, Split Core, VFD Current Switch (Senva C-2350VFD-L)	145.09	25.34
23 09 23 53-0586	EA	0.15 To 100 Amperes Range, Split Core, Current Switch With NC Command Relay (Senva C-2300 And CR4-24)	88.00	25.34
23 09 23 53-0587	EA	0 To 50/100/200 Amperes (Selectable), 4-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970HCA)	259.28	25.34
23 09 23 53-0588	EA	0 To 20/40/80 Amperes (Selectable), 0-20mA, 0 To 5 Volt DC, Split Core, DC Current Sensor (Veris H970LCC)	167.29	25.34
23 09 23 53-0589	EA	1 To 135 Amperes, N.O. Contact, 1 Ampere At 110 Volts, Current Switch (Veris H709)	128.96	25.34
23 09 23 53-0590	EA	0 To 10/20/40 Amperes, 4-20mA Analog Output, Solid Core, Loop Powered, Current Switch (Veris H721)	128.96	25.34
23 09 23 53-0591	EA	Energy Meter H8163 Series, With BACnet Output (Veris H8186-CB-BAC)	3,339.61	126.73
23 09 23 53-0592	EA	100 Amperes, Modbus RTU, Power Transducer (Veris H8035-0100-2)	847.80	25.34
		Note: 3 phase networked transducer.		
23 09 23 53-0593	EA	2,400 Amperes, Three Current Switches, Pulse Output, Phase Loss Alarm Output, Energy Meter (Veris H8163-2400-4-3)	1,285.86	25.34
23 09 23 53-0594	EA	Up To 20 Amperes, 0-5 Volt DC, Current Transducer (Kele 4CTV)	137.97	25.34
23 09 23 53-0595	EA	Solid Core Fixed Setpoint Digital Output Current Switch (Veris H-800)	212.49	67.32
23 09 23 53-0596	EA	Split Core Fixed Setpoint Digital Output Current Switch (Veris H-900)	212.76	67.32
23 09 23 53-0597	EA	Solid Core Adjustable Setpoint Digital Output Current Sensor (Veris H-708)	226.19	67.32
23 09 23 53-0598	EA	Split Core Adjustable Setpoint Digital Output Current Sensor (Veris H-908)	229.55	67.32
23 09 23 53-0599	EA	Solid And Split Core Adjustable Setpoint Digital Output VFD Current Switch (Veris H-904)	248.58	67.32
23 09 23 53-0600	EA	Toggle Switch	87.71	31.68
23 09 23 53-0601	EA	Maintained Pushbutton Switch	93.19	31.68
23 09 23 53-0602	EA	Manual Time Switch	144.87	31.68
23 09 23 53-0603	EA	Emergency Stop Switch	237.28	31.68
23 09 23 53-0604	EA	Float Switch	236.24	31.68
23 09 23 53-0605	EA	Break Glass Switch	748.41	31.68
23 09 23 53-0606	EA	Boiler E-Stop Switch	474.90	31.68
23 09 23 53-0607		Relays <small>(23 09 23 53-0576)</small>		
23 09 23 53-0608	EA	DPDT, 24 Volt AC, Blade, Standard Relay (Kele RH2B-UAC24V)	77.36	25.34
23 09 23 53-0609	EA	SPDT, 24 Volt AC/Volt DC, 120 Volt AC Multi-Voltage Relay Module (Kele PAM-1)	84.25	25.34
23 09 23 53-0610	EA	SPDT, 24 Volt AC/Volt DC, 120 Volt AC Power Relay (Kele RIB2401B)	118.23	31.68
		Note: Box type.		
23 09 23 53-0611	EA	Motor Starter Interface, 300msec Pulse (Kele PIL-2)	146.01	25.34
23 09 23 53-0612	EA	DP Relay Socket, DIN Rail Mounted (Kele SH2B-05)	72.37	25.34
23 09 23 53-0613	EA	SP Relay Socket, DIN Rail Mounted (Kele SH1B-05)	71.36	25.34
23 09 23 53-0614	EA	SPDT, 24 Volt AC, Blade, Standard Relay (Kele RH1B-UAC24V)	77.36	25.34
23 09 23 53-0615	EA	DPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH2B-ULAC24V)	80.51	25.34
23 09 23 53-0616	EA	SPDT, 24 Volt AC, Blade, Indicator Light Relay (Kele RH1B-ULAC24V)	81.37	25.34
23 09 23 53-0617	EA	SPDT Pilot Relay, Universal (Kele RIBU1C)	89.22	31.68
		Note: Box type.		
23 09 23 53-0618	EA	SPST Pilot Relay With HOA Switch (Kele RIBU1S)	117.32	31.68
		Note: Box type.		
23 09 23 53-0619	EA	SPDT 3 Phase Line Voltage Monitor, .1-5 Minute Delay On Break Timer (ICM400)	203.98	31.68
23 09 23 53-0620	EA	SPDT 3-Phase Line Voltage Monitor, 0-10 Minute Delay On Break Timer (ICM450)	202.74	31.68
23 09 23 53-0621		Transformers <small>(23 09 23 53-0576)</small>		
23 09 23 53-0622	EA	50 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X050CBA)	91.74	25.34
23 09 23 53-0623	EA	75 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X075CAB)	99.55	25.34
23 09 23 53-0624	EA	75 VA, 120/208/240/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X075CBA)	99.55	25.34
23 09 23 53-0625	EA	100 VA, 120-24 Volt AC, CB Foot And Dual Hub Control Transformer (Veris X100CAB)	106.63	25.34
23 09 23 53-0626	EA	100 VA, 120/240/277/480-24 Volt AC, CB Foot And Single Hub Control Transformer (Veris X100CBA)	110.98	25.34
23 09 23 53-0627		Power Supplies <small>(23 09 23 53-0576)</small>		
23 09 23 53-0628	EA	Solid Core Current Operated Switch, Terminals, Adjustable Trip, 0.5-150A, SPST (Kele RIBXKTA)	135.70	25.34
23 09 23 53-0629	EA	AC/DC Power Supply, 1.2 Amperes At 24 Volts Output (Kele DCPA-1.2)	157.39	25.34
23 09 23 53-0630	EA	DC Power Supply, 5 Volt DC And 24 Volt DC Output (Kele DCP-524)	147.61	25.34
23 09 23 53-0631	EA	DC Power Supply, 24 Volt DC, DIN Rail Mounted (Kele DCP-250-D)	152.24	25.34
23 09 23 53-0632	EA	DC Power Supply, 24 Volt DC, Hub Mounted (Kele DCP-250-H)	148.12	25.34
23 09 23 53-0633	EA	DC Power Supply, 24 Volt DC, Panel Mounted (Kele DCP-250-P)	155.01	25.34
23 09 23 53-0634	EA	DC Power Supply, 24 Volt AC In To Custom DC Out, At 1.5 Amperes (Kele DCP-1.5-W-C)	117.06	25.34

23 09 43 Pneumatic Control System For HVAC (23 09)



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 09 43 00-0001	Pneumatic Tubing For HVAC Instrumentation and Control Devices (23 09 43)			
23 09 43 00-0002	Polyurethane Pneumatic Tubing (23 09 43 00-0001)			
23 09 43 00-0003	LF	1/4" Outside Diameter x 1/32" Thick Wall Polyurethane Pneumatic Tubing.....	1.92	0.79
23 09 43 00-0004	LF	5/32" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing.....	2.32	0.81
23 09 43 00-0005	LF	3/8" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing.....	2.90	0.84
23 09 43 00-0006	LF	1/2" Outside Diameter x 1/16" Thick Wall Polyurethane Pneumatic Tubing.....	3.56	0.86
23 09 43 00-0007	Fire Resistant Polyethylene Pneumatic Tubing (23 09 43 00-0001)			
23 09 43 00-0008	LF	1/4" Outside Diameter x .040" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	1.76	0.79
23 09 43 00-0009	LF	5/32" Outside Diameter x .030" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	1.87	0.81
23 09 43 00-0010	LF	3/8" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	2.09	0.84
23 09 43 00-0011	LF	1/2" Outside Diameter x .062" Thick Wall Fire Resistant Polyethylene Pneumatic Tubing.....	2.49	0.86
23 09 43 00-0012	Nylon Pneumatic Tubing (23 09 43 00-0001)			
23 09 43 00-0013	LF	1/8" Outside Diameter x .016" Thick Wall Nylon Pneumatic Tubing.....	1.98	0.77
23 09 43 00-0014	LF	1/4" Outside Diameter x .035" Thick Wall Nylon Pneumatic Tubing.....	2.50	0.79
23 09 43 00-0015	LF	3/8" Outside Diameter x .050" Thick Wall Nylon Pneumatic Tubing.....	3.57	0.84
23 09 43 00-0016	LF	1/2" Outside Diameter x .062" Thick Wall Nylon Pneumatic Tubing.....	4.45	0.86
23 09 43 00-0017	Flexible Vinyl Pneumatic Tubing (23 09 43 00-0001)			
23 09 43 00-0018	LF	1/4" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	1.96	0.79
23 09 43 00-0019	LF	3/8" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	2.92	0.84
23 09 43 00-0020	LF	1/2" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	3.43	0.86
23 09 43 00-0021	LF	5/8" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	4.09	0.90
23 09 43 00-0022	LF	3/4" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	4.57	0.92
23 09 43 00-0023	LF	1" Outside Diameter Flexible Vinyl Pneumatic Tubing.....	6.08	0.94
23 09 43 00-0024	Braided Vinyl Pneumatic Tubing (23 09 43 00-0001)			
23 09 43 00-0025	LF	5/8" Outside Diameter Braided Vinyl Pneumatic Tubing.....	2.55	0.90
23 09 43 00-0026	LF	3/4" Outside Diameter Braided Vinyl Pneumatic Tubing.....	2.89	0.92
23 09 43 00-0027	LF	1" Outside Diameter Braided Vinyl Pneumatic Tubing.....	3.50	0.94
23 09 43 00-0028	Copper Pneumatic Tubing (23 09 43 00-0001)			
23 09 43 00-0029	LF	1/4" Outside Diameter Copper Pneumatic Tubing.....	3.95	1.72
23 09 43 00-0030	LF	3/8" Outside Diameter Copper Pneumatic Tubing.....	4.70	1.97
23 09 43 00-0031	LF	1/2" Outside Diameter Copper Pneumatic Tubing.....	5.44	2.27
23 09 43 00-0032	LF	5/8" Outside Diameter Copper Pneumatic Tubing.....	6.53	2.62
23 09 43 00-0033	LF	3/4" Outside Diameter Copper Pneumatic Tubing.....	7.47	3.01
23 09 43 00-0034	Brass Couplings (23 09 43 00-0001)			
23 09 43 00-0035	Straight Brass Couplings (23 09 43 00-0034) Note: Barb x Barb			
23 09 43 00-0036	EA	1/4" x 1/4" Straight Brass Coupling.....	9.20	4.33
23 09 43 00-0037	EA	3/8" x 1/4" Straight Brass Coupling.....	9.28	4.33
23 09 43 00-0038	EA	3/8" x 3/8" Straight Brass Coupling.....	9.37	4.33
23 09 43 00-0039	Elbow Brass Couplings (23 09 43 00-0034) Note: Barb x Barb			
23 09 43 00-0040	EA	1/4" x 1/4" Elbow Brass Coupling.....	9.67	4.33
23 09 43 00-0041	EA	3/8" x 3/8" Elbow Brass Coupling.....	9.95	4.33
23 09 43 00-0042	Tee Brass Couplings (23 09 43 00-0034) Note: Barb x Barb			
23 09 43 00-0043	EA	1/4" x 1/4" x 1/4" Tee Brass Coupling.....	14.81	6.75
23 09 43 00-0044	EA	3/8" x 3/8" x 1/4" Tee Brass Coupling.....	16.79	7.23
23 09 43 00-0045	EA	3/8" x 3/8" x 3/8" Tee Brass Coupling.....	16.49	7.23
23 10	Facility Fuel Systems (23)			
23 11	Facility Fuel Piping (23 10)			
23 11 23	Facility Natural-Gas Piping (23 11)			
23 11 23 00-0001	Corrugated Stainless Steel Tubing (CSST), Flexible Gas Piping (23 11 23)			
23 11 23 00-0002	Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001) Note: Includes UV resistant polyethylene jacket. Excludes fittings and pipe hangers.			
23 11 23 00-0003	LF	3/8" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	5.10	1.69
23 11 23 00-0004	LF	1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	5.60	1.83

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0005 LF 3/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	6.69	1.98
23 11 23 00-0006 LF 1" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	8.43	2.09
23 11 23 00-0007 LF 1-1/4" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	9.91	2.20
23 11 23 00-0008 LF 1-1/2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	15.01	2.29
23 11 23 00-0009 LF 2" Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	20.30	2.44
23 11 23 00-0010 Fittings And Accessories For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0001)		
23 11 23 00-0011 Male Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0012 EA 3/8" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	24.32	
23 11 23 00-0013 EA 3/8" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	24.32	
23 11 23 00-0014 EA 1/2" x 3/8", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	26.07	
23 11 23 00-0015 EA 1/2" x 1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	26.07	
23 11 23 00-0016 EA 3/4" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	31.27	
23 11 23 00-0017 EA 1" x 3/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	42.84	
23 11 23 00-0018 EA 1" x 1", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	42.84	
23 11 23 00-0019 EA 1-1/4" x 1-1/4", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	72.35	
23 11 23 00-0020 EA 1-1/2" x 1-1/2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	131.89	
23 11 23 00-0021 EA 2" x 2", (CSST x Threaded) Male Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	213.16	
23 11 23 00-0022 Female Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0023 EA 3/8" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	23.56	
23 11 23 00-0024 EA 1/2" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	26.07	
23 11 23 00-0025 EA 1/2" x 3/8", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	26.07	
23 11 23 00-0026 EA 3/4" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	31.27	
23 11 23 00-0027 EA 3/4" x 1/2", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	31.27	
23 11 23 00-0028 EA 1" x 3/4", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	40.99	
23 11 23 00-0029 EA 1" x 1", (CSST x Threaded) Female Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	40.99	
23 11 23 00-0030 Reducing Adaptors For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0031 EA 3/4" x 1/2", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	31.72	
23 11 23 00-0032 EA 1" x 3/4", (CSST x Threaded) Reducing Adaptor For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	41.67	
23 11 23 00-0033 Couplings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0034 EA 3/8" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	32.50	
23 11 23 00-0035 EA 1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	36.04	
23 11 23 00-0036 EA 3/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	45.14	
23 11 23 00-0037 EA 1" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	64.49	
23 11 23 00-0038 EA 1-1/4" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	120.21	
23 11 23 00-0039 EA 1-1/2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	234.04	
23 11 23 00-0040 EA 2" Coupling For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	388.20	
23 11 23 00-0041 Tees For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0042 EA 1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	44.99	
23 11 23 00-0043 EA 3/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	72.00	
23 11 23 00-0044 EA 1" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	113.66	
23 11 23 00-0045 EA 1-1/4" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	195.04	
23 11 23 00-0046 EA 1-1/2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	209.69	
23 11 23 00-0047 EA 2" Tee For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	240.67	
23 11 23 00-0048 Indoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe (23 11 23 00-0010)		
23 11 23 00-0049 EA 3/8" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	29.23	
23 11 23 00-0050 EA 1/2" x 1/2", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	30.24	
23 11 23 00-0051 EA 3/4" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe	32.89	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0052	EA	1" x 3/4", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	44.07	
23 11 23 00-0053	EA	1" x 1", (CSST x Threaded) Indoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	44.70	
23 11 23 00-0054		Outdoor Termination Fittings For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0055	EA	3/8" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	32.16	
23 11 23 00-0056	EA	1/2" x 1/2", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	33.05	
23 11 23 00-0057	EA	3/4" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	38.85	
23 11 23 00-0058	EA	1" x 3/4", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	45.74	
23 11 23 00-0059	EA	1" x 1", (CSST x Threaded) Outdoor Termination Fitting For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	45.74	
23 11 23 00-0060		Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0061	EA	3/8" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	50.87	
23 11 23 00-0062	EA	1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	52.16	
23 11 23 00-0063	EA	3/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	54.68	
23 11 23 00-0064	EA	1" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	86.28	
23 11 23 00-0065	EA	1-1/4" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	89.57	
23 11 23 00-0066	EA	1-1/2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	128.72	
23 11 23 00-0067	EA	2" Indoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	159.83	
23 11 23 00-0068		Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0069	EA	3/8" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	53.72	
23 11 23 00-0070	EA	1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	54.95	
23 11 23 00-0071	EA	3/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	60.54	
23 11 23 00-0072	EA	1" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	108.69	
23 11 23 00-0073	EA	1-1/4" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	112.16	
23 11 23 00-0074	EA	1-1/2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	153.91	
23 11 23 00-0075	EA	2" Outdoor Floor Flange Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	193.95	
23 11 23 00-0076		Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0077	EA	1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	31.02	
23 11 23 00-0078	EA	3/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	33.47	
23 11 23 00-0079	EA	1" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	50.63	
23 11 23 00-0080	EA	1-1/4" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	77.65	
23 11 23 00-0081	EA	1-1/2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	150.29	
23 11 23 00-0082	EA	2" Indoor Bracket Termination Assembly For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	238.90	
23 11 23 00-0083		Stub-Outs For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
		Note: Includes mounting plate.		
23 11 23 00-0084	EA	1/2" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	26.77	
23 11 23 00-0085	EA	3/4" Appliance Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	29.18	
23 11 23 00-0086	EA	1/2" Fireplace Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	26.80	
23 11 23 00-0087	EA	1/2" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	26.89	
23 11 23 00-0088	EA	3/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	28.04	
23 11 23 00-0089	EA	1" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	33.28	
23 11 23 00-0090	EA	1-1/4" Meter Stub-Out For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	39.97	
23 11 23 00-0091		Flush Mount Gas Valve Kits For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
		Note: Includes flush fitting plastic valve box and 90 degree brass shut-off valve.		
23 11 23 00-0092	EA	1/2" x 1/2", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	75.52	17.75
23 11 23 00-0093	EA	3/4" x 3/4", (CSST x Threaded) Flush Mount Gas Valve Kit For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	85.25	18.64

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 11 23 00-0094		Shut-Off Valves For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0095	EA	3/8" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	54.30	15.53
23 11 23 00-0096	EA	1/2" x 1/2", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	63.19	18.46
23 11 23 00-0097	EA	3/4" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	77.52	22.19
23 11 23 00-0098	EA	1" x 3/4", (CSST x Threaded) Shut-Off Valve For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	97.05	29.64
23 11 23 00-0099		Manifolds For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
		Note: Includes mounting hardware.		
23 11 23 00-0100	EA	1/2" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	66.66	18.46
23 11 23 00-0101	EA	3/4" Inlet, Three 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	75.70	22.19
23 11 23 00-0102	EA	1/2" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	71.35	18.46
23 11 23 00-0103	EA	3/4" Inlet, Four 1/2" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	78.74	22.19
23 11 23 00-0104	EA	2" x 1-1/2" Inlet, Four 1" Outlets, Manifold For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	150.70	55.47
23 11 23 00-0105		Pressure Regulators For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe <small>(23 11 23 00-0010)</small>		
23 11 23 00-0106	EA	1/2" Port, 250 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	70.45	18.46
23 11 23 00-0107	EA	1/2" Port, 355 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	70.45	18.46
23 11 23 00-0108	EA	1/2" Port, 425 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	98.49	18.46
23 11 23 00-0109	EA	3/4" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	105.88	22.19
23 11 23 00-0110	EA	3/4" Port, 810 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	105.88	22.19
23 11 23 00-0111	EA	1" Port, 550 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	120.67	29.64
23 11 23 00-0112	EA	1-1/4" Port, 1,000 MBTU Pressure Regulator For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	180.02	33.28
23 11 23 00-0113	EA	1/2" Port, 200 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	93.53	18.46
23 11 23 00-0114	EA	3/4" Port, 425 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	232.86	22.19
23 11 23 00-0115	EA	1-1/4" Port, 900 MBTU Pressure Regulator With Over Pressure Protection Device For Corrugated Stainless Steel Tubing (CSST), Flexible Gas Pipe.....	565.41	33.28
23 11 23 00-0116		Polymer Coated Stainless Steel, Flexible Gas Appliance Connectors (Brass Craft) <small>(23 11 23)</small>		
23 11 23 00-0117		3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0118	EA	12" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-12).....	42.79	13.31
23 11 23 00-0119	EA	18" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-18).....	47.57	14.20
23 11 23 00-0120	EA	24" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-24).....	52.12	14.20
23 11 23 00-0121	EA	30" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-30).....	54.88	15.09
23 11 23 00-0122	EA	36" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-36).....	58.47	15.09
23 11 23 00-0123	EA	48" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-48).....	66.97	15.98
23 11 23 00-0124	EA	60" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-60).....	74.64	15.98
23 11 23 00-0125	EA	72" Length, 3/4" MIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC11-72).....	82.22	16.86
23 11 23 00-0126		3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0127	EA	12" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-12).....	42.79	13.31
23 11 23 00-0128	EA	18" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-18).....	47.57	14.20
23 11 23 00-0129	EA	24" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-24).....	52.12	14.20
23 11 23 00-0130	EA	30" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-30).....	54.88	15.09
23 11 23 00-0131	EA	36" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-36).....	58.47	15.09
23 11 23 00-0132	EA	48" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-48).....	66.97	15.98
23 11 23 00-0133	EA	60" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-60).....	74.64	15.98
23 11 23 00-0134	EA	72" Length, 3/4" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC14-72).....	82.22	16.86
23 11 23 00-0135		3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0136 EA 12" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-12).....	42.79	13.31
23 11 23 00-0137 EA 18" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-18).....	47.57	14.20
23 11 23 00-0138 EA 24" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-24).....	52.12	14.20
23 11 23 00-0139 EA 30" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-30).....	54.88	15.09
23 11 23 00-0140 EA 36" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-36).....	58.47	15.09
23 11 23 00-0141 EA 48" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-48).....	66.97	15.98
23 11 23 00-0142 EA 60" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-60).....	74.64	15.98
23 11 23 00-0143 EA 72" Length, 3/4" MIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC15-72).....	82.22	16.86
23 11 23 00-0144 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0145 EA 12" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-12).....	42.79	13.31
23 11 23 00-0146 EA 18" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-18).....	47.57	14.20
23 11 23 00-0147 EA 24" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-24).....	64.40	14.20
23 11 23 00-0148 EA 30" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-30).....	54.88	15.09
23 11 23 00-0149 EA 36" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-36).....	58.47	15.09
23 11 23 00-0150 EA 48" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-48).....	66.97	15.98
23 11 23 00-0151 EA 60" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-60).....	74.64	15.98
23 11 23 00-0152 EA 72" Length, 3/4" FIP x 3/4" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC21-72).....	82.22	16.86
23 11 23 00-0153 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0154 EA 12" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-12).....	47.52	13.31
23 11 23 00-0155 EA 18" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-18).....	53.45	14.20
23 11 23 00-0156 EA 24" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-24).....	52.12	14.20
23 11 23 00-0157 EA 30" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-30).....	62.38	15.09
23 11 23 00-0158 EA 36" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-36).....	58.47	15.09
23 11 23 00-0159 EA 48" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-48).....	66.97	15.98
23 11 23 00-0160 EA 60" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-60).....	74.64	15.98
23 11 23 00-0161 EA 72" Length, 3/4" FIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC22-72).....	82.22	16.86
23 11 23 00-0162 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0163 EA 12" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-12).....	42.79	13.31
23 11 23 00-0164 EA 24" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-24).....	59.07	14.20
23 11 23 00-0165 EA 30" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-30).....	54.88	15.09
23 11 23 00-0166 EA 36" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-36).....	58.47	15.09
23 11 23 00-0167 EA 48" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-48).....	66.97	15.98
23 11 23 00-0168 EA 60" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-60).....	87.15	15.98
23 11 23 00-0169 EA 72" Length, 3/4" FIP Elbow x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC23-72).....	82.22	16.86
23 11 23 00-0170 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0171 EA 12" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-12).....	42.79	13.31
23 11 23 00-0172 EA 18" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-18).....	47.57	14.20

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0173	EA	24" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-24).....	52.12	14.20
23 11 23 00-0174	EA	30" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-30).....	54.88	15.09
23 11 23 00-0175	EA	36" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-36).....	58.47	15.09
23 11 23 00-0176	EA	48" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-48).....	66.97	15.98
23 11 23 00-0177	EA	60" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-60).....	74.64	15.98
23 11 23 00-0178	EA	72" Length, 3/4" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC24-72).....	82.22	16.86
23 11 23 00-0179		3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0180	EA	12" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-12).....	42.79	13.31
23 11 23 00-0181	EA	18" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-18).....	47.57	14.20
23 11 23 00-0182	EA	24" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-24).....	52.12	14.20
23 11 23 00-0183	EA	30" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-30).....	54.88	15.09
23 11 23 00-0184	EA	36" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-36).....	58.47	15.09
23 11 23 00-0185	EA	48" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-48).....	66.97	15.98
23 11 23 00-0186	EA	60" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-60).....	74.64	15.98
23 11 23 00-0187	EA	72" Length, 3/4" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC25-72).....	82.22	16.86
23 11 23 00-0188		3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0189	EA	18" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-18).....	53.45	14.20
23 11 23 00-0190	EA	24" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-24).....	52.12	14.20
23 11 23 00-0191	EA	30" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-30).....	62.38	15.09
23 11 23 00-0192	EA	36" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-36).....	66.77	15.09
23 11 23 00-0193	EA	48" Length, 3/4" FIP Elbow x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC34-48).....	77.51	15.98
23 11 23 00-0194		1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0195	EA	12" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-12).....	42.79	13.31
23 11 23 00-0196	EA	18" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-18).....	47.57	14.20
23 11 23 00-0197	EA	24" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-24).....	47.21	14.20
23 11 23 00-0198	EA	30" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-30).....	54.88	15.09
23 11 23 00-0199	EA	36" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-36).....	52.59	15.09
23 11 23 00-0200	EA	48" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-48).....	68.76	15.98
23 11 23 00-0201	EA	60" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-60).....	74.64	15.98
23 11 23 00-0202	EA	72" Length, 1/2" MIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC44-72).....	82.22	16.86
23 11 23 00-0203		1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
23 11 23 00-0204	EA	12" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-12).....	42.79	13.31
23 11 23 00-0205	EA	18" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-18).....	43.56	14.20
23 11 23 00-0206	EA	24" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-24).....	44.50	14.20
23 11 23 00-0207	EA	30" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-30).....	54.88	15.09
23 11 23 00-0208	EA	36" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-36).....	58.47	15.09
23 11 23 00-0209	EA	48" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-48).....	59.30	15.98



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 11 23 00-0210	EA		60" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-60).....	74.64	15.98
	23 11 23 00-0211	EA		72" Length, 1/2" FIP x 1/2" MIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC54-72).....	82.22	16.86
	23 11 23 00-0212			1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
	23 11 23 00-0213	EA		12" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-12).....	42.79	13.31
	23 11 23 00-0214	EA		18" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-18).....	47.57	14.20
	23 11 23 00-0215	EA		24" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-24).....	52.12	14.20
	23 11 23 00-0216	EA		30" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-30).....	54.88	15.09
	23 11 23 00-0217	EA		36" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-36).....	48.51	15.09
	23 11 23 00-0218	EA		48" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-48).....	66.97	15.98
	23 11 23 00-0219	EA		60" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-60).....	74.64	15.98
	23 11 23 00-0220	EA		72" Length, 1/2" FIP x 1/2" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC55-72).....	82.22	16.86
	23 11 23 00-0221			3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
	23 11 23 00-0222	EA		12" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-12).....	59.65	13.31
	23 11 23 00-0223	EA		18" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-18).....	64.40	14.20
	23 11 23 00-0224	EA		24" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-24).....	68.95	14.20
	23 11 23 00-0225	EA		30" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-30).....	71.69	15.09
	23 11 23 00-0226	EA		36" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-36).....	75.43	15.09
	23 11 23 00-0227	EA		48" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-48).....	83.41	15.98
	23 11 23 00-0228	EA		60" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-60).....	91.75	15.98
	23 11 23 00-0229	EA		72" Length, 3/4" MIP x 3/4" FIP, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC1J-72).....	99.36	16.86
	23 11 23 00-0230			3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
	23 11 23 00-0231	EA		12" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-12).....	68.54	17.75
	23 11 23 00-0232	EA		18" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-18).....	73.27	18.64
	23 11 23 00-0233	EA		24" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-24).....	77.83	18.64
	23 11 23 00-0234	EA		30" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-30).....	80.56	19.53
	23 11 23 00-0235	EA		36" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-36).....	84.31	19.53
	23 11 23 00-0236	EA		48" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-48).....	92.28	20.41
	23 11 23 00-0237	EA		60" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-60).....	100.63	20.41
	23 11 23 00-0238	EA		72" Length, 3/4" FIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2J-72).....	108.23	21.30
	23 11 23 00-0239			3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) <small>(23 11 23 00-0116)</small>		
	23 11 23 00-0240	EA		12" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12).....	68.54	17.75
	23 11 23 00-0241	EA		18" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18).....	73.27	18.64
	23 11 23 00-0242	EA		24" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24).....	77.83	18.64
	23 11 23 00-0243	EA		30" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30).....	80.56	19.53
	23 11 23 00-0244	EA		36" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36).....	84.31	19.53
	23 11 23 00-0245	EA		48" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48).....	92.28	20.41
	23 11 23 00-0246	EA		60" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60).....	100.63	20.41

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0247	EA	72" Length, 3/4" MIP x 3/4" FIP Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-72).....	108.23	21.30
23 11 23 00-0248		3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0249	EA	12" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-12).....	82.24	17.75
23 11 23 00-0250	EA	18" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-18).....	86.97	18.64
23 11 23 00-0251	EA	24" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-24).....	91.53	18.64
23 11 23 00-0252	EA	30" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-30).....	94.26	19.53
23 11 23 00-0253	EA	36" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-36).....	98.04	19.53
23 11 23 00-0254	EA	48" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-48).....	105.99	20.41
23 11 23 00-0255	EA	60" Length, 3/4" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4J-60).....	114.35	20.41
23 11 23 00-0256		3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0257	EA	12" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-12).....	82.24	17.75
23 11 23 00-0258	EA	18" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-18).....	86.97	18.64
23 11 23 00-0259	EA	24" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-24).....	91.53	18.64
23 11 23 00-0260	EA	36" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-36).....	98.04	19.53
23 11 23 00-0261	EA	48" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-48).....	105.99	20.41
23 11 23 00-0262	EA	60" Length, 3/4" FIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC2P-60).....	114.35	20.41
23 11 23 00-0263		1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0264	EA	12" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-12).....	82.24	17.75
23 11 23 00-0265	EA	18" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-18).....	86.97	18.64
23 11 23 00-0266	EA	24" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-24).....	91.53	18.64
23 11 23 00-0267	EA	30" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-30).....	94.26	19.53
23 11 23 00-0268	EA	36" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-36).....	98.04	19.53
23 11 23 00-0269	EA	48" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-48).....	105.99	20.41
23 11 23 00-0270	EA	60" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-60).....	114.35	20.41
23 11 23 00-0271	EA	72" Length, 1/2" MIP x 3/4" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4P-72).....	121.93	21.30
23 11 23 00-0272		1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0273	EA	12" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-12).....	64.92	17.75
23 11 23 00-0274	EA	18" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-18).....	69.67	18.64
23 11 23 00-0275	EA	24" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-24).....	74.26	18.64
23 11 23 00-0276	EA	30" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-30).....	76.95	19.53
23 11 23 00-0277	EA	36" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-36).....	80.72	19.53
23 11 23 00-0278	EA	48" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-48).....	88.66	20.41
23 11 23 00-0279	EA	72" Length, 1/2" MIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC4K-72).....	104.58	21.30
23 11 23 00-0280		1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft) (23 11 23 00-0116)		
23 11 23 00-0281	EA	18" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-18).....	79.42	18.64



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 23 00-0282	EA			24" Length, 1/2" FIP x 1/2" FIP Angle Ball Valve, 1/2" Diameter, Polymer Coated Stainless Steel, Flexible Gas Appliance Connector (Brass Craft CSSC5K-24).....	85.08	18.64
23 11 23 00-0283				Quarter-Turn, Gas Ball Valve <small>(23 11 23)</small>		
23 11 23 00-0284	EA			3/8" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top™ T-3000 102-102).....	37.55	9.44
23 11 23 00-0285	EA			1/2" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-103).....	37.11	9.63
23 11 23 00-0286	EA			3/4" FIP x FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-104).....	54.37	10.60
23 11 23 00-0287	EA			3/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-112).....	37.14	9.44
23 11 23 00-0288	EA			1/2" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-113).....	39.08	9.63
23 11 23 00-0289	EA			1/2" Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-118).....	44.88	9.63
23 11 23 00-0290	EA			5/8" Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-121).....	47.83	10.12
23 11 23 00-0291	EA			5/8" (7/8"-14) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-114).....	50.78	10.12
23 11 23 00-0292	EA			5/8" (15/16"-16) Flare x 3/4" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-115).....	50.78	10.12
23 11 23 00-0293	EA			3/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-312).....	39.34	9.44
23 11 23 00-0294	EA			1/2" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-313).....	41.28	9.63
23 11 23 00-0295	EA			5/8" Flare x Flare, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-314).....	52.34	10.12
23 11 23 00-0296	EA			1/2" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-413).....	41.57	9.63
23 11 23 00-0297	EA			3/4" FIP x 1/8" Texas Pattern, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-414).....	56.04	10.60
23 11 23 00-0298	EA			3/8" (9/16"-24) Flare x 1/2" FIP, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3000 102-119).....	39.23	9.44
23 11 23 00-0299	EA			3/8" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-612).....	36.85	9.44
23 11 23 00-0300	EA			1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-613).....	37.10	9.63
23 11 23 00-0301	EA			3/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-614).....	51.19	10.60
23 11 23 00-0302	EA			1" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-615).....	71.16	12.05
23 11 23 00-0303	EA			1-1/4" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-616).....	104.87	12.53
23 11 23 00-0304	EA			1-1/2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-617).....	125.46	14.46
23 11 23 00-0305	EA			2" T-Handle, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3001 102-618).....	156.18	17.35
23 11 23 00-0306	EA			1/2" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-713).....	38.37	9.63
23 11 23 00-0307	EA			3/4" Flathead, 175 PSI, Forged Brass, Quarter-Turn, Gas Ball Valve (Legend Blue Top T-3002 102-714).....	50.80	10.60
23 11 23 00-0308				Gas Stops <small>(23 11 23)</small>		
23 11 23 00-0309				Brass/Bronze Gas Stops <small>(23 11 23 00-0308)</small>		
				Note: Flat or square head		
23 11 23 00-0310	EA			3/8" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	41.44	9.63
23 11 23 00-0311	EA			1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	41.74	9.63
23 11 23 00-0312	EA			3/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	54.98	10.60
23 11 23 00-0313	EA			1" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	75.90	12.05
23 11 23 00-0314	EA			1-1/4" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	100.43	12.82
23 11 23 00-0315	EA			1-1/2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	125.38	14.84
23 11 23 00-0316	EA			2" Threaded, Flat Head, Bronze Gas Valve (A.Y. McDonald 10596).....	171.30	17.54
23 11 23 00-0317				Iron Body Gas Stops <small>(23 11 23 00-0308)</small>		
23 11 23 00-0318	EA			1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	54.42	9.63
23 11 23 00-0319	EA			3/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	67.46	10.60
23 11 23 00-0320	EA			1" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	83.43	12.05
23 11 23 00-0321	EA			1-1/4" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	107.74	12.82
23 11 23 00-0322	EA			1-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	134.56	14.84
23 11 23 00-0323	EA			2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	173.39	17.54
23 11 23 00-0324	EA			2-1/2" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	327.62	23.69
23 11 23 00-0325	EA			3" Threaded, Bronze Flat Head Plug, Iron Body Gas Valve (A.Y. McDonald 10685B).....	435.93	27.52
23 11 23 00-0326				Bronze Body Solenoid Valves, 150 PSI Gas <small>(23 11 23)</small>		
23 11 23 00-0327	EA			1/4" Solenoid Valve, Bronze, 150 PSI, Gas.....	130.61	9.63
23 11 23 00-0328	EA			1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....	151.99	9.63
23 11 23 00-0329	EA			3/4" Solenoid Valve, Bronze, 150 PSI, Gas.....	193.95	10.60
23 11 23 00-0330	EA			1" Solenoid Valve, Bronze, 150 PSI, Gas.....	288.87	12.05
23 11 23 00-0331	EA			1-1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....	513.78	14.84
23 11 23 00-0332	EA			2" Solenoid Valve, Bronze, 150 PSI, Gas.....	867.91	17.54
23 11 23 00-0333	EA			2-1/2" Solenoid Valve, Bronze, 150 PSI, Gas.....	1,076.91	23.69
23 11 23 00-0334	EA			3" Solenoid Valve, Bronze, 150 PSI, Gas.....	1,615.60	27.52
23 11 26				Facility Liquefied-Petroleum Gas Piping <small>(23 11)</small>		
23 11 26 00-0001				Fiberglass Reinforced Plastic Pipe And Fittings <small>(23 11 26)</small>		
23 11 26 00-0002				Fiberglass Reinforced Plastic Pipe <small>(23 11 26 00-0001)</small>		
				Note: For double containment fiberglass pipe, select both outer containment pipe size and inner containment pipe size (include in modifier for use as inner pipe).		
23 11 26 00-0003	LF			2" Fiberglass Reinforced Plastic Pipe.....	16.02	6.39
				For Use As Inner Pipe In Double Wall Pipe System, Deduct	-7.16	
23 11 26 00-0004	LF			3" Fiberglass Reinforced Plastic Pipe.....	19.20	7.64
				For Use As Inner Pipe In Double Wall Pipe System, Deduct	-8.59	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0005 LF 4" Fiberglass Reinforced Plastic Pipe	25.76	11.27
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-12.65	
23 11 26 00-0006 LF 5" Fiberglass Reinforced Plastic Pipe	30.10	12.96
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-14.25	
23 11 26 00-0007 LF 6" Fiberglass Reinforced Plastic Pipe	35.03	14.47
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-16.30	
23 11 26 00-0008 LF 8" Fiberglass Reinforced Plastic Pipe	47.06	17.22
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-19.34	
23 11 26 00-0009 LF 10" Fiberglass Reinforced Plastic Pipe	61.79	20.47
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-23.06	
23 11 26 00-0010 LF 12" Fiberglass Reinforced Plastic Pipe	85.58	25.79
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-29.01	
23 11 26 00-0011 Fiberglass Reinforced Plastic Fittings (23 11 26 00-0001)		
23 11 26 00-0012 Fiberglass Reinforced Plastic Flanged 90 Degree Elbows (23 11 26 00-0011)		
23 11 26 00-0013 EA 2" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	127.64	63.64
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-71.58	
23 11 26 00-0014 EA 3" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	151.02	76.42
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-85.90	
23 11 26 00-0015 EA 4" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	179.98	88.76
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-99.78	
23 11 26 00-0016 EA 5" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	218.03	101.84
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-112.34	
23 11 26 00-0017 EA 6" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	260.84	114.26
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-128.47	
23 11 26 00-0018 EA 8" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	367.34	142.78
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-160.59	
23 11 26 00-0019 EA 10" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	468.52	171.99
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-193.40	
23 11 26 00-0020 EA 12" Fiberglass Reinforced Plastic Flanged 90 Degree Elbow	654.27	213.27
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-239.81	
23 11 26 00-0021 Fiberglass Reinforced Plastic Flanged 45 Degree Elbows (23 11 26 00-0011)		
23 11 26 00-0022 EA 2" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow	127.89	63.64
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-71.58	
23 11 26 00-0023 EA 3" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow	151.10	76.42
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-85.90	
23 11 26 00-0024 EA 4" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow	180.23	88.84
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-99.86	
23 11 26 00-0025 EA 5" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow	223.60	105.53
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-116.49	
23 11 26 00-0026 EA 6" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow	260.76	114.26
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-128.47	
23 11 26 00-0027 EA 8" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow	367.34	142.78
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-160.59	
23 11 26 00-0028 EA 10" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow	505.54	171.99
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-193.40	
23 11 26 00-0029 EA 12" Fiberglass Reinforced Plastic Flanged 45 Degree Elbow	654.27	213.27
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-239.81	
23 11 26 00-0030 Fiberglass Reinforced Plastic Flanged Tees (23 11 26 00-0011)		
23 11 26 00-0031 EA 2" Fiberglass Reinforced Plastic Flanged Tee	194.63	95.50
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-107.36	
23 11 26 00-0032 EA 3" Fiberglass Reinforced Plastic Flanged Tee	237.92	115.03
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-129.31	
23 11 26 00-0033 EA 4" Fiberglass Reinforced Plastic Flanged Tee	272.92	133.22
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-149.79	
23 11 26 00-0034 EA 5" Fiberglass Reinforced Plastic Flanged Tee	333.89	158.25
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-174.81	
23 11 26 00-0035 EA 6" Fiberglass Reinforced Plastic Flanged Tee	386.28	171.99
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-193.40	
23 11 26 00-0036 EA 8" Fiberglass Reinforced Plastic Flanged Tee	483.06	213.27
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-239.81	
23 11 26 00-0037 EA 10" Fiberglass Reinforced Plastic Flanged Tee	696.49	257.97
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-290.11	
23 11 26 00-0038 EA 12" Fiberglass Reinforced Plastic Flanged Tee	902.30	313.65
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-352.67	
23 11 26 00-0039 Fiberglass Reinforced Plastic Flanged Wyes (23 11 26 00-0011)		
23 11 26 00-0040 EA 2" Fiberglass Reinforced Plastic Flanged Wye	229.48	95.50
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-107.36	
23 11 26 00-0041 EA 3" Fiberglass Reinforced Plastic Flanged Wye	287.59	114.85
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-129.15	
23 11 26 00-0042 EA 4" Fiberglass Reinforced Plastic Flanged Wye	336.26	133.22
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-149.78	
23 11 26 00-0043 EA 5" Fiberglass Reinforced Plastic Flanged Wye	387.84	158.25
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-174.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0044 EA 6" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	430.82 -193.40	171.99
23 11 26 00-0045 EA 8" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	553.51 -239.81	213.27
23 11 26 00-0046 EA 10" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	785.34 -290.11	257.97
23 11 26 00-0047 EA 12" Fiberglass Reinforced Plastic Flanged Wye <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	999.15 -352.67	313.65
23 11 26 00-0048 Fiberglass Reinforced Plastic Flanged Concentric Reducers (23 11 26 00-0011)		
23 11 26 00-0049 EA 2" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	139.06 -71.58	63.64
23 11 26 00-0050 EA 3" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	174.68 -85.90	76.42
23 11 26 00-0051 EA 4" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	196.13 -99.86	88.84
23 11 26 00-0052 EA 5" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	228.11 -116.49	105.53
23 11 26 00-0053 EA 6" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	253.86 -128.47	114.26
23 11 26 00-0054 EA 8" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	329.22 -160.59	142.78
23 11 26 00-0055 EA 10" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	411.09 -193.40	171.99
23 11 26 00-0056 EA 12" Fiberglass Reinforced Plastic Flanged Concentric Reducer <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	541.72 -239.81	213.27
23 11 26 00-0057 Fiberglass Reinforced Plastic Bell x Male Or Female Adapters (23 11 26 00-0011)		
23 11 26 00-0058 EA 2" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	123.49 -71.58	63.64
23 11 26 00-0059 EA 3" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	144.93 -85.90	76.42
23 11 26 00-0060 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	166.41 -99.86	88.84
23 11 26 00-0061 EA 4" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	199.00 -116.49	105.53
23 11 26 00-0062 EA 6" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	225.38 -128.47	114.26
23 11 26 00-0063 EA 8" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	250.75 -160.59	142.78
23 11 26 00-0064 EA 10" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	310.50 -193.40	171.99
23 11 26 00-0065 EA 12" Fiberglass Reinforced Plastic Bell x Male Or Female Adapter <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	434.19 -239.81	213.27
23 11 26 00-0066 Fiberglass Reinforced Plastic Nipples (23 11 26 00-0011)		
23 11 26 00-0067 EA 2" x 6" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	19.19 -8.59	7.64
23 11 26 00-0068 EA 2" x 12" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	38.34 -17.14	15.26
23 11 26 00-0069 EA 3" x 8" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	51.42 -13.19	11.71
23 11 26 00-0070 EA 3" x 12" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	61.86 -18.00	16.02
23 11 26 00-0071 EA 4" x 8" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	54.42 -12.85	11.39
23 11 26 00-0072 EA 4" x 12" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	68.71 -19.27	17.13
23 11 26 00-0073 EA 6" x 12" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	83.05 -21.20	19.19
23 11 26 00-0074 EA 6" x 12" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	97.40 -23.15	20.56
23 11 26 00-0075 EA 8" x 18" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	63.85 -26.98	23.98
23 11 26 00-0076 EA 8" x 24" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	88.52 -38.51	34.26
23 11 26 00-0077 EA 10" x 18" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	92.23 -27.42	24.41
23 11 26 00-0078 EA 10" x 24" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	138.36 -41.06	36.49
23 11 26 00-0079 EA 12" x 18" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	104.57 -28.28	25.18
23 11 26 00-0080 EA 12" x 24" Fiberglass Reinforced Plastic Nipple <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	141.37 -42.42	37.69
23 11 26 00-0081 Fiberglass Reinforced Plastic Sleeve Couplings (23 11 26 00-0011)		
23 11 26 00-0082 EA 2" Fiberglass Reinforced Plastic Sleeve Coupling <i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	102.55 -71.58	63.64

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0083 EA 3" Fiberglass Reinforced Plastic Sleeve Coupling	123.19	76.42
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-85.90	
23 11 26 00-0084 EA 4" Fiberglass Reinforced Plastic Sleeve Coupling	142.89	88.84
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-99.86	
23 11 26 00-0085 EA 5" Fiberglass Reinforced Plastic Sleeve Coupling	168.80	105.53
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-116.49	
23 11 26 00-0086 EA 6" Fiberglass Reinforced Plastic Sleeve Coupling	188.50	114.26
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-128.47	
23 11 26 00-0087 EA 8" Fiberglass Reinforced Plastic Sleeve Coupling	239.36	142.78
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-160.59	
23 11 26 00-0088 EA 10" Fiberglass Reinforced Plastic Sleeve Coupling	296.30	171.99
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-193.40	
23 11 26 00-0089 EA 12" Fiberglass Reinforced Plastic Sleeve Coupling	365.07	213.27
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-239.81	
23 11 26 00-0090 Fiberglass Reinforced Plastic Flanges (23 11 26 00-0011)		
23 11 26 00-0091 EA 2" Fiberglass Reinforced Plastic Flange	103.44	63.64
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-71.58	
23 11 26 00-0092 EA 3" Fiberglass Reinforced Plastic Flange	124.37	76.42
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-85.90	
23 11 26 00-0093 EA 4" Fiberglass Reinforced Plastic Flange	141.55	85.56
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-96.18	
23 11 26 00-0094 EA 5" Fiberglass Reinforced Plastic Flange	167.73	101.84
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-112.42	
23 11 26 00-0095 EA 6" Fiberglass Reinforced Plastic Flange	193.66	114.26
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-128.47	
23 11 26 00-0096 EA 8" Fiberglass Reinforced Plastic Flange	235.37	136.70
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-153.73	
23 11 26 00-0097 EA 10" Fiberglass Reinforced Plastic Flange	304.33	171.99
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-193.40	
23 11 26 00-0098 EA 12" Fiberglass Reinforced Plastic Flange	397.19	213.27
<i>For Use As Inner Pipe In Double Wall Pipe System, Deduct</i>	-239.81	
23 11 26 00-0099 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing And Fittings (23 11 26)		
23 11 26 00-0100 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing (23 11 26 00-0099)		
23 11 26 00-0101 LF 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	63.37	27.43
23 11 26 00-0102 LF 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	75.34	32.49
23 11 26 00-0103 LF 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	102.52	47.93
23 11 26 00-0104 LF 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	138.95	62.13
23 11 26 00-0105 LF 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	183.71	73.66
23 11 26 00-0106 LF 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	237.87	87.36
23 11 26 00-0107 LF 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing	302.54	110.23
23 11 26 00-0108 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Fittings (23 11 26 00-0099)		
23 11 26 00-0109 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbows (23 11 26 00-0108)		
23 11 26 00-0110 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	981.44	339.41
23 11 26 00-0111 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	1,146.40	407.39
23 11 26 00-0112 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	1,398.71	473.42
23 11 26 00-0113 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	2,227.80	609.22
23 11 26 00-0114 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	3,390.91	761.67
23 11 26 00-0115 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	4,465.61	916.37
23 11 26 00-0116 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 90 Degree Elbow	5,877.27	1,134.77
23 11 26 00-0117 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbows (23 11 26 00-0108)		
23 11 26 00-0118 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	982.47	339.41
23 11 26 00-0119 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	1,144.60	407.39
23 11 26 00-0120 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	1,397.30	473.42
23 11 26 00-0121 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	2,219.47	609.22
23 11 26 00-0122 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow	3,378.85	761.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 11 26 00-0123 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	4,449.66	916.79
23 11 26 00-0124 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged 45 Degree Elbow.....	5,858.75	1,137.34
23 11 26 00-0125 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tees (23 11 26 00-0108)		
23 11 26 00-0126 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	1,402.56	509.10
23 11 26 00-0127 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	1,733.34	613.57
23 11 26 00-0128 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	1,974.10	710.50
23 11 26 00-0129 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	2,969.50	917.22
23 11 26 00-0130 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	3,733.00	1,137.34
23 11 26 00-0131 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	5,905.51	1,374.25
23 11 26 00-0132 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Tee.....	7,862.93	1,666.22
23 11 26 00-0133 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wyes (23 11 26 00-0108)		
23 11 26 00-0134 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	1,835.26	509.10
23 11 26 00-0135 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	2,351.51	612.86
23 11 26 00-0136 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	2,760.79	710.50
23 11 26 00-0137 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	3,522.57	917.22
23 11 26 00-0138 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	4,607.66	1,137.34
23 11 26 00-0139 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	7,008.74	1,374.25
23 11 26 00-0140 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Wye.....	9,065.51	1,666.22
23 11 26 00-0141 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducers (23 11 26 00-0108)		
23 11 26 00-0142 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	1,050.49	339.41
23 11 26 00-0143 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	1,357.57	407.39
23 11 26 00-0144 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	1,491.88	473.42
23 11 26 00-0145 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	1,938.69	609.22
23 11 26 00-0146 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	2,571.14	761.67
23 11 26 00-0147 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	3,276.29	916.37
23 11 26 00-0148 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanged Concentric Reducer.....	4,457.42	1,134.77
23 11 26 00-0149 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapters (23 11 26 00-0108)		
23 11 26 00-0150 EA 2" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	857.11	339.41
23 11 26 00-0151 EA 3" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	988.26	407.39
23 11 26 00-0152 EA 4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,122.93	473.42
23 11 26 00-0153 EA 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,585.05	609.22
23 11 26 00-0154 EA 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	1,596.77	761.67
23 11 26 00-0155 EA 10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	2,027.34	916.37
23 11 26 00-0156 EA 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Bell x Male Or Female Adapter.....	3,122.28	1,134.77
23 11 26 00-0157 Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipples (23 11 26 00-0108)		
23 11 26 00-0158 EA 2" x 6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	157.24	40.74
23 11 26 00-0159 EA 2" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	314.15	81.31
23 11 26 00-0160 EA 3" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	513.96	62.48
23 11 26 00-0161 EA 3" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	598.12	85.39
23 11 26 00-0162 EA 4" x 8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	554.33	60.89
23 11 26 00-0163 EA 4" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	671.21	91.39
23 11 26 00-0164 EA 6" x 12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	990.83	109.81
23 11 26 00-0165 EA 8" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	538.02	127.96
23 11 26 00-0166 EA 8" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	735.44	182.69
23 11 26 00-0167 EA 10" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	886.22	130.01
23 11 26 00-0168 EA 10" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,330.06	194.76
23 11 26 00-0169 EA 12" x 18" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,031.20	134.13
23 11 26 00-0170 EA 12" x 24" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Nipple.....	1,354.75	201.19

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 11 Facility Fuel Piping**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 11 26 00-0171		Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flanges ^(23 11 26 00-0108)			
23 11 26 00-0172	EA	4" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	849.19		456.17
23 11 26 00-0173	EA	6" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,191.17		609.22
23 11 26 00-0174	EA	8" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,470.76		729.21
23 11 26 00-0175	EA	10" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	1,950.78		916.37
23 11 26 00-0176	EA	12" Fiberglass Reinforced Carrier Pipe With Coated Steel Secondary Containment Casing Flange.....	2,662.88		1,134.77

23 12 Facility Fuel Pumps ^(23 10)**23 12 13 Facility Fuel-Oil Pumps ^(23 12)**

23 12 13 00-0001		Cast Iron Internal Gear Rotary Pump ^(23 12 13)			
Note: Heavy duty type with relief valve, 1150 RPM drip-proof motor, common base plate. For viscosity to 20 centipoise; diesel oil, and light oil.					
23 12 13 00-0002		10 GPM 1" Discharge ^(23 12 13 00-0001)			
23 12 13 00-0003	EA	10 GPM Cast Iron Rotary Pump, 20 PSI 1/2 HP With 1" Discharge	887.44		257.51
23 12 13 00-0004	EA	10 GPM Cast Iron Rotary Pump, 40 PSI 3/4 HP With 1" Discharge	950.38		311.68
23 12 13 00-0005	EA	10 GPM Cast Iron Rotary Pump, 60 PSI 1 HP With 1" Discharge	1,054.56		370.28
23 12 13 00-0006		25 GPM 1-1/4" Discharge ^(23 12 13 00-0001)			
23 12 13 00-0007	EA	25 GPM Cast Iron Rotary Pump, 20 PSI 1 HP With 1-1/4" Discharge	1,008.72		257.51
23 12 13 00-0008	EA	25 GPM Cast Iron Rotary Pump, 40 PSI 1.5 HP With 1-1/4" Discharge	1,070.26		311.68
23 12 13 00-0009	EA	25 GPM Cast Iron Rotary Pump, 60 PSI 2 HP With 1-1/4" Discharge	1,131.64		370.28

23 12 13 00-0010		Pump, Fuel Oil, 2 Stage 3450 RPM 100 PSI ^(23 12 13)			
23 12 13 00-0011	EA	1/4 HP Pump Fuel Oil/Diesel	689.04		144.29
23 12 13 00-0012	EA	1/3 HP Pump Fuel Oil/Diesel	803.15		161.61
23 12 13 00-0013	EA	1/2 HP Pump Fuel Oil/Diesel	881.99		181.14
23 12 13 00-0014	EA	3/4 HP Pump Fuel Oil/Diesel	967.94		204.24
23 12 13 00-0015	EA	1 HP Pump Fuel Oil/Diesel	1,309.59		227.32
23 12 13 00-0016	EA	1-1/2 HP Pump Fuel Oil/Diesel	1,581.26		254.40
23 12 13 00-0017	EA	2 HP Pump Fuel Oil/Diesel	1,755.06		285.03
23 12 13 00-0018	EA	3 HP Pump Fuel Oil/Diesel	2,115.01		318.77
23 12 13 00-0019	EA	5 HP Pump Fuel Oil/Diesel	2,477.19		357.41
23 12 13 00-0020	EA	7.5 HP Pump Fuel Oil/Diesel	2,774.19		400.91
23 12 13 00-0021	EA	10 HP Pump Fuel Oil/Diesel	3,110.19		449.40

23 12 23 Facility Natural-Gas Pumps ^(23 12)

23 12 23 00-0001		Natural Gas Booster Pump ^(23 12 23)			
23 12 23 00-0002	EA	Natural Gas Booster Pump, 3/4" Outlet Size.....	775.41		133.19
23 12 23 00-0003	EA	Natural Gas Booster Pump, 1" Outlet Size.....	914.99		148.73
23 12 23 00-0004	EA	Natural Gas Booster Pump, 1-1/4" Outlet Size	1,020.06		155.40
23 12 23 00-0005	EA	Natural Gas Booster Pump, 1-1/2" Outlet Size	1,150.18		162.05
23 12 23 00-0006	EA	Natural Gas Booster Pump, 2" Outlet Size.....	1,292.59		166.49

23 13 Facility Fuel-Storage Tanks ^(23 10)**23 13 13 Facility Underground Fuel-Oil, Storage Tanks ^(23 13)****23 13 13 13 Double-Wall Steel, Underground Fuel-Oil, Storage Tanks ^(23 13 13)**

23 13 13 13-0001		Coated Underground Double Wall Storage Tanks ^(23 13 13 13)			
Note: Includes setting in place with hold down bars and manway and 4" NPT connections as follows: up to 1000 gallon, 4 each; all others 6 each. Excludes excavation, pad, plastic lining, pumps and piping.					
23 13 13 13-0002	EA	250 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	8,084.50		604.60
23 13 13 13-0003	EA	550 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	8,708.02		604.60
23 13 13 13-0004	EA	1,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	12,519.25		755.71
23 13 13 13-0005	EA	2,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	17,385.51		1,476.09
23 13 13 13-0006	EA	3,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	27,435.76		1,897.72
23 13 13 13-0007	EA	4,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	30,599.95		2,179.59
23 13 13 13-0008	EA	5,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	33,320.59		2,881.88
23 13 13 13-0009	EA	6,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	34,518.45		3,094.19
23 13 13 13-0010	EA	8,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	42,062.94		3,655.40
23 13 13 13-0011	EA	10,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	48,705.37		4,216.23
23 13 13 13-0012	EA	12,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	61,892.70		4,636.56
23 13 13 13-0013	EA	14,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	73,444.86		5,629.52
23 13 13 13-0014	EA	15,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	75,950.42		5,974.38
23 13 13 13-0015	EA	20,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	94,360.06		9,476.61
23 13 13 13-0016	EA	25,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	116,314.43		12,288.84
23 13 13 13-0017	EA	30,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	136,817.23		14,060.67
23 13 13 13-0018	EA	40,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	174,349.51		15,115.22
23 13 13 13-0019	EA	48,000 Gallon Underground Double Wall Steel Storage Tank, Coated, In Place With Hold Down Bars.....	233,489.16		15,502.83



	MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 13 13 23 Glass-Fiber-Reinforced-Plastic, Underground Fuel-Oil, Storage Tanks (23 13 13)

23 13 13 23-001 Underground Fiberglass Storage Tanks (23 13 13 23)

23 13 13 23-002 Single Wall Fiberglass Underground Storage Tanks (23 13 13 23-001)

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

23 13 13 23-003	EA 550 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	2,896.79	604.60
23 13 13 23-004	EA 1,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	3,637.56	755.71
23 13 13 23-005	EA 2,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	4,728.41	935.04
23 13 13 23-006	EA 2,500 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	5,390.25	1,138.91
23 13 13 23-007	EA 3,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	6,046.96	1,335.77
23 13 13 23-008	EA 4,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	7,389.75	1,757.58
23 13 13 23-009	EA 5,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	8,958.54	2,671.53
23 13 13 23-010	EA 6,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	10,221.74	3,374.57
23 13 13 23-011	EA 8,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	12,192.20	3,796.38
23 13 13 23-012	EA 10,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	13,791.88	4,499.42
23 13 13 23-013	EA 12,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	17,635.36	5,343.05
23 13 13 23-014	EA 15,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	21,735.07	6,678.82
23 13 13 23-015	EA 20,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	27,542.75	8,928.53
23 13 13 23-016	EA 25,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	40,591.06	11,107.93
23 13 13 23-017	EA 30,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	49,621.65	13,357.63
23 13 13 23-018	EA 40,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	71,007.03	19,333.42
23 13 13 23-019	EA 50,000 Gallon Single Wall Fiberglass Tank Including Fittings And Anchor Straps.....	100,317.31	24,606.17

23 13 13 23-020 Double Wall Fiberglass Underground Storage Tanks (23 13 13 23-001)

Note: Includes setting in place with hold down bars, fittings, bumper pads, flow channels, monitoring fitting, tank bottom deflector gauge plates, manway, anchor straps and 4" NPT tank mounted fitting connections as follows: 550 gallon or 1,000 gallon, 4 each: all others 6 each. Excludes excavation and backfill.

23 13 13 23-021	EA 550 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	5,456.60	604.60
23 13 13 23-022	EA 1,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	7,181.14	755.71
23 13 13 23-023	EA 2,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	8,611.87	913.95
23 13 13 23-024	EA 3,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	11,236.54	1,335.86
23 13 13 23-025	EA 4,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	12,687.44	1,757.58
23 13 13 23-026	EA 5,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	14,782.40	2,671.53
23 13 13 23-027	EA 6,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	16,564.56	3,374.57
23 13 13 23-028	EA 8,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	20,264.88	3,796.38
23 13 13 23-029	EA 10,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	21,864.56	4,499.42
23 13 13 23-030	EA 12,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	26,428.82	5,343.05
23 13 13 23-031	EA 15,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	36,186.61	6,678.82
23 13 13 23-032	EA 20,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	44,985.50	8,928.53
23 13 13 23-033	EA 30,000 Gallon Double Wall Fiberglass Tank Including Fittings And Anchor Straps.....	69,370.88	13,357.63

23 13 13 23-034 Underground Storage Tank Pump Enclosures (23 13 13 23)

23 13 13 23-035	EA Secondary Containment Collar.....	945.62	
23 13 13 23-036	EA Turbine Enclosure With Lid 4' Long x 42" Diameter.....	945.62	
23 13 13 23-037	EA Fitting Kit For Turbine Enclosure.....	189.12	
23 13 13 23-038	EA Grommet Kits For Plumbing And Electrical.....	378.25	
23 13 13 23-039	EA Turbine Electrical Coupling Kit.....	472.81	

23 13 23 Facility Aboveground Fuel-Oil, Storage Tanks (23 13)

23 13 23 13 Vertical, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)

23 13 23 13-001 Rectangle Double Wall Steel Fuel Day Tank (23 13 23 13)

Note: Includes day tank with standard equipment, pump, pump control, level control, backup level control, level alarms, alarm outputs.

23 13 23 13-002	EA 10 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,097.70	115.70
23 13 23 13-003	EA 15 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,179.34	121.48
23 13 23 13-004	EA 25 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,280.53	130.16
23 13 23 13-005	EA 50 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,473.33	138.84
23 13 23 13-006	EA 60 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,644.98	144.62
23 13 23 13-007	EA 75 Gallon Double Wall Steel Day Tank (Tramont TRX).....	1,938.62	173.55
23 13 23 13-008	EA 100 Gallon Double Wall Steel Day Tank (Tramont TRX).....	2,615.17	202.47
23 13 23 13-009	EA 150 Gallon Double Wall Steel Day Tank (Tramont TRX).....	3,314.62	231.39
23 13 23 13-010	EA 200 Gallon Double Wall Steel Day Tank (Tramont TRX).....	4,259.51	260.32
23 13 23 13-011	EA 275 Gallon Double Wall Steel Day Tank (Tramont TRX).....	4,747.88	289.24
23 13 23 13-012	EA 300 Gallon Double Wall Steel Day Tank (Tramont TRX).....	5,430.09	347.09

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0013 EA 350 Gallon Double Wall Steel Day Tank (Tramont TRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,079.57	404.94
23 13 23 13-0014 EA 400 Gallon Double Wall Steel Day Tank (Tramont TRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,748.69	462.79
23 13 23 13-0015 EA 450 Gallon Double Wall Steel Day Tank (Tramont TRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	7,493.96	491.72
23 13 23 13-0016 EA 500 Gallon Double Wall Steel Day Tank (Tramont TRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	8,244.14	520.65
23 13 23 13-0017 EA 550 Gallon Double Wall Steel Day Tank (Tramont TRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	9,097.40	549.57
23 13 23 13-0018 EA 600 Gallon Double Wall Steel Day Tank (Tramont TRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	9,842.66	578.49
23 13 23 13-0019 EA 700 Gallon Double Wall Steel Day Tank (Tramont TRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	10,951.81	694.19
23 13 23 13-0020 EA 800 Gallon Double Wall Steel Day Tank (Tramont TRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	11,812.38	752.04
23 13 23 13-0021 EA 900 Gallon Double Wall Steel Day Tank (Tramont TRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	12,955.88	867.74
23 13 23 13-0022 EA 1,000 Gallon Double Wall Steel Day Tank (Tramont TRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	14,104.31	983.43
23 13 23 13-0023 EA 10 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	1,336.60	115.70
23 13 23 13-0024 EA 15 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	1,419.87	121.48
23 13 23 13-0025 EA 25 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	1,521.06	130.16
23 13 23 13-0026 EA 50 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	1,712.23	138.84
23 13 23 13-0027 EA 60 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	1,883.88	144.62
23 13 23 13-0028 EA 75 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	2,179.16	173.55
23 13 23 13-0029 EA 100 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	2,878.61	202.47
23 13 23 13-0030 EA 150 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	3,578.06	231.39
23 13 23 13-0031 EA 200 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	4,522.95	260.32
23 13 23 13-0032 EA 275 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	5,011.32	289.24
23 13 23 13-0033 EA 300 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	5,693.53	347.09
23 13 23 13-0034 EA 350 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	6,343.01	404.94
23 13 23 13-0035 EA 400 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	7,012.13	462.79
23 13 23 13-0036 EA 450 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	7,757.40	491.72
23 13 23 13-0037 EA 500 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	8,507.58	520.65
23 13 23 13-0038 EA 550 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	9,362.48	549.57
23 13 23 13-0039 EA 600 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	10,107.74	578.49
23 13 23 13-0040 EA 700 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	11,215.25	694.19
23 13 23 13-0041 EA 800 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	12,075.82	752.04
23 13 23 13-0042 EA 900 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	13,219.33	867.74
23 13 23 13-0043 EA 1,000 Gallon Double Wall Steel Day Tank (Tramont UTRX) Note: Includes rust-inhibitor coated interior and gray painted exterior.	14,367.75	983.43
23 13 23 13-0044 EA 10 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,241.47	115.70
23 13 23 13-0045 EA 15 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,314.92	121.48
23 13 23 13-0046 EA 25 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,380.12	130.16
23 13 23 13-0047 EA 50 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,636.74	138.84
23 13 23 13-0048 EA 60 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	2,733.11	144.62
23 13 23 13-0049 EA 75 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,016.94	173.55
23 13 23 13-0050 EA 100 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,632.94	202.47
23 13 23 13-0051 EA 150 Gallon Double Wall Steel Day Tank With Pump (Tramont TRE) Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,590.93	231.39
23 13 23 13-0052 EA 200 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,162.74	260.32
23 13 23 13-0053 EA 275 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,760.51	289.24
23 13 23 13-0054 EA 300 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	7,635.81	347.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0055 EA 350 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,157.65	404.94
23 13 23 13-0056 EA 400 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,872.59	462.79
23 13 23 13-0057 EA 450 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,583.50	491.72
23 13 23 13-0058 EA 500 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,523.49	520.65
23 13 23 13-0059 EA 550 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,910.41	549.57
23 13 23 13-0060 EA 600 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,256.41	578.49
23 13 23 13-0061 EA 700 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	12,867.91	694.19
23 13 23 13-0062 EA 800 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	14,443.53	752.04
23 13 23 13-0063 EA 900 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	16,153.19	867.74
23 13 23 13-0064 EA 1,000 Gallon Double Wall Steel Day Tank With Pump; Tramont TRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	17,890.68	983.43
23 13 23 13-0065 EA 10 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,321.42	115.70
23 13 23 13-0066 EA 15 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,394.87	121.48
23 13 23 13-0067 EA 25 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,460.07	130.16
23 13 23 13-0068 EA 50 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,716.69	138.84
23 13 23 13-0069 EA 60 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	3,813.06	144.62
23 13 23 13-0070 EA 75 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,096.89	173.55
23 13 23 13-0071 EA 100 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	4,712.89	202.47
23 13 23 13-0072 EA 150 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	5,670.88	231.39
23 13 23 13-0073 EA 200 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	6,314.69	260.32
23 13 23 13-0074 EA 275 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	7,464.12	289.24
23 13 23 13-0075 EA 300 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,339.41	347.09
23 13 23 13-0076 EA 350 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	8,862.90	404.94
23 13 23 13-0077 EA 400 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	9,576.20	462.79
23 13 23 13-0078 EA 450 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	10,288.74	491.72
23 13 23 13-0079 EA 500 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,227.09	520.65
23 13 23 13-0080 EA 550 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,614.01	549.57
23 13 23 13-0081 EA 600 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	11,960.02	578.49
23 13 23 13-0082 EA 700 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	13,571.51	694.19
23 13 23 13-0083 EA 800 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	15,148.77	752.04
23 13 23 13-0084 EA 900 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	16,856.80	867.74
23 13 23 13-0085 EA 1,000 Gallon Double Wall Steel Day Tank With Pump; Tramont UTRE Note: Includes pump, motor control float switch, rust-inhibitor coated interior and gray painted exterior.	18,594.29	983.43
23 13 23 13-0086 EA 10 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	3,925.21	115.70
23 13 23 13-0087 EA 15 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,006.84	121.48
23 13 23 13-0088 EA 25 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,073.68	130.16
23 13 23 13-0089 EA 50 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,338.48	138.84
23 13 23 13-0090 EA 60 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,480.67	144.62
23 13 23 13-0091 EA 75 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	4,738.31	173.55
23 13 23 13-0092 EA 100 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,378.86	202.47

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0093	EA	150 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,382.66	231.39
23 13 23 13-0094	EA	200 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,975.75	260.32
23 13 23 13-0095	EA	275 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	8,635.70	289.24
23 13 23 13-0096	EA	300 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,556.81	347.09
23 13 23 13-0097	EA	350 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,027.93	404.94
23 13 23 13-0098	EA	400 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,841.05	462.79
23 13 23 13-0099	EA	450 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,702.49	491.72
23 13 23 13-0100	EA	500 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,568.85	520.65
23 13 23 13-0101	EA	550 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,003.22	549.57
23 13 23 13-0102	EA	600 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,324.68	578.49
23 13 23 13-0103	EA	700 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	15,009.81	694.19
23 13 23 13-0104	EA	800 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	16,662.34	752.04
23 13 23 13-0105	EA	900 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	18,448.91	867.74
23 13 23 13-0106	EA	1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont TRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	20,260.03	983.43
23 13 23 13-0107	EA	10 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,005.16	115.70
23 13 23 13-0108	EA	15 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,086.80	121.48
23 13 23 13-0109	EA	25 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,153.63	130.16
23 13 23 13-0110	EA	50 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,418.43	138.84
23 13 23 13-0111	EA	60 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,560.62	144.62
23 13 23 13-0112	EA	75 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	5,814.99	173.55
23 13 23 13-0113	EA	100 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	6,458.81	202.47
23 13 23 13-0114	EA	150 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	7,462.61	231.39
23 13 23 13-0115	EA	200 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	8,055.70	260.32
23 13 23 13-0116	EA	275 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	9,339.31	289.24
23 13 23 13-0117	EA	300 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,260.42	347.09
23 13 23 13-0118	EA	350 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	10,895.17	404.94
23 13 23 13-0119	EA	400 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	11,544.65	462.79
23 13 23 13-0120	EA	450 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS..... Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	12,406.10	491.72



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 13-0121 EA 500 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,272.45	520.65
23 13 23 13-0122 EA 550 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	13,706.83	549.57
23 13 23 13-0123 EA 600 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	14,029.93	578.49
23 13 23 13-0124 EA 700 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	15,713.42	694.19
23 13 23 13-0125 EA 800 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	17,365.95	752.04
23 13 23 13-0126 EA 900 Gallon Double Wall Steel Day Tank With Pump And Control Module; Tramont UTRS Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	19,152.51	867.74
23 13 23 13-0127 EA 1,000 Gallon Double Wall Steel Day Tank With Pump And Control Module (Tramont UTRS) Note: Includes pump, motor control float switch, electronic control module, rust-inhibitor coated interior and gray painted exterior.	20,963.63	983.43
23 13 23 13-0128 EA 150% Containment Double Wall Open Top Basin For 10 Gallon Tank	1,087.03	115.70
23 13 23 13-0129 EA 150% Containment Double Wall Open Top Basin For 15 Gallon Tank	1,178.75	121.48
23 13 23 13-0130 EA 150% Containment Double Wall Open Top Basin For 25 Gallon Tank	1,279.61	130.16
23 13 23 13-0131 EA 150% Containment Double Wall Open Top Basin For 50 Gallon Tank	1,464.69	138.84
23 13 23 13-0132 EA 150% Containment Double Wall Open Top Basin For 60 Gallon Tank	1,956.00	144.62
23 13 23 13-0133 EA 150% Containment Double Wall Open Top Basin For 75 Gallon Tank	2,004.20	173.55
23 13 23 13-0134 EA 150% Containment Double Wall Open Top Basin For 100 Gallon Tank	2,523.27	202.47
23 13 23 13-0135 EA 150% Containment Double Wall Open Top Basin For 150 Gallon Tank	3,126.58	231.39
23 13 23 13-0136 EA 150% Containment Double Wall Open Top Basin For 200 Gallon Tank	4,116.49	260.32
23 13 23 13-0137 EA 150% Containment Double Wall Open Top Basin For 275 Gallon Tank	5,179.86	289.24
23 13 23 13-0138 EA 150% Containment Double Wall Open Top Basin For 300 Gallon Tank	6,218.00	347.09
23 13 23 13-0139 EA 150% Containment Double Wall Open Top Basin For 350 Gallon Tank	6,675.11	404.94
23 13 23 13-0140 EA 150% Containment Double Wall Open Top Basin For 400 Gallon Tank	7,134.39	462.79
23 13 23 13-0141 EA 150% Containment Double Wall Open Top Basin For 450 Gallon Tank	7,837.05	491.72
23 13 23 13-0142 EA 150% Containment Double Wall Open Top Basin For 500 Gallon Tank	8,541.87	520.65
23 13 23 13-0143 EA 150% Containment Double Wall Open Top Basin For 550 Gallon Tank	9,153.84	549.57
23 13 23 13-0144 EA 150% Containment Double Wall Open Top Basin For 600 Gallon Tank	9,772.23	578.49
23 13 23 13-0145 EA 150% Containment Double Wall Open Top Basin For 700 Gallon Tank	11,049.33	694.19
23 13 23 13-0146 EA 150% Containment Double Wall Open Top Basin For 800 Gallon Tank	12,268.90	752.04
23 13 23 13-0147 EA 150% Containment Double Wall Open Top Basin For 900 Gallon Tank	13,619.43	867.74
23 13 23 13-0148 EA 150% Containment Double Wall Open Top Basin For 1,000 Gallon Tank	14,922.45	983.43
23 13 23 13-0149 EA 200% Containment Double Wall Open Top Basin For 10 Gallon Tank	1,146.35	121.48
23 13 23 13-0150 EA 200% Containment Double Wall Open Top Basin For 15 Gallon Tank	1,247.45	130.16
23 13 23 13-0151 EA 200% Containment Double Wall Open Top Basin For 25 Gallon Tank	1,353.10	138.84
23 13 23 13-0152 EA 200% Containment Double Wall Open Top Basin For 50 Gallon Tank	1,542.86	144.62
23 13 23 13-0153 EA 200% Containment Double Wall Open Top Basin For 60 Gallon Tank	2,099.48	173.55
23 13 23 13-0154 EA 200% Containment Double Wall Open Top Basin For 75 Gallon Tank	2,147.69	202.47
23 13 23 13-0155 EA 200% Containment Double Wall Open Top Basin For 100 Gallon Tank	2,692.92	231.39
23 13 23 13-0156 EA 200% Containment Double Wall Open Top Basin For 150 Gallon Tank	3,327.05	260.32
23 13 23 13-0157 EA 200% Containment Double Wall Open Top Basin For 200 Gallon Tank	4,369.30	289.24
23 13 23 13-0158 EA 200% Containment Double Wall Open Top Basin For 275 Gallon Tank	5,489.06	318.17
23 13 23 13-0159 EA 200% Containment Double Wall Open Top Basin For 300 Gallon Tank	6,579.50	376.01
23 13 23 13-0160 EA 200% Containment Double Wall Open Top Basin For 350 Gallon Tank	7,056.68	433.86
23 13 23 13-0161 EA 200% Containment Double Wall Open Top Basin For 400 Gallon Tank	7,536.11	491.72
23 13 23 13-0162 EA 200% Containment Double Wall Open Top Basin For 450 Gallon Tank	8,275.13	520.65
23 13 23 13-0163 EA 200% Containment Double Wall Open Top Basin For 500 Gallon Tank	9,016.43	549.57
23 13 23 13-0164 EA 200% Containment Double Wall Open Top Basin For 550 Gallon Tank	9,659.70	578.49
23 13 23 13-0165 EA 200% Containment Double Wall Open Top Basin For 600 Gallon Tank	10,357.99	636.34
23 13 23 13-0166 EA 200% Containment Double Wall Open Top Basin For 700 Gallon Tank	11,695.33	752.04
23 13 23 13-0167 EA 200% Containment Double Wall Open Top Basin For 800 Gallon Tank	13,073.70	867.74
23 13 23 13-0168 EA 200% Containment Double Wall Open Top Basin For 900 Gallon Tank	14,488.55	983.43
23 13 23 13-0169 EA 200% Containment Double Wall Open Top Basin For 1,000 Gallon Tank	15,853.25	1,099.13
23 13 23 13-0170 EA 150% Containment Double Wall Sealed Top Basin For 10 Gallon Tank	1,257.66	115.70
23 13 23 13-0171 EA 150% Containment Double Wall Sealed Top Basin For 15 Gallon Tank	1,370.98	121.48
23 13 23 13-0172 EA 150% Containment Double Wall Sealed Top Basin For 25 Gallon Tank	1,484.80	130.16
23 13 23 13-0173 EA 150% Containment Double Wall Sealed Top Basin For 50 Gallon Tank	1,713.08	138.84
23 13 23 13-0174 EA 150% Containment Double Wall Sealed Top Basin For 60 Gallon Tank	2,297.27	144.62
23 13 23 13-0175 EA 150% Containment Double Wall Sealed Top Basin For 75 Gallon Tank	2,345.47	173.55
23 13 23 13-0176 EA 150% Containment Double Wall Sealed Top Basin For 100 Gallon Tank	2,942.29	202.47
23 13 23 13-0177 EA 150% Containment Double Wall Sealed Top Basin For 150 Gallon Tank	3,647.11	231.39
23 13 23 13-0178 EA 150% Containment Double Wall Sealed Top Basin For 200 Gallon Tank	4,813.55	260.32
23 13 23 13-0179 EA 150% Containment Double Wall Sealed Top Basin For 275 Gallon Tank	6,121.58	289.24
23 13 23 13-0180 EA 150% Containment Double Wall Sealed Top Basin For 300 Gallon Tank	7,351.95	347.09
23 13 23 13-0181 EA 150% Containment Double Wall Sealed Top Basin For 350 Gallon Tank	7,876.02	404.94
23 13 23 13-0182 EA 150% Containment Double Wall Sealed Top Basin For 400 Gallon Tank	8,404.42	462.79
23 13 23 13-0183 EA 150% Containment Double Wall Sealed Top Basin For 450 Gallon Tank	9,243.15	491.72
23 13 23 13-0184 EA 150% Containment Double Wall Sealed Top Basin For 500 Gallon Tank	10,084.05	520.65
23 13 23 13-0185 EA 150% Containment Double Wall Sealed Top Basin For 550 Gallon Tank	10,797.51	549.57
23 13 23 13-0186 EA 150% Containment Double Wall Sealed Top Basin For 600 Gallon Tank	11,528.23	578.49
23 13 23 13-0187 EA 150% Containment Double Wall Sealed Top Basin For 700 Gallon Tank	13,032.13	694.19
23 13 23 13-0188 EA 150% Containment Double Wall Sealed Top Basin For 800 Gallon Tank	14,480.64	752.04

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 10 Facility Fuel Systems

23 13 Facility Fuel-Storage Tanks



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 13 23 13-0189	EA	150% Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....	16,057.96	867.74
23 13 23 13-0190	EA	150% Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank.....	17,587.77	983.43
23 13 23 13-0191	EA	200% Containment Double Wall Sealed Top Basin For 10 Gallon Tank.....	1,326.46	121.48
23 13 23 13-0192	EA	200% Containment Double Wall Sealed Top Basin For 15 Gallon Tank.....	1,450.36	130.16
23 13 23 13-0193	EA	200% Containment Double Wall Sealed Top Basin For 25 Gallon Tank.....	1,569.69	138.84
23 13 23 13-0194	EA	200% Containment Double Wall Sealed Top Basin For 50 Gallon Tank.....	1,805.05	144.62
23 13 23 13-0195	EA	200% Containment Double Wall Sealed Top Basin For 60 Gallon Tank.....	2,459.70	173.55
23 13 23 13-0196	EA	200% Containment Double Wall Sealed Top Basin For 75 Gallon Tank.....	2,507.91	202.47
23 13 23 13-0197	EA	200% Containment Double Wall Sealed Top Basin For 100 Gallon Tank.....	3,135.22	231.39
23 13 23 13-0198	EA	200% Containment Double Wall Sealed Top Basin For 150 Gallon Tank.....	3,876.51	260.32
23 13 23 13-0199	EA	200% Containment Double Wall Sealed Top Basin For 200 Gallon Tank.....	5,105.08	289.24
23 13 23 13-0200	EA	200% Containment Double Wall Sealed Top Basin For 275 Gallon Tank.....	6,483.09	318.17
23 13 23 13-0201	EA	200% Containment Double Wall Sealed Top Basin For 300 Gallon Tank.....	7,776.45	376.01
23 13 23 13-0202	EA	200% Containment Double Wall Sealed Top Basin For 350 Gallon Tank.....	8,324.30	433.86
23 13 23 13-0203	EA	200% Containment Double Wall Sealed Top Basin For 400 Gallon Tank.....	8,876.69	491.72
23 13 23 13-0204	EA	200% Containment Double Wall Sealed Top Basin For 450 Gallon Tank.....	9,759.34	520.65
23 13 23 13-0205	EA	200% Containment Double Wall Sealed Top Basin For 500 Gallon Tank.....	10,644.27	549.57
23 13 23 13-0206	EA	200% Containment Double Wall Sealed Top Basin For 550 Gallon Tank.....	11,394.68	578.49
23 13 23 13-0207	EA	200% Containment Double Wall Sealed Top Basin For 600 Gallon Tank.....	12,211.55	636.34
23 13 23 13-0208	EA	200% Containment Double Wall Sealed Top Basin For 700 Gallon Tank.....	13,788.28	752.04
23 13 23 13-0209	EA	200% Containment Double Wall Sealed Top Basin For 800 Gallon Tank.....	15,408.31	867.74
23 13 23 13-0210	EA	200% Containment Double Wall Sealed Top Basin For 900 Gallon Tank.....	17,062.56	983.43
23 13 23 13-0211	EA	200% Containment Double Wall Sealed Top Basin For 1,000 Gallon Tank.....	18,666.64	1,099.13

23 13 23 16 Horizontal, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)

23 13 23 16-0001 Single Wall Aboveground Storage Tanks (23 13 23 16)

Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes pumps, piping, excavation and backfill.

23 13 23 16-0002	EA	300 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	2,716.56	628.82
23 13 23 16-0003	EA	550 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	3,268.69	761.19
23 13 23 16-0004	EA	1,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	4,421.50	1,048.24
23 13 23 16-0005	EA	1,500 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	5,691.21	1,310.30
23 13 23 16-0006	EA	2,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	6,936.79	1,727.49
23 13 23 16-0007	EA	3,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	9,997.30	1,778.30
23 13 23 16-0008	EA	5,000 Gallon, Steel Storage Tank, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	14,318.01	2,198.62
23 13 23 16-0009	EA	8,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	19,382.30	2,519.21
23 13 23 16-0010	EA	10,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	22,958.81	2,748.21
23 13 23 16-0011	EA	12,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	26,557.46	3,023.04
23 13 23 16-0012	EA	15,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	29,406.22	3,358.91
23 13 23 16-0013	EA	20,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	36,799.90	4,318.59
23 13 23 16-0014	EA	30,000 Gallon, Steel Storage Tank, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	49,788.10	5,038.40

23 13 23 16-0015 Double Wall Aboveground Storage Tanks (23 13 23 16)

Note: Includes cradles, supports, coating, fittings, and 4" NPT connections as follows: up to 1000 gallon, 4 each: all others 6 each. Excludes pumps, piping, excavation and backfill.

23 13 23 16-0016	EA	300 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	4,191.32	784.63
23 13 23 16-0017	EA	550 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings.....	5,040.13	949.50
23 13 23 16-0018	EA	1,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	6,810.75	1,310.30
23 13 23 16-0019	EA	1,500 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	8,788.65	1,637.87
23 13 23 16-0020	EA	2,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	10,592.83	2,159.35
23 13 23 16-0021	EA	3,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	15,687.82	2,222.81
23 13 23 16-0022	EA	5,000 Gallon, Steel Storage Tank, Double Wall, With 3/16" Shell, Aboveground With Supports, Coating And Fittings	22,660.30	2,738.27
23 13 23 16-0023	EA	8,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	30,964.83	3,149.02
23 13 23 16-0024	EA	10,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	36,818.30	3,435.30
23 13 23 16-0025	EA	12,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	42,681.75	3,778.76
23 13 23 16-0026	EA	15,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	47,253.23	4,198.70
23 13 23 16-0027	EA	20,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	59,066.01	5,398.27
23 13 23 16-0028	EA	30,000 Gallon, Steel Storage Tank, Double Wall, With 1/4" Shell, Aboveground With Supports, Coating And Fittings	80,389.43	6,297.96

23 13 23 19 Containment-Dike, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)

23 13 23 19-0001 Secondary Containment For Above Ground Tanks (23 13 23 19)

23 13 23 19-0002	EA	Steel Dike For 550 Gallon Tank, Uncoated.....	3,457.89
23 13 23 19-0003	EA	Steel Dike For 1,000 Gallon Tank, Uncoated.....	4,179.91
23 13 23 19-0004	EA	Steel Dike For 2,000 Gallon Tank, Uncoated.....	9,080.53
23 13 23 19-0005	EA	Steel Dike For 3,000 Gallon Tank, Uncoated.....	9,954.75
23 13 23 19-0006	EA	Steel Dike For 5,000 Gallon Tank, Uncoated.....	14,122.75
23 13 23 19-0007	EA	Steel Dike For 6,000 Gallon Tank, Uncoated.....	15,821.60



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 13 23 19-0008 EA Steel Dike For 8,000 Gallon Tank, Uncoated.....	20,874.39	
23 13 23 19-0009 EA Steel Dike For 10,000 Gallon Tank, Uncoated.....	24,505.74	
23 13 23 19-0010 EA Steel Dike For 12,000 Gallon Tank, Uncoated.....	27,832.57	
23 13 23 19-0011 EA Steel Dike For 15,000 Gallon Tank, Uncoated.....	33,895.29	
23 13 23 19-0012 EA Steel Dike For 20,000 Gallon Tank, Uncoated.....	43,376.97	
23 13 23 26 Concrete-Vaulted, Steel, Aboveground Fuel-Oil, Storage Tanks (23 13 23)		
23 13 23 26-0001 Aboveground Concrete Vaulted Storage Tanks (23 13 23 26)		
Note: Includes setting in place with stand, NPT openings for an emergency vent, regular vent, gauge, fill with an internal 5 gallon minimum overflow containment, supply and return and leak detection. All tanks that are 2000 gallon and larger shall have a ladder for access. Excludes excavation, pad, pumps and piping.		
23 13 23 26-0002 EA 500 Gallon Concrete Vaulted Storage Tank.....	19,372.25	1,307.55
For Low Profile Tanks, Add	7,019.11	
23 13 23 26-0003 EA 1,000 Gallon Concrete Vaulted Storage Tank.....	24,351.46	1,476.09
For Low Profile Tanks, Add	8,916.72	
23 13 23 26-0004 EA 2,000 Gallon Concrete Vaulted Storage Tank.....	42,968.25	1,757.58
For Low Profile Tanks, Add	16,206.32	
23 13 23 26-0005 EA 4,000 Gallon Concrete Vaulted Storage Tank.....	68,379.18	3,865.84
23 13 23 26-0006 EA 5,000 Gallon Concrete Vaulted Storage Tank.....	78,054.74	4,222.14
23 13 23 26-0007 EA 6,000 Gallon Concrete Vaulted Storage Tank.....	87,806.00	4,559.60
23 13 23 26-0008 EA 8,000 Gallon Concrete Vaulted Storage Tank.....	97,537.10	4,947.76
23 13 23 26-0009 EA 10,000 Gallon Concrete Vaulted Storage Tank.....	107,261.97	5,266.66
23 13 33 Facility Fuel-Oil, Storage Tank Accessories (23 13)		
23 13 33 00-0001 EPA Requirements (23 13 33)		
23 13 33 00-0002 EA Fill Pipe Spill Containment Manhole (5 Gallon).....	597.24	
23 13 33 00-0003 EA Over-Fill Prevention Valve.....	1,293.62	
23 13 33 00-0004 EA Tank Manway With Cover, Fiberglass.....	2,075.26	
23 13 33 00-0005 EA Tank Manway With Cover, Steel.....	1,984.02	
23 13 33 00-0006 EA Vent Fill Alarm (Whistle Vent).....	102.39	
23 13 33 00-0007 EA Reservoir Sensor, Liquid Level.....	259.79	
23 13 33 00-0008 EA Manhole Spill Containment.....	981.90	224.47
23 13 33 00-0009 EA Fill Adapter, 4".....	242.90	149.68
23 13 33 00-0010 EA Fill Cap, 4".....	161.37	56.11
23 13 33 00-0011 EA 2" Vent Cap.....	99.77	37.45
23 13 33 00-0012 EA 4" x 2" Extractor Fitting.....	284.02	56.11
23 13 33 00-0013 EA Float Vent Valve.....	352.21	112.23
23 13 33 00-0014 EA Vapor Hose Adapter.....	288.06	74.79
23 13 33 00-0015 EA Dust Cap.....	130.77	40.85
23 13 33 00-0016 EA 1" Double Poppet Foot Valve.....	413.72	64.11
23 13 33 00-0017 EA 10' Wood Gage Stick.....	32.54	
23 13 33 00-0018 EA 1-1/4" Tank Filled Breather, NPT.....	97.00	
23 13 33 00-0019 EA 1-1/2" Tank Filled Breather, Bayonet.....	127.31	
23 13 33 00-0020 EA 2" Cast Iron Combination Fill Cap And Vent.....	66.05	
23 13 33 00-0021 EA 3" Cast Iron Combination Fill Cap And Vent.....	88.38	
23 13 33 00-0022 EA 4" Cast Iron Combination Fill Cap And Vent.....	137.41	
23 13 33 00-0023 EA Pressure And Vacuum Control Vent.....	533.34	
23 13 33 00-0024 EA 1/4 HP Fuel/Diesel Pump Set.....	1,169.51	
23 13 33 00-0025 EA 1/3 HP Fuel/Diesel Pump Set.....	1,379.64	
23 13 33 00-0026 EA 1/2 HP Fuel/Diesel Pump Set.....	1,505.80	
23 13 33 00-0027 EA 3/4 HP Fuel/Diesel Pump Set.....	1,652.27	
23 13 33 00-0028 EA 1 HP Fuel/Diesel Pump Set.....	2,337.14	
23 13 33 00-0029 EA 1-1/2 HP Fuel/Diesel Pump Set.....	2,875.88	
23 13 33 00-0030 EA 2 HP Fuel/Diesel Pump Set.....	3,185.41	
23 13 33 00-0031 EA 3 HP Fuel/Diesel Pump Set.....	3,901.86	
23 13 33 00-0032 EA 5 HP Fuel/Diesel Pump Set.....	4,610.68	
23 13 33 00-0033 EA 7.5 HP Fuel/Diesel Pump Set.....	5,161.37	
23 13 33 00-0034 EA 10 HP Fuel/Diesel Pump Set.....	5,955.59	
23 13 33 00-0035 Tank Bulkhead Fittings (23 13 33)		
23 13 33 00-0036 Tank Bulkhead Fittings (23 13 33 00-0035)		
23 13 33 00-0037 Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)		
23 13 33 00-0038 EA 1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	37.60	
23 13 33 00-0039 EA 3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	42.01	
23 13 33 00-0040 EA 1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	46.17	
23 13 33 00-0041 EA 1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	55.52	
23 13 33 00-0042 EA 1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	57.45	
23 13 33 00-0043 EA 2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	74.85	
23 13 33 00-0044 EA 3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	117.24	
23 13 33 00-0045 EA 4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Socket x Thread.....	203.15	
23 13 33 00-0046 Polyvinyl Chloride (PVC) Tank Bulkhead Fittings, Thread x Threaded Connection (23 13 33 00-0036)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 10 Facility Fuel Systems****23 13 Facility Fuel-Storage Tanks**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 13 33 00-0047	EA	1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	43.45
23 13 33 00-0048	EA	3/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	47.84
23 13 33 00-0049	EA	1" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	52.23
23 13 33 00-0050	EA	1-1/4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	64.94
23 13 33 00-0051	EA	1-1/2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	69.34
23 13 33 00-0052	EA	2" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	85.63
23 13 33 00-0053	EA	3" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	131.60
23 13 33 00-0054	EA	4" Polyvinyl Chloride (PVC) Bulkhead Fitting, Thread x Thread	223.56

23 13 33 00-0055 Chlorinated Polyvinyl Chloride (CPVC) Tank Bulkhead Fittings, Socket x Threaded Connection (23 13 33 00-0036)

23 13 33 00-0056	EA	1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	44.78
23 13 33 00-0057	EA	3/4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	51.67
23 13 33 00-0058	EA	1" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	58.30
23 13 33 00-0059	EA	1-1/2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	75.17
23 13 33 00-0060	EA	2" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	97.74
23 13 33 00-0061	EA	3" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	151.13
23 13 33 00-0062	EA	4" Chlorinated Polyvinyl Chloride (CPVC) Bulkhead Fitting, Socket x Thread	235.69

23 13 33 00-0063 Polypropylene Tank Bulkhead Fitting Thread x Threaded Connection (23 13 33 00-0036)

23 13 33 00-0064	EA	1/2" Polypropylene Bulkhead Fitting, Thread x Thread	52.20
23 13 33 00-0065	EA	3/4" Polypropylene Bulkhead Fitting, Thread x Thread	61.54
23 13 33 00-0066	EA	1" Polypropylene Bulkhead Fitting, Thread x Thread	75.57
23 13 33 00-0067	EA	1-1/4" Polypropylene Bulkhead Fitting, Thread x Thread	91.86
23 13 33 00-0068	EA	1-1/2" Polypropylene Bulkhead Fitting, Thread x Thread	93.79
23 13 33 00-0069	EA	2" Polypropylene Bulkhead Fitting, Thread x Thread	133.41
23 13 33 00-0070	EA	3" Polypropylene Bulkhead Fitting, Thread x Thread	237.28
23 13 33 00-0071	EA	4" Polypropylene Bulkhead Fitting, Thread x Thread	421.93

23 13 33 00-0072 Polyethylene Tank Bulkhead Fittings Thread x Threaded Connection (23 13 33 00-0036)

23 13 33 00-0073	EA	3/4" Polyethylene Bulkhead Fitting, Thread x Thread	46.27
23 13 33 00-0074	EA	1" Polyethylene Bulkhead Fitting, Thread x Thread	59.35
23 13 33 00-0075	EA	1-1/4" Polyethylene Bulkhead Fitting, Thread x Thread	61.28
23 13 33 00-0076	EA	1-1/2" Polyethylene Bulkhead Fitting, Thread x Thread	63.21
23 13 33 00-0077	EA	2" Polyethylene Bulkhead Fitting, Thread x Thread	87.41
23 13 33 00-0078	EA	3" Polyethylene Bulkhead Fitting, Thread x Thread	110.13

23 13 33 00-0079 TFE Teflon Tank Bulkhead Fittings, Thread x Threaded Connection (23 13 33 00-0036)

23 13 33 00-0080	EA	1/8" TFE Teflon Bulkhead Fitting, Thread x Thread	192.66
23 13 33 00-0081	EA	1/4" TFE Teflon Bulkhead Fitting, Thread x Thread	220.22
23 13 33 00-0082	EA	3/8" TFE Teflon Bulkhead Fitting, Thread x Thread	270.52
23 13 33 00-0083	EA	1/2" TFE Teflon Bulkhead Fitting, Thread x Thread	311.79
23 13 33 00-0084	EA	3/4" TFE Teflon Bulkhead Fitting, Thread x Thread	359.19
23 13 33 00-0085	EA	1" TFE Teflon Bulkhead Fitting, Thread x Thread	452.16
23 13 33 00-0086	EA	1-1/2" TFE Teflon Bulkhead Fitting, Thread x Thread	587.12
23 13 33 00-0087	EA	2" TFE Teflon Bulkhead Fitting, Thread x Thread	648.60

23 13 33 00-0088 Self-Aligning Bulkhead Fittings (23 13 33 00-0035)

23 13 33 00-0089	EA	3/4" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	197.78
23 13 33 00-0090	EA	1" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	198.20
23 13 33 00-0091	EA	1-1/2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	288.71
23 13 33 00-0092	EA	2" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	294.84
23 13 33 00-0093	EA	3" Self-Aligning Polyvinyl Chloride (PVC) Bulkhead Fitting	397.07

23 20 HVAC Piping And Pumps (23)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 Hydronic Piping And Pumps (23 20)**23 21 13 Hydronic Piping** (23 21)

Note: The demolition price for only the length of pipe (LF) shall be used for lengths (LF) of pipe removal which do include the fittings, valves, and insulation. The demolition price for individual fittings, valves, and insulation shall not be used in conjunction with pipe (LF) demolition tasks.

23 21 13 23 Aboveground Hydronic Piping (23 21 13)**23 21 13 23-0001 Threaded Black Steel Pipe** (23 21 13 23)**23 21 13 23-0002 Threaded Black Steel Pipe Assemblies** (23 21 13 23-0001)

Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0003 LF 1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.58 3.65 3.67	3.55
23 21 13 23-0004 LF 3/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.79 4.00 3.83	3.81
23 21 13 23-0005 LF 1" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.24 4.41 4.04	4.18
23 21 13 23-0006 LF 1-1/4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	21.40 5.38 4.36	4.35
23 21 13 23-0007 LF 1-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.42 5.71 4.43	5.15
23 21 13 23-0008 LF 2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.35 6.83 4.98	6.22
23 21 13 23-0009 LF 2-1/2" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.27 10.12 6.19	7.36
23 21 13 23-0010 LF 3" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.04 12.89 7.58	9.85
23 21 13 23-0011 LF 4" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.97 18.64 8.23	11.39
23 21 13 23-0012 LF 5" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	100.08 30.80 9.80	14.56
23 21 13 23-0013 LF 6" Schedule 40 Threaded Black Steel Pipe With 150 LB Malleable Iron Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Schedule 80 Pipe With 300 LB Malleable Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	118.55 36.75 11.11	17.22
23 21 13 23-0014 Threaded Black Steel Pipe And Fittings (23 21 13 23-0001) Note: ASTM A-53 pipe and A-105 fittings. Threaded and coupled, schedule 40. Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-0015 Threaded And Coupled, Black Steel Piping (23 21 13 23-0014) Note: ASTM A-53. Includes coupling.		
23 21 13 23-0016 LF 3/8" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	5.52 0.91 1.35	2.22
23 21 13 23-0017 LF 1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	7.10 1.31 1.61	3.55
23 21 13 23-0018 LF 3/4" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	7.94 1.57 1.72	3.81
23 21 13 23-0019 LF 1" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	9.17 1.95 1.86	4.18
23 21 13 23-0020 LF 1-1/4" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.54 2.44 1.97	4.35
23 21 13 23-0021 LF 1-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	12.47 2.91 2.32	5.15
23 21 13 23-0022 LF 2" Schedule 40, Threaded And Coupled, Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.57 3.73 2.81	6.22

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0023 LF 2-1/2" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.92 5.53 3.33	7.36
23 21 13 23-0024 LF 3" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.65 7.27 4.44	9.85
23 21 13 23-0025 LF 4" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.35 10.36 5.14	11.39
23 21 13 23-0026 LF 5" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.34 13.67 6.54	14.56
23 21 13 23-0027 LF 6" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.47 17.74 7.74	17.22
23 21 13 23-0028 LF 8" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	81.10 25.60 9.34	20.81
23 21 13 23-0029 LF 10" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.79 35.63 11.42	25.35
23 21 13 23-0030 LF 12" Schedule 40, Threaded And Coupled, Black Steel Pipe..... <i>For Schedule 80 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.04 47.78 14.99	33.32
23 21 13 23-0031 Black Malleable Iron 90 Degree Elbows (23 21 13 23-0014)		
23 21 13 23-0032 EA 3/8", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.75 10.86 0.06 5.92	9.85
23 21 13 23-0033 EA 1/2", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.45 8.12 0.04 7.10	15.80
23 21 13 23-0034 EA 3/4", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	29.86 9.68 0.05 7.95	17.66
23 21 13 23-0035 EA 1", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	35.44 15.82 0.09 8.88	19.70
23 21 13 23-0036 EA 1-1/4", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.13 25.15 0.15 10.05	22.37
23 21 13 23-0037 EA 1-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.46 32.72 0.20 11.33	25.20
23 21 13 23-0038 EA 2", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.85 55.39 0.35 14.39	32.05
23 21 13 23-0039 EA 2-1/2", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.74 121.24 0.78 21.30	47.40
23 21 13 23-0040 EA 3", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	164.75 176.77 1.14 28.03	62.31
23 21 13 23-0041 EA 4", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	253.11 373.63 2.45 29.98	66.63
23 21 13 23-0042 EA 5", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	551.89 1,080.54 7.16 31.28	69.54
23 21 13 23-0043 EA 6", 150 LB, Black Malleable Iron 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	626.08 1,247.51 8.27 32.70	72.71
23 21 13 23-0044 Black Malleable Iron Reducing 90 Degree Elbows (23 21 13 23-0014)		
23 21 13 23-0045 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.00 14.05 0.08 6.51	14.47



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0046 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	30.55	16.68
For 300 LB Rating, Add	14.63	
For Standard Weight Cast Iron Fittings, Add	0.09	
For Work In Restricted Working Space, Add	7.52	
23 21 13 23-0047 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	30.76	15.44
For 300 LB Rating, Add	19.75	
For Standard Weight Cast Iron Fittings, Add	0.12	
For Work In Restricted Working Space, Add	6.93	
23 21 13 23-0048 EA 1" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	35.07	18.72
For 300 LB Rating, Add	18.55	
For Standard Weight Cast Iron Fittings, Add	0.11	
For Work In Restricted Working Space, Add	8.41	
23 21 13 23-0049 EA 1" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	34.20	17.75
For 300 LB Rating, Add	19.79	
For Standard Weight Cast Iron Fittings, Add	0.12	
For Work In Restricted Working Space, Add	7.99	
23 21 13 23-0050 EA 1" x 3/8", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	39.58	16.42
For 300 LB Rating, Add	37.29	
For Standard Weight Cast Iron Fittings, Add	0.24	
For Work In Restricted Working Space, Add	7.40	
23 21 13 23-0051 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	43.34	21.04
For 300 LB Rating, Add	30.24	
For Standard Weight Cast Iron Fittings, Add	0.19	
For Work In Restricted Working Space, Add	9.46	
23 21 13 23-0052 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	43.17	19.97
For 300 LB Rating, Add	33.43	
For Standard Weight Cast Iron Fittings, Add	0.21	
For Work In Restricted Working Space, Add	9.00	
23 21 13 23-0053 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	43.97	19.09
For 300 LB Rating, Add	38.65	
For Standard Weight Cast Iron Fittings, Add	0.25	
For Work In Restricted Working Space, Add	8.57	
23 21 13 23-0054 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	52.29	23.78
For 300 LB Rating, Add	42.12	
For Standard Weight Cast Iron Fittings, Add	0.27	
For Work In Restricted Working Space, Add	10.69	
23 21 13 23-0055 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	50.33	22.46
For 300 LB Rating, Add	42.00	
For Standard Weight Cast Iron Fittings, Add	0.27	
For Work In Restricted Working Space, Add	10.10	
23 21 13 23-0056 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	51.20	21.39
For 300 LB Rating, Add	47.70	
For Standard Weight Cast Iron Fittings, Add	0.31	
For Work In Restricted Working Space, Add	9.64	
23 21 13 23-0057 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	67.01	28.58
For 300 LB Rating, Add	60.51	
For Standard Weight Cast Iron Fittings, Add	0.39	
For Work In Restricted Working Space, Add	12.86	
23 21 13 23-0058 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	68.16	27.16
For 300 LB Rating, Add	68.28	
For Standard Weight Cast Iron Fittings, Add	0.44	
For Work In Restricted Working Space, Add	12.22	
23 21 13 23-0059 EA 2" x 1", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	66.21	25.83
For 300 LB Rating, Add	68.16	
For Standard Weight Cast Iron Fittings, Add	0.44	
For Work In Restricted Working Space, Add	11.63	
23 21 13 23-0060 EA 2" x 3/4", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	66.32	24.85
For 300 LB Rating, Add	72.03	
For Standard Weight Cast Iron Fittings, Add	0.47	
For Work In Restricted Working Space, Add	11.17	
23 21 13 23-0061 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	125.73	39.67
For 300 LB Rating, Add	162.55	
For Standard Weight Cast Iron Fittings, Add	1.06	
For Work In Restricted Working Space, Add	17.85	
23 21 13 23-0062 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	124.53	36.30
For 300 LB Rating, Add	171.60	
For Standard Weight Cast Iron Fittings, Add	1.12	
For Work In Restricted Working Space, Add	16.32	
23 21 13 23-0063 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	206.18	54.85
For 300 LB Rating, Add	302.46	
For Standard Weight Cast Iron Fittings, Add	1.98	
For Work In Restricted Working Space, Add	24.66	
23 21 13 23-0064 EA 3" x 2", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	177.79	47.13
For 300 LB Rating, Add	261.26	
For Standard Weight Cast Iron Fittings, Add	1.71	
For Work In Restricted Working Space, Add	21.21	
23 21 13 23-0065 EA 4" x 3", 150 LB, Black Malleable Iron Reducing 90 Degree Elbow.....	306.93	63.38
For 300 LB Rating, Add	514.22	
For Standard Weight Cast Iron Fittings, Add	3.39	
For Work In Restricted Working Space, Add	28.52	

23 21 13 23-0066 Black Malleable Iron 45 Degree Elbows (23 21 13 23-0014)

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0067 EA 3/8", 150 LB, Black Malleable Iron 45 Degree Elbow	25.79	9.85
For 300 LB Rating, Add	15.75	
For Standard Weight Cast Iron Fittings, Add	0.10	
For Work In Restricted Working Space, Add	5.92	
23 21 13 23-0068 EA 1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	28.27	15.80
For 300 LB Rating, Add	12.48	
For Standard Weight Cast Iron Fittings, Add	0.07	
For Work In Restricted Working Space, Add	7.10	
23 21 13 23-0069 EA 3/4", 150 LB, Black Malleable Iron 45 Degree Elbow	32.19	17.66
For 300 LB Rating, Add	15.27	
For Standard Weight Cast Iron Fittings, Add	0.09	
For Work In Restricted Working Space, Add	7.95	
23 21 13 23-0070 EA 1", 150 LB, Black Malleable Iron 45 Degree Elbow	36.76	19.70
For 300 LB Rating, Add	18.98	
For Standard Weight Cast Iron Fittings, Add	0.11	
For Work In Restricted Working Space, Add	8.88	
23 21 13 23-0071 EA 1-1/4", 150 LB, Black Malleable Iron 45 Degree Elbow	46.19	22.37
For 300 LB Rating, Add	32.49	
For Standard Weight Cast Iron Fittings, Add	0.20	
For Work In Restricted Working Space, Add	10.05	
23 21 13 23-0072 EA 1-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	53.48	25.20
For 300 LB Rating, Add	39.97	
For Standard Weight Cast Iron Fittings, Add	0.25	
For Work In Restricted Working Space, Add	11.33	
23 21 13 23-0073 EA 2", 150 LB, Black Malleable Iron 45 Degree Elbow	71.72	32.05
For 300 LB Rating, Add	59.88	
For Standard Weight Cast Iron Fittings, Add	0.38	
For Work In Restricted Working Space, Add	14.39	
23 21 13 23-0074 EA 2-1/2", 150 LB, Black Malleable Iron 45 Degree Elbow	139.72	47.40
For 300 LB Rating, Add	169.19	
For Standard Weight Cast Iron Fittings, Add	1.10	
For Work In Restricted Working Space, Add	21.30	
23 21 13 23-0075 EA 3", 150 LB, Black Malleable Iron 45 Degree Elbow	182.69	62.31
For 300 LB Rating, Add	219.83	
For Standard Weight Cast Iron Fittings, Add	1.43	
For Work In Restricted Working Space, Add	28.03	
23 21 13 23-0076 EA 4", 150 LB, Black Malleable Iron 45 Degree Elbow	274.97	66.63
For 300 LB Rating, Add	426.09	
For Standard Weight Cast Iron Fittings, Add	2.80	
For Work In Restricted Working Space, Add	29.98	
23 21 13 23-0077 EA 5", 150 LB, Black Malleable Iron 45 Degree Elbow	795.70	69.54
For 300 LB Rating, Add	1,665.69	
For Standard Weight Cast Iron Fittings, Add	11.06	
For Work In Restricted Working Space, Add	31.28	
23 21 13 23-0078 EA 6", 150 LB, Black Malleable Iron 45 Degree Elbow	816.42	72.71
For 300 LB Rating, Add	1,704.32	
For Standard Weight Cast Iron Fittings, Add	11.32	
For Work In Restricted Working Space, Add	32.70	
23 21 13 23-0079 Black Malleable Iron Tees (23 21 13 23-0014)		
23 21 13 23-0080 EA 3/8", 150 LB, Black Malleable Iron Tee	30.50	12.34
For 300 LB Rating, Add	15.52	
For Standard Weight Cast Iron Fittings, Add	0.09	
For Work In Restricted Working Space, Add	7.40	
23 21 13 23-0081 EA 1/2", 150 LB, Black Malleable Iron Tee	33.32	19.70
For 300 LB Rating, Add	10.73	
For Standard Weight Cast Iron Fittings, Add	0.06	
For Work In Restricted Working Space, Add	8.88	
23 21 13 23-0082 EA 3/4", 150 LB, Black Malleable Iron Tee	39.49	22.81
For 300 LB Rating, Add	14.89	
For Standard Weight Cast Iron Fittings, Add	0.09	
For Work In Restricted Working Space, Add	10.24	
23 21 13 23-0083 EA 1", 150 LB, Black Malleable Iron Tee	49.52	26.89
For 300 LB Rating, Add	24.43	
For Standard Weight Cast Iron Fittings, Add	0.15	
For Work In Restricted Working Space, Add	12.11	
23 21 13 23-0084 EA 1-1/4", 150 LB, Black Malleable Iron Tee	62.82	32.05
For 300 LB Rating, Add	38.52	
For Standard Weight Cast Iron Fittings, Add	0.24	
For Work In Restricted Working Space, Add	14.39	
23 21 13 23-0085 EA 1-1/2", 150 LB, Black Malleable Iron Tee	75.73	38.16
For 300 LB Rating, Add	47.76	
For Standard Weight Cast Iron Fittings, Add	0.30	
For Work In Restricted Working Space, Add	17.18	
23 21 13 23-0086 EA 2", 150 LB, Black Malleable Iron Tee	102.48	47.40
For 300 LB Rating, Add	79.81	
For Standard Weight Cast Iron Fittings, Add	0.50	
For Work In Restricted Working Space, Add	21.30	
23 21 13 23-0087 EA 2-1/2", 150 LB, Black Malleable Iron Tee	161.29	62.31
For 300 LB Rating, Add	168.47	
For Standard Weight Cast Iron Fittings, Add	1.09	
For Work In Restricted Working Space, Add	28.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0088 EA 3", 150 LB, Black Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	210.91 246.56 1.60 33.29	74.02
23 21 13 23-0089 EA 4", 150 LB, Black Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	367.83 587.44 3.87 37.87	84.19
23 21 13 23-0090 EA 5", 150 LB, Black Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	882.05 1,766.18 11.71 44.97	99.95
23 21 13 23-0091 EA 6", 150 LB, Black Malleable Iron Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	957.03 1,896.05 12.57 51.39	114.26
23 21 13 23-0092 Black Malleable Iron Reducing Tees (23 21 13 23-0014)		
23 21 13 23-0093 EA 1/2", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	35.94 17.02 0.10 8.88	19.70
23 21 13 23-0094 EA 3/4", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.42 21.92 0.13 10.24	22.81
23 21 13 23-0095 EA 1", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.80 27.50 0.17 12.11	26.89
23 21 13 23-0096 EA 1-1/4", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	68.51 52.17 0.33 14.39	32.05
23 21 13 23-0097 EA 1-1/2", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	80.02 58.06 0.36 17.18	38.16
23 21 13 23-0098 EA 2", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	104.04 83.56 0.53 21.30	47.40
23 21 13 23-0099 EA 2-1/2", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	196.37 252.66 1.65 28.03	62.31
23 21 13 23-0100 EA 3", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	228.86 289.64 1.89 33.29	74.02
23 21 13 23-0101 EA 4", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	412.17 693.85 4.58 37.87	84.19
23 21 13 23-0102 EA 5", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	813.15 1,600.82 10.61 44.97	99.95
23 21 13 23-0103 EA 6", 150 LB, Black Malleable Iron Reducing Tee..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	923.59 1,815.80 12.04 51.39	114.26
23 21 13 23-0104 Black Malleable Iron Couplings (23 21 13 23-0014)		
23 21 13 23-0105 EA 3/8", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.73 13.21 0.08 5.92	9.85
23 21 13 23-0106 EA 1/2", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	27.52 10.68 0.06 7.10	15.80
23 21 13 23-0107 EA 3/4", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.01 12.44 0.07 7.95	17.66
23 21 13 23-0108 EA 1", 150 LB, Black Malleable Iron Coupling..... <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.36 18.02 0.11 8.88	19.70

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0109	EA	1-1/4", 150 LB, Black Malleable Iron Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	42.25 23.03 0.14 10.05	22.37
23 21	13 23-0110	EA	1-1/2", 150 LB, Black Malleable Iron Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.61 30.68 0.19 11.33	25.20
23 21	13 23-0111	EA	2", 150 LB, Black Malleable Iron Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.52 45.00 0.28 14.39	32.05
23 21	13 23-0112	EA	2-1/2", 150 LB, Black Malleable Iron Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	119.42 120.47 0.77 21.30	47.40
23 21	13 23-0113	EA	3", 150 LB, Black Malleable Iron Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	158.90 162.73 1.05 28.03	62.31
23 21	13 23-0114	EA	4", 150 LB, Black Malleable Iron Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	231.78 322.44 2.11 29.98	66.63
23 21	13 23-0115	EA	5", 150 LB, Black Malleable Iron Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	475.53 897.28 5.94 31.28	69.54
23 21	13 23-0116	EA	6", 150 LB, Black Malleable Iron Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	531.97 1,021.64 6.77 32.70	72.71
23 21	13 23-0117		Black Malleable Iron Reducing Couplings (2321 13 23-0014)		
23 21	13 23-0118	EA	1/2", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	28.45 12.92 0.08 7.10	15.80
23 21	13 23-0119	EA	3/4", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.56 13.76 0.08 7.95	17.66
23 21	13 23-0120	EA	1", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	37.49 20.74 0.13 8.88	19.70
23 21	13 23-0121	EA	1-1/4", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.65 26.39 0.16 10.05	22.37
23 21	13 23-0122	EA	1-1/2", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	50.60 33.06 0.21 11.33	25.20
23 21	13 23-0123	EA	2", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	66.57 47.52 0.30 14.39	32.05
23 21	13 23-0124	EA	2-1/2", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	125.96 136.16 0.88 21.30	47.40
23 21	13 23-0125	EA	3", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	160.24 165.95 1.07 28.03	62.31
23 21	13 23-0126	EA	4", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	233.84 327.38 2.14 29.98	66.63
23 21	13 23-0127	EA	5", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	405.25 728.61 4.82 31.28	69.54
23 21	13 23-0128	EA	6", 150 LB, Black Malleable Iron Reducing Coupling <i>For 300 LB Rating, Add</i> <i>For Standard Weight Cast Iron Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	495.60 934.36 6.19 32.70	72.71
23 21	13 23-0129		Black Malleable Iron Caps (2321 13 23-0014)		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0130 EA 1/2", 150 LB, Black Malleable Iron Cap.....	13.92	7.36
For 300 LB Rating, Add	7.43	
For Standard Weight Cast Iron Fittings, Add	0.05	
For Work In Restricted Working Space, Add	3.33	
23 21 13 23-0131 EA 3/4", 150 LB, Black Malleable Iron Cap.....	15.65	7.90
For 300 LB Rating, Add	9.88	
For Standard Weight Cast Iron Fittings, Add	0.06	
For Work In Restricted Working Space, Add	3.55	
23 21 13 23-0132 EA 1", 150 LB, Black Malleable Iron Cap.....	18.27	9.15
For 300 LB Rating, Add	11.91	
For Standard Weight Cast Iron Fittings, Add	0.07	
For Work In Restricted Working Space, Add	4.10	
23 21 13 23-0133 EA 1-1/4", 150 LB, Black Malleable Iron Cap.....	20.88	9.85
For 300 LB Rating, Add	15.50	
For Standard Weight Cast Iron Fittings, Add	0.10	
For Work In Restricted Working Space, Add	4.44	
23 21 13 23-0134 EA 1-1/2", 150 LB, Black Malleable Iron Cap.....	23.16	9.85
For 300 LB Rating, Add	20.98	
For Standard Weight Cast Iron Fittings, Add	0.13	
For Work In Restricted Working Space, Add	4.44	
23 21 13 23-0135 EA 2", 150 LB, Black Malleable Iron Cap.....	31.31	12.69
For 300 LB Rating, Add	30.47	
For Standard Weight Cast Iron Fittings, Add	0.20	
For Work In Restricted Working Space, Add	5.73	
23 21 13 23-0136 EA 2-1/2", 150 LB, Black Malleable Iron Cap.....	51.69	15.80
For 300 LB Rating, Add	68.69	
For Standard Weight Cast Iron Fittings, Add	0.45	
For Work In Restricted Working Space, Add	7.10	
23 21 13 23-0137 EA 3", 150 LB, Black Malleable Iron Cap.....	69.96	19.09
For 300 LB Rating, Add	100.91	
For Standard Weight Cast Iron Fittings, Add	0.66	
For Work In Restricted Working Space, Add	8.59	
23 21 13 23-0138 EA 4", 150 LB, Black Malleable Iron Cap.....	105.14	22.87
For 300 LB Rating, Add	172.17	
For Standard Weight Cast Iron Fittings, Add	1.13	
For Work In Restricted Working Space, Add	10.28	
23 21 13 23-0139 EA 5", 150 LB, Black Malleable Iron Cap.....	211.74	28.60
For 300 LB Rating, Add	407.98	
For Standard Weight Cast Iron Fittings, Add	2.70	
For Work In Restricted Working Space, Add	12.85	
23 21 13 23-0140 EA 6", 150 LB, Black Malleable Iron Cap.....	360.67	34.00
For 300 LB Rating, Add	746.22	
For Standard Weight Cast Iron Fittings, Add	4.95	
For Work In Restricted Working Space, Add	15.31	
23 21 13 23-0141 Black Malleable Iron Unions (23 21 13 23-0014)		
23 21 13 23-0142 EA 3/8", 150 LB, Black Malleable Iron Union.....	33.25	9.85
For Work In Restricted Working Space, Add	5.92	
23 21 13 23-0143 EA 1/2", 150 LB, Black Malleable Iron Union.....	41.84	19.70
For Work In Restricted Working Space, Add	8.88	
23 21 13 23-0144 EA 3/4", 150 LB, Black Malleable Iron Union.....	48.22	22.81
For Work In Restricted Working Space, Add	10.24	
23 21 13 23-0145 EA 1", 150 LB, Black Malleable Iron Union.....	58.70	26.89
For Work In Restricted Working Space, Add	12.11	
23 21 13 23-0146 EA 1-1/4", 150 LB, Black Malleable Iron Union.....	74.29	32.05
For Work In Restricted Working Space, Add	14.39	
23 21 13 23-0147 EA 1-1/2", 150 LB, Black Malleable Iron Union.....	90.08	38.16
For Work In Restricted Working Space, Add	17.18	
23 21 13 23-0148 EA 2", 150 LB, Black Malleable Iron Union.....	109.16	47.40
For Work In Restricted Working Space, Add	21.30	
23 21 13 23-0149 EA 2-1/2", 150 LB, Black Malleable Iron Union.....	218.51	69.86
For Work In Restricted Working Space, Add	31.45	
23 21 13 23-0150 EA 3", 150 LB, Black Malleable Iron Union.....	274.79	91.86
For Work In Restricted Working Space, Add	41.38	
23 21 13 23-0151 EA 3/8", 250 LB, Black Malleable Iron Union.....	37.60	9.85
For Work In Restricted Working Space, Add	5.92	
23 21 13 23-0152 EA 1/2", 250 LB, Black Malleable Iron Union.....	50.10	19.70
For Work In Restricted Working Space, Add	8.87	
23 21 13 23-0153 EA 3/4", 250 LB, Black Malleable Iron Union.....	54.32	22.81
For Work In Restricted Working Space, Add	10.24	
23 21 13 23-0154 EA 1", 250 LB, Black Malleable Iron Union.....	65.11	26.89
For Work In Restricted Working Space, Add	12.10	
23 21 13 23-0155 EA 1-1/4", 250 LB, Black Malleable Iron Union.....	89.52	32.05
For Work In Restricted Working Space, Add	14.39	
23 21 13 23-0156 EA 1-1/2", 250 LB, Black Malleable Iron Union.....	105.11	38.16
For Work In Restricted Working Space, Add	17.18	
23 21 13 23-0157 EA 2", 250 LB, Black Malleable Iron Union.....	132.37	47.40
For Work In Restricted Working Space, Add	21.30	
23 21 13 23-0158 EA 2-1/2", 250 LB, Black Malleable Iron Union.....	297.18	69.86
For Work In Restricted Working Space, Add	31.45	
23 21 13 23-0159 EA 3", 250 LB, Black Malleable Iron Union.....	363.05	91.86
For Work In Restricted Working Space, Add	41.38	
23 21 13 23-0160 EA 4", 250 LB, Black Malleable Iron Union.....	546.54	98.33
For Work In Restricted Working Space, Add	44.25	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0161	EA	3/8", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	48.74 5.92	9.85
23 21	13 23-0162	EA	1/2", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	53.06 8.87	19.70
23 21	13 23-0163	EA	3/4", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	60.14 10.24	22.81
23 21	13 23-0164	EA	1", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	74.29 12.10	26.89
23 21	13 23-0165	EA	1-1/4", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	103.34 14.39	32.05
23 21	13 23-0166	EA	1-1/2", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	115.25 17.18	38.16
23 21	13 23-0167	EA	2", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	142.82 21.30	47.40
23 21	13 23-0168	EA	2-1/2", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	336.37 31.45	69.86
23 21	13 23-0169	EA	3", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	437.47 41.38	91.86
23 21	13 23-0170	EA	4", 300 LB, Black Malleable Iron Union <i>For Work In Restricted Working Space, Add</i>	1,098.25 44.25	98.33
23 21 13 23-0171 Black Steel Nipples (23 21 13 23-0014)					
23 21	13 23-0172	EA	3/8" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.97 0.65 3.80	8.43
23 21	13 23-0173	EA	1/2" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.77 0.55 3.80	8.43
23 21	13 23-0174	EA	3/4" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.93 0.63 3.80	8.43
23 21	13 23-0175	EA	1" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.47 0.91 4.10	9.15
23 21	13 23-0176	EA	1-1/4" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.09 1.15 4.44	9.85
23 21	13 23-0177	EA	1-1/2" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.66 1.44 4.44	9.85
23 21	13 23-0178	EA	2" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.00 1.96 5.73	12.69
23 21	13 23-0179	EA	2-1/2" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	35.89 6.12 7.10	15.80
23 21	13 23-0180	EA	3" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	43.16 7.27 8.59	19.09
23 21	13 23-0181	EA	4" x Close, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.14 10.94 10.28	22.87
23 21	13 23-0182	EA	3/8" x 1-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.15 0.74 3.80	8.43
23 21	13 23-0183	EA	1/2" x 1-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.77 0.55 3.80	8.43
23 21	13 23-0184	EA	3/4" x 1-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.03 0.68 3.80	8.43
23 21	13 23-0185	EA	3/8" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.15 0.74 3.80	8.43
23 21	13 23-0186	EA	1/2" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.77 0.55 3.80	8.43
23 21	13 23-0187	EA	3/4" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.03 0.68 3.80	8.43
23 21	13 23-0188	EA	1" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.64 1.00 4.10	9.15
23 21	13 23-0189	EA	1-1/4" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.40 1.31 4.44	9.85
23 21	13 23-0190	EA	1-1/2" x 2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.89 1.55 4.44	9.85
23 21	13 23-0191	EA	3/8" x 2-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.57 0.95 3.80	8.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0192 EA 1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.97 0.65 3.80	8.43
23 21 13 23-0193 EA 3/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.20 0.76 3.80	8.43
23 21 13 23-0194 EA 1" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.76 1.06 4.10	9.15
23 21 13 23-0195 EA 1-1/4" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.56 1.39 4.44	9.85
23 21 13 23-0196 EA 1-1/2" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.25 1.73 4.44	9.85
23 21 13 23-0197 EA 2" x 2-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.57 2.24 5.73	12.69
23 21 13 23-0198 EA 3/8" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.57 0.95 3.80	8.43
23 21 13 23-0199 EA 1/2" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.97 0.65 3.80	8.43
23 21 13 23-0200 EA 3/4" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.20 0.76 3.80	8.43
23 21 13 23-0201 EA 1" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.76 1.06 4.10	9.15
23 21 13 23-0202 EA 1-1/4" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.56 1.39 4.44	9.85
23 21 13 23-0203 EA 1-1/2" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.25 1.73 4.44	9.85
23 21 13 23-0204 EA 2" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.57 2.24 5.73	12.69
23 21 13 23-0205 EA 2-1/2" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.21 6.28 7.10	15.80
23 21 13 23-0206 EA 3" x 3" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	44.43 7.90 8.59	19.09
23 21 13 23-0207 EA 3/8" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.90 1.11 3.80	8.43
23 21 13 23-0208 EA 1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.23 0.78 3.80	8.43
23 21 13 23-0209 EA 3/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.57 0.95 3.80	8.43
23 21 13 23-0210 EA 1" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.26 1.31 4.10	9.15
23 21 13 23-0211 EA 1-1/4" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.08 1.65 4.44	9.85
23 21 13 23-0212 EA 1-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.67 1.94 4.44	9.85
23 21 13 23-0213 EA 2" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.52 2.72 5.73	12.69
23 21 13 23-0214 EA 2-1/2" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	38.42 7.38 7.10	15.80
23 21 13 23-0215 EA 3" x 3-1/2" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.34 9.36 8.59	19.09
23 21 13 23-0216 EA 3/8" x 4" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.90 1.11 3.80	8.43
23 21 13 23-0217 EA 1/2" x 4" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.23 0.78 3.80	8.43
23 21 13 23-0218 EA 3/4" x 4" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.57 0.95 3.80	8.43
23 21 13 23-0219 EA 1" x 4" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.26 1.31 4.10	9.15

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0220	EA	1-1/4" x 4" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.08 1.65 4.44	9.85
23 21	13 23-0221	EA	1-1/2" x 4" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.67 1.94 4.44	9.85
23 21	13 23-0222	EA	2" x 4" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.52 2.72 5.73	12.69
23 21	13 23-0223	EA	2-1/2" x 4" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	38.42 7.38 7.10	15.80
23 21	13 23-0224	EA	3" x 4" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.34 9.36 8.59	19.09
23 21	13 23-0225	EA	4" x 4" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	59.58 12.66 10.28	22.87
23 21	13 23-0226	EA	3/8" x 4-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.89 1.61 3.80	8.43
23 21	13 23-0227	EA	1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.50 0.91 3.80	8.43
23 21	13 23-0228	EA	3/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.05 1.19 3.80	8.43
23 21	13 23-0229	EA	1" x 4-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.75 1.55 4.10	9.15
23 21	13 23-0230	EA	1-1/4" x 4-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.72 1.97 4.44	9.85
23 21	13 23-0231	EA	1-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.53 2.37 4.44	9.85
23 21	13 23-0232	EA	2" x 4-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.34 3.13 5.73	12.69
23 21	13 23-0233	EA	2-1/2" x 4-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.87 8.11 7.10	15.80
23 21	13 23-0234	EA	3" x 4-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.26 10.32 8.59	19.09
23 21	13 23-0235	EA	4" x 4-1/2" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.19 14.47 10.28	22.87
23 21	13 23-0236	EA	3/8" x 5" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.89 1.61 3.80	8.43
23 21	13 23-0237	EA	1/2" x 5" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.50 0.91 3.80	8.43
23 21	13 23-0238	EA	3/4" x 5" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.05 1.19 3.80	8.43
23 21	13 23-0239	EA	1" x 5" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.75 1.55 4.10	9.15
23 21	13 23-0240	EA	1-1/4" x 5" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.72 1.97 4.44	9.85
23 21	13 23-0241	EA	1-1/2" x 5" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.53 2.37 4.44	9.85
23 21	13 23-0242	EA	2" x 5" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	25.34 3.13 5.73	12.69
23 21	13 23-0243	EA	2-1/2" x 5" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	39.87 8.11 7.10	15.80
23 21	13 23-0244	EA	3" x 5" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	49.26 10.32 8.59	19.09
23 21	13 23-0245	EA	4" x 5" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	63.19 14.47 10.28	22.87
23 21	13 23-0246	EA	3/8" x 6" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.25 1.79 3.80	8.43
23 21	13 23-0247	EA	1/2" x 6" Long, Schedule 40 Black Steel Nipple <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	14.71 1.02 3.80	8.43



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0248 EA 3/4" x 6" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	15.37 1.35 3.80	8.43
23 21 13 23-0249 EA 1" x 6" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.31 1.83 4.10	9.15
23 21 13 23-0250 EA 1-1/4" x 6" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.45 2.33 4.44	9.85
23 21 13 23-0251 EA 1-1/2" x 6" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.23 2.72 4.44	9.85
23 21 13 23-0252 EA 2" x 6" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.42 3.67 5.73	12.69
23 21 13 23-0253 EA 2-1/2" x 6" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	40.56 8.45 7.10	15.80
23 21 13 23-0254 EA 3" x 6" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.05 11.21 8.59	19.09
23 21 13 23-0255 EA 4" x 6" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	65.18 15.46 10.28	22.87
23 21 13 23-0256 EA 3/8" x 8" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	18.94 3.13 3.80	8.43
23 21 13 23-0257 EA 1/2" x 8" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.34 1.83 3.80	8.43
23 21 13 23-0258 EA 3/4" x 8" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.16 2.24 3.80	8.43
23 21 13 23-0259 EA 1" x 8" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.64 3.00 4.10	9.15
23 21 13 23-0260 EA 1-1/4" x 8" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.32 3.77 4.44	9.85
23 21 13 23-0261 EA 1-1/2" x 8" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.42 4.32 4.44	9.85
23 21 13 23-0262 EA 2" x 8" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	31.37 6.14 5.73	12.69
23 21 13 23-0263 EA 2-1/2" x 8" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	45.17 10.76 7.10	15.80
23 21 13 23-0264 EA 3" x 8" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	58.88 15.13 8.59	19.09
23 21 13 23-0265 EA 4" x 8" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	69.95 17.85 10.28	22.87
23 21 13 23-0266 EA 3/8" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.71 3.52 3.80	8.43
23 21 13 23-0267 EA 1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.08 2.20 3.80	8.43
23 21 13 23-0268 EA 3/4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	17.89 2.61 3.80	8.43
23 21 13 23-0269 EA 1" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	20.65 3.50 4.10	9.15
23 21 13 23-0270 EA 1-1/4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	23.81 4.51 4.44	9.85
23 21 13 23-0271 EA 1-1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	24.89 5.05 4.44	9.85
23 21 13 23-0272 EA 2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	33.53 7.22 5.73	12.69
23 21 13 23-0273 EA 2-1/2" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	47.82 12.08 7.10	15.80
23 21 13 23-0274 EA 3" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	62.61 16.99 8.59	19.09
23 21 13 23-0275 EA 4" x 10" Long, Schedule 40 Black Steel Nipple..... <i>For Schedule 80 Nipples, Add</i> <i>For Work In Restricted Working Space, Add</i>	74.90 20.32 10.28	22.87

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0276 EA 3/8" x 12" Long, Schedule 40 Black Steel Nipple.....	20.68	8.43
For Schedule 80 Nipples, Add	4.00	
For Work In Restricted Working Space, Add	3.80	
23 21 13 23-0277 EA 1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	17.91	8.43
For Schedule 80 Nipples, Add	2.62	
For Work In Restricted Working Space, Add	3.80	
23 21 13 23-0278 EA 3/4" x 12" Long, Schedule 40 Black Steel Nipple.....	18.47	8.43
For Schedule 80 Nipples, Add	2.90	
For Work In Restricted Working Space, Add	3.80	
23 21 13 23-0279 EA 1" x 12" Long, Schedule 40 Black Steel Nipple.....	21.69	9.15
For Schedule 80 Nipples, Add	4.02	
For Work In Restricted Working Space, Add	4.10	
23 21 13 23-0280 EA 1-1/4" x 12" Long, Schedule 40 Black Steel Nipple.....	25.02	9.85
For Schedule 80 Nipples, Add	5.12	
For Work In Restricted Working Space, Add	4.44	
23 21 13 23-0281 EA 1-1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	26.43	9.85
For Schedule 80 Nipples, Add	5.82	
For Work In Restricted Working Space, Add	4.44	
23 21 13 23-0282 EA 2" x 12" Long, Schedule 40 Black Steel Nipple.....	35.71	12.69
For Schedule 80 Nipples, Add	8.31	
For Work In Restricted Working Space, Add	5.73	
23 21 13 23-0283 EA 2-1/2" x 12" Long, Schedule 40 Black Steel Nipple.....	50.54	15.80
For Schedule 80 Nipples, Add	13.44	
For Work In Restricted Working Space, Add	7.10	
23 21 13 23-0284 EA 3" x 12" Long, Schedule 40 Black Steel Nipple.....	66.34	19.09
For Schedule 80 Nipples, Add	18.86	
For Work In Restricted Working Space, Add	8.59	
23 21 13 23-0285 EA 4" x 12" Long, Schedule 40 Black Steel Nipple.....	81.91	22.87
For Schedule 80 Nipples, Add	23.83	
For Work In Restricted Working Space, Add	10.28	
23 21 13 23-0286 Black Malleable Iron Bushing (2321 13 23-0014)		
23 21 13 23-0287 EA 1/2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	25.98	14.47
For Work In Restricted Working Space, Add	6.51	
23 21 13 23-0288 EA 3/4" x 3/8", 150 LB, Black Malleable Iron Bushing.....	29.49	15.53
For Work In Restricted Working Space, Add	6.99	
23 21 13 23-0289 EA 3/4" x 1/2", 150 LB, Black Malleable Iron Bushing.....	31.26	16.68
For Work In Restricted Working Space, Add	7.52	
23 21 13 23-0290 EA 1" x 3/8", 150 LB, Black Malleable Iron Bushing.....	33.37	16.60
For Work In Restricted Working Space, Add	7.46	
23 21 13 23-0291 EA 1" x 1/2", 150 LB, Black Malleable Iron Bushing.....	32.99	17.75
For Work In Restricted Working Space, Add	7.99	
23 21 13 23-0292 EA 1" x 3/4", 150 LB, Black Malleable Iron Bushing.....	34.41	18.72
For Work In Restricted Working Space, Add	8.41	
23 21 13 23-0293 EA 1-1/4" x 3/8", 150 LB, Black Malleable Iron Bushing.....	36.36	17.84
For Work In Restricted Working Space, Add	8.04	
23 21 13 23-0294 EA 1-1/4" x 1/2", 150 LB, Black Malleable Iron Bushing.....	37.71	19.09
For Work In Restricted Working Space, Add	8.57	
23 21 13 23-0295 EA 1-1/4" x 3/4", 150 LB, Black Malleable Iron Bushing.....	38.21	19.97
For Work In Restricted Working Space, Add	9.00	
23 21 13 23-0296 EA 1-1/4" x 1", 150 LB, Black Malleable Iron Bushing.....	39.75	21.04
For Work In Restricted Working Space, Add	9.46	
23 21 13 23-0297 EA 1-1/2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	41.56	19.35
For Work In Restricted Working Space, Add	8.69	
23 21 13 23-0298 EA 1-1/2" x 1/2", 150 LB, Black Malleable Iron Bushing.....	41.12	20.50
For Work In Restricted Working Space, Add	9.22	
23 21 13 23-0299 EA 1-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	42.53	21.39
For Work In Restricted Working Space, Add	9.64	
23 21 13 23-0300 EA 1-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....	42.80	22.46
For Work In Restricted Working Space, Add	10.10	
23 21 13 23-0301 EA 1-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	46.06	23.78
For Work In Restricted Working Space, Add	10.69	
23 21 13 23-0302 EA 2" x 3/8", 150 LB, Black Malleable Iron Bushing.....	51.86	22.72
For Work In Restricted Working Space, Add	10.22	
23 21 13 23-0303 EA 2" x 1/2", 150 LB, Black Malleable Iron Bushing.....	51.52	23.88
For Work In Restricted Working Space, Add	10.75	
23 21 13 23-0304 EA 2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	50.52	24.85
For Work In Restricted Working Space, Add	11.17	
23 21 13 23-0305 EA 2" x 1", 150 LB, Black Malleable Iron Bushing.....	51.23	25.83
For Work In Restricted Working Space, Add	11.63	
23 21 13 23-0306 EA 2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	53.18	27.16
For Work In Restricted Working Space, Add	12.22	
23 21 13 23-0307 EA 2" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	56.72	28.58
For Work In Restricted Working Space, Add	12.86	
23 21 13 23-0308 EA 2-1/2" x 3/4", 150 LB, Black Malleable Iron Bushing.....	71.37	32.49
For Work In Restricted Working Space, Add	14.63	
23 21 13 23-0309 EA 2-1/2" x 1", 150 LB, Black Malleable Iron Bushing.....	72.91	33.55
For Work In Restricted Working Space, Add	15.09	
23 21 13 23-0310 EA 2-1/2" x 1-1/4", 150 LB, Black Malleable Iron Bushing.....	74.86	34.79
For Work In Restricted Working Space, Add	15.68	
23 21 13 23-0311 EA 2-1/2" x 1-1/2", 150 LB, Black Malleable Iron Bushing.....	75.45	36.30
For Work In Restricted Working Space, Add	16.32	
23 21 13 23-0312 EA 2-1/2" x 2", 150 LB, Black Malleable Iron Bushing.....	80.39	39.67
For Work In Restricted Working Space, Add	17.85	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0313 EA 3" x 3/4", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	91.24 17.99	39.94
23 21 13 23-0314 EA 3" x 1", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	92.77 18.45	41.01
23 21 13 23-0315 EA 3" x 1-1/4", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	94.73 19.04	42.34
23 21 13 23-0316 EA 3" x 1-1/2", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	96.26 19.68	43.76
23 21 13 23-0317 EA 3" x 2", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	99.36 21.21	47.13
23 21 13 23-0318 EA 3" x 2-1/2", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	111.29 24.66	54.85
23 21 13 23-0319 EA 4" x 3/4", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	122.73 18.83	41.79
23 21 13 23-0320 EA 4" x 1", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	124.22 19.27	42.82
23 21 13 23-0321 EA 4" x 1-1/4", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	126.10 19.84	44.11
23 21 13 23-0322 EA 4" x 1-1/2", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	128.16 20.45	45.48
23 21 13 23-0323 EA 4" x 2", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	129.87 21.93	48.73
23 21 13 23-0324 EA 4" x 2-1/2", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	140.98 25.27	56.18
23 21 13 23-0325 EA 4" x 3", 150 LB, Black Malleable Iron Bushing <i>For Work In Restricted Working Space, Add</i>	151.81 28.52	63.38
 23 21 13 23-0326 Black Malleable Iron Square Head Plugs (23 21 13 23-0014)		
23 21 13 23-0327 EA 3/8", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	11.16 2.37	5.23
23 21 13 23-0328 EA 1/2", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	12.96 2.84	6.30
23 21 13 23-0329 EA 3/4", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	14.08 3.18	7.10
23 21 13 23-0330 EA 1", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	16.22 3.55	7.90
23 21 13 23-0331 EA 1-1/4", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	18.92 4.02	8.96
23 21 13 23-0332 EA 1-1/2", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	22.82 4.53	10.03
23 21 13 23-0333 EA 2", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	30.16 5.76	12.78
23 21 13 23-0334 EA 2-1/2", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	48.37 8.52	18.91
23 21 13 23-0335 EA 3", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	64.79 11.21	24.94
23 21 13 23-0336 EA 4", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	97.47 11.99	26.64
23 21 13 23-0337 EA 5", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	165.21 12.51	27.84
23 21 13 23-0338 EA 6", 150 LB, Black Malleable Iron Square Head Plug <i>For Work In Restricted Working Space, Add</i>	196.59 13.08	29.04
 23 21 13 23-0339 125 LB Black Cast Iron Screwed Flanges (23 21 13 23-0014)		
23 21 13 23-0340 EA 3/4", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	115.85 15.98	35.51
23 21 13 23-0341 EA 1", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	100.00 18.05	40.11
23 21 13 23-0342 EA 1-1/4", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	109.92 18.68	41.53
23 21 13 23-0343 EA 1-1/2", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	111.77 20.33	45.18
23 21 13 23-0344 EA 2", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	114.65 21.22	47.13
23 21 13 23-0345 EA 2-1/2", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	133.18 24.54	54.58
23 21 13 23-0346 EA 3", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	170.01 31.14	69.23
23 21 13 23-0347 EA 4", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	226.26 41.11	91.39
23 21 13 23-0348 EA 5", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	289.17 48.94	108.86
23 21 13 23-0349 EA 6", 125 LB, Black Cast Iron Flange <i>For Work In Restricted Working Space, Add</i>	329.95 56.21	124.96
 23 21 13 23-0350 150 LB, Black Malleable Iron Flanges (23 21 13 23-0014)		
23 21 13 23-0351 EA 1/2", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	62.48 14.59	32.40
23 21 13 23-0352 EA 3/4", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	68.17 15.98	35.51

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0353	EA	1", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	79.56 18.05	40.11
23 21 13 23-0354	EA	1-1/4", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	83.01 18.68	41.53
23 21 13 23-0355	EA	1-1/2", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	90.36 20.33	45.18
23 21 13 23-0356	EA	2", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	100.20 21.21	47.13
23 21 13 23-0357	EA	2-1/2", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	128.04 24.54	54.58
23 21 13 23-0358	EA	3", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	162.23 31.13	69.23
23 21 13 23-0359	EA	4", 150 LB, Black Malleable Iron Flange <i>For Work In Restricted Working Space, Add</i>	236.30 41.10	91.39
23 21 13 23-0360 Cut And Thread Existing In-Place Black Steel Pipe (23 21 13 23-0014)				
Note: For use when connecting pipe to an existing in-place system.				
23 21 13 23-0361	EA	1/2", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	28.91 8.67	
23 21 13 23-0362	EA	3/4", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	31.81 9.54	
23 21 13 23-0363	EA	1", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	34.70 10.41	
23 21 13 23-0364	EA	1-1/4", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	37.59 11.28	
23 21 13 23-0365	EA	1-1/2", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	39.51 11.85	
23 21 13 23-0366	EA	2", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	41.45 12.44	
23 21 13 23-0367	EA	2-1/2", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	43.38 13.01	
23 21 13 23-0368	EA	3", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	45.30 13.59	
23 21 13 23-0369	EA	4", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	47.23 14.17	
23 21 13 23-0370	EA	6", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	51.08 15.32	
23 21 13 23-0371	EA	8", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	54.93 16.48	
23 21 13 23-0372	EA	10", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	59.76 17.93	
23 21 13 23-0373	EA	12", Cut And Thread Existing In Place Black Steel Pipe <i>For Work In Restricted Working Space, Add</i>	63.61 19.08	
23 21 13 23-0374 Welded Black Steel Pipe (23 21 13 23)				
23 21 13 23-0375 Welded Plain End Black Steel Pipe Assemblies (23 21 13 23-0374)				
Note: ASTM A-53 pipe and A-234 WPB fittings. Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available.				
23 21 13 23-0376	LF	3/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly <i>For Work In Restricted Working Space, Add</i>	21.25 4.92	6.74
23 21 13 23-0377	LF	1" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly <i>For Work In Restricted Working Space, Add</i>	23.55 5.51	7.19
23 21 13 23-0378	LF	1-1/4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly <i>For Work In Restricted Working Space, Add</i>	28.05 6.33	7.64
23 21 13 23-0379	LF	1-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly <i>For Work In Restricted Working Space, Add</i>	29.81 6.62	7.64
23 21 13 23-0380	LF	2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly <i>For Work In Restricted Working Space, Add</i>	34.02 7.66	7.64
23 21 13 23-0381	LF	2-1/2" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly <i>For Work In Restricted Working Space, Add</i>	39.43 8.88	7.64
23 21 13 23-0382	LF	3" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly <i>For Work In Restricted Working Space, Add</i>	45.21 9.37	7.45
23 21 13 23-0383	LF	4" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly <i>For Work In Restricted Working Space, Add</i>	59.32 11.58	9.33



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0384 LF 6" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	79.59 13.34	13.91
23 21 13 23-0385 LF 8" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	121.48 19.78	17.28
23 21 13 23-0386 LF 10" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	162.58 23.59	21.60
23 21 13 23-0387 LF 12" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	204.55 27.26	26.09
23 21 13 23-0388 LF 14" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	233.22 30.41	34.04
23 21 13 23-0389 LF 16" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	273.63 33.99	43.20
23 21 13 23-0390 LF 18" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	347.45 37.29	53.48
23 21 13 23-0391 LF 20" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	452.61 42.68	66.09
23 21 13 23-0392 LF 24" Schedule 40 Welded Plain End Black Steel Pipe And Fitting Assembly Note: Includes all hangers and all fittings (couplings, elbows, tees and reducer fittings). All hangers are complete assemblies. Not for use where detail is available. <i>For Work In Restricted Working Space, Add</i>	558.41 46.93	74.91
23 21 13 23-0393 Welded Black Steel Pipe And Fittings <small>(23 21 13 23-0374)</small> Note: ASTM A-53 pipe and A-234 WPB fittings. Excludes hangers or fittings.		
23 21 13 23-0394 Welded Plain End Black Steel Piping <small>(23 21 13 23-0393)</small> Note: ASTM A-53		
23 21 13 23-0395 LF 3/4" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	8.70 1.38 0.18 2.16	3.59
23 21 13 23-0396 LF 1" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	10.99 1.75 0.24 2.69	4.49
23 21 13 23-0397 LF 1-1/4" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	13.72 2.21 0.35 3.23	5.39
23 21 13 23-0398 LF 1-1/2" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	16.49 2.67 0.47 3.77	6.29
23 21 13 23-0399 LF 2" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	19.59 3.17 0.56 4.47	7.45
23 21 13 23-0400 LF 2-1/2" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	22.33 4.86 0.65 5.06	8.44
23 21 13 23-0401 LF 3" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	26.81 6.21 1.04 5.45	9.07
23 21 13 23-0402 LF 4" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	36.33 8.79 1.67 6.74	11.23
23 21 13 23-0403 LF 6" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Work In Restricted Working Space, Add</i>	51.11 13.01 2.79 8.36	18.19
23 21 13 23-0404 LF 8" Schedule 40, Welded Plain End Black Steel Pipe <i>For Schedule 80 Pipe, Add</i> <i>For Schedule A-106 Pipe, Add</i> <i>For Schedule 30 Pipe, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	72.22 18.78 4.21 -10.73 11.15	18.57

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0405	LF	10" Schedule 40, Welded Plain End Black Steel Pipe	94.39	22.38
			<i>For Schedule 80 Pipe, Add</i>	25.21	
			<i>For Schedule A-106 Pipe, Add</i>	5.96	
			<i>For Schedule 30 Pipe, Deduct</i>	-14.40	
			<i>For Work In Restricted Working Space, Add</i>	13.43	
23 21	13 23-0406	LF	12" Schedule 40, Welded Plain End Black Steel Pipe	119.74	27.04
			<i>For Schedule 80 Pipe, Add</i>	32.44	
			<i>For Schedule A-106 Pipe, Add</i>	7.88	
			<i>For Schedule 30 Pipe, Deduct</i>	-18.54	
			<i>For Work In Restricted Working Space, Add</i>	16.23	
23 21	13 23-0407	LF	14" Schedule 40, Welded Plain End Black Steel Pipe	116.90	28.51
			<i>For Schedule 80 Pipe, Add</i>	30.93	
			<i>For Schedule A-106 Pipe, Add</i>	7.18	
			<i>For Schedule 30 Pipe, Deduct</i>	-17.68	
			<i>For Schedule 20 Pipe, Deduct</i>	-32.36	
			<i>For Work In Restricted Working Space, Add</i>	17.11	
23 21	13 23-0408	LF	16" Schedule 40, Welded Plain End Black Steel Pipe	128.27	30.67
			<i>For Schedule 80 Pipe, Add</i>	34.16	
			<i>For Schedule A-106 Pipe, Add</i>	8.03	
			<i>For Schedule 30 Pipe, Deduct</i>	-19.52	
			<i>For Schedule 20 Pipe, Deduct</i>	-35.69	
			<i>For Work In Restricted Working Space, Add</i>	18.41	
23 21	13 23-0409	LF	18" Schedule 40, Welded Plain End Black Steel Pipe	159.09	33.18
			<i>For Schedule 80 Pipe, Add</i>	44.07	
			<i>For Schedule A-106 Pipe, Add</i>	11.13	
			<i>For Schedule 30 Pipe, Deduct</i>	-25.18	
			<i>For Schedule 20 Pipe, Deduct</i>	-45.73	
			<i>For Work In Restricted Working Space, Add</i>	19.91	
23 21	13 23-0410	LF	20" Schedule 40, Welded Plain End Black Steel Pipe	188.38	39.75
			<i>For Schedule 80 Pipe, Add</i>	52.02	
			<i>For Schedule A-106 Pipe, Add</i>	13.07	
			<i>For Work In Restricted Working Space, Add</i>	23.85	
23 21	13 23-0411	LF	24" Schedule 40, Welded Plain End Black Steel Pipe	232.08	45.70
			<i>For Schedule 80 Pipe, Add</i>	65.23	
			<i>For Schedule A-106 Pipe, Add</i>	16.88	
			<i>For Work In Restricted Working Space, Add</i>	27.42	
23 21	13 23-0412		Welded Plain End Black Steel 90 Degree Elbows (23 21 13 23-0393)		
23 21	13 23-0413	EA	3/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	104.68	54.78
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	22.78	
			<i>For Work In Restricted Working Space, Add</i>	24.63	
23 21	13 23-0414	EA	1" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	108.97	57.62
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	23.62	
			<i>For Work In Restricted Working Space, Add</i>	25.91	
23 21	13 23-0415	EA	1-1/4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	121.07	65.66
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	25.98	
			<i>For Work In Restricted Working Space, Add</i>	29.54	
23 21	13 23-0416	EA	1-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	128.84	70.84
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	27.50	
			<i>For Work In Restricted Working Space, Add</i>	31.88	
23 21	13 23-0417	EA	2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	160.80	92.19
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	33.73	
			<i>For Work In Restricted Working Space, Add</i>	41.46	
23 21	13 23-0418	EA	2-1/2" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	202.88	115.26
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	42.72	
			<i>For Work In Restricted Working Space, Add</i>	51.83	
23 21	13 23-0419	EA	3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	218.00	121.45
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	46.29	
			<i>For Work In Restricted Working Space, Add</i>	54.60	
23 21	13 23-0420	EA	4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	374.11	209.83
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	79.20	
			<i>For Work In Restricted Working Space, Add</i>	94.38	
23 21	13 23-0421	EA	6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	665.57	346.28
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	145.15	
			<i>For Work In Restricted Working Space, Add</i>	155.77	
23 21	13 23-0422	EA	8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	973.59	468.20
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	218.37	
			<i>For Work In Restricted Working Space, Add</i>	210.60	
23 21	13 23-0423	EA	10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,300.95	535.16
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	306.04	
			<i>For Work In Restricted Working Space, Add</i>	240.69	
23 21	13 23-0424	EA	12" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	1,772.80	700.19
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	421.62	
			<i>For Work In Restricted Working Space, Add</i>	314.92	
23 21	13 23-0425	EA	14" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,219.51	827.63
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	535.57	
			<i>For Work In Restricted Working Space, Add</i>	372.25	
23 21	13 23-0426	EA	16" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	2,788.52	966.47
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	684.42	
			<i>For Work In Restricted Working Space, Add</i>	434.67	
23 21	13 23-0427	EA	18" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow	3,339.78	1,077.66
			<i>For Schedule 80 Or Extra Heavy Fittings, Add</i>	832.29	
			<i>For Work In Restricted Working Space, Add</i>	484.70	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0428 EA 20" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,345.72 1,113.50 543.48	1,208.30
23 21 13 23-0429 EA 24" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,183.82 1,358.59 561.60	1,248.66
23 21 13 23-0430 Welded Plain End Black Steel Reducing 90 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0431 EA 4" x 3" 90 Standard Weight, Welded Plain End Black Steel Reducing 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	560.01 134.91 94.55	210.19
23 21 13 23-0432 EA 6" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	992.20 243.76 153.99	342.33
23 21 13 23-0433 EA 6" x 3" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,074.31 268.40 153.99	342.33
23 21 13 23-0434 EA 8" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,712.22 439.96 210.60	468.20
23 21 13 23-0435 EA 8" x 4" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,908.00 498.69 210.60	468.20
23 21 13 23-0436 EA 10" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,417.05 640.87 240.69	535.16
23 21 13 23-0437 EA 10" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,417.05 640.87 240.69	535.16
23 21 13 23-0438 EA 12" x 10" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,067.75 1,108.00 320.92	713.49
23 21 13 23-0439 EA 12" x 8" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,067.75 1,108.00 320.92	713.49
23 21 13 23-0440 EA 12" x 6" Standard Weight, Welded Plain End Black Steel 90 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,600.30 1,267.77 320.92	713.49
23 21 13 23-0441 Welded Plain End Black Steel 45 Degree Elbows <small>(23 21 13 23-0393)</small>		
23 21 13 23-0442 EA 3/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	94.28 20.27 22.91	50.93
23 21 13 23-0443 EA 1" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	96.98 20.79 23.72	52.73
23 21 13 23-0444 EA 1-1/4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	108.66 23.07 27.22	60.55
23 21 13 23-0445 EA 1-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	115.84 24.47 29.37	65.30
23 21 13 23-0446 EA 2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	144.59 30.08 38.00	84.43
23 21 13 23-0447 EA 2-1/2" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	179.86 37.26 47.70	106.08
23 21 13 23-0448 EA 3" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	208.26 43.37 54.59	121.36
23 21 13 23-0449 EA 4" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	357.97 74.37 94.36	209.74
23 21 13 23-0450 EA 6" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	625.48 133.19 155.59	345.92
23 21 13 23-0451 EA 8" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	900.30 196.38 210.60	468.20
23 21 13 23-0452 EA 10" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,166.39 265.68 240.69	535.16
23 21 13 23-0453 EA 12" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,575.72 362.70 314.33	698.89
23 21 13 23-0454 EA 14" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,957.06 456.66 372.74	828.75
23 21 13 23-0455 EA 16" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,425.54 575.68 434.23	965.44

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0456 EA 18" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,872.66 692.35 484.14	1,076.37
23 21 13 23-0457 EA 20" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,661.88 908.34 543.48	1,208.30
23 21 13 23-0458 EA 24" Standard Weight, Welded Plain End Black Steel 45 Degree Elbow <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,290.12 1,090.48 561.60	1,248.66
23 21 13 23-0459 Welded Plain End Black Steel Tee <small>(23 21 13 23-0393)</small>		
23 21 13 23-0460 EA 3/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	197.86 44.27 43.12	95.85
23 21 13 23-0461 EA 1" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	197.82 44.26 43.10	95.85
23 21 13 23-0462 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	225.10 50.75 47.95	106.62
23 21 13 23-0463 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	244.91 54.61 53.90	119.83
23 21 13 23-0464 EA 2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	297.56 64.08 71.95	159.98
23 21 13 23-0465 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	341.20 74.06 80.85	179.74
23 21 13 23-0466 EA 3" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	406.34 87.57 98.09	218.28
23 21 13 23-0467 EA 4" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	583.20 125.32 141.83	315.38
23 21 13 23-0468 EA 6" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	982.10 212.61 234.33	520.99
23 21 13 23-0469 EA 8" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,441.88 320.24 320.92	713.49
23 21 13 23-0470 EA 10" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,872.00 430.56 374.40	832.38
23 21 13 23-0471 EA 12" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,553.62 597.61 481.37	1,070.23
23 21 13 23-0472 EA 14" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,397.86 822.80 561.60	1,248.66
23 21 13 23-0473 EA 16" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,091.07 991.45 673.92	1,498.34
23 21 13 23-0474 EA 18" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,509.20 1,390.68 748.80	1,664.84
23 21 13 23-0475 EA 20" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	7,460.00 1,943.16 842.40	1,872.97
23 21 13 23-0476 EA 24" Standard Weight, Welded Plain End Black Steel Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,698.19 2,291.94 907.20	2,017.04
23 21 13 23-0477 Welded Plain End Black Steel Reducing Tees <small>(23 21 13 23-0393)</small>		
23 21 13 23-0478 EA 3/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	193.37 43.39 41.77	92.88
23 21 13 23-0479 EA 1" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	197.82 44.26 43.10	95.85
23 21 13 23-0480 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	221.63 49.71 47.95	106.62
23 21 13 23-0481 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	241.44 53.57 53.90	119.83
23 21 13 23-0482 EA 2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	305.32 66.40 71.98	159.98
23 21 13 23-0483 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Reducing Tee <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	341.31 74.09 80.88	179.84



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0484 EA 3" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	406.71 87.68 98.09	218.28
23 21 13 23-0485 EA 4" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	583.71 125.47 141.83	315.38
23 21 13 23-0486 EA 6" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	982.97 212.88 234.33	520.99
23 21 13 23-0487 EA 8" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,443.56 320.75 320.92	713.49
23 21 13 23-0488 EA 10" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	1,874.84 431.41 374.40	832.38
23 21 13 23-0489 EA 12" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	2,557.92 598.90 481.37	1,070.23
23 21 13 23-0490 EA 14" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	3,404.79 824.88 561.60	1,248.66
23 21 13 23-0491 EA 16" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	4,099.46 993.97 673.92	1,498.34
23 21 13 23-0492 EA 18" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	5,522.93 1,394.80 748.80	1,664.84
23 21 13 23-0493 EA 20" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	7,593.34 1,983.16 842.40	1,872.97
23 21 13 23-0494 EA 24" Standard Weight, Welded Plain End Black Steel Reducing Tee..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	9,293.82 2,470.63 907.20	2,017.04
23 21 13 23-0495 Welded Plain End Black Steel Eccentric Reducers <small>(23 21 13 23-0393)</small>		
23 21 13 23-0496 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	157.18 37.96 26.27	58.42
23 21 13 23-0497 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	165.70 39.62 28.83	64.10
23 21 13 23-0498 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	163.47 39.19 28.16	62.61
23 21 13 23-0499 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	176.04 41.64 31.93	70.99
23 21 13 23-0500 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	169.75 40.41 30.04	66.80
23 21 13 23-0501 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	167.52 39.98 29.37	65.30
23 21 13 23-0502 EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	169.26 37.43 38.13	84.76
23 21 13 23-0503 EA 2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	191.34 44.48 36.92	82.06
23 21 13 23-0504 EA 2" x 1" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	185.04 43.25 35.03	77.88
23 21 13 23-0505 EA 2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	210.57 46.20 48.50	107.82
23 21 13 23-0506 EA 2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	202.38 45.48 43.51	96.75
23 21 13 23-0507 EA 2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	244.72 58.61 42.30	94.05
23 21 13 23-0508 EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	235.01 51.45 54.44	121.00
23 21 13 23-0509 EA 3" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	238.80 52.59 54.44	121.00
23 21 13 23-0510 EA 3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	246.81 54.99 54.44	121.00
23 21 13 23-0511 EA 4" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add For Work In Restricted Working Space, Add</i>	385.17 82.46 94.55	210.19

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0512	EA	4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	388.96 83.59 94.55	210.19
23 21	13 23-0513	EA	4" x 2" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	400.35 87.01 94.55	210.19
23 21	13 23-0514	EA	6" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	657.49 143.35 153.99	342.33
23 21	13 23-0515	EA	6" x 3" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	739.28 167.89 153.99	342.33
23 21	13 23-0516	EA	8" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	964.94 207.47 234.33	520.99
23 21	13 23-0517	EA	8" x 4" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,117.13 253.12 234.33	520.99
23 21	13 23-0518	EA	10" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,139.01 247.38 269.48	599.15
23 21	13 23-0519	EA	10" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,321.99 302.28 269.48	599.15
23 21	13 23-0520	EA	10" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,562.73 374.50 -212.63 269.48	599.15
23 21	13 23-0521	EA	12" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,443.33 320.89 320.30	712.11
23 21	13 23-0522	EA	12" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,657.09 385.02 320.30	712.11
23 21	13 23-0523	EA	12" x 6" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,018.41 493.42 -304.23 320.30	712.11
23 21	13 23-0524	EA	12" x 4" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,437.27 319.07 -118.27 320.30	712.11
23 21	13 23-0525	EA	14" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,907.39 441.18 374.40	832.38
23 21	13 23-0526	EA	14" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,019.96 474.95 374.40	832.38
23 21	13 23-0527	EA	14" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,142.23 811.63 374.40	832.38
23 21	13 23-0528	EA	16" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,412.47 576.32 421.20	936.49
23 21	13 23-0529	EA	16" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,743.87 675.74 421.20	936.49
23 21	13 23-0530	EA	16" x 10" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	2,872.87 714.44 -470.04 421.20	936.49
23 21	13 23-0531	EA	16" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,326.15 1,150.43 421.20	936.49
23 21	13 23-0532	EA	16" x 6" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,049.32 1,367.38 421.20	936.49
23 21	13 23-0533	EA	18" x 16" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,421.26 857.90 481.37	1,070.23
23 21	13 23-0534	EA	18" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	1,930.32 410.62 -104.24 481.37	1,070.23
23 21	13 23-0535	EA	18" x 12" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	3,595.39 910.14 -637.06 481.37	1,070.23
23 21	13 23-0536	EA	18" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,852.15 987.17 481.37	1,070.23
23 21	13 23-0537	EA	18" x 8" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	6,022.77 1,638.35 481.37	1,070.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0538 EA 20" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,093.34 1,037.78 -730.15 543.48	1,208.30
23 21 13 23-0539 EA 20" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,087.45 1,036.02 -728.27 543.48	1,208.30
23 21 13 23-0540 EA 20" x 14" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,959.01 1,897.48 -1,647.17 543.48	1,208.30
23 21 13 23-0541 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	8,110.82 2,243.03 543.48	1,208.30
23 21 13 23-0542 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,838.60 2,761.36 543.48	1,208.30
23 21 13 23-0543 EA 24" x 20" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	4,863.72 1,262.56 -957.35 561.60	1,248.66
23 21 13 23-0544 EA 24" x 18" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	5,211.84 1,366.99 -1,068.75 561.60	1,248.66
23 21 13 23-0545 EA 24" x 16" Standard Weight, Welded Plain End Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Concentric Reducers, Deduct</i> <i>For Work In Restricted Working Space, Add</i>	6,829.24 1,852.21 -1,586.32 561.60	1,248.66
23 21 13 23-0546 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	9,839.08 2,755.16 561.60	1,248.66
23 21 13 23-0547 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Eccentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	12,095.91 3,432.21 561.60	1,248.66
23 21 13 23-0548 Welded Plain End Black Steel Concentric Reducers <small>(23 21 13 23-0393)</small>		
23 21 13 23-0549 EA 1" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	138.95 32.49 26.27	58.42
23 21 13 23-0550 EA 1-1/4" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	147.47 34.15 28.83	64.10
23 21 13 23-0551 EA 1-1/4" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	145.24 33.72 28.16	62.61
23 21 13 23-0552 EA 1-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	157.81 36.17 31.93	70.99
23 21 13 23-0553 EA 1-1/2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	151.52 34.94 30.04	66.80
23 21 13 23-0554 EA 1-1/2" x 3/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	149.29 34.51 29.37	65.30
23 21 13 23-0555 EA 2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.97 34.65 38.13	84.76
23 21 13 23-0556 EA 2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	155.93 33.86 36.92	82.06
23 21 13 23-0557 EA 2" x 1" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	162.28 36.43 35.03	77.88
23 21 13 23-0558 EA 2-1/2" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	203.83 44.17 48.50	107.82
23 21 13 23-0559 EA 2-1/2" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	198.59 44.35 43.51	96.75
23 21 13 23-0560 EA 2-1/2" x 1-1/4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	212.67 49.00 42.30	94.05
23 21 13 23-0561 EA 3" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	215.61 45.63 54.44	121.00
23 21 13 23-0562 EA 3" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	218.14 46.39 54.44	121.00
23 21 13 23-0563 EA 3" x 1-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer..... <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	223.63 48.04 54.44	121.00

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0564 EA 4" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	359.03	210.19
For Schedule 80 Or Extra Heavy Fittings, Add	74.62	
For Work In Restricted Working Space, Add	94.55	
23 21 13 23-0565 EA 4" x 2-1/2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	368.73	210.19
For Schedule 80 Or Extra Heavy Fittings, Add	77.53	
For Work In Restricted Working Space, Add	94.55	
23 21 13 23-0566 EA 4" x 2" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	368.73	210.19
For Schedule 80 Or Extra Heavy Fittings, Add	77.53	
For Work In Restricted Working Space, Add	94.55	
23 21 13 23-0567 EA 6" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	605.23	342.33
For Schedule 80 Or Extra Heavy Fittings, Add	127.67	
For Work In Restricted Working Space, Add	153.99	
23 21 13 23-0568 EA 6" x 3" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	624.61	342.33
For Schedule 80 Or Extra Heavy Fittings, Add	133.49	
For Work In Restricted Working Space, Add	153.99	
23 21 13 23-0569 EA 8" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	901.69	520.99
For Schedule 80 Or Extra Heavy Fittings, Add	188.49	
For Work In Restricted Working Space, Add	234.33	
23 21 13 23-0570 EA 8" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	936.27	520.99
For Schedule 80 Or Extra Heavy Fittings, Add	198.86	
For Work In Restricted Working Space, Add	234.33	
23 21 13 23-0571 EA 10" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	1,132.27	599.15
For Schedule 80 Or Extra Heavy Fittings, Add	245.36	
For Work In Restricted Working Space, Add	269.48	
23 21 13 23-0572 EA 10" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	1,117.93	599.15
For Schedule 80 Or Extra Heavy Fittings, Add	241.06	
For Work In Restricted Working Space, Add	269.48	
23 21 13 23-0573 EA 10" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	1,298.38	599.15
For Schedule 80 Or Extra Heavy Fittings, Add	295.20	
For Work In Restricted Working Space, Add	269.48	
23 21 13 23-0574 EA 12" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	1,356.91	712.11
For Schedule 80 Or Extra Heavy Fittings, Add	294.97	
For Work In Restricted Working Space, Add	320.30	
23 21 13 23-0575 EA 12" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	1,400.23	712.11
For Schedule 80 Or Extra Heavy Fittings, Add	307.96	
For Work In Restricted Working Space, Add	320.30	
23 21 13 23-0576 EA 12" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	1,415.92	712.11
For Schedule 80 Or Extra Heavy Fittings, Add	312.67	
For Work In Restricted Working Space, Add	320.30	
23 21 13 23-0577 EA 12" x 4" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	1,875.90	712.11
For Schedule 80 Or Extra Heavy Fittings, Add	450.66	
For Work In Restricted Working Space, Add	320.30	
23 21 13 23-0578 EA 14" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	1,683.10	832.38
For Schedule 80 Or Extra Heavy Fittings, Add	373.89	
For Work In Restricted Working Space, Add	374.40	
23 21 13 23-0579 EA 14" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	1,843.73	832.38
For Schedule 80 Or Extra Heavy Fittings, Add	422.08	
For Work In Restricted Working Space, Add	374.40	
23 21 13 23-0580 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	1,983.28	832.38
For Schedule 80 Or Extra Heavy Fittings, Add	463.94	
For Work In Restricted Working Space, Add	374.40	
23 21 13 23-0581 EA 14" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	2,522.61	832.38
For Schedule 80 Or Extra Heavy Fittings, Add	625.74	
For Work In Restricted Working Space, Add	374.40	
23 21 13 23-0582 EA 16" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	2,165.42	936.49
For Schedule 80 Or Extra Heavy Fittings, Add	502.21	
For Work In Restricted Working Space, Add	421.20	
23 21 13 23-0583 EA 16" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	2,165.42	936.49
For Schedule 80 Or Extra Heavy Fittings, Add	502.21	
For Work In Restricted Working Space, Add	421.20	
23 21 13 23-0584 EA 16" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	2,245.52	936.49
For Schedule 80 Or Extra Heavy Fittings, Add	526.24	
For Work In Restricted Working Space, Add	421.20	
23 21 13 23-0585 EA 16" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	2,511.55	936.49
For Schedule 80 Or Extra Heavy Fittings, Add	606.05	
For Work In Restricted Working Space, Add	421.20	
23 21 13 23-0586 EA 16" x 6" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	3,613.31	936.49
For Schedule 80 Or Extra Heavy Fittings, Add	936.57	
For Work In Restricted Working Space, Add	421.20	
23 21 13 23-0587 EA 18" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	2,436.40	1,070.23
For Schedule 80 Or Extra Heavy Fittings, Add	562.44	
For Work In Restricted Working Space, Add	481.37	
23 21 13 23-0588 EA 18" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	2,641.73	1,070.23
For Schedule 80 Or Extra Heavy Fittings, Add	624.04	
For Work In Restricted Working Space, Add	481.37	
23 21 13 23-0589 EA 18" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	2,727.73	1,070.23
For Schedule 80 Or Extra Heavy Fittings, Add	649.84	
For Work In Restricted Working Space, Add	481.37	
23 21 13 23-0590 EA 18" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	2,961.71	1,070.23
For Schedule 80 Or Extra Heavy Fittings, Add	720.03	
For Work In Restricted Working Space, Add	481.37	
23 21 13 23-0591 EA 18" x 8" Standard Weight, Welded Plain End, Black Steel Concentric Reducer	5,650.63	1,070.23
For Schedule 80 Or Extra Heavy Fittings, Add	1,526.71	
For Work In Restricted Working Space, Add	481.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0592 EA 20" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,239.16 781.53 543.48	1,208.30
23 21 13 23-0593 EA 20" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,239.16 781.53 543.48	1,208.30
23 21 13 23-0594 EA 20" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,297.77 799.11 543.48	1,208.30
23 21 13 23-0595 EA 20" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,644.76 903.21 543.48	1,208.30
23 21 13 23-0596 EA 20" x 10" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	4,248.48 1,084.32 543.48	1,208.30
23 21 13 23-0597 EA 24" x 20" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,486.76 849.47 561.60	1,248.66
23 21 13 23-0598 EA 24" x 18" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,523.43 860.47 561.60	1,248.66
23 21 13 23-0599 EA 24" x 16" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,595.10 881.97 561.60	1,248.66
23 21 13 23-0600 EA 24" x 14" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,254.54 1,379.80 561.60	1,248.66
23 21 13 23-0601 EA 24" x 12" Standard Weight, Welded Plain End, Black Steel Concentric Reducer <i>For Schedule 80 Or Extra Heavy Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	5,582.13 1,478.08 561.60	1,248.66
23 21 13 23-0602 Welded Plain End Black Steel Caps (23 21 13 23-0393)		
23 21 13 23-0603 EA 1" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	56.39 11.30 13.48	30.00
23 21 13 23-0604 EA 1-1/4" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	61.60 12.30 14.82	32.97
23 21 13 23-0605 EA 1-1/2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	64.11 12.83 15.36	34.13
23 21 13 23-0606 EA 2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	78.50 15.35 19.68	43.74
23 21 13 23-0607 EA 2-1/2" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	91.96 17.71 23.72	52.73
23 21 13 23-0608 EA 3" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	109.84 21.55 27.36	60.81
23 21 13 23-0609 EA 4" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	182.40 35.02 47.28	105.09
23 21 13 23-0610 EA 6" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	307.49 59.70 78.11	173.63
23 21 13 23-0611 EA 8" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	508.89 97.89 131.45	292.29
23 21 13 23-0612 EA 10" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	584.71 117.83 138.20	307.30
23 21 13 23-0613 EA 12" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	677.54 137.96 156.73	348.45
23 21 13 23-0614 EA 14" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	915.59 196.68 187.20	416.19
23 21 13 23-0615 EA 16" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,063.34 228.42 217.39	483.32
23 21 13 23-0616 EA 18" Standard Weight, Welded Plain End Black Steel Cap <i>For Schedule 80 Fittings, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,191.84 257.27 240.69	535.16
23 21 13 23-0617 150 LB, Welded Plain End Black Steel Neck Flanges (23 21 13 23-0393)		
Note: 150 LB.		
23 21 13 23-0618 EA 2", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	134.47 33.71 30.46	67.72
23 21 13 23-0619 EA 2-1/2", 150 LB, Welded Plain End Black Steel Neck Flange <i>For 300 LB Rating, Add</i> <i>For Work In Restricted Working Space, Add</i>	159.64 36.36 38.01	84.53

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0620 EA 3", 150 LB, Welded Plain End Black Steel Neck Flange	177.84	96.65
For 300 LB Rating, Add	38.28	
For Work In Restricted Working Space, Add	43.46	
23 21 13 23-0621 EA 4", 150 LB, Welded Plain End Black Steel Neck Flange	233.12	127.47
For 300 LB Rating, Add	49.47	
For Work In Restricted Working Space, Add	57.34	
23 21 13 23-0622 EA 6", 150 LB, Welded Plain End Black Steel Neck Flange	354.39	193.31
For 300 LB Rating, Add	75.66	
For Work In Restricted Working Space, Add	86.93	
23 21 13 23-0623 EA 8", 150 LB, Welded Plain End Black Steel Neck Flange	404.77	202.52
For 300 LB Rating, Add	102.71	
For Work In Restricted Working Space, Add	91.07	
23 21 13 23-0624 EA 10", 150 LB, Welded Plain End Black Steel Neck Flange	528.62	253.93
For 300 LB Rating, Add	143.49	
For Work In Restricted Working Space, Add	114.23	
23 21 13 23-0625 EA 12", 150 LB, Welded Plain End Black Steel Neck Flange	647.60	288.14
For 300 LB Rating, Add	196.28	
For Work In Restricted Working Space, Add	129.60	
23 21 13 23-0626 EA 14", 150 LB, Welded Plain End Black Steel Neck Flange	849.72	348.45
For 300 LB Rating, Add	283.96	
For Work In Restricted Working Space, Add	156.73	
23 21 13 23-0627 EA 16", 150 LB, Welded Plain End Black Steel Neck Flange	1,118.49	404.95
For 300 LB Rating, Add	421.70	
For Work In Restricted Working Space, Add	182.14	
23 21 13 23-0628 EA 18", 150 LB, Welded Plain End Black Steel Neck Flange	1,390.64	454.03
For 300 LB Rating, Add	568.41	
For Work In Restricted Working Space, Add	204.22	
23 21 13 23-0629 EA 20", 150 LB, Welded Plain End Black Steel Neck Flange	1,763.14	576.28
For 300 LB Rating, Add	720.12	
For Work In Restricted Working Space, Add	259.20	
23 21 13 23-0630 EA 24", 150 LB, Welded Plain End Black Steel Neck Flange	2,003.71	624.33
For 300 LB Rating, Add	845.68	
For Work In Restricted Working Space, Add	280.80	
23 21 13 23-0631 150 LB, Welded Black Steel Slip-On Flanges (23 21 13 23-0393)		
23 21 13 23-0632 EA 2", 150 LB, Welded Black Steel Slip-On Flanges	96.85	67.72
For 300 LB Rating, Add	22.90	
For Work In Restricted Working Space, Add	24.25	
23 21 13 23-0633 EA 2-1/2", 150 LB, Welded Black Steel Slip-On Flange	119.36	84.53
For 300 LB Rating, Add	28.87	
For Work In Restricted Working Space, Add	29.64	
23 21 13 23-0634 EA 3", 150 LB, Welded Black Steel Slip-On Flange	140.96	96.65
For 300 LB Rating, Add	34.03	
For Work In Restricted Working Space, Add	35.03	
23 21 13 23-0635 EA 4", 150 LB, Welded Black Steel Slip-On Flange	185.71	127.47
For 300 LB Rating, Add	45.73	
For Work In Restricted Working Space, Add	45.81	
23 21 13 23-0636 EA 6", 150 LB, Welded Black Steel Slip-On Flange	275.35	193.31
For 300 LB Rating, Add	69.28	
For Work In Restricted Working Space, Add	67.37	
23 21 13 23-0637 EA 8", 150 LB, Welded Black Steel Slip-On Flange	353.74	202.52
For 300 LB Rating, Add	98.56	
For Work In Restricted Working Space, Add	82.94	
23 21 13 23-0638 EA 10", 150 LB, Welded Black Steel Slip-On Flange	478.98	253.93
For 300 LB Rating, Add	156.33	
For Work In Restricted Working Space, Add	103.68	
23 21 13 23-0639 EA 12", 150 LB, Welded Black Steel Slip-On Flange	625.16	288.14
For 300 LB Rating, Add	232.94	
For Work In Restricted Working Space, Add	124.42	
23 21 13 23-0640 EA 14", 150 LB, Welded Black Steel Slip-On Flange	791.31	348.45
For 300 LB Rating, Add	327.53	
For Work In Restricted Working Space, Add	145.15	
23 21 13 23-0641 EA 16", 150 LB, Welded Black Steel Slip-On Flange	949.65	404.95
For 300 LB Rating, Add	428.82	
For Work In Restricted Working Space, Add	160.70	
23 21 13 23-0642 EA 18", 150 LB, Welded Black Steel Slip-On Flange	1,051.68	454.03
For 300 LB Rating, Add	479.43	
For Work In Restricted Working Space, Add	176.26	
23 21 13 23-0643 EA 20", 150 LB, Welded Black Steel Slip-On Flange	1,166.95	576.28
For 300 LB Rating, Add	541.96	
For Work In Restricted Working Space, Add	191.81	
23 21 13 23-0644 EA 24", 150 LB, Welded Black Steel Slip-On Flange	1,335.84	624.33
For 300 LB Rating, Add	611.54	
For Work In Restricted Working Space, Add	222.91	
23 21 13 23-0645 150 LB, Forged Steel Blind Flanges (23 21 13 23-0393)		
23 21 13 23-0646 EA 2", 150 LB, Forged Steel Blind Flange	66.79	24.11
For 300 LB Rating, Add	19.93	
For 600 LB Rating, Add	51.82	
For Work In Restricted Working Space, Add	14.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0647 EA 2-1/2", 150 LB, Forged Steel Blind Flange.....	87.98	28.92
For 300 LB Rating, Add	30.18	
For 600 LB Rating, Add	80.99	
For Work In Restricted Working Space, Add	17.36	
23 21 13 23-0648 EA 3", 150 LB, Forged Steel Blind Flange.....	108.30	38.56
For 300 LB Rating, Add	33.03	
For 600 LB Rating, Add	86.38	
For Work In Restricted Working Space, Add	23.14	
23 21 13 23-0649 EA 4", 150 LB, Forged Steel Blind Flange.....	139.37	48.21
For 300 LB Rating, Add	44.49	
For 600 LB Rating, Add	117.57	
For Work In Restricted Working Space, Add	28.92	
23 21 13 23-0650 EA 6", 150 LB, Forged Steel Blind Flange.....	190.43	62.67
For 300 LB Rating, Add	65.24	
For 600 LB Rating, Add	175.04	
For Work In Restricted Working Space, Add	37.60	
23 21 13 23-0651 EA 8", 150 LB, Forged Steel Blind Flange.....	247.88	72.32
For 300 LB Rating, Add	97.79	
For 600 LB Rating, Add	269.62	
For Work In Restricted Working Space, Add	43.39	
23 21 13 23-0652 EA 10", 150 LB, Forged Steel Blind Flange.....	375.20	86.77
For 300 LB Rating, Add	179.54	
For 600 LB Rating, Add	509.99	
For Work In Restricted Working Space, Add	52.07	
23 21 13 23-0653 EA 12", 150 LB, Forged Steel Blind Flange.....	487.89	101.24
For 300 LB Rating, Add	249.60	
For 600 LB Rating, Add	715.38	
For Work In Restricted Working Space, Add	60.74	
23 21 13 23-0654 EA 14", 150 LB, Forged Steel Blind Flange.....	819.05	115.70
For 300 LB Rating, Add	494.42	
For Work In Restricted Working Space, Add	69.42	
23 21 13 23-0655 EA 16", 150 LB, Forged Steel Blind Flange.....	879.75	130.16
For 300 LB Rating, Add	522.88	
For Work In Restricted Working Space, Add	78.10	
23 21 13 23-0656 EA 18", 150 LB, Forged Steel Blind Flange.....	990.95	159.09
For 300 LB Rating, Add	571.63	
For Work In Restricted Working Space, Add	95.45	
23 21 13 23-0657 EA 20", 150 LB, Forged Steel Blind Flange.....	1,268.24	173.55
For 300 LB Rating, Add	773.36	
For Work In Restricted Working Space, Add	104.13	
23 21 13 23-0658 EA 24", 150 LB, Forged Steel Blind Flange.....	1,723.72	202.47
For 300 LB Rating, Add	1,097.54	
For Work In Restricted Working Space, Add	121.48	
23 21 13 23-0659 3,000 LB, Forge Steel Thread-O-Lets (23 21 13 23-0393)		
23 21 13 23-0660 EA 1/2", 3,000 LB, Forge Steel Thread-O-Let.....	65.03	
For Weld-O-Lets, Add	4.22	
For Sock-O-Lets, Add	25.13	
For Work In Restricted Working Space, Add	16.98	
23 21 13 23-0661 EA 3/4", 3,000 LB, Forge Steel Thread-O-Let.....	69.18	
For Weld-O-Lets, Add	4.95	
For Sock-O-Lets, Add	26.78	
For Work In Restricted Working Space, Add	17.78	
23 21 13 23-0662 EA 1", 3,000 LB, Forge Steel Thread-O-Let.....	73.98	
For Weld-O-Lets, Add	5.55	
For Sock-O-Lets, Add	28.67	
For Work In Restricted Working Space, Add	18.86	
23 21 13 23-0663 EA 1-1/4", 3,000 LB, Forge Steel Thread-O-Let.....	83.11	
For Weld-O-Lets, Add	7.87	
For Sock-O-Lets, Add	32.37	
For Work In Restricted Working Space, Add	20.21	
23 21 13 23-0664 EA 1-1/2", 3,000 LB, Forge Steel Thread-O-Let.....	92.09	
For Weld-O-Lets, Add	7.87	
For Sock-O-Lets, Add	35.78	
For Work In Restricted Working Space, Add	22.91	
23 21 13 23-0665 EA 2", 3,000 LB, Forge Steel Thread-O-Let.....	119.50	
For Weld-O-Lets, Add	9.85	
For Sock-O-Lets, Add	46.39	
For Work In Restricted Working Space, Add	29.94	
23 21 13 23-0666 EA 2-1/2", 3,000 LB, Forge Steel Thread-O-Let.....	199.75	
For Weld-O-Lets, Add	35.72	
For Sock-O-Lets, Add	79.48	
For Work In Restricted Working Space, Add	38.50	
23 21 13 23-0667 EA 3", 3,000 LB, Forge Steel Thread-O-Let.....	251.51	
For Weld-O-Lets, Add	35.93	
For Sock-O-Lets, Add	99.17	
For Work In Restricted Working Space, Add	53.90	
23 21 13 23-0668 EA 4", 3,000 LB, Forge Steel Thread-O-Let.....	365.23	
For Weld-O-Lets, Add	70.33	
For Sock-O-Lets, Add	145.82	
For Work In Restricted Working Space, Add	67.37	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 21 13 23-0669	Class 150 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
	Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0670	EA	3/4" To 1-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	12.95
		Note: Includes rubber gasket, and four (4) 1/2" diameter bolts with washers and nut.	
		For Zinc Plated, Add	3.63
		For Hot Dip Galvanized, Add	5.18
		For Advanced Fluoropolymer (Blue Coating), Add	9.07
23 21 13 23-0671	EA	2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	16.51
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	4.62
		For Hot Dip Galvanized, Add	6.60
		For Advanced Fluoropolymer (Blue Coating), Add	11.56
23 21 13 23-0672	EA	2-1/2" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	16.67
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	4.67
		For Hot Dip Galvanized, Add	6.67
		For Advanced Fluoropolymer (Blue Coating), Add	11.67
23 21 13 23-0673	EA	3" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	16.73
		Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	4.68
		For Hot Dip Galvanized, Add	6.69
		For Advanced Fluoropolymer (Blue Coating), Add	11.71
23 21 13 23-0674	EA	4" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	37.87
		Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	10.60
		For Hot Dip Galvanized, Add	15.15
		For Advanced Fluoropolymer (Blue Coating), Add	26.51
23 21 13 23-0675	EA	5" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	54.13
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	
		For Zinc Plated, Add	15.16
		For Hot Dip Galvanized, Add	21.65
		For Advanced Fluoropolymer (Blue Coating), Add	37.89
23 21 13 23-0676	EA	6" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	58.47
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	
		For Zinc Plated, Add	16.37
		For Hot Dip Galvanized, Add	23.39
		For Advanced Fluoropolymer (Blue Coating), Add	40.93
23 21 13 23-0677	EA	8" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	63.91
		Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.	
		For Zinc Plated, Add	17.89
		For Hot Dip Galvanized, Add	25.56
		For Advanced Fluoropolymer (Blue Coating), Add	44.74
23 21 13 23-0678	EA	10" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	141.95
		Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	39.75
		For Hot Dip Galvanized, Add	56.78
		For Advanced Fluoropolymer (Blue Coating), Add	99.37
23 21 13 23-0679	EA	12" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	144.25
		Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	40.39
		For Hot Dip Galvanized, Add	57.70
		For Advanced Fluoropolymer (Blue Coating), Add	100.98
23 21 13 23-0680	EA	14" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	161.74
		Note: Includes rubber gasket, and twelve (12) 1" diameter bolts with washers and nut.	
		For Zinc Plated, Add	45.29
		For Hot Dip Galvanized, Add	64.70
		For Advanced Fluoropolymer (Blue Coating), Add	113.22
23 21 13 23-0681	EA	16" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	269.60
		Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.	
		For Zinc Plated, Add	75.49
		For Hot Dip Galvanized, Add	107.84
		For Advanced Fluoropolymer (Blue Coating), Add	188.72
23 21 13 23-0682	EA	18" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	389.57
		Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	109.08
		For Hot Dip Galvanized, Add	155.83
		For Advanced Fluoropolymer (Blue Coating), Add	272.70
23 21 13 23-0683	EA	20" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	492.10
		Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.	
		For Zinc Plated, Add	137.79
		For Hot Dip Galvanized, Add	196.84
		For Advanced Fluoropolymer (Blue Coating), Add	344.47
23 21 13 23-0684	EA	24" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	702.14
		Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.	
		For Zinc Plated, Add	196.60
		For Hot Dip Galvanized, Add	280.86
		For Advanced Fluoropolymer (Blue Coating), Add	491.50
23 21 13 23-0685	EA	30" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set	1,108.75
		Note: Includes rubber gasket, and twenty-eight (28) 1-1/4" diameter bolts with washers and nut.	
		For Zinc Plated, Add	310.45
		For Hot Dip Galvanized, Add	443.50
		For Advanced Fluoropolymer (Blue Coating), Add	776.13



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0686 EA 36" Pipe Diameter, Class 150 Steel Flange, Bolt And Gasket Set.....	1,578.93	
Note: Includes rubber gasket, and thirty-two (32) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	442.10	
For Hot Dip Galvanized, Add	631.57	
For Advanced Fluoropolymer (Blue Coating), Add	1,105.25	
23 21 13 23-0687 Class 300 Flange, Steel Bolt And Gasket Sets <small>(23 21 13 23-0393)</small>		
Note: Used between weld neck or slip-on flanges and valves, or equipment with bolt connections, or between two bolted valves. Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0688 EA 3/4" To 1-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set	20.22	
Note: Includes rubber gasket, and four (4) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	5.66	
For Hot Dip Galvanized, Add	8.09	
For Advanced Fluoropolymer (Blue Coating), Add	14.15	
23 21 13 23-0689 EA 2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	37.96	
Note: Includes rubber gasket, and eight (8) 5/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	10.63	
For Hot Dip Galvanized, Add	15.18	
For Advanced Fluoropolymer (Blue Coating), Add	26.57	
23 21 13 23-0690 EA 2-1/2" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	59.64	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	16.70	
For Hot Dip Galvanized, Add	23.86	
For Advanced Fluoropolymer (Blue Coating), Add	41.75	
23 21 13 23-0691 EA 3" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	64.79	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	18.14	
For Hot Dip Galvanized, Add	25.92	
For Advanced Fluoropolymer (Blue Coating), Add	45.35	
23 21 13 23-0692 EA 4" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	66.09	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	18.51	
For Hot Dip Galvanized, Add	26.44	
For Advanced Fluoropolymer (Blue Coating), Add	46.26	
23 21 13 23-0693 EA 5" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	70.02	
Note: Includes rubber gasket, and eight (8) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	19.61	
For Hot Dip Galvanized, Add	28.01	
For Advanced Fluoropolymer (Blue Coating), Add	49.01	
23 21 13 23-0694 EA 6" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	101.90	
Note: Includes rubber gasket, and twelve (12) 3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	28.53	
For Hot Dip Galvanized, Add	40.76	
For Advanced Fluoropolymer (Blue Coating), Add	71.33	
23 21 13 23-0695 EA 8" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	158.41	
Note: Includes rubber gasket, and twelve (12) 7/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	44.35	
For Hot Dip Galvanized, Add	63.36	
For Advanced Fluoropolymer (Blue Coating), Add	110.89	
23 21 13 23-0696 EA 10" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	291.75	
Note: Includes rubber gasket, and sixteen (16) 1" diameter bolts with washers and nut.		
For Zinc Plated, Add	81.69	
For Hot Dip Galvanized, Add	116.70	
For Advanced Fluoropolymer (Blue Coating), Add	204.23	
23 21 13 23-0697 EA 12" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	421.93	
Note: Includes rubber gasket, and sixteen (16) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	118.14	
For Hot Dip Galvanized, Add	168.77	
For Advanced Fluoropolymer (Blue Coating), Add	295.35	
23 21 13 23-0698 EA 14" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	578.06	
Note: Includes rubber gasket, and twenty (20) 1-1/8" diameter bolts with washers and nut.		
For Zinc Plated, Add	161.86	
For Hot Dip Galvanized, Add	231.22	
For Advanced Fluoropolymer (Blue Coating), Add	404.64	
23 21 13 23-0699 EA 16" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	799.24	
Note: Includes rubber gasket, and twenty (20) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	223.79	
For Hot Dip Galvanized, Add	319.70	
For Advanced Fluoropolymer (Blue Coating), Add	559.47	
23 21 13 23-0700 EA 18" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,025.73	
Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	287.20	
For Hot Dip Galvanized, Add	410.29	
For Advanced Fluoropolymer (Blue Coating), Add	718.01	
23 21 13 23-0701 EA 20" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,087.97	
Note: Includes rubber gasket, and twenty-four (24) 1-1/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	304.63	
For Hot Dip Galvanized, Add	435.19	
For Advanced Fluoropolymer (Blue Coating), Add	761.58	
23 21 13 23-0702 EA 24" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	1,377.88	
Note: Includes rubber gasket, and twenty-four (24) 1-1/2" diameter bolts with washers and nut.		
For Zinc Plated, Add	385.81	
For Hot Dip Galvanized, Add	551.15	
For Advanced Fluoropolymer (Blue Coating), Add	964.52	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0703 EA 30" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	2,160.78	
Note: Includes rubber gasket, and twenty-eight (28) 1-3/4" diameter bolts with washers and nut.		
For Zinc Plated, Add	605.02	
For Hot Dip Galvanized, Add	864.31	
For Advanced Fluoropolymer (Blue Coating), Add	1,512.55	
23 21 13 23-0704 EA 36" Pipe Diameter, Class 300 Steel Flange, Bolt And Gasket Set.....	3,288.28	
Note: Includes rubber gasket, and thirty-two (32) 2" diameter bolts with washers and nut.		
For Zinc Plated, Add	920.72	
For Hot Dip Galvanized, Add	1,315.31	
For Advanced Fluoropolymer (Blue Coating), Add	2,301.80	
23 21 13 23-0705 150 LB, Rubber Flange Gasket Replacement <small>(23 21 13 23-0393)</small>		
Note: Includes unbolting, removal of old gaskets, new 150 LB rubber gasket and rebolting.		
23 21 13 23-0706 EA 1/2", 150 LB, Rubber Flange Gasket Replacement	26.95	
For 300 LB Rating Gasket Set, Add	0.11	
For Work In Restricted Working Space, Add	7.99	
23 21 13 23-0707 EA 3/4", 150 LB, Rubber Flange Gasket Replacement	28.85	
For 300 LB Rating Gasket Set, Add	0.15	
For Work In Restricted Working Space, Add	8.53	
23 21 13 23-0708 EA 1", 150 LB, Rubber Flange Gasket Replacement	31.83	
For 300 LB Rating Gasket Set, Add	0.26	
For Work In Restricted Working Space, Add	9.32	
23 21 13 23-0709 EA 1-1/4", 150 LB, Rubber Flange Gasket Replacement	34.60	
For 300 LB Rating Gasket Set, Add	0.30	
For Work In Restricted Working Space, Add	10.12	
23 21 13 23-0710 EA 1-1/2", 150 LB, Rubber Flange Gasket Replacement	38.37	
For 300 LB Rating Gasket Set, Add	0.38	
For Work In Restricted Working Space, Add	11.19	
23 21 13 23-0711 EA 2", 150 LB, Rubber Flange Gasket Replacement	42.36	
For 300 LB Rating Gasket Set, Add	0.53	
For Work In Restricted Working Space, Add	12.26	
23 21 13 23-0712 EA 2-1/2", 150 LB, Rubber Flange Gasket Replacement	50.00	
For 300 LB Rating Gasket Set, Add	0.72	
For Work In Restricted Working Space, Add	14.39	
23 21 13 23-0713 EA 3", 150 LB, Rubber Flange Gasket Replacement	52.98	
For 300 LB Rating Gasket Set, Add	0.83	
For Work In Restricted Working Space, Add	15.18	
23 21 13 23-0714 EA 4", 150 LB, Rubber Flange Gasket Replacement	70.48	
For 300 LB Rating Gasket Set, Add	1.36	
For Work In Restricted Working Space, Add	19.98	
23 21 13 23-0715 EA 5", 150 LB, Rubber Flange Gasket Replacement	81.57	
For 300 LB Rating Gasket Set, Add	1.51	
For Work In Restricted Working Space, Add	23.18	
23 21 13 23-0716 EA 6", 150 LB, Rubber Flange Gasket Replacement	93.51	
For 300 LB Rating Gasket Set, Add	1.96	
For Work In Restricted Working Space, Add	26.37	
23 21 13 23-0717 EA 8", 150 LB, Rubber Flange Gasket Replacement	114.75	
For 300 LB Rating Gasket Set, Add	2.87	
For Work In Restricted Working Space, Add	31.97	
23 21 13 23-0718 EA 10", 150 LB, Rubber Flange Gasket Replacement	125.30	
For 300 LB Rating Gasket Set, Add	4.07	
For Work In Restricted Working Space, Add	34.10	
23 21 13 23-0719 EA 12", 150 LB, Rubber Flange Gasket Replacement	143.63	
For 300 LB Rating Gasket Set, Add	5.20	
For Work In Restricted Working Space, Add	38.63	
23 21 13 23-0720 EA 14", 150 LB, Rubber Flange Gasket Replacement	150.98	
For 300 LB Rating Gasket Set, Add	6.22	
For Work In Restricted Working Space, Add	39.96	
23 21 13 23-0721 EA 16", 150 LB, Rubber Flange Gasket Replacement	197.42	
For 300 LB Rating Gasket Set, Add	6.94	
For Work In Restricted Working Space, Add	53.28	
23 21 13 23-0722 EA 18", 150 LB, Rubber Flange Gasket Replacement	215.14	
For 300 LB Rating Gasket Set, Add	7.24	
For Work In Restricted Working Space, Add	58.34	
23 21 13 23-0723 EA 20", 150 LB, Rubber Flange Gasket Replacement	259.27	
For 300 LB Rating Gasket Set, Add	7.77	
For Work In Restricted Working Space, Add	71.12	
23 21 13 23-0724 Cut And Prepare For Welding Existing In-Place Black Steel Pipe <small>(23 21 13 23-0393)</small>		
Note: For use when connecting pipe to an existing in-place system.		
23 21 13 23-0725 EA 1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	19.28	
For Work In Restricted Working Space, Add	5.78	
23 21 13 23-0726 EA 3/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	20.82	
For Work In Restricted Working Space, Add	6.25	
23 21 13 23-0727 EA 1", Cut And Prepare For Welding Existing In Place Black Steel Pipe	23.42	
For Work In Restricted Working Space, Add	7.03	
23 21 13 23-0728 EA 1-1/4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	24.58	
For Work In Restricted Working Space, Add	7.37	
23 21 13 23-0729 EA 1-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	26.02	
For Work In Restricted Working Space, Add	7.81	
23 21 13 23-0730 EA 2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	27.95	
For Work In Restricted Working Space, Add	8.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0731 EA 2-1/2", Cut And Prepare For Welding Existing In Place Black Steel Pipe	29.88	
For Work In Restricted Working Space, Add	8.96	
23 21 13 23-0732 EA 3", Cut And Prepare For Welding Existing In Place Black Steel Pipe	32.77	
For Work In Restricted Working Space, Add	9.83	
23 21 13 23-0733 EA 4", Cut And Prepare For Welding Existing In Place Black Steel Pipe	35.66	
For Work In Restricted Working Space, Add	10.70	
23 21 13 23-0734 EA 6", Cut And Prepare For Welding Existing In Place Black Steel Pipe	38.55	
For Work In Restricted Working Space, Add	11.57	
23 21 13 23-0735 EA 8", Cut And Prepare For Welding Existing In Place Black Steel Pipe	41.45	
For Work In Restricted Working Space, Add	12.44	
23 21 13 23-0736 EA 10", Cut And Prepare For Welding Existing In Place Black Steel Pipe	45.30	
For Work In Restricted Working Space, Add	13.59	
23 21 13 23-0737 EA 12", Cut And Prepare For Welding Existing In Place Black Steel Pipe	49.16	
For Work In Restricted Working Space, Add	14.75	
23 21 13 23-0738 EA 14", Cut And Prepare For Welding Existing In Place Black Steel Pipe	53.01	
For Work In Restricted Working Space, Add	15.90	
23 21 13 23-0739 EA 16", Cut And Prepare For Welding Existing In Place Black Steel Pipe	56.86	
For Work In Restricted Working Space, Add	17.06	
23 21 13 23-0740 EA 18", Cut And Prepare For Welding Existing In Place Black Steel Pipe	59.76	
For Work In Restricted Working Space, Add	17.93	
23 21 13 23-0741 EA 20", Cut And Prepare For Welding Existing In Place Black Steel Pipe	62.65	
For Work In Restricted Working Space, Add	18.80	
23 21 13 23-0742 EA 24", Cut And Prepare For Welding Existing In Place Black Steel Pipe	66.51	
For Work In Restricted Working Space, Add	19.95	
23 21 13 23-0743 Welded Plain End Electric Resistance Black Steel Pipe (23 21 13 23-0393)		
Note: ASTM A-135.		
23 21 13 23-0744 LF 2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	19.35	9.88
For Work In Restricted Working Space, Add	4.85	
23 21 13 23-0745 LF 2-1/2" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	21.05	10.78
For Work In Restricted Working Space, Add	4.85	
23 21 13 23-0746 LF 3" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	21.87	10.60
For Work In Restricted Working Space, Add	4.76	
23 21 13 23-0747 LF 4" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	27.45	13.47
For Work In Restricted Working Space, Add	6.06	
23 21 13 23-0748 LF 6" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	43.96	19.94
For Work In Restricted Working Space, Add	8.97	
23 21 13 23-0749 LF 8.322" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	55.28	23.59
For Work In Restricted Working Space, Add	10.63	
23 21 13 23-0750 LF 10.365" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	73.58	29.38
For Work In Restricted Working Space, Add	13.22	
23 21 13 23-0751 LF 12.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	89.19	35.42
For Work In Restricted Working Space, Add	15.93	
23 21 13 23-0752 LF 14.375" Electric Resistance Weld Black Pipe, Plain End Schedule 40 ASTM A-135, Not Including Hangers Or Fittings	114.22	45.97
For Work In Restricted Working Space, Add	20.68	
23 21 13 23-0753 150 LB, Spiral Wound Metal Flange Gasket Replacement (23 21 13 23-0393)		
Note: Includes unbolting, removal of old gaskets, new 150 LB spiral wound metal flange gasket (1/8" thick carbon steel outer ring with spiral wound 304 stainless steel inner ring) and rebolting.		
23 21 13 23-0754 EA 1/2", 150 LB, Spiral Wound Metal Flange Gasket Replacement	29.95	
For 300 Lb., Add	0.25	
For Work In Restricted Working Space, Add	7.99	
23 21 13 23-0755 EA 3/4", 150 LB, Spiral Wound Metal Flange Gasket Replacement	31.79	
For 300 Lb., Add	0.25	
For Work In Restricted Working Space, Add	8.53	
23 21 13 23-0756 EA 1", 150 LB, Spiral Wound Metal Flange Gasket Replacement	34.48	
For 300 Lb., Add	0.26	
For Work In Restricted Working Space, Add	9.32	
23 21 13 23-0757 EA 1-1/4", 150 LB, Spiral Wound Metal Flange Gasket Replacement	37.66	
For 300 Lb., Add	0.29	
For Work In Restricted Working Space, Add	10.12	
23 21 13 23-0758 EA 1-1/2", 150 LB, Spiral Wound Metal Flange Gasket Replacement	41.29	
For 300 Lb., Add	0.30	
For Work In Restricted Working Space, Add	11.19	
23 21 13 23-0759 EA 2", 150 LB, Spiral Wound Metal Flange Gasket Replacement	45.04	
For 300 Lb., Add	0.31	
For Work In Restricted Working Space, Add	12.26	
23 21 13 23-0760 EA 2-1/2", 150 LB, Spiral Wound Metal Flange Gasket Replacement	52.51	
For 300 Lb., Add	0.34	
For Work In Restricted Working Space, Add	14.39	
23 21 13 23-0761 EA 3", 150 LB, Spiral Wound Metal Flange Gasket Replacement	55.53	
For 300 Lb., Add	0.37	
For Work In Restricted Working Space, Add	15.18	
23 21 13 23-0762 EA 4", 150 LB, Spiral Wound Metal Flange Gasket Replacement	72.89	
For 300 Lb., Add	0.47	
For Work In Restricted Working Space, Add	19.98	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0763	EA	5", 150 LB, Spiral Wound Metal Flange Gasket Replacement <i>For 300 Lb., Add</i> <i>For Work In Restricted Working Space, Add</i>	85.03 0.58 23.18	
23 21	13 23-0764	EA	6", 150 LB, Spiral Wound Metal Flange Gasket Replacement <i>For 300 Lb., Add</i> <i>For Work In Restricted Working Space, Add</i>	96.54 0.65 26.37	
23 21	13 23-0765	EA	8", 150 LB, Spiral Wound Metal Flange Gasket Replacement <i>For 300 Lb., Add</i> <i>For Work In Restricted Working Space, Add</i>	116.87 0.77 31.97	
23 21	13 23-0766	EA	10", 150 LB, Spiral Wound Metal Flange Gasket Replacement <i>For 300 Lb., Add</i> <i>For Work In Restricted Working Space, Add</i>	127.86 1.07 34.10	
23 21	13 23-0767	EA	12", 150 LB, Spiral Wound Metal Flange Gasket Replacement <i>For 300 Lb., Add</i> <i>For Work In Restricted Working Space, Add</i>	150.15 1.60 38.63	
23 21	13 23-0768		150 LB, Flexible Graphite Flange Gasket Replacement <small>(23 21 13 23-0393)</small> Note: Includes unbolting, removal of old gaskets, new 150 LB spiral wound metal flange gasket (flexible graphite outer ring with 316 stainless steel inner ring) and rebolting.		
23 21	13 23-0769	EA	1/2", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	27.30 7.99	
23 21	13 23-0770	EA	3/4", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	29.52 8.53	
23 21	13 23-0771	EA	1", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	32.35 9.32	
23 21	13 23-0772	EA	1-1/4", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	35.54 10.12	
23 21	13 23-0773	EA	1-1/2", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	39.21 11.19	
23 21	13 23-0774	EA	2", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	43.37 12.26	
23 21	13 23-0775	EA	2-1/2", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	51.35 14.39	
23 21	13 23-0776	EA	3", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	54.20 15.18	
23 21	13 23-0777	EA	4", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	72.41 19.98	
23 21	13 23-0778	EA	5", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	84.17 23.18	
23 21	13 23-0779	EA	6", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	95.62 26.37	
23 21	13 23-0780	EA	8", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	119.54 31.97	
23 21	13 23-0781	EA	10", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	132.48 34.10	
23 21	13 23-0782	EA	12", 150 LB, Flexible Graphite Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	152.04 38.63	
23 21	13 23-0783		150 LB, Teflon, Spiral Wound, Flange Gasket Replacement <small>(23 21 13 23-0393)</small> Note: Includes unbolting, removal of old gaskets, new 150 LB spiral wound metal flange gasket (teflon outer ring with 304 stainless steel inner ring) and rebolting.		
23 21	13 23-0784	EA	1/2", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	38.28 7.99	
23 21	13 23-0785	EA	3/4", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	40.86 8.53	
23 21	13 23-0786	EA	1", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	44.33 9.32	
23 21	13 23-0787	EA	1-1/4", Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	49.79 10.12	
23 21	13 23-0788	EA	1-1/2", Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	53.87 11.19	
23 21	13 23-0789	EA	2", Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	58.81 12.26	
23 21	13 23-0790	EA	2-1/2", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	68.48 14.39	
23 21	13 23-0791	EA	3", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	76.66 15.18	
23 21	13 23-0792	EA	4", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	97.62 19.98	
23 21	13 23-0793	EA	5", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	115.90 23.18	
23 21	13 23-0794	EA	6", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	147.80 26.37	
23 21	13 23-0795	EA	8", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	165.73 31.97	
23 21	13 23-0796	EA	10", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	186.42 34.10	
23 21	13 23-0797	EA	12", 150 LB Teflon, Spiral Wound, Flange Gasket Replacement <i>For Work In Restricted Working Space, Add</i>	238.65 38.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0798 Flanged Steel Fittings <small>(23 21 13 23)</small> See CSI section 23 21 13 23-0394 for steel pipe, 23 21 13 23-0617 for welded neck flange ends.		
23 21 13 23-0799 Flanged Steel Fittings, Standard Weight <small>(23 21 13 23-0798)</small> Note: Flanged equipment, flanged fittings and flanged valves exclude bolt and gasket sets.		
23 21 13 23-0800 Flanged Steel, 90 Degree Elbows <small>(23 21 13 23-0799)</small>		
23 21 13 23-0801 EA 2" Standard Weight, Flanged Steel, 90 Degree Elbow.....	389.86	41.45
For Galvanized Fittings, Add	262.18	
For Extra Heavy Weight Fittings, Add	393.28	
23 21 13 23-0802 EA 2-1/2" Standard Weight, Flanged Steel, 90 Degree Elbow	434.84	46.15
For Galvanized Fittings, Add	292.49	
For Extra Heavy Weight Fittings, Add	438.73	
23 21 13 23-0803 EA 3" Standard Weight, Flanged Steel, 90 Degree Elbow.....	432.05	50.95
For Galvanized Fittings, Add	284.58	
For Extra Heavy Weight Fittings, Add	426.88	
23 21 13 23-0804 EA 4" Standard Weight, Flanged Steel, 90 Degree Elbow.....	548.24	59.20
For Galvanized Fittings, Add	367.58	
For Extra Heavy Weight Fittings, Add	551.38	
23 21 13 23-0805 EA 5" Standard Weight, Flanged Steel, 90 Degree Elbow.....	766.40	66.30
For Galvanized Fittings, Add	533.59	
For Extra Heavy Weight Fittings, Add	800.39	
23 21 13 23-0806 EA 6" Standard Weight, Flanged Steel, 90 Degree Elbow.....	810.37	76.95
For Galvanized Fittings, Add	555.99	
For Extra Heavy Weight Fittings, Add	833.99	
23 21 13 23-0807 EA 8" Standard Weight, Flanged Steel, 90 Degree Elbow.....	1,028.15	85.21
For Galvanized Fittings, Add	720.27	
For Extra Heavy Weight Fittings, Add	1,080.41	
23 21 13 23-0808 Flanged Steel, Reducing 90 Degree Elbows <small>(23 21 13 23-0799)</small>		
23 21 13 23-0809 EA 2-1/2" x 2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	727.73	43.85
For Galvanized Fittings, Add	529.64	
For Extra Heavy Weight Fittings, Add	794.46	
23 21 13 23-0810 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	757.89	48.55
For Galvanized Fittings, Add	548.09	
For Extra Heavy Weight Fittings, Add	822.13	
23 21 13 23-0811 EA 4" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	943.86	55.03
For Galvanized Fittings, Add	689.06	
For Extra Heavy Weight Fittings, Add	1,033.58	
23 21 13 23-0812 EA 5" x 3" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,168.22	58.58
For Galvanized Fittings, Add	864.29	
For Extra Heavy Weight Fittings, Add	1,296.43	
23 21 13 23-0813 EA 6" x 4" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,330.65	68.07
For Galvanized Fittings, Add	982.86	
For Extra Heavy Weight Fittings, Add	1,474.30	
23 21 13 23-0814 EA 8" x 6" Standard Weight, Flanged Steel, Reducing 90 Degree Elbow	1,855.78	81.12
For Galvanized Fittings, Add	1,387.34	
For Extra Heavy Weight Fittings, Add	2,081.02	
23 21 13 23-0815 Flanged Steel, 45 Degree Elbows <small>(23 21 13 23-0799)</small>		
23 21 13 23-0816 EA 2" Standard Weight, Flanged Steel, 45 Degree Elbow.....	508.44	41.45
For Galvanized Fittings, Add	357.05	
For Extra Heavy Weight Fittings, Add	535.57	
23 21 13 23-0817 EA 2-1/2" Standard Weight, Flanged Steel, 45 Degree Elbow	530.36	46.15
For Galvanized Fittings, Add	368.90	
For Extra Heavy Weight Fittings, Add	553.36	
23 21 13 23-0818 EA 3" Standard Weight, Flanged Steel, 45 Degree Elbow.....	550.62	50.95
For Galvanized Fittings, Add	379.44	
For Extra Heavy Weight Fittings, Add	569.16	
23 21 13 23-0819 EA 4" Standard Weight, Flanged Steel, 45 Degree Elbow.....	686.58	59.20
For Galvanized Fittings, Add	478.26	
For Extra Heavy Weight Fittings, Add	717.38	
23 21 13 23-0820 EA 5" Standard Weight, Flanged Steel, 45 Degree Elbow.....	990.38	66.30
For Galvanized Fittings, Add	712.78	
For Extra Heavy Weight Fittings, Add	1,069.16	
23 21 13 23-0821 EA 6" Standard Weight, Flanged Steel, 45 Degree Elbow.....	965.17	76.95
For Galvanized Fittings, Add	679.83	
For Extra Heavy Weight Fittings, Add	1,019.75	
23 21 13 23-0822 EA 8" Standard Weight, Flanged Steel, 45 Degree Elbow.....	1,138.40	85.21
For Galvanized Fittings, Add	808.47	
For Extra Heavy Weight Fittings, Add	1,212.71	
23 21 13 23-0823 Flanged Steel, Tees <small>(23 21 13 23-0799)</small>		
23 21 13 23-0824 EA 2" Standard Weight, Flanged Steel, Tee.....	499.97	62.13
For Galvanized Fittings, Add	325.42	
For Extra Heavy Weight Fittings, Add	488.14	
23 21 13 23-0825 EA 2-1/2" Standard Weight, Flanged Steel, Tee.....	645.67	69.23
For Galvanized Fittings, Add	433.46	
For Extra Heavy Weight Fittings, Add	650.20	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0826 EA 3" Standard Weight, Flanged Steel, Tee	588.81	76.33
For Galvanized Fittings, Add	379.45	
For Extra Heavy Weight Fittings, Add	569.17	
23 21 13 23-0827 EA 4" Standard Weight, Flanged Steel, Tee	841.28	88.84
For Galvanized Fittings, Add	566.52	
For Extra Heavy Weight Fittings, Add	849.78	
23 21 13 23-0828 EA 5" Standard Weight, Flanged Steel, Tee	1,249.84	99.50
For Galvanized Fittings, Add	880.58	
For Extra Heavy Weight Fittings, Add	1,320.88	
23 21 13 23-0829 EA 6" Standard Weight, Flanged Steel, Tee	1,525.37	115.47
For Galvanized Fittings, Add	1,081.85	
For Extra Heavy Weight Fittings, Add	1,622.77	
23 21 13 23-0830 EA 8" Standard Weight, Flanged Steel, Tee	1,688.91	133.75
For Galvanized Fittings, Add	1,190.66	
For Extra Heavy Weight Fittings, Add	1,785.98	
23 21 13 23-0831 Flanged Steel, Reducing Tees (23 21 13 23-0799)		
23 21 13 23-0832 EA 2-1/2" Standard Weight, Flanged Steel, Reducing Tee	790.34	66.92
For Galvanized Fittings, Add	552.04	
For Extra Heavy Weight Fittings, Add	828.06	
23 21 13 23-0833 EA 3" Standard Weight, Flanged Steel, Reducing Tee	912.99	74.02
For Galvanized Fittings, Add	641.63	
For Extra Heavy Weight Fittings, Add	962.45	
23 21 13 23-0834 EA 4" Standard Weight, Flanged Steel, Reducing Tee	1,571.13	84.68
For Galvanized Fittings, Add	1,155.38	
For Extra Heavy Weight Fittings, Add	1,733.06	
23 21 13 23-0835 EA 5" Standard Weight, Flanged Steel, Reducing Tee	1,698.26	95.94
For Galvanized Fittings, Add	1,243.58	
For Extra Heavy Weight Fittings, Add	1,865.36	
23 21 13 23-0836 EA 6" Standard Weight, Flanged Steel, Reducing Tee	2,134.82	110.15
For Galvanized Fittings, Add	1,575.78	
For Extra Heavy Weight Fittings, Add	2,363.68	
23 21 13 23-0837 EA 8" Standard Weight, Flanged Steel, Reducing Tee	2,665.72	123.72
For Galvanized Fittings, Add	1,984.18	
For Extra Heavy Weight Fittings, Add	2,976.26	
23 21 13 23-0838 Flanged Steel, Concentric Reducers (23 21 13 23-0799)		
23 21 13 23-0839 EA 3" x 2-1/2" Standard Weight, Flanged Steel, Concentric Reducer	748.01	48.55
For Galvanized Fittings, Add	540.18	
For Extra Heavy Weight Fittings, Add	810.28	
23 21 13 23-0840 EA 4" x 3" Standard Weight, Flanged Steel, Concentric Reducer	849.99	55.03
For Galvanized Fittings, Add	613.96	
For Extra Heavy Weight Fittings, Add	920.94	
23 21 13 23-0841 EA 5" x 4" Standard Weight, Flanged Steel, Concentric Reducer	1,261.73	62.75
For Galvanized Fittings, Add	934.12	
For Extra Heavy Weight Fittings, Add	1,401.18	
23 21 13 23-0842 EA 6" x 4" Standard Weight, Flanged Steel, Concentric Reducer	1,391.59	68.07
For Galvanized Fittings, Add	1,031.62	
For Extra Heavy Weight Fittings, Add	1,547.42	
23 21 13 23-0843 EA 8" x 6" Standard Weight, Flanged Steel, Concentric Reducer	1,630.15	81.12
For Galvanized Fittings, Add	1,206.84	
For Extra Heavy Weight Fittings, Add	1,810.26	
23 21 13 23-0844 Flanged Steel, Eccentric Reducers (23 21 13 23-0799)		
23 21 13 23-0845 EA 4" x 3" Standard Weight, Flanged Steel, Eccentric Reducer	808.49	55.03
For Galvanized Fittings, Add	580.76	
For Extra Heavy Weight Fittings, Add	871.14	
23 21 13 23-0846 EA 5" x 4" Standard Weight, Flanged Steel, Eccentric Reducer	1,099.34	62.75
For Galvanized Fittings, Add	804.21	
For Extra Heavy Weight Fittings, Add	1,206.31	
23 21 13 23-0847 Plain End Couplings And Fittings (23 21 13 23)		
Note: For use on standard weight steel pipe (Schedule 40), but may be used on lightwall steel or other metallic pipe such as aluminum or stainless steel.		
23 21 13 23-0848 Plain End Piping System Couplings (23 21 13 23-0847)		
23 21 13 23-0849 Plainlock Plain End Piping System Couplings (23 21 13 23-0848)		
Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0850 EA 1" Plainlock Plain End Piping System Coupling	183.46	5.32
For Galvanized Fittings, Add	35.09	
23 21 13 23-0851 EA 1-1/2" Plainlock Plain End Piping System Coupling	186.57	7.36
For Galvanized Fittings, Add	35.09	
23 21 13 23-0852 EA 2" Plainlock Plain End Piping System Coupling	190.17	9.76
For Galvanized Fittings, Add	35.09	
23 21 13 23-0853 EA 2-1/2" Plainlock Plain End Piping System Coupling	193.23	11.80
For Galvanized Fittings, Add	35.09	
23 21 13 23-0854 EA 3" Plainlock Plain End Piping System Coupling	228.40	14.20
For Galvanized Fittings, Add	41.42	
23 21 13 23-0855 EA 4" Plainlock Plain End Piping System Coupling	315.33	18.91
For Galvanized Fittings, Add	57.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0856 EA 6" Plainlock Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	530.66 96.90	30.80
23 21 13 23-0857 Roust-A-Bout Plain End Piping System Couplings (23 21 13 23-0848) Note: Ductile iron body with gasket, bolts and nuts.		
23 21 13 23-0858 EA 1-1/2" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	220.65 52.39	7.36
23 21 13 23-0859 EA 2" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	224.25 52.39	9.76
23 21 13 23-0860 EA 2-1/2" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	227.32 52.39	11.89
23 21 13 23-0861 EA 3" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	331.71 77.61	14.20
23 21 13 23-0862 EA 3-1/2" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	384.11 89.81	16.60
23 21 13 23-0863 EA 4" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	387.62 89.81	18.91
23 21 13 23-0864 EA 5" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	548.76 128.31	23.69
23 21 13 23-0865 EA 6" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	672.98 156.71	30.80
23 21 13 23-0866 EA 8" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	1,166.56 277.87	36.74
23 21 13 23-0867 EA 10" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	1,511.26 361.50	43.49
23 21 13 23-0868 EA 12" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	1,891.67 453.61	51.47
23 21 13 23-0869 EA 14" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	2,661.87 644.13	56.90
23 21 13 23-0870 EA 16" Roust-A-Bout Plain End Piping System Coupling <i>For Galvanized Fittings, Add</i>	3,624.83 862.09	64.35
23 21 13 23-0871 Plain End Piping System Fittings (23 21 13 23-0847) Note: Cast ductile iron bodies.		
23 21 13 23-0872 Plain End Piping System, 90 Degree Elbows (23 21 13 23-0871)		
23 21 13 23-0873 EA 1" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	180.15 33.13	9.68
23 21 13 23-0874 EA 1-1/2" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	187.62 33.13	14.65
23 21 13 23-0875 EA 2" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	194.66 33.13	19.35
23 21 13 23-0876 EA 2-1/2" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	200.99 33.13	23.61
23 21 13 23-0877 EA 3" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	241.80 39.79	28.58
23 21 13 23-0878 EA 4" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	346.61 58.03	37.63
23 21 13 23-0879 EA 5" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,075.00 200.87	47.13
23 21 13 23-0880 EA 6" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	891.06 159.72	61.69
23 21 13 23-0881 EA 8" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,796.57 337.34	73.23
23 21 13 23-0882 EA 10" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	2,248.22 423.99	85.56
23 21 13 23-0883 EA 12" Plain End Piping System, 90 Degree Elbow <i>For Galvanized Fittings, Add</i>	2,853.28 539.84	102.78
23 21 13 23-0884 Plain End Piping System, 45 Degree Elbows (23 21 13 23-0871)		
23 21 13 23-0885 EA 1" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	180.15 33.13	9.68
23 21 13 23-0886 EA 1-1/2" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	187.62 33.13	14.65
23 21 13 23-0887 EA 2" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	194.66 33.13	19.35
23 21 13 23-0888 EA 2-1/2" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	200.99 33.13	23.61
23 21 13 23-0889 EA 3" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	241.80 39.79	28.58
23 21 13 23-0890 EA 4" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	346.61 58.03	37.63
23 21 13 23-0891 EA 5" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,075.00 200.87	47.13
23 21 13 23-0892 EA 6" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	894.13 160.34	61.69
23 21 13 23-0893 EA 8" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,036.65 185.36	73.23
23 21 13 23-0894 EA 10" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,421.67 258.68	85.56

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-0895	EA	12" Plain End Piping System, 45 Degree Elbow <i>For Galvanized Fittings, Add</i>	1,825.00 334.18	102.78
23 21	13 23-0896		Plain End Piping System, Tees <small>(23 21 13 23-0871)</small>		
23 21	13 23-0897	EA	1" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	245.03 44.61	14.65
23 21	13 23-0898	EA	1-1/2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	256.03 44.61	22.01
23 21	13 23-0899	EA	2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	265.73 44.61	28.49
23 21	13 23-0900	EA	2-1/2" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	275.39 44.61	34.88
23 21	13 23-0901	EA	3" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	385.32 64.20	42.87
23 21	13 23-0902	EA	4" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	529.55 89.29	55.47
23 21	13 23-0903	EA	5" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,089.46 196.14	72.51
23 21	13 23-0904	EA	6" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,346.48 242.07	90.79
23 21	13 23-0905	EA	8" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	1,842.64 335.41	110.41
23 21	13 23-0906	EA	10" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	2,753.96 512.20	128.69
23 21	13 23-0907	EA	12" Plain End Piping System, Tee <i>For Galvanized Fittings, Add</i>	3,695.63 692.90	154.17
23 21	13 23-0908		Plain End Piping System, Reducing Tees <small>(23 21 13 23-0871)</small>		
23 21	13 23-0909	EA	1-1/2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	476.29 88.18	23.61
23 21	13 23-0910	EA	2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	483.58 88.18	28.49
23 21	13 23-0911	EA	2-1/2" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	493.24 88.18	34.88
23 21	13 23-0912	EA	3" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	505.22 88.18	42.87
23 21	13 23-0913	EA	4" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	734.03 130.18	55.47
23 21	13 23-0914	EA	6" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	1,241.47 221.07	90.79
23 21	13 23-0915	EA	8" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	1,621.27 291.14	110.41
23 21	13 23-0916	EA	10" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	2,437.10 448.83	128.69
23 21	13 23-0917	EA	12" Plain End Piping System, Reducing Tee <i>For Galvanized Fittings, Add</i>	3,604.96 674.76	154.17
23 21	13 23-0918		Plain End Piping System, Wyes <small>(23 21 13 23-0871)</small>		
23 21	13 23-0919	EA	2" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	696.05 130.68	28.49
23 21	13 23-0920	EA	2-1/2" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	705.71 130.68	34.88
23 21	13 23-0921	EA	3" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	798.75 146.89	42.87
23 21	13 23-0922	EA	4" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,173.26 218.03	55.47
23 21	13 23-0923	EA	5" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,435.34 265.31	72.51
23 21	13 23-0924	EA	6" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	1,962.86 365.35	90.79
23 21	13 23-0925	EA	8" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	2,531.33 473.15	110.41
23 21	13 23-0926	EA	10" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	3,681.53 697.72	128.69
23 21	13 23-0927	EA	12" Plain End Piping System, Wye <i>For Galvanized Fittings, Add</i>	5,609.10 1,075.59	154.17
23 21	13 23-0928		Plain End Piping System, Laterals <small>(23 21 13 23-0871)</small>		
23 21	13 23-0929	EA	2" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	742.26 139.92	28.49
23 21	13 23-0930	EA	2-1/2" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	751.92 139.92	34.88
23 21	13 23-0931	EA	3" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	844.65 156.07	42.87
23 21	13 23-0932	EA	4" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	1,260.92 235.56	55.47
23 21	13 23-0933	EA	5" Plain End Piping System, Lateral <i>For Galvanized Fittings, Add</i>	1,644.12 307.07	72.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0934 EA 6" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	2,097.19 392.21	90.79
23 21 13 23-0935 EA 8" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	3,024.75 571.83	110.41
23 21 13 23-0936 EA 10" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	4,228.98 807.21	128.69
23 21 13 23-0937 EA 12" Plain End Piping System, Lateral..... <i>For Galvanized Fittings, Add</i>	5,690.46 1,091.86	154.17
23 21 13 23-0938 Plain End Piping System, Crosses (23 21 13 23-0871)		
23 21 13 23-0939 EA 2" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	823.57 94.95	42.69
23 21 13 23-0940 EA 2-1/2" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	838.03 94.95	52.28
23 21 13 23-0941 EA 3" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	977.53 110.13	64.35
23 21 13 23-0942 EA 4" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	1,335.01 151.29	83.17
23 21 13 23-0943 EA 5" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	1,882.27 214.89	108.81
23 21 13 23-0944 EA 6" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	2,473.52 283.74	135.80
23 21 13 23-0945 EA 8" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	3,158.66 364.02	164.46
23 21 13 23-0946 EA 10" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	4,537.13 531.12	192.24
23 21 13 23-0947 EA 12" Plain End Piping System, Cross <i>For Galvanized Fittings, Add</i>	6,473.38 765.84	231.30
23 21 13 23-0948 Plain End Piping System, Adapter Nipples (23 21 13 23-0871)		
Note: Plain to threaded, plain to beveled or plain to grooved.		
23 21 13 23-0949 EA 1" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	24.47 4.12	5.32
23 21 13 23-0950 EA 1-1/2" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	28.03 4.23	7.36
23 21 13 23-0951 EA 2" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	31.53 4.23	9.76
23 21 13 23-0952 EA 2-1/2" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	37.59 4.96	11.80
23 21 13 23-0953 EA 3" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	45.82 6.13	14.20
23 21 13 23-0954 EA 4" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	69.40 10.25	18.91
23 21 13 23-0955 EA 6" Plain End Piping System, Adapter Nipple..... <i>For Galvanized Fittings, Add</i>	146.38 27.72	23.69
23 21 13 23-0956 Plain End Piping System, Reducing (Swaged) Nipples (23 21 13 23-0871)		
23 21 13 23-0957 EA 1-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	74.47 13.85	12.69
23 21 13 23-0958 EA 2" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	78.03 13.85	15.09
23 21 13 23-0959 EA 2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	81.62 13.85	17.49
23 21 13 23-0960 EA 2-1/2" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	80.74 13.85	16.95
23 21 13 23-0961 EA 2-1/2" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	84.25 13.85	19.26
23 21 13 23-0962 EA 2-1/2" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	87.79 13.85	21.57
23 21 13 23-0963 EA 3" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	96.70 16.87	19.53
23 21 13 23-0964 EA 3" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	99.86 16.87	21.57
23 21 13 23-0965 EA 3" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	87.84 12.97	23.97
23 21 13 23-0966 EA 3" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	94.72 12.97	28.58
23 21 13 23-0967 EA 3-1/2" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	108.17 15.51	30.80
23 21 13 23-0968 EA 4" x 1" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	131.23 23.72	24.23
23 21 13 23-0969 EA 4" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	134.34 23.72	26.36
23 21 13 23-0970 EA 4" x 2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	114.91 17.96	28.76
23 21 13 23-0971 EA 4" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	117.96 17.96	30.80
23 21 13 23-0972 EA 4" x 3" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	121.58 17.96	33.19
23 21 13 23-0973 EA 4" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple..... <i>For Galvanized Fittings, Add</i>	125.04 17.96	35.51

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-0974 EA 5" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	314.37 66.04	33.46
23 21 13 23-0975 EA 5" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	260.64 50.97	37.81
23 21 13 23-0976 EA 5" x 4" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	231.73 41.95	42.69
23 21 13 23-0977 EA 6" x 1" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	557.45 125.83	36.12
23 21 13 23-0978 EA 6" x 1-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	560.52 125.83	38.16
23 21 13 23-0979 EA 6" x 2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	433.07 93.07	40.56
23 21 13 23-0980 EA 6" x 2-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	436.23 93.07	42.69
23 21 13 23-0981 EA 6" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	308.71 60.32	45.00
23 21 13 23-0982 EA 6" x 3-1/2" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	311.94 60.32	47.13
23 21 13 23-0983 EA 6" x 4" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	257.44 45.75	49.70
23 21 13 23-0984 EA 6" x 5" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	291.38 52.45	54.41
23 21 13 23-0985 EA 8" x 3" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	367.22 72.74	50.86
23 21 13 23-0986 EA 8" x 4" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	374.39 72.74	55.65
23 21 13 23-0987 EA 8" x 5" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	421.58 82.75	60.44
23 21 13 23-0988 EA 8" x 6" Plain End Piping System, Reducing (Swaged) Nipple <i>For Galvanized Fittings, Add</i>	472.36 92.76	67.54
23 21 13 23-0989 Plain End Piping System, Bull Plugs (23 21 13 23-0871)		
23 21 13 23-0990 EA 1" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	368.15 108.05	5.32
23 21 13 23-0991 EA 1-1/2" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	371.26 108.05	7.36
23 21 13 23-0992 EA 2" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	374.76 108.05	9.76
23 21 13 23-0993 EA 2-1/2" Plain End Piping System, Bull Plug <i>For Galvanized Fittings, Add</i>	377.91 108.05	11.80
23 21 13 23-0994 EA 3" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	549.26 158.39	14.20
23 21 13 23-0995 EA 4" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	710.33 204.58	18.91
23 21 13 23-0996 EA 5" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	1,240.63 361.54	23.69
23 21 13 23-0997 EA 6" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	1,653.49 482.21	30.80
23 21 13 23-0998 EA 8" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	3,076.91 906.57	36.65
23 21 13 23-0999 EA 10" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	5,550.04 1,645.72	42.87
23 21 13 23-1000 EA 12" Plain End Piping System, Bull Plug..... <i>For Galvanized Fittings, Add</i>	8,513.28 2,530.82	51.47
23 21 13 23-1001 Carbon Steel Piping Systems (23 21 13 23)		
23 21 13 23-1002 Class 3,000 LB Carbon Steel Socket Weld Fittings (23 21 13 23-1001) Note: ASTM A105		
23 21 13 23-1003 90 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1002)		
23 21 13 23-1004 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	32.78	17.58
23 21 13 23-1005 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	36.84	19.62
23 21 13 23-1006 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	46.52	21.92
23 21 13 23-1007 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	62.68	24.85
23 21 13 23-1008 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	71.59	27.96
23 21 13 23-1009 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	96.81	35.59
23 21 13 23-1010 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	189.27	52.63
23 21 13 23-1011 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	268.57	69.23
23 21 13 23-1012 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	460.91	74.08
23 21 13 23-1013 45 Degree Elbows, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1002)		
23 21 13 23-1014 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	35.64	17.58
23 21 13 23-1015 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	41.16	19.62
23 21 13 23-1016 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	47.85	21.92
23 21 13 23-1017 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	64.36	24.85
23 21 13 23-1018 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	75.62	27.96
23 21 13 23-1019 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	96.72	35.59
23 21 13 23-1020 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	213.93	52.63
23 21 13 23-1021 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	289.44	69.23



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1022 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 3,000 LB	451.88	74.08
23 21 13 23-1023 Straight Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1002)		
23 21 13 23-1024 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB	40.23	21.92
23 21 13 23-1025 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB	48.56	25.29
23 21 13 23-1026 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB	63.63	29.91
23 21 13 23-1027 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB	83.98	35.59
23 21 13 23-1028 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB	101.67	42.43
23 21 13 23-1029 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB	134.10	52.63
23 21 13 23-1030 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB	236.73	69.23
23 21 13 23-1031 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB	322.86	82.19
23 21 13 23-1032 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 3,000 LB	609.15	93.53
23 21 13 23-1033 Reducing Tees, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1002)		
23 21 13 23-1034 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB	41.02	21.92
23 21 13 23-1035 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB	49.37	25.29
23 21 13 23-1036 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB	64.60	29.91
23 21 13 23-1037 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB	86.27	35.59
23 21 13 23-1038 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB	104.35	42.43
23 21 13 23-1039 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB	138.23	52.63
23 21 13 23-1040 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB	246.54	69.23
23 21 13 23-1041 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB	336.97	82.19
23 21 13 23-1042 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 3,000 LB	558.92	93.53
23 21 13 23-1043 Straight Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1002)		
23 21 13 23-1044 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB	29.26	17.58
23 21 13 23-1045 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB	32.95	19.62
23 21 13 23-1046 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB	38.25	21.92
23 21 13 23-1047 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB	44.00	24.85
23 21 13 23-1048 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB	51.08	27.96
23 21 13 23-1049 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB	66.62	35.59
23 21 13 23-1050 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket, Weld, 3,000 LB	112.39	52.63
23 21 13 23-1051 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB	150.01	69.23
23 21 13 23-1052 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 3,000 LB	203.18	74.08
23 21 13 23-1053 Reducing Couplings, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1002)		
23 21 13 23-1054 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB	30.85	17.58
23 21 13 23-1055 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB	34.69	19.62
23 21 13 23-1056 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB	41.04	21.92
23 21 13 23-1057 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB	47.38	24.85
23 21 13 23-1058 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB	56.10	27.96
23 21 13 23-1059 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB	71.98	35.59
23 21 13 23-1060 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB	124.19	52.63
23 21 13 23-1061 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB	173.74	69.23
23 21 13 23-1062 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 3,000 LB	252.52	74.08
23 21 13 23-1063 Caps, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1002)		
23 21 13 23-1064 EA 1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB	17.01	8.25
23 21 13 23-1065 EA 3/4" Cap, Carbon Steel, Socket Weld, 3,000 LB	19.28	8.78
23 21 13 23-1066 EA 1" Cap, Carbon Steel, Socket Weld, 3,000 LB	22.59	10.12
23 21 13 23-1067 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 3,000 LB	26.12	11.01
23 21 13 23-1068 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB	29.67	11.01
23 21 13 23-1069 EA 2" Cap, Carbon Steel, Socket Weld, 3,000 LB	38.47	14.12
23 21 13 23-1070 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 3,000 LB	66.96	17.58
23 21 13 23-1071 EA 3" Cap, Carbon Steel, Socket Weld, 3,000 LB	95.86	21.21
23 21 13 23-1072 EA 4" Cap, Carbon Steel, Socket Weld, 3,000 LB	137.94	25.35
23 21 13 23-1073 Black Cast Iron Square Head Plug (23 21 13 23-1002)		
23 21 13 23-1074 EA 1/2" Square Head Plug, Black, Cast Iron	11.49	7.01
23 21 13 23-1075 EA 3/4" Square Head Plug, Black, Cast Iron	13.00	7.01
23 21 13 23-1076 EA 1" Square Head Plug, Black, Cast Iron	18.73	10.65
23 21 13 23-1077 EA 1-1/4" Square Head Plug, Black, Cast Iron	19.03	10.65
23 21 13 23-1078 EA 1-1/2" Square Head Plug, Black, Cast Iron	20.29	10.65
23 21 13 23-1079 EA 2" Square Head Plug, Black, Cast Iron	26.89	14.12
23 21 13 23-1080 EA 2-1/2" Square Head Plug, Black, Cast Iron	34.54	17.58
23 21 13 23-1081 EA 3" Square Head Plug, Black, Cast Iron	45.03	21.21
23 21 13 23-1082 EA 4" Square Head Plug, Black, Cast Iron	53.59	25.35
23 21 13 23-1083 Unions, 3,000 LB Carbon Steel Socket Weld (23 21 13 23-1002)		
23 21 13 23-1084 EA 1/2" Union, Carbon Steel, Socket Weld, 3,000 LB	49.46	21.92
23 21 13 23-1085 EA 3/4" Union, Carbon Steel, Socket Weld, 3,000 LB	54.95	25.29
23 21 13 23-1086 EA 1" Union, Carbon Steel, Socket Weld, 3,000 LB	69.70	29.91
23 21 13 23-1087 EA 1-1/4" Union, Carbon Steel, Socket Weld, 3,000 LB	87.64	35.59

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1088 EA 1-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB	105.53	42.43
23 21 13 23-1089 EA 2" Union, Carbon Steel, Socket Weld, 3,000 LB	131.85	52.63
23 21 13 23-1090 EA 2-1/2" Union, Carbon Steel, Socket Weld, 3,000 LB	221.35	57.16
23 21 13 23-1091 EA 3" Union, Carbon Steel, Socket Weld, 3,000 LB	296.01	69.23
23 21 13 23-1092 Class 6,000 LB Carbon Steel Socket Weld Fittings <small>(23 21 13 23-1001)</small>		
Note: ASTM A 105		
23 21 13 23-1093 90 Degree Elbow, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1092)</small>		
23 21 13 23-1094 EA 1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	36.22	17.58
23 21 13 23-1095 EA 3/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	40.78	19.62
23 21 13 23-1096 EA 1" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	53.78	21.92
23 21 13 23-1097 EA 1-1/4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	78.20	24.85
23 21 13 23-1098 EA 1-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	87.32	27.96
23 21 13 23-1099 EA 2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	119.91	35.59
23 21 13 23-1100 EA 2-1/2" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	247.89	52.63
23 21 13 23-1101 EA 3" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	356.08	69.23
23 21 13 23-1102 EA 4" 90 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	646.73	74.08
23 21 13 23-1103 45 Degree Elbow, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1092)</small>		
23 21 13 23-1104 EA 1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	40.92	17.58
23 21 13 23-1105 EA 3/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	47.80	19.62
23 21 13 23-1106 EA 1" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	56.33	21.92
23 21 13 23-1107 EA 1-1/4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	79.72	24.85
23 21 13 23-1108 EA 1-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	94.67	27.96
23 21 13 23-1109 EA 2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	121.31	35.59
23 21 13 23-1110 EA 2-1/2" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	290.39	52.63
23 21 13 23-1111 EA 3" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	394.54	69.23
23 21 13 23-1112 EA 4" 45 Degree Elbow, Carbon Steel, Socket Weld, 6,000 LB	644.87	74.08
23 21 13 23-1113 Straight Tees, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1092)</small>		
23 21 13 23-1114 EA 1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB	47.05	21.92
23 21 13 23-1115 EA 3/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB	58.41	25.29
23 21 13 23-1116 EA 1" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB	81.06	29.91
23 21 13 23-1117 EA 1-1/4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB	112.39	35.59
23 21 13 23-1118 EA 1-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB	136.89	42.43
23 21 13 23-1119 EA 2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB	185.24	52.63
23 21 13 23-1120 EA 2-1/2" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB	358.85	69.23
23 21 13 23-1121 EA 3" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB	507.72	82.19
23 21 13 23-1122 EA 4" Tee, Straight, Carbon Steel, Socket Weld, 6,000 LB	1,043.45	93.53
23 21 13 23-1123 Reducing Tees, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1092)</small>		
23 21 13 23-1124 EA 1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB	41.02	21.92
23 21 13 23-1125 EA 3/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB	49.37	25.29
23 21 13 23-1126 EA 1" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB	64.60	29.91
23 21 13 23-1127 EA 1-1/4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB	86.27	35.59
23 21 13 23-1128 EA 1-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB	104.35	42.43
23 21 13 23-1129 EA 2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB	138.23	52.63
23 21 13 23-1130 EA 2-1/2" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB	246.54	69.23
23 21 13 23-1131 EA 3" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB	336.97	82.19
23 21 13 23-1132 EA 4" Tee, Reducing, Carbon Steel, Socket Weld, 6,000 LB	558.92	93.53
23 21 13 23-1133 Straight Couplings, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1092)</small>		
23 21 13 23-1134 EA 1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB	30.69	17.58
23 21 13 23-1135 EA 3/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB	34.64	19.62
23 21 13 23-1136 EA 1" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB	40.84	21.92
23 21 13 23-1137 EA 1-1/4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB	47.27	24.85
23 21 13 23-1138 EA 1-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB	55.49	27.96
23 21 13 23-1139 EA 2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB	73.06	35.59
23 21 13 23-1140 EA 2-1/2" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB	128.59	52.63
23 21 13 23-1141 EA 3" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB	172.35	69.23
23 21 13 23-1142 EA 4" Coupling, Straight, Carbon Steel, Socket Weld, 6,000 LB	247.75	74.08
23 21 13 23-1143 Reducing Couplings, 6,000 LB Carbon Steel Socket Weld <small>(23 21 13 23-1092)</small>		
23 21 13 23-1144 EA 1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB	33.04	17.58
23 21 13 23-1145 EA 3/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB	37.22	19.62
23 21 13 23-1146 EA 1" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB	44.97	21.92
23 21 13 23-1147 EA 1-1/4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB	52.25	24.85
23 21 13 23-1148 EA 1-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB	62.88	27.96
23 21 13 23-1149 EA 2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB	80.95	35.59
23 21 13 23-1150 EA 2-1/2" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB	145.93	52.63
23 21 13 23-1151 EA 3" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB	207.31	69.23
23 21 13 23-1152 EA 4" Coupling, Reducing, Carbon Steel, Socket Weld, 6,000 LB	320.44	74.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1153 Caps, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1092)		
23 21 13 23-1154 EA 1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	20.15	8.25
23 21 13 23-1155 EA 3/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	23.39	8.78
23 21 13 23-1156 EA 1" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	27.57	10.12
23 21 13 23-1157 EA 1-1/4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	32.62	11.01
23 21 13 23-1158 EA 1-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	38.55	11.01
23 21 13 23-1159 EA 2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	50.06	14.12
23 21 13 23-1160 EA 2-1/2" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	94.24	17.58
23 21 13 23-1161 EA 3" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	138.85	21.21
23 21 13 23-1162 EA 4" Cap, Carbon Steel, Socket Weld, 6,000 LB.....	204.97	25.35
23 21 13 23-1163 Black Cast Iron Square Head Plug (23 21 13 23-1092)		
23 21 13 23-1164 EA 1/2" Square Head Plug, Black Cast Iron.....	11.49	7.01
23 21 13 23-1165 EA 3/4" Square Head Plug, Black Cast Iron.....	13.02	7.01
23 21 13 23-1166 EA 1" Square Head Plug, Black Cast Iron.....	18.74	10.65
23 21 13 23-1167 EA 1-1/4" Square Head Plug, Black Cast Iron.....	19.05	10.65
23 21 13 23-1168 EA 1-1/2" Square Head Plug, Black Cast Iron.....	20.31	10.65
23 21 13 23-1169 EA 2" Square Head Plug, Black Cast Iron.....	26.92	14.12
23 21 13 23-1170 EA 2-1/2" Square Head Plug, Black Cast Iron.....	34.58	17.58
23 21 13 23-1171 EA 3" Square Head Plug, Black Cast Iron.....	45.10	21.21
23 21 13 23-1172 EA 4" Square Head Plug, Black Cast Iron.....	53.67	25.35
23 21 13 23-1173 Unions, 6,000 LB Carbon Steel Socket Weld (23 21 13 23-1092)		
23 21 13 23-1174 EA 1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	59.60	21.92
23 21 13 23-1175 EA 3/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	65.36	25.29
23 21 13 23-1176 EA 1" Union, Carbon Steel, Socket Weld, 6,000 LB.....	84.91	29.91
23 21 13 23-1177 EA 1-1/4" Union, Carbon Steel, Socket Weld, 6,000 LB.....	108.63	35.59
23 21 13 23-1178 EA 1-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	131.16	42.43
23 21 13 23-1179 EA 2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	164.23	52.63
23 21 13 23-1180 EA 2-1/2" Union, Carbon Steel, Socket Weld, 6,000 LB.....	304.27	57.16
23 21 13 23-1181 EA 3" Union, Carbon Steel, Socket Weld, 6,000 LB.....	413.53	69.23
23 21 13 23-1182 Carbon Steel, Seamless Piping System (23 21 13 23-1001)		
Note: ASTM A106 Excludes hangers or fittings. Demolition Note applies to all pipe demolition.		
23 21 13 23-1183 Schedule 40, Carbon Steel, Seamless Piping (23 21 13 23-1182)		
Note: ASTM A106 Excludes hangers, elbow, tee, or reducer fittings.		
23 21 13 23-1184 LF 1/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	6.83	3.28
For Schedule 80, Add	0.68	
23 21 13 23-1185 LF 1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	7.12	3.55
For Schedule 80, Add	0.63	
For Schedule 160, Add	2.61	
23 21 13 23-1186 LF 3/4" ASTM A106 Carbon Steel Pipe, Schedule 40.....	7.85	3.81
For Schedule 80, Add	0.77	
For Schedule 160, Add	3.20	
23 21 13 23-1187 LF 1" ASTM A106 Carbon Steel Pipe, Schedule 40.....	8.41	4.18
For Schedule 80, Add	0.79	
For Schedule 160, Add	3.30	
23 21 13 23-1188 LF 1-1/2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	10.96	5.15
For Schedule 80, Add	1.17	
For Schedule 160, Add	4.86	
23 21 13 23-1189 LF 2" ASTM A106 Carbon Steel Pipe, Schedule 40.....	13.61	6.22
For Schedule 80, Add	1.53	
For Schedule 160, Add	6.39	
23 21 13 23-1190 90 Degree Elbows, Screwed Carbon Steel (23 21 13 23-1182)		
23 21 13 23-1191 EA 1/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	24.31	13.49
23 21 13 23-1192 EA 1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	29.27	15.80
23 21 13 23-1193 EA 3/4" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	32.71	17.66
23 21 13 23-1194 EA 1" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	37.43	19.70
23 21 13 23-1195 EA 1-1/2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	58.02	25.20
23 21 13 23-1196 EA 2" 90 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	73.53	32.05
23 21 13 23-1197 EA 1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	25.61	13.49
23 21 13 23-1198 EA 1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	29.76	15.80
23 21 13 23-1199 EA 3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	34.32	17.66
23 21 13 23-1200 EA 1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	40.93	19.70
23 21 13 23-1201 EA 1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	66.38	25.20
23 21 13 23-1202 EA 2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	82.77	32.05
23 21 13 23-1203 EA 1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	34.31	15.80
23 21 13 23-1204 EA 3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	40.05	17.66
23 21 13 23-1205 EA 1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	46.96	19.70
23 21 13 23-1206 EA 1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	83.30	25.20
23 21 13 23-1207 EA 2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	127.64	32.05
23 21 13 23-1208 45 Degree Elbows, Screwed Carbon Steel (23 21 13 23-1182)		
23 21 13 23-1209 EA 1/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel.....	27.07	13.49

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

23 21 13 23-1210	EA	1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	30.32	15.80
23 21 13 23-1211	EA	3/4" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	34.07	17.66
23 21 13 23-1212	EA	1" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	38.46	19.70
23 21 13 23-1213	EA	1-1/2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	54.68	25.20
23 21 13 23-1214	EA	2" 45 Degree Elbow, 2,000 LB, Screwed Carbon Steel	78.68	32.05
23 21 13 23-1215	EA	1/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	27.28	13.49
23 21 13 23-1216	EA	1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	31.51	15.80
23 21 13 23-1217	EA	3/4" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	35.45	17.66
23 21 13 23-1218	EA	1" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	42.04	19.70
23 21 13 23-1219	EA	1-1/2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	65.09	25.20
23 21 13 23-1220	EA	2" 45 Degree Elbow, 3,000 LB, Screwed Carbon Steel	85.65	32.05
23 21 13 23-1221	EA	1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	37.45	15.80
23 21 13 23-1222	EA	3/4" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	45.73	17.66
23 21 13 23-1223	EA	1" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	49.09	19.70
23 21 13 23-1224	EA	1-1/2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	95.37	25.20
23 21 13 23-1225	EA	2" 45 Degree Elbow, 6,000 LB, Screwed Carbon Steel	128.44	32.05

23 21 13 23-1226 Straight Tees, Screwed Carbon Steel (23 21 13 23-1182)

23 21 13 23-1227	EA	1/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel	32.38	18.72
23 21 13 23-1228	EA	1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	36.85	19.70
23 21 13 23-1229	EA	3/4" Tee, Straight, 2,000 LB, Screwed Carbon Steel	44.05	22.81
23 21 13 23-1230	EA	1" Tee, Straight, 2,000 LB, Screwed Carbon Steel	53.90	26.89
23 21 13 23-1231	EA	1-1/2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	85.75	38.16
23 21 13 23-1232	EA	2" Tee, Straight, 2,000 LB, Screwed Carbon Steel	106.32	47.40
23 21 13 23-1233	EA	1/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel	33.50	18.72
23 21 13 23-1234	EA	1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	37.58	19.70
23 21 13 23-1235	EA	3/4" Tee, Straight, 3,000 LB, Screwed Carbon Steel	46.47	22.81
23 21 13 23-1236	EA	1" Tee, Straight, 3,000 LB, Screwed Carbon Steel	55.97	26.89
23 21 13 23-1237	EA	1-1/2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	92.93	38.16
23 21 13 23-1238	EA	2" Tee, Straight, 3,000 LB, Screwed Carbon Steel	118.19	47.40
23 21 13 23-1239	EA	1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	43.04	19.70
23 21 13 23-1240	EA	3/4" Tee, Straight, 6,000 LB, Screwed Carbon Steel	52.34	22.81
23 21 13 23-1241	EA	1" Tee, Straight, 6,000 LB, Screwed Carbon Steel	70.47	26.89
23 21 13 23-1242	EA	1-1/2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	109.41	38.16
23 21 13 23-1243	EA	2" Tee, Straight, 6,000 LB, Screwed Carbon Steel	170.73	47.40

23 21 13 23-1244 Crosses, Screwed Carbon Steel (23 21 13 23-1182)

23 21 13 23-1245	EA	1/4" Cross, 2,000 LB, Screwed Carbon Steel	48.19	23.69
23 21 13 23-1246	EA	1/2" Cross, 2,000 LB, Screwed Carbon Steel	56.79	26.62
23 21 13 23-1247	EA	3/4" Cross, 2,000 LB, Screwed Carbon Steel	61.00	28.40
23 21 13 23-1248	EA	1" Cross, 2,000 LB, Screwed Carbon Steel	75.36	34.26
23 21 13 23-1249	EA	1-1/2" Cross, 2,000 LB, Screwed Carbon Steel	129.63	47.93
23 21 13 23-1250	EA	2" Cross, 2,000 LB, Screwed Carbon Steel	167.01	59.20
23 21 13 23-1251	EA	1/2" Cross, 3,000 LB, Screwed Carbon Steel	58.16	26.62
23 21 13 23-1252	EA	3/4" Cross, 3,000 LB, Screwed Carbon Steel	68.85	28.40
23 21 13 23-1253	EA	1" Cross, 3,000 LB, Screwed Carbon Steel	82.23	34.26
23 21 13 23-1254	EA	1-1/2" Cross, 3,000 LB, Screwed Carbon Steel	139.53	47.93
23 21 13 23-1255	EA	2" Cross, 3,000 LB, Screwed Carbon Steel	185.09	59.20
23 21 13 23-1256	EA	1/2" Cross, 6,000 LB, Screwed Carbon Steel	83.72	26.62
23 21 13 23-1257	EA	3/4" Cross, 6,000 LB, Screwed Carbon Steel	138.61	28.40
23 21 13 23-1258	EA	1" Cross, 6,000 LB, Screwed Carbon Steel	189.72	34.26
23 21 13 23-1259	EA	1-1/2" Cross, 6,000 LB, Screwed Carbon Steel	299.37	47.93
23 21 13 23-1260	EA	2" Cross, 6,000 LB, Screwed Carbon Steel	328.81	59.20

23 21 13 23-1261 Straight Couplings, Screwed Carbon Steel (23 21 13 23-1182)

23 21 13 23-1262	EA	1/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	22.68	13.49
23 21 13 23-1263	EA	1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	25.93	15.80
23 21 13 23-1264	EA	3/4" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	29.61	17.66
23 21 13 23-1265	EA	1" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	34.29	19.70
23 21 13 23-1266	EA	1-1/2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	49.59	25.20
23 21 13 23-1267	EA	2" Coupling, Straight, 3,000 LB, Screwed Carbon Steel	62.93	32.05
23 21 13 23-1268	EA	1/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	25.95	13.49
23 21 13 23-1269	EA	1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	28.00	15.80
23 21 13 23-1270	EA	3/4" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	31.20	17.66
23 21 13 23-1271	EA	1" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	36.41	19.70
23 21 13 23-1272	EA	1-1/2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	52.83	25.20
23 21 13 23-1273	EA	2" Coupling, Straight, 6,000 LB, Screwed Carbon Steel	74.77	32.05

23 21 13 23-1274 Reducing Couplings, Screwed Carbon Steel (23 21 13 23-1182)

23 21 13 23-1275	EA	1/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	23.13	14.38
23 21 13 23-1276	EA	1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	27.00	15.80
23 21 13 23-1277	EA	3/4" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	31.25	17.66
23 21 13 23-1278	EA	1" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	36.56	19.70
23 21 13 23-1279	EA	1-1/2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	50.18	25.20
23 21 13 23-1280	EA	2" Coupling, Reducing, 3,000 LB, Screwed Carbon Steel	66.12	32.05
23 21 13 23-1281	EA	1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	68.95	15.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1282 EA 3/4" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	71.78	17.66
23 21 13 23-1283 EA 1" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	83.80	19.70
23 21 13 23-1284 EA 1-1/2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	120.05	25.20
23 21 13 23-1285 EA 2" Coupling, Reducing, 6,000 LB, Screwed Carbon Steel	171.88	32.05
23 21 13 23-1286 Caps, Screwed Carbon Steel <small>(23 21 13 23-1182)</small>		
23 21 13 23-1287 EA 1/4" Cap, 3,000 LB, Screwed Carbon Steel	6.86	3.28
23 21 13 23-1288 EA 1/2" Cap, 3,000 LB, Screwed Carbon Steel	7.63	3.73
23 21 13 23-1289 EA 3/4" Cap, 3,000 LB, Screwed Carbon Steel	9.27	4.26
23 21 13 23-1290 EA 1" Cap, 3,000 LB, Screwed Carbon Steel	11.88	4.97
23 21 13 23-1291 EA 1-1/2" Cap, 3,000 LB, Screwed Carbon Steel	16.04	5.95
23 21 13 23-1292 EA 2" Cap, 3,000 LB, Screwed Carbon Steel	22.25	7.36
23 21 13 23-1293 EA 1/4" Cap, 6,000 LB, Screwed Carbon Steel	10.79	3.28
23 21 13 23-1294 EA 1/2" Cap, 6,000 LB, Screwed Carbon Steel	10.15	3.73
23 21 13 23-1295 EA 3/4" Cap, 6,000 LB, Screwed Carbon Steel	13.37	4.26
23 21 13 23-1296 EA 1" Cap, 6,000 LB, Screwed Carbon Steel	14.87	4.97
23 21 13 23-1297 EA 1-1/2" Cap, 6,000 LB, Screwed Carbon Steel	28.25	5.95
23 21 13 23-1298 EA 2" Cap, 6,000 LB, Screwed Carbon Steel	34.15	7.36
23 21 13 23-1299 Nipples, Screwed Carbon Steel <small>(23 21 13 23-1182)</small>		
23 21 13 23-1300 EA 1/4" Nipple, 2" Long, Screwed Carbon Steel	13.92	8.08
23 21 13 23-1301 EA 1/2" Nipple, 2" Long, Screwed Carbon Steel	14.17	8.43
23 21 13 23-1302 EA 3/4" Nipple, 2" Long, Screwed Carbon Steel	14.07	8.43
23 21 13 23-1303 EA 1" Nipple, 2" Long, Screwed Carbon Steel	15.64	9.15
23 21 13 23-1304 EA 1-1/2" Nipple, 2" Long, Screwed Carbon Steel	17.79	9.85
23 21 13 23-1305 EA 2" Nipple, 2" Long, Screwed Carbon Steel	21.35	12.69
23 21 13 23-1306 EA 1/4" Nipple, 4" Long, Screwed Carbon Steel	14.67	8.08
23 21 13 23-1307 EA 1/2" Nipple, 4" Long, Screwed Carbon Steel	14.77	8.43
23 21 13 23-1308 EA 3/4" Nipple, 4" Long, Screwed Carbon Steel	14.75	8.43
23 21 13 23-1309 EA 1" Nipple, 4" Long, Screwed Carbon Steel	16.55	9.15
23 21 13 23-1310 EA 1-1/2" Nipple, 4" Long, Screwed Carbon Steel	19.41	9.85
23 21 13 23-1311 EA 2" Nipple, 4" Long, Screwed Carbon Steel	23.72	12.69
23 21 13 23-1312 EA 1/4" Nipple, 6" Long, Screwed Carbon Steel	16.46	8.08
23 21 13 23-1313 EA 1/2" Nipple, 6" Long, Screwed Carbon Steel	15.71	8.43
23 21 13 23-1314 EA 3/4" Nipple, 6" Long, Screwed Carbon Steel	15.80	8.43
23 21 13 23-1315 EA 1" Nipple, 6" Long, Screwed Carbon Steel	17.85	9.15
23 21 13 23-1316 EA 1-1/2" Nipple, 6" Long, Screwed Carbon Steel	21.63	9.85
23 21 13 23-1317 EA 2" Nipple, 6" Long, Screwed Carbon Steel	25.68	12.69
23 21 13 23-1318 Unions, Screwed Carbon Steel <small>(23 21 13 23-1182)</small>		
23 21 13 23-1319 EA 1/4" Union, 3,000 LB, Screwed Carbon Steel	29.29	19.62
23 21 13 23-1320 EA 1/2" Union, 3,000 LB, Screwed Carbon Steel	30.87	19.70
23 21 13 23-1321 EA 3/4" Union, 3,000 LB, Screwed Carbon Steel	35.46	22.81
23 21 13 23-1322 EA 1" Union, 3,000 LB, Screwed Carbon Steel	42.28	26.89
23 21 13 23-1323 EA 1-1/2" Union, 3,000 LB, Screwed Carbon Steel	60.50	38.16
23 21 13 23-1324 EA 2" Union, 3,000 LB, Screwed Carbon Steel	75.10	47.40
23 21 13 23-1325 EA 1/4" Union, 6,000 LB, Screwed Carbon Steel	46.69	19.62
23 21 13 23-1326 EA 1/2" Union, 6,000 LB, Screwed Carbon Steel	51.91	19.70
23 21 13 23-1327 EA 3/4" Union, 6,000 LB, Screwed Carbon Steel	60.93	22.81
23 21 13 23-1328 EA 1" Union, 6,000 LB, Screwed Carbon Steel	73.67	26.89
23 21 13 23-1329 EA 1-1/2" Union, 6,000 LB, Screwed Carbon Steel	124.69	38.16
23 21 13 23-1330 EA 2" Union, 6,000 LB, Screwed Carbon Steel	154.10	47.40
23 21 13 23-1331 Weld Neck Flanges, Screwed Carbon Steel <small>(23 21 13 23-1182)</small>		
23 21 13 23-1332 EA 1/2" Flange, 150 LB, Screwed Carbon Steel	64.25	36.65
23 21 13 23-1333 EA 3/4" Flange, 150 LB, Screwed Carbon Steel	67.21	38.43
23 21 13 23-1334 EA 1" Flange, 150 LB, Screwed Carbon Steel	69.72	40.11
23 21 13 23-1335 EA 1-1/2" Flange, 150 LB, Screwed Carbon Steel	77.63	45.18
23 21 13 23-1336 EA 2" Flange, 150 LB, Screwed Carbon Steel	80.59	47.13
23 21 13 23-1337 EA 1/2" Flange, 300 LB, Screwed Carbon Steel	64.84	36.65
For Ring Type Joint, Add	9.84	
For Blind Flange, Deduct	-23.97	
23 21 13 23-1338 EA 3/4" Flange, 300 LB, Screwed Carbon Steel	67.83	38.43
For Ring Type Joint, Add	10.17	
For Blind Flange, Deduct	-25.10	
23 21 13 23-1339 EA 1" Flange, 300 LB, Screwed Carbon Steel	70.66	40.11
For Ring Type Joint, Add	10.49	
For Blind Flange, Deduct	-26.17	
23 21 13 23-1340 EA 1-1/2" Flange, 300 LB, Screwed Carbon Steel	79.89	45.18
For Ring Type Joint, Add	12.14	
For Blind Flange, Deduct	-29.53	
23 21 13 23-1341 EA 2" Flange, 300 LB, Screwed Carbon Steel	82.85	47.13
For Ring Type Joint, Add	12.14	
For Blind Flange, Deduct	-30.71	
23 21 13 23-1342 EA 1/2" Flange, 600 LB, Screwed Carbon Steel	68.71	36.65
For Ring Type Joint, Add	13.71	
For Blind Flange, Deduct	-24.74	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1343	EA	3/4" Flange, 600 LB, Screwed Carbon Steel.....	71.37	38.43
		<i>For Ring Type Joint, Add</i>	13.71	
		<i>For Blind Flange, Deduct</i>	-25.81	
23 21 13 23-1344	EA	1" Flange, 600 LB, Screwed Carbon Steel.....	74.51	40.11
		<i>For Ring Type Joint, Add</i>	14.34	
		<i>For Blind Flange, Deduct</i>	-26.94	
23 21 13 23-1345	EA	1-1/2" Flange, 600 LB, Screwed Carbon Steel.....	84.65	45.18
		<i>For Ring Type Joint, Add</i>	16.90	
		<i>For Blind Flange, Deduct</i>	-30.48	
23 21 13 23-1346	EA	2" Flange, 600 LB, Screwed Carbon Steel.....	86.44	47.13
		<i>For Ring Type Joint, Add</i>	15.73	
		<i>For Blind Flange, Deduct</i>	-31.43	
23 21 13 23-1347		Square Head Plugs, Screwed Carbon Steel (23 21 13 23-1182)		
23 21 13 23-1348	EA	1/4" Square Head Plug, Screwed Carbon Steel.....	4.59	2.49
23 21 13 23-1349	EA	1/2" Square Head Plug, Screwed Carbon Steel.....	5.49	2.93
23 21 13 23-1350	EA	3/4" Square Head Plug, Screwed Carbon Steel.....	6.36	3.37
23 21 13 23-1351	EA	1" Square Head Plug, Screwed Carbon Steel.....	9.27	4.97
23 21 13 23-1352	EA	1-1/2" Square Head Plug, Screwed Carbon Steel.....	11.55	4.97
23 21 13 23-1353	EA	2" Square Head Plug, Screwed Carbon Steel.....	16.57	6.48
23 21 13 23-1354		Hex Head Plugs, Screwed Carbon Steel (23 21 13 23-1182)		
23 21 13 23-1355	EA	1/4" Hex Head Plug, Screwed Carbon Steel.....	4.36	2.49
23 21 13 23-1356	EA	1/2" Hex Head Plug, Screwed Carbon Steel.....	5.28	2.93
23 21 13 23-1357	EA	3/4" Hex Head Plug, Screwed Carbon Steel.....	6.22	3.37
23 21 13 23-1358	EA	1" Hex Head Plug, Screwed Carbon Steel.....	9.15	4.97
23 21 13 23-1359	EA	1-1/2" Hex Head Plug, Screwed Carbon Steel.....	11.05	4.97
23 21 13 23-1360	EA	2" Hex Head Plug, Screwed Carbon Steel.....	16.92	6.48
23 21 13 23-1361		Round Head Plugs, Screwed Carbon Steel (23 21 13 23-1182)		
23 21 13 23-1362	EA	1/4" Round Head Plug, Screwed Carbon Steel.....	5.10	2.49
23 21 13 23-1363	EA	1/2" Round Head Plug, Screwed Carbon Steel.....	5.52	2.93
23 21 13 23-1364	EA	3/4" Round Head Plug, Screwed Carbon Steel.....	6.26	3.37
23 21 13 23-1365	EA	1" Round Head Plug, Screwed Carbon Steel.....	9.35	4.97
23 21 13 23-1366	EA	1-1/2" Round Head Plug, Screwed Carbon Steel.....	12.18	4.97
23 21 13 23-1367	EA	2" Round Head Plug, Screwed Carbon Steel.....	16.79	6.48
23 21 13 23-1368		Hexagon Bushings, Screwed Carbon Steel (23 21 13 23-1182)		
23 21 13 23-1369	EA	1/4" Hex Bushing, Screwed Carbon Steel.....	4.53	2.49
23 21 13 23-1370	EA	1/2" Hex Bushing, Screwed Carbon Steel.....	5.27	2.93
23 21 13 23-1371	EA	3/4" Hex Bushing, Screwed Carbon Steel.....	6.16	3.37
23 21 13 23-1372	EA	1" Hex Bushing, Screwed Carbon Steel.....	9.31	4.97
23 21 13 23-1373	EA	1-1/2" Hex Bushing, Screwed Carbon Steel.....	11.01	4.97
23 21 13 23-1374	EA	2" Hex Bushing, Screwed Carbon Steel.....	16.40	6.48
23 21 13 23-1375		90 Degree Street Elbows, Screwed Carbon Steel (23 21 13 23-1182)		
23 21 13 23-1376	EA	1/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	28.47	13.49
23 21 13 23-1377	EA	1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	32.53	15.80
23 21 13 23-1378	EA	3/4" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	37.90	17.66
23 21 13 23-1379	EA	1" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	44.19	19.70
23 21 13 23-1380	EA	1-1/2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	69.01	25.20
23 21 13 23-1381	EA	2" 90 Degree Elbow, 3,000 LB, Screwed Carbon Steel.....	92.58	32.05
23 21 13 23-1382	EA	1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	44.42	15.80
23 21 13 23-1383	EA	3/4" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	62.08	17.66
23 21 13 23-1384	EA	1" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	84.64	19.70
23 21 13 23-1385	EA	1-1/2" 90 Degree Elbow, 6,000 LB, Screwed Carbon Steel.....	180.29	25.20
23 21 13 23-1386		Screwed Carbon Steel Laterals (23 21 13 23-1182)		
23 21 13 23-1387	EA	1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	111.49	19.70
23 21 13 23-1388	EA	3/4" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	133.84	22.81
23 21 13 23-1389	EA	1" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	163.55	26.89
23 21 13 23-1390	EA	1-1/2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	211.09	38.16
23 21 13 23-1391	EA	2" Lateral, Straight, 3,000 LB, Screwed Carbon Steel.....	263.30	47.40
23 21 13 23-1392	EA	1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	139.26	19.70
23 21 13 23-1393	EA	3/4" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	175.15	22.81
23 21 13 23-1394	EA	1" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	207.72	26.89
23 21 13 23-1395	EA	1-1/2" Lateral, Straight, 6,000 LB, Screwed Carbon Steel.....	292.29	38.16
23 21 13 23-1396		Grooved-Joint Pipe (23 21 13 23)		
		Note: Includes grooving of pipe. Excludes hangers, elbow, tee, reducer fitting or couplings.		
23 21 13 23-1397		Schedule 10 Black Grooved Pipe (23 21 13 23-1396)		
23 21 13 23-1398	LF	2" Black Schedule 10 Grooved Pipe.....	24.05	11.27
23 21 13 23-1399	LF	2-1/2" Black Schedule 10 Grooved Pipe.....	32.50	15.44



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1400 LF 3" Black Schedule 10 Grooved Pipe	36.46	17.13
23 21 13 23-1401 LF 3-1/2" Black Schedule 10 Grooved Pipe	40.45	17.75
23 21 13 23-1402 LF 4" Black Schedule 10 Grooved Pipe	43.01	19.26
23 21 13 23-1403 LF 5" Black Schedule 10 Grooved Pipe	60.21	23.61
23 21 13 23-1404 LF 6" Black Schedule 10 Grooved Pipe	78.08	33.55
23 21 13 23-1405 LF 8" Black Schedule 10 Grooved Pipe	105.50	37.63
23 21 13 23-1406 LF 10" Black Schedule 10 Grooved Pipe	132.01	45.36
23 21 13 23-1407 LF 12" Black Schedule 10 Grooved Pipe	152.16	51.39
23 21 13 23-1408 Schedule 40 Black Grooved Pipe (23 21 13 23-1396)		
23 21 13 23-1409 LF 3/4" Black Schedule 40 Grooved Pipe	14.43	6.83
23 21 13 23-1410 LF 1" Black Schedule 40 Grooved Pipe	16.30	7.72
23 21 13 23-1411 LF 1-1/4" Black Schedule 40 Grooved Pipe	18.49	8.34
23 21 13 23-1412 LF 1-1/2" Black Schedule 40 Grooved Pipe	21.03	9.50
23 21 13 23-1413 LF 2" Black Schedule 40 Grooved Pipe	26.53	12.07
23 21 13 23-1414 LF 2-1/2" Black Schedule 40 Grooved Pipe	36.89	16.51
23 21 13 23-1415 LF 3" Black Schedule 40 Grooved Pipe	43.45	18.81
23 21 13 23-1416 LF 4" Black Schedule 40 Grooved Pipe	53.00	20.95
23 21 13 23-1417 LF 5" Black Schedule 40 Grooved Pipe	72.48	25.48
23 21 13 23-1418 LF 6" Black Schedule 40 Grooved Pipe	97.87	36.74
23 21 13 23-1419 LF 8" Black Schedule 40 Grooved Pipe	128.91	41.62
23 21 13 23-1420 LF 10" Black Schedule 40 Grooved Pipe	176.59	49.70
23 21 13 23-1421 LF 12" Black Schedule 40 Grooved Pipe	207.80	57.07
23 21 13 23-1422 LF 14" Black Schedule 40 Grooved Pipe	274.54	77.13
23 21 13 23-1423 LF 16" Black Schedule 40 Grooved Pipe	318.67	90.71
23 21 13 23-1424 LF 18" Black Schedule 40 Grooved Pipe	395.27	110.15
23 21 13 23-1425 LF 20" Black Schedule 40 Grooved Pipe	456.00	128.43
23 21 13 23-1426 LF 24" Black Schedule 40 Grooved Pipe	594.19	154.17
23 21 13 23-1427 Schedule 80 Black Grooved Pipe (23 21 13 23-1396)		
23 21 13 23-1428 LF 3/4" Black Schedule 80 Grooved Pipe	15.82	7.46
23 21 13 23-1429 LF 1" Black Schedule 80 Grooved Pipe	17.51	7.90
23 21 13 23-1430 LF 1-1/4" Black Schedule 80 Grooved Pipe	20.48	8.78
23 21 13 23-1431 LF 1-1/2" Black Schedule 80 Grooved Pipe	23.30	9.85
23 21 13 23-1432 LF 2" Black Schedule 80 Grooved Pipe	30.15	12.69
23 21 13 23-1433 LF 2-1/2" Black Schedule 80 Grooved Pipe	42.38	17.49
23 21 13 23-1434 LF 3" Black Schedule 80 Grooved Pipe	50.37	19.62
23 21 13 23-1435 LF 4" Black Schedule 80 Grooved Pipe	62.83	21.39
23 21 13 23-1436 LF 5" Black Schedule 80 Grooved Pipe	95.12	26.89
23 21 13 23-1437 LF 6" Black Schedule 80 Grooved Pipe	124.33	38.52
23 21 13 23-1438 LF 8" Black Schedule 80 Grooved Pipe	184.11	44.02
23 21 13 23-1439 LF 10" Black Schedule 80 Grooved Pipe	228.91	53.16
23 21 13 23-1440 LF 12" Black Schedule 80 Grooved Pipe	242.29	64.26
23 21 13 23-1441 Schedule 40 Galvanized Grooved Pipe (23 21 13 23-1396)		
23 21 13 23-1442 LF 3/4" Galvanized Schedule 40 Grooved Pipe	14.89	6.83
23 21 13 23-1443 LF 1" Galvanized Schedule 40 Grooved Pipe	17.24	7.72
23 21 13 23-1444 LF 1-1/4" Galvanized Schedule 40 Grooved Pipe	19.20	8.34
23 21 13 23-1445 LF 1-1/2" Galvanized Schedule 40 Grooved Pipe	21.85	9.50
23 21 13 23-1446 LF 2" Galvanized Schedule 40 Grooved Pipe	27.64	12.07
23 21 13 23-1447 LF 2-1/2" Galvanized Schedule 40 Grooved Pipe	38.66	16.51
23 21 13 23-1448 LF 3" Galvanized Schedule 40 Grooved Pipe	45.82	18.81
23 21 13 23-1449 LF 4" Galvanized Schedule 40 Grooved Pipe	56.35	20.95
23 21 13 23-1450 LF 5" Galvanized Schedule 40 Grooved Pipe	78.79	25.48
23 21 13 23-1451 LF 6" Galvanized Schedule 40 Grooved Pipe	106.49	36.74
23 21 13 23-1452 LF 8" Galvanized Schedule 40 Grooved Pipe	140.77	41.62
23 21 13 23-1453 LF 10" Galvanized Schedule 40 Grooved Pipe	197.60	49.70
23 21 13 23-1454 LF 12" Galvanized Schedule 40 Grooved Pipe	233.25	57.07
23 21 13 23-1455 Schedule 80 Galvanized Grooved Pipe (23 21 13 23-1396)		
23 21 13 23-1456 LF 3/4" Galvanized Schedule 80 Grooved Pipe	16.01	7.46
23 21 13 23-1457 LF 1" Galvanized Schedule 80 Grooved Pipe	20.70	7.90
23 21 13 23-1458 LF 1-1/4" Galvanized Schedule 80 Grooved Pipe	20.99	8.78
23 21 13 23-1459 LF 1-1/2" Galvanized Schedule 80 Grooved Pipe	27.37	10.47
23 21 13 23-1460 LF 2" Galvanized Schedule 80 Grooved Pipe	31.04	12.69
23 21 13 23-1461 LF 2-1/2" Galvanized Schedule 80 Grooved Pipe	43.87	17.49
23 21 13 23-1462 LF 3" Galvanized Schedule 80 Grooved Pipe	52.63	19.62
23 21 13 23-1463 LF 4" Galvanized Schedule 80 Grooved Pipe	65.96	21.39
23 21 13 23-1464 LF 5" Galvanized Schedule 80 Grooved Pipe	98.80	26.89
23 21 13 23-1465 LF 6" Galvanized Schedule 80 Grooved Pipe	128.41	38.52
23 21 13 23-1466 LF 8" Galvanized Schedule 80 Grooved Pipe	190.73	44.02
23 21 13 23-1467 LF 10" Galvanized Schedule 80 Grooved Pipe	227.07	53.16
23 21 13 23-1468 LF 12" Galvanized Schedule 80 Grooved Pipe	249.77	64.26

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 21 13 23-1469	Painted Grooved-Joint Pipe Fittings <small>(23 21 13 23)</small> Note: Couplings are not included with fittings.		
23 21 13 23-1470	Grooved Elbows <small>(23 21 13 23-1469)</small>		
23 21 13 23-1471	90 Degree Grooved Elbows <small>(23 21 13 23-1470)</small> Note: Victaulic No. 10		
23 21 13 23-1472	EA 3/4" 90 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	89.73 24.83	9.68
23 21 13 23-1473	EA 1" 90 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	89.73 24.83	9.68
23 21 13 23-1474	EA 1-1/4" 90 Degree Elbow, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	93.36 24.83	12.07
23 21 13 23-1475	EA 1-1/2" 90 degree Elbow, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	97.20 24.83	14.65
23 21 13 23-1476	EA 2" 90 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	104.24 24.83	19.35
23 21 13 23-1477	EA 2-1/2" 90 Degree Elbow, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	110.57 24.83	23.61
23 21 13 23-1478	EA 3" 90 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	176.47 44.10	28.58
23 21 13 23-1479	EA 4" 90 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	202.09 48.03	37.72
23 21 13 23-1480	EA 5" 90 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	424.99 116.93	47.13
23 21 13 23-1481	EA 6" 90 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	504.23 135.89	61.69
23 21 13 23-1482	EA 8" 90 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	976.71 285.99	73.40
23 21 13 23-1483	EA 10" 90 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	1,478.65 445.58	85.65
23 21 13 23-1484	EA 12" 90 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	2,318.31 714.19	102.78
23 21 13 23-1485	EA 14" 90 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	4,674.77 1,485.27	116.01
23 21 13 23-1486	EA 16" 90 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	6,081.95 1,943.49	128.43
23 21 13 23-1487	EA 18" 90 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	7,679.77 2,464.91	140.32
23 21 13 23-1488	EA 20" 90 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	10,034.42 3,239.15	145.92
23 21 13 23-1489	EA 24" 90 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	14,383.50 4,661.21	172.54
23 21 13 23-1490	45 Degree Grooved Elbows <small>(23 21 13 23-1470)</small> Note: Victaulic No. 11		
23 21 13 23-1491	EA 3/4" 45 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	89.67 18.04	9.68
23 21 13 23-1492	EA 1" 45 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	89.67 18.04	9.68
23 21 13 23-1493	EA 1-1/4" 45 Degree Elbow, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	93.30 18.04	12.07
23 21 13 23-1494	EA 1-1/2" 45 degree Elbow, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	97.14 18.04	14.65
23 21 13 23-1495	EA 2" 45 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	104.18 18.04	19.35
23 21 13 23-1496	EA 2-1/2" 45 Degree Elbow, Ductile Iron, Grooved <i>For Galvanized Fittings, Add</i>	110.51 18.04	23.61
23 21 13 23-1497	EA 3" 45 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	176.42 32.06	28.58
23 21 13 23-1498	EA 4" 45 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	202.09 34.93	37.72
23 21 13 23-1499	EA 5" 45 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	424.99 85.04	47.13
23 21 13 23-1500	EA 6" 45 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	504.23 98.83	61.69
23 21 13 23-1501	EA 8" 45 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	976.71 208.00	73.40
23 21 13 23-1502	EA 10" 45 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	1,478.65 324.06	85.65
23 21 13 23-1503	EA 12" 45 Degree Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	2,318.31 519.41	102.78
23 21 13 23-1504	EA 14" 45 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	4,674.77 1,080.19	116.01
23 21 13 23-1505	EA 16" 45 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	6,081.95 1,413.45	128.43
23 21 13 23-1506	EA 18" 45 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	7,679.77 1,792.66	140.32
23 21 13 23-1507	EA 20" 45 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	10,034.81 2,355.74	146.18
23 21 13 23-1508	EA 24" 45 Degree Elbow, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	14,383.50 3,389.97	172.54



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1509 22-1/2 Degree Grooved Elbows <small>(23 21 13 23-1470)</small>		
<i>Note: Victaulic No. 12</i>		
23 21 13 23-1510 EA 1" 22-1/2 Degree Elbow, Ductile Iron, Grooved	94.62	9.68
<i>For Galvanized Fittings, Add</i>	<i>19.23</i>	
23 21 13 23-1511 EA 1-1/4" 22-1/2 Degree Elbow, Ductile Iron, Grooved	98.25	12.07
<i>For Galvanized Fittings, Add</i>	<i>19.23</i>	
23 21 13 23-1512 EA 1-1/2" 22-1/2 Degree Elbow, Ductile Iron, Grooved	102.09	14.65
<i>For Galvanized Fittings, Add</i>	<i>19.23</i>	
23 21 13 23-1513 EA 2" 22-1/2 Degree Elbow, Ductile Iron, Grooved	109.13	19.35
<i>For Galvanized Fittings, Add</i>	<i>19.23</i>	
23 21 13 23-1514 EA 2-1/2" 22-1/2 Degree Elbow, Ductile Iron, Grooved	115.46	23.61
<i>For Galvanized Fittings, Add</i>	<i>19.23</i>	
23 21 13 23-1515 EA 3" 22-1/2 Degree Elbow, Ductile Iron, Grooved	160.02	28.58
<i>For Galvanized Fittings, Add</i>	<i>28.13</i>	
23 21 13 23-1516 EA 4" 22-1/2 Degree Elbow, Ductile Iron, Grooved	213.67	37.72
<i>For Galvanized Fittings, Add</i>	<i>37.71</i>	
23 21 13 23-1517 EA 5" 22-1/2 Degree Elbow, Steel, Grooved	557.97	47.13
<i>For Galvanized Fittings, Add</i>	<i>116.95</i>	
23 21 13 23-1518 EA 6" 22-1/2 Degree Elbow, Ductile Iron, Grooved	537.62	61.69
<i>For Galvanized Fittings, Add</i>	<i>106.84</i>	
23 21 13 23-1519 EA 8" 22-1/2 Degree Elbow, Ductile Iron, Grooved	1,041.49	73.40
<i>For Galvanized Fittings, Add</i>	<i>223.54</i>	
23 21 13 23-1520 EA 10" 22-1/2 Degree Elbow, Steel, Grooved	1,407.16	85.65
<i>For Galvanized Fittings, Add</i>	<i>306.90</i>	
23 21 13 23-1521 EA 12" 22-1/2 Degree Elbow, Steel, Grooved	1,882.84	102.78
<i>For Galvanized Fittings, Add</i>	<i>414.90</i>	
23 21 13 23-1522 EA 14" 22-1/2 Degree Elbow, Steel, Grooved	2,170.71	116.01
<i>For Galvanized Fittings, Add</i>	<i>479.22</i>	
23 21 13 23-1523 EA 16" 22-1/2 Degree Elbow, Steel, Grooved	2,587.42	128.43
<i>For Galvanized Fittings, Add</i>	<i>574.76</i>	
23 21 13 23-1524 EA 18" 22-1/2 Degree Elbow, Steel, Grooved	3,110.66	140.32
<i>For Galvanized Fittings, Add</i>	<i>696.08</i>	
23 21 13 23-1525 EA 20" 22-1/2 Degree Elbow, Steel, Grooved	3,647.77	145.92
<i>For Galvanized Fittings, Add</i>	<i>822.95</i>	
23 21 13 23-1526 EA 24" 22-1/2 Degree Elbow, Steel, Grooved	4,866.39	172.54
<i>For Galvanized Fittings, Add</i>	<i>1,105.87</i>	
23 21 13 23-1527 11-1/4 Degree Grooved Elbows <small>(23 21 13 23-1470)</small>		
<i>Note: Victaulic No. 13</i>		
23 21 13 23-1528 EA 1" 11-1/4 Degree Elbow, Ductile Iron, Grooved	94.62	9.68
<i>For Galvanized Fittings, Add</i>	<i>19.23</i>	
23 21 13 23-1529 EA 1-1/4" 11-1/4 Degree Elbow, Ductile Iron, Grooved	98.25	12.07
<i>For Galvanized Fittings, Add</i>	<i>19.23</i>	
23 21 13 23-1530 EA 1-1/2" 11-1/4 Degree Elbow, Ductile Iron, Grooved	102.09	14.65
<i>For Galvanized Fittings, Add</i>	<i>19.23</i>	
23 21 13 23-1531 EA 2" 11-1/4 Degree Elbow, Ductile Iron, Grooved	109.13	19.35
<i>For Galvanized Fittings, Add</i>	<i>19.23</i>	
23 21 13 23-1532 EA 2-1/2" 11-1/4 Degree Elbow, Ductile Iron, Grooved	115.46	23.61
<i>For Galvanized Fittings, Add</i>	<i>19.23</i>	
23 21 13 23-1533 EA 3" 11-1/4 Degree Elbow, Ductile Iron, Grooved	160.01	28.58
<i>For Galvanized Fittings, Add</i>	<i>28.12</i>	
23 21 13 23-1534 EA 4" 11-1/4 Degree Elbow, Ductile Iron, Grooved	213.66	37.72
<i>For Galvanized Fittings, Add</i>	<i>37.71</i>	
23 21 13 23-1535 EA 5" 11-1/4 Degree Elbow, Steel, Grooved	557.95	47.13
<i>For Galvanized Fittings, Add</i>	<i>116.95</i>	
23 21 13 23-1536 EA 6" 11-1/4 Degree Elbow, Ductile Iron, Grooved	537.60	61.69
<i>For Galvanized Fittings, Add</i>	<i>106.84</i>	
23 21 13 23-1537 EA 8" 11-1/4 Degree Elbow, Ductile Iron, Grooved	1,041.44	73.40
<i>For Galvanized Fittings, Add</i>	<i>223.53</i>	
23 21 13 23-1538 EA 10" 11-1/4 Degree Elbow, Steel, Grooved	1,407.09	85.65
<i>For Galvanized Fittings, Add</i>	<i>306.88</i>	
23 21 13 23-1539 EA 12" 11-1/4 Degree Elbow, Steel, Grooved	1,882.75	102.78
<i>For Galvanized Fittings, Add</i>	<i>414.88</i>	
23 21 13 23-1540 EA 14" 11-1/4 Degree Elbow, Steel, Grooved	2,170.61	116.01
<i>For Galvanized Fittings, Add</i>	<i>479.19</i>	
23 21 13 23-1541 EA 16" 11-1/4 Degree Elbow, Steel, Grooved	2,587.33	128.52
<i>For Galvanized Fittings, Add</i>	<i>574.73</i>	
23 21 13 23-1542 EA 18" 11-1/4 Degree Elbow, Steel, Grooved	3,110.48	140.32
<i>For Galvanized Fittings, Add</i>	<i>696.04</i>	
23 21 13 23-1543 EA 20" 11-1/4 Degree Elbow, Steel, Grooved	3,647.58	145.92
<i>For Galvanized Fittings, Add</i>	<i>822.90</i>	
23 21 13 23-1544 EA 24" 11-1/4 Degree Elbow, Steel, Grooved	4,866.13	172.54
<i>For Galvanized Fittings, Add</i>	<i>1,105.80</i>	
23 21 13 23-1545 90 Degree Grooved Long Radius Elbows <small>(23 21 13 23-1470)</small>		
<i>Note: Victaulic No. 100</i>		
23 21 13 23-1546 EA 2" 90 Degree Long Radius Elbow, Ductile Iron, Grooved	200.99	19.35
<i>For Galvanized Fittings, Add</i>	<i>41.28</i>	
23 21 13 23-1547 EA 2-1/2" 90 Degree Long Radius Elbow, Steel, Grooved	534.37	23.61
<i>For Galvanized Fittings, Add</i>	<i>119.77</i>	
23 21 13 23-1548 EA 3" 90 Degree Long Radius Elbow, Ductile Iron, Grooved	214.81	28.58
<i>For Galvanized Fittings, Add</i>	<i>41.28</i>	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1549	EA	4" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	314.16 61.83	37.72
23 21	13 23-1550	EA	5" 90 Degree Long Radius Elbow, Steel Grooved <i>For Galvanized Fittings, Add</i>	1,391.17 316.92	47.13
23 21	13 23-1551	EA	6" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	846.12 180.88	61.69
23 21	13 23-1552	EA	8" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	1,917.85 433.87	73.40
23 21	13 23-1553	EA	10" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	3,876.73 899.60	85.65
23 21	13 23-1554	EA	12" 90 Degree Long Radius Elbow, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	4,623.96 1,072.77	102.78
23 21 13 23-1555 Grooved Tees, Wyes And Crosses (23 21 13 23-1469)					
23 21 13 23-1556 Grooved Tees (23 21 13 23-1555)					
Note: Victaulic No. 20					
23 21	13 23-1557	EA	3/4" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	134.04 34.49	12.69
23 21	13 23-1558	EA	1" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	136.92 34.49	14.65
23 21	13 23-1559	EA	1-1/4" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	141.80 34.49	17.93
23 21	13 23-1560	EA	1-1/2" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	147.91 34.49	22.01
23 21	13 23-1561	EA	2" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	157.61 34.49	28.49
23 21	13 23-1562	EA	2-1/2" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	167.30 34.49	34.88
23 21	13 23-1563	EA	3" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	225.27 48.31	42.87
23 21	13 23-1564	EA	4" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	330.15 74.10	55.47
23 21	13 23-1565	EA	5" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	688.22 173.85	72.51
23 21	13 23-1566	EA	6" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	805.73 200.93	90.71
23 21	13 23-1567	EA	8" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	1,628.13 438.91	110.15
23 21	13 23-1568	EA	10" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	2,805.17 783.77	128.43
23 21	13 23-1569	EA	12" Tee, Ductile Iron, Grooved..... <i>For Galvanized Fittings, Add</i>	3,888.72 1,097.27	154.17
23 21	13 23-1570	EA	14" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	4,246.90 1,197.03	171.30
23 21	13 23-1571	EA	16" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	5,340.90 1,524.79	172.28
23 21	13 23-1572	EA	18" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	6,650.02 1,909.55	190.03
23 21	13 23-1573	EA	20" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	9,409.58 2,736.06	193.05
23 21	13 23-1574	EA	24" Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	14,368.41 4,203.85	237.15
23 21 13 23-1575 Grooved Wyes (90 Degree True Wye) (23 21 13 23-1555)					
Note: Victaulic No. 33					
23 21	13 23-1576	EA	1" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	506.99 77.60	14.65
23 21	13 23-1577	EA	1-1/4" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	511.87 77.60	17.93
23 21	13 23-1578	EA	1-1/2" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	517.98 77.60	22.01
23 21	13 23-1579	EA	2" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	527.68 77.60	28.49
23 21	13 23-1580	EA	2-1/2" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	537.37 77.60	34.88
23 21	13 23-1581	EA	3" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	644.01 92.76	42.87
23 21	13 23-1582	EA	4" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	842.52 121.50	55.47
23 21	13 23-1583	EA	5" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	1,197.18 174.16	72.51
23 21	13 23-1584	EA	6" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	1,482.71 215.48	90.71
23 21	13 23-1585	EA	8" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	2,104.79 310.35	110.15
23 21	13 23-1586	EA	10" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	3,540.49 535.66	128.43
23 21	13 23-1587	EA	12" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	3,929.76 591.78	154.17
23 21	13 23-1588	EA	14" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	4,480.23 675.75	171.30



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1589 EA 16" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	5,743.69 877.71	172.10
23 21 13 23-1590 EA 18" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	6,560.17 1,003.99	190.21
23 21 13 23-1591 EA 20" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	9,389.75 1,456.13	192.69
23 21 13 23-1592 EA 24" Wye, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	14,504.83 2,263.88	237.15
23 21 13 23-1593 Grooved Crosses (23 21 13 23-1555) Note: Victaulic No. 35		
23 21 13 23-1594 EA 3/4" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	342.63 47.10	19.09
23 21 13 23-1595 EA 1" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	346.97 47.10	22.01
23 21 13 23-1596 EA 1-1/4" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	419.29 56.85	26.89
23 21 13 23-1597 EA 1-1/2" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	457.82 61.26	33.02
23 21 13 23-1598 EA 2" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	294.77 34.62	42.69
23 21 13 23-1599 EA 2-1/2" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	309.31 34.62	52.37
23 21 13 23-1600 EA 3" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	511.08 62.21	64.26
23 21 13 23-1601 EA 4" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	815.06 103.55	83.17
23 21 13 23-1602 EA 5" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	1,573.41 211.55	108.72
23 21 13 23-1603 EA 6" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	2,018.48 272.18	136.06
23 21 13 23-1604 EA 8" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	2,637.40 358.46	165.18
23 21 13 23-1605 EA 10" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	4,364.77 611.38	192.69
23 21 13 23-1606 EA 12" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	6,228.47 882.27	231.30
23 21 13 23-1607 EA 14" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	6,479.05 914.07	256.94
23 21 13 23-1608 EA 16" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	8,359.15 1,195.76	258.45
23 21 13 23-1609 EA 18" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	10,198.70 1,465.71	285.00
23 21 13 23-1610 EA 20" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	14,277.31 2,076.50	289.43
23 21 13 23-1611 EA 24" Cross, Steel, Grooved <i>For Galvanized Fittings, Add</i>	21,904.45 3,205.66	355.74
23 21 13 23-1612 Grooved Reducing Tees (23 21 13 23-1555) Note: Victaulic No. 25		
23 21 13 23-1613 EA 1" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	243.77 44.36	14.65
23 21 13 23-1614 EA 1-1/4" Reducing Tee, Steel, Grooved <i>For Galvanized Fittings, Add</i>	255.62 45.75	17.93
23 21 13 23-1615 EA 1-1/2" Reducing Tee, Steel, Grooved <i>For Galvanized Fittings, Add</i>	267.43 46.89	22.01
23 21 13 23-1616 EA 2" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	317.15 54.90	28.49
23 21 13 23-1617 EA 2-1/2" Reducing Tee, Steel, Grooved <i>For Galvanized Fittings, Add</i>	355.09 60.55	34.88
23 21 13 23-1618 EA 3" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	395.61 66.27	42.87
23 21 13 23-1619 EA 4" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	530.03 89.38	55.47
23 21 13 23-1620 EA 5" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	698.80 118.02	72.51
23 21 13 23-1621 EA 6" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	966.07 166.02	90.71
23 21 13 23-1622 EA 8" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	1,534.78 273.94	110.15
23 21 13 23-1623 EA 10" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	2,211.80 403.84	128.43
23 21 13 23-1624 EA 12" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	3,209.77 595.73	154.17
23 21 13 23-1625 EA 14" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	3,639.90 676.62	171.30
23 21 13 23-1626 EA 16" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	4,652.86 878.91	172.28
23 21 13 23-1627 EA 18" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	5,664.88 1,076.01	190.03
23 21 13 23-1628 EA 20" Reducing Tee, Steel, Grooved..... <i>For Galvanized Fittings, Add</i>	7,983.71 1,538.88	192.95

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

SAN BERNARDINO
COUNTY

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1629	EA	24" Reducing Tee, Steel, Grooved <i>For Galvanized Fittings, Add</i>	12,749.70 2,478.82	237.15
23 21 13 23-1630		Grooved 45 Degree Lateral Wyes (23 21 13 23-1555) Note: Victaulic No. 30		
23 21 13 23-1631	EA	3/4" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	478.41 82.68	12.69
23 21 13 23-1632	EA	1" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	481.29 82.68	14.65
23 21 13 23-1633	EA	1-1/4" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	486.17 82.68	17.93
23 21 13 23-1634	EA	1-1/2" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	492.28 82.68	22.01
23 21 13 23-1635	EA	2" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	501.98 82.68	28.49
23 21 13 23-1636	EA	2-1/2" Wye, 45 Degree Lateral, Steel, Grooved <i>For Galvanized Fittings, Add</i>	511.67 82.68	34.88
23 21 13 23-1637	EA	3" Wye, 45 Degree Lateral, Steel, Grooved <i>For Galvanized Fittings, Add</i>	461.05 71.43	42.87
23 21 13 23-1638	EA	3-1/2" Wye, 45 Degree Lateral, Steel, Grooved <i>For Galvanized Fittings, Add</i>	746.34 121.01	49.44
23 21 13 23-1639	EA	4" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	865.70 140.86	55.47
23 21 13 23-1640	EA	5" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	1,252.40 205.86	72.51
23 21 13 23-1641	EA	6" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	1,978.64 331.68	90.71
23 21 13 23-1642	EA	8" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	2,819.23 477.74	110.15
23 21 13 23-1643	EA	10" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	3,938.86 674.33	128.43
23 21 13 23-1644	EA	12" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	4,760.53 815.29	154.17
23 21 13 23-1645	EA	14" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	6,867.74 1,189.97	171.30
23 21 13 23-1646	EA	16" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	8,517.14 1,486.59	172.28
23 21 13 23-1647	EA	18" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	9,517.21 1,661.83	190.03
23 21 13 23-1648	EA	20" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	14,293.25 2,520.71	192.95
23 21 13 23-1649	EA	24" 45 Degree Lateral Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	22,116.70 3,917.00	237.15
23 21 13 23-1650		Grooved 45 Degree Lateral Reducing Wyes (23 21 13 23-1555) Note: Victaulic No. 30R		
23 21 13 23-1651	EA	3" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	461.05 51.59	42.87
23 21 13 23-1652	EA	4" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	865.70 101.73	55.47
23 21 13 23-1653	EA	5" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	1,252.40 148.68	72.51
23 21 13 23-1654	EA	6" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	1,613.60 192.09	90.71
23 21 13 23-1655	EA	8" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	2,298.21 277.30	110.15
23 21 13 23-1656	EA	10" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	2,805.07 339.62	128.43
23 21 13 23-1657	EA	12" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	3,405.92 412.72	154.17
23 21 13 23-1658	EA	14" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	3,813.37 462.35	171.30
23 21 13 23-1659	EA	16" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	4,855.48 597.63	172.28
23 21 13 23-1660	EA	18" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	7,343.80 917.66	190.03
23 21 13 23-1661	EA	20" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	10,621.76 1,343.22	192.95
23 21 13 23-1662	EA	24" 45 Degree Lateral Reducing Wye, Steel, Grooved <i>For Galvanized Fittings, Add</i>	17,084.25 2,174.73	237.15
23 21 13 23-1663		Mechanical-T Outlet (23 21 13 23-1555) Note: Includes making opening in pipe. Grooved or treaded branch outlets. Victaulic Styles 920 or 921.		
23 21 13 23-1664	EA	2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	140.30 18.94	31.95
23 21 13 23-1665	EA	2" x 1" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	140.30 18.94	31.95
23 21 13 23-1666	EA	2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet <i>For Galvanized Fittings, Add</i>	152.22 21.90	31.95
23 21 13 23-1667	EA	2" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet	152.22	31.95
23 21 13 23-1668	EA	2-1/2" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	148.28	35.95



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1669 EA 2-1/2" x 1" Mechanical-T Outlet With Threaded Branch Outlet	148.28	35.95
23 21 13 23-1670 EA 2-1/2" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet	179.76	35.95
23 21 13 23-1671 EA 3" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	167.84	39.94
23 21 13 23-1672 EA 3" x 1" Mechanical-T Outlet With Threaded Branch Outlet	167.84	39.94
23 21 13 23-1673 EA 3" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet	193.19	39.94
23 21 13 23-1674 EA 3" x 1-1/2" Mechanical-T Outlet With Threaded Branch Outlet	193.19	39.94
23 21 13 23-1675 EA 3" x 2" Mechanical-T Outlet With Threaded Branch Outlet	210.55	39.94
23 21 13 23-1676 EA 4" x 3/4" Mechanical-T Outlet With Threaded Branch Outlet	218.66	53.25
23 21 13 23-1677 EA 4" x 1" Mechanical-T Outlet With Threaded Branch Outlet	218.66	53.25
23 21 13 23-1678 EA 4" x 1-1/4" Mechanical-T Outlet With Threaded Branch Outlet	238.45	53.25
23 21 13 23-1679 EA 4" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	244.00	53.25
23 21 13 23-1680 EA 4" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	244.00	53.25
23 21 13 23-1681 EA 4" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	249.56	53.25
23 21 13 23-1682 EA 4" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	260.21	53.25
23 21 13 23-1683 EA 5" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	315.31	73.23
23 21 13 23-1684 EA 5" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	315.31	73.23
23 21 13 23-1685 EA 5" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	324.91	73.23
23 21 13 23-1686 EA 5" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	336.95	73.23
23 21 13 23-1687 EA 6" x 1-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	359.17	93.20
23 21 13 23-1688 EA 6" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	359.17	93.20
23 21 13 23-1689 EA 6" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	373.29	93.20
23 21 13 23-1690 EA 6" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	385.21	93.20
23 21 13 23-1691 EA 6" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	406.39	93.20
23 21 13 23-1692 EA 8" x 2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	552.51	123.37
23 21 13 23-1693 EA 8" x 2-1/2" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	552.51	123.37
23 21 13 23-1694 EA 8" x 3" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	569.53	123.37
23 21 13 23-1695 EA 8" x 4" Mechanical-T Outlet With Threaded Or Grooved Outlet.....	579.60	123.37
23 21 13 23-1696	Installation-Ready™ Grooved Fittings (23 21 13 23-1469)	
23 21 13 23-1697	Installation-Ready™ 90 Degree Grooved Elbows (23 21 13 23-1696)	
Note: Victaulic No. 101		
23 21 13 23-1698 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	155.36	8.78
For Galvanized Fittings, Add		46.88
For Galvanized Fittings, Add		36.36
23 21 13 23-1699 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	162.20	10.54
For Galvanized Fittings, Add		48.25
For Galvanized Fittings, Add		37.43
23 21 13 23-1700 EA 2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	168.57	14.06
For Galvanized Fittings, Add		48.60
For Galvanized Fittings, Add		37.70
23 21 13 23-1701 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 90 Degree Elbow	204.18	17.58
For Galvanized Fittings, Add		58.59
For Galvanized Fittings, Add		45.46
23 21 13 23-1702	Installation-Ready™ 45 Degree Grooved Elbows (23 21 13 23-1696)	
Note: Victaulic No. 103		
23 21 13 23-1703 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	155.36	8.78
For Galvanized Fittings, Add		34.09
For Galvanized Fittings, Add		36.36
23 21 13 23-1704 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	162.20	10.54
For Galvanized Fittings, Add		35.09
For Galvanized Fittings, Add		37.43
23 21 13 23-1705 EA 2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	168.57	14.06
For Galvanized Fittings, Add		35.34
For Galvanized Fittings, Add		37.70
23 21 13 23-1706 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ 45 Degree Elbow	204.18	17.58
For Galvanized Fittings, Add		42.61
For Galvanized Fittings, Add		45.46
23 21 13 23-1707	Installation-Ready™ Grooved Tees (23 21 13 23-1696)	
Note: Victaulic No. 102		
23 21 13 23-1708 EA 1-1/4" Ductile Iron, Grooved, Installation-Ready™ Tee	237.08	11.71
For Galvanized Fittings, Add		65.80
For Galvanized Fittings, Add		56.15
23 21 13 23-1709 EA 1-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee	247.95	14.06
For Galvanized Fittings, Add		68.00
For Galvanized Fittings, Add		58.02
23 21 13 23-1710 EA 2" Ductile Iron, Grooved, Installation-Ready™ Tee.....	258.18	18.74
For Galvanized Fittings, Add		68.93
For Galvanized Fittings, Add		58.82
23 21 13 23-1711 EA 2-1/2" Ductile Iron, Grooved, Installation-Ready™ Tee	300.80	23.43
For Galvanized Fittings, Add		79.59
For Galvanized Fittings, Add		67.91
23 21 13 23-1712	Grooved Fittings (23 21 13 23-1469)	
23 21 13 23-1713	Flanged Adapter Nipple, Grooved (23 21 13 23-1712)	
Note: Victaulic No. 41 and 45		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-1714	EA	1" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	339.23 58.19 48.49	10.65
23 21	13 23-1715	EA	1-1/4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	341.00 58.19 48.49	11.80
23 21	13 23-1716	EA	1-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	345.44 58.19 48.49	14.82
23 21	13 23-1717	EA	2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	354.78 58.19 48.49	21.04
23 21	13 23-1718	EA	2-1/2" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	361.44 58.19 48.49	25.48
23 21	13 23-1719	EA	3" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	459.20 74.45 62.04	30.45
23 21	13 23-1720	EA	4" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	554.72 88.79 73.99	41.01
23 21	13 23-1721	EA	5" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	779.24 126.87 105.73	49.61
23 21	13 23-1722	EA	6" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	904.70 144.76 120.63	67.01
23 21	13 23-1723	EA	8" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	1,246.03 199.81 166.51	90.71
23 21	13 23-1724	EA	10" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	1,976.58 326.07 271.72	110.15
23 21	13 23-1725	EA	12" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	2,669.46 445.83 371.53	128.43
23 21	13 23-1726	EA	14" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	3,152.02 525.76 438.13	154.17
23 21	13 23-1727	EA	16" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	4,755.02 809.68 674.73	171.30
23 21	13 23-1728	EA	18" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	5,668.75 951.03 792.53	256.94
23 21	13 23-1729	EA	20" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	5,969.41 991.29 826.07	308.34
23 21	13 23-1730	EA	24" Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150 <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i>	10,014.14 1,710.09 1,425.08	342.60
23 21	13 23-1731		Grooved Concentric Reducers (23 21 13 23-1712) Note: Victaulic No. 50		
23 21	13 23-1732	EA	1-1/4" x 3/4" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	360.75 15.17	10.65
23 21	13 23-1733	EA	1-1/4" x 1" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	377.18 15.85	11.27
23 21	13 23-1734	EA	1-1/2" x 3/4" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	425.13 48.91	12.16
23 21	13 23-1735	EA	1-1/2" x 1" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	425.13 10.47	12.69
23 21	13 23-1736	EA	1-1/2" x 1-1/4" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	357.26 40.54	13.31
23 21	13 23-1737	EA	2" x 3/4" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	108.88 10.47	14.47
23 21	13 23-1738	EA	2" x 1" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	109.77 10.47	15.09
23 21	13 23-1739	EA	2" x 1-1/4" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	119.41 11.53	15.71
23 21	13 23-1740	EA	2" x 1-1/2" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	113.37 10.47	17.49
23 21	13 23-1741	EA	2-1/2" x 3/4" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	733.72 85.25	16.33
23 21	13 23-1742	EA	2-1/2" x 1" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	581.72 66.87	16.95
23 21	13 23-1743	EA	2-1/2" x 1-1/4" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	529.87 60.54	17.49
23 21	13 23-1744	EA	2-1/2" x 1-1/2" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	115.99 10.47	19.26
23 21	13 23-1745	EA	2-1/2" x 2" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	119.54 10.47	21.57
23 21	13 23-1746	EA	3" x 3/4" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	742.28 108.50	19.00



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1747 EA 3" x 1" Concentric Reducer, Grooved	125.49	19.53
For Galvanized Fittings, Add	14.63	
23 21 13 23-1748 EA 3" x 1-1/4" Concentric Reducer, Grooved	583.05	20.14
For Galvanized Fittings, Add	84.04	
23 21 13 23-1749 EA 3" x 1-1/2" Concentric Reducer, Grooved	546.17	21.57
For Galvanized Fittings, Add	78.09	
23 21 13 23-1750 EA 3" x 2" Concentric Reducer, Grooved	112.39	23.97
For Galvanized Fittings, Add	11.62	
23 21 13 23-1751 EA 3" x 2-1/2" Concentric Reducer, Grooved	148.16	28.58
For Galvanized Fittings, Add	16.01	
23 21 13 23-1752 EA 3-1/2" x 3" Concentric Reducer, Grooved	158.39	30.80
For Galvanized Fittings, Add	17.06	
23 21 13 23-1753 EA 4" x 1" Concentric Reducer, Grooved	152.08	24.23
For Galvanized Fittings, Add	19.84	
23 21 13 23-1754 EA 4" x 1-1/4" Concentric Reducer, Grooved	951.88	24.85
For Galvanized Fittings, Add	156.85	
23 21 13 23-1755 EA 4" x 1-1/2" Concentric Reducer, Grooved	738.72	26.36
For Galvanized Fittings, Add	119.92	
23 21 13 23-1756 EA 4" x 2" Concentric Reducer, Grooved	144.81	28.76
For Galvanized Fittings, Add	17.45	
23 21 13 23-1757 EA 4" x 2-1/2" Concentric Reducer, Grooved	173.71	30.80
For Galvanized Fittings, Add	21.87	
23 21 13 23-1758 EA 4" x 3" Concentric Reducer, Grooved	177.25	33.19
For Galvanized Fittings, Add	21.87	
23 21 13 23-1759 EA 4" x 3-1/2" Concentric Reducer, Grooved	180.81	35.51
For Galvanized Fittings, Add	21.87	
23 21 13 23-1760 EA 5" x 2" Concentric Reducer, Grooved	1,337.28	33.46
For Galvanized Fittings, Add	220.74	
23 21 13 23-1761 EA 5" x 2-1/2" Concentric Reducer, Grooved	1,051.90	35.51
For Galvanized Fittings, Add	171.27	
23 21 13 23-1762 EA 5" x 3" Concentric Reducer, Grooved	206.12	37.90
For Galvanized Fittings, Add	25.61	
23 21 13 23-1763 EA 5" x 4" Concentric Reducer, Grooved	242.23	42.60
For Galvanized Fittings, Add	30.58	
23 21 13 23-1764 EA 6" x 1" Concentric Reducer, Grooved	291.29	36.12
For Galvanized Fittings, Add	44.25	
23 21 13 23-1765 EA 6" x 1-1/2" Concentric Reducer, Grooved	1,410.56	38.16
For Galvanized Fittings, Add	252.53	
23 21 13 23-1766 EA 6" x 2" Concentric Reducer, Grooved	297.93	40.56
For Galvanized Fittings, Add	44.25	
23 21 13 23-1767 EA 6" x 2-1/2" Concentric Reducer, Grooved	1,424.94	42.60
For Galvanized Fittings, Add	253.97	
23 21 13 23-1768 EA 6" x 3" Concentric Reducer, Grooved	304.60	45.00
For Galvanized Fittings, Add	44.25	
23 21 13 23-1769 EA 6" x 4" Concentric Reducer, Grooved	281.08	49.70
For Galvanized Fittings, Add	38.54	
23 21 13 23-1770 EA 6" x 5" Concentric Reducer, Grooved	387.19	54.49
For Galvanized Fittings, Add	57.01	
23 21 13 23-1771 EA 8" x 3" Concentric Reducer, Grooved	500.06	50.95
For Galvanized Fittings, Add	79.07	
23 21 13 23-1772 EA 8" x 4" Concentric Reducer, Grooved	507.16	55.65
For Galvanized Fittings, Add	79.07	
23 21 13 23-1773 EA 8" x 5" Concentric Reducer, Grooved	514.27	60.36
For Galvanized Fittings, Add	79.07	
23 21 13 23-1774 EA 8" x 6" Concentric Reducer, Grooved	641.54	67.45
For Galvanized Fittings, Add	100.83	
23 21 13 23-1775 EA 10" x 4" Concentric Reducer, Grooved	1,101.64	61.87
For Galvanized Fittings, Add	188.26	
23 21 13 23-1776 EA 10" x 5" Concentric Reducer, Grooved	2,323.80	66.57
For Galvanized Fittings, Add	414.99	
23 21 13 23-1777 EA 10" x 6" Concentric Reducer, Grooved	1,213.78	73.67
For Galvanized Fittings, Add	205.87	
23 21 13 23-1778 EA 10" x 8" Concentric Reducer, Grooved	1,222.64	79.61
For Galvanized Fittings, Add	205.87	
23 21 13 23-1779 EA 12" x 4" Concentric Reducer, Grooved	3,445.38	70.47
For Galvanized Fittings, Add	500.97	
23 21 13 23-1780 EA 12" x 6" Concentric Reducer, Grooved	1,439.24	82.28
For Galvanized Fittings, Add	197.39	
23 21 13 23-1781 EA 12" x 8" Concentric Reducer, Grooved	2,108.91	88.23
For Galvanized Fittings, Add	296.50	
23 21 13 23-1782 EA 12" x 10" Concentric Reducer, Grooved	2,118.27	94.43
For Galvanized Fittings, Add	296.50	
23 21 13 23-1783 EA 14" x 6" Concentric Reducer, Grooved	6,839.77	88.67
For Galvanized Fittings, Add	205.90	
23 21 13 23-1784 EA 14" x 8" Concentric Reducer, Grooved	4,078.52	94.62
For Galvanized Fittings, Add	120.86	
23 21 13 23-1785 EA 14" x 10" Concentric Reducer, Grooved	3,475.03	100.82
For Galvanized Fittings, Add	102.04	
23 21 13 23-1786 EA 14" x 12" Concentric Reducer, Grooved	3,487.88	109.35
For Galvanized Fittings, Add	102.04	
23 21 13 23-1787 EA 16" x 8" Concentric Reducer, Grooved	6,216.75	100.91
For Galvanized Fittings, Add	186.21	
23 21 13 23-1788 EA 16" x 10" Concentric Reducer, Grooved	5,768.48	107.13
For Galvanized Fittings, Add	172.16	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1789 EA 16" x 12" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	5,332.80 158.39	115.73
23 21 13 23-1790 EA 16" x 14" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	5,342.38 158.39	122.12
23 21 13 23-1791 EA 18" x 10" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	8,088.17 243.10	113.08
23 21 13 23-1792 EA 18" x 12" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	7,322.22 219.19	121.60
23 21 13 23-1793 EA 18" x 14" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	6,655.64 198.44	127.99
23 21 13 23-1794 EA 18" x 16" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	6,665.23 198.44	134.47
23 21 13 23-1795 EA 20" x 10" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	8,902.86 267.98	116.01
23 21 13 23-1796 EA 20" x 12" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	7,628.85 228.47	124.61
23 21 13 23-1797 EA 20" x 14" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	7,638.44 228.47	131.01
23 21 13 23-1798 EA 20" x 16" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	6,808.24 202.69	137.31
23 21 13 23-1799 EA 20" x 18" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	7,255.46 216.15	143.25
23 21 13 23-1800 EA 24" x 10" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	19,644.74 597.15	129.06
23 21 13 23-1801 EA 24" x 12" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	19,187.91 582.73	137.66
23 21 13 23-1802 EA 24" x 14" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	16,718.87 506.64	143.97
23 21 13 23-1803 EA 24" x 16" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	16,728.52 506.64	150.45
23 21 13 23-1804 EA 24" x 18" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	14,320.58 432.45	156.30
23 21 13 23-1805 EA 24" x 20" Concentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	13,077.36 394.14	159.32
23 21 13 23-1806 Grooved Eccentric Reducers <small>(23 21 13 23-1712)</small>		
Note: Victaulic No. 51		
23 21 13 23-1807 EA 1-1/2" x 3/4" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	439.17 50.60	12.16
23 21 13 23-1808 EA 1-1/2" x 1" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	399.09 45.68	12.69
23 21 13 23-1809 EA 1-1/2" x 1-1/4" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	391.68 44.68	13.31
23 21 13 23-1810 EA 2" x 3/4" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	839.76 98.33	14.47
23 21 13 23-1811 EA 2" x 1" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	442.23 50.44	15.09
23 21 13 23-1812 EA 2" x 1-1/4" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	483.53 55.29	15.71
23 21 13 23-1813 EA 2" x 1-1/2" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	411.30 46.29	17.49
23 21 13 23-1814 EA 2-1/2" x 3/4" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	1,092.31 128.35	16.33
23 21 13 23-1815 EA 2-1/2" x 1" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	1,020.19 119.58	16.95
23 21 13 23-1816 EA 2-1/2" x 1-1/4" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	604.00 69.45	17.49
23 21 13 23-1817 EA 2-1/2" x 1-1/2" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	486.67 55.03	19.26
23 21 13 23-1818 EA 2-1/2" x 2" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	216.82 22.17	21.57
23 21 13 23-1819 EA 3" x 1" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	1,096.38 128.27	19.53
23 21 13 23-1820 EA 3" x 1-1/4" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	996.20 116.12	20.14
23 21 13 23-1821 EA 3" x 1-1/2" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	561.94 63.65	21.57
23 21 13 23-1822 EA 3" x 2" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	247.88 25.47	23.97
23 21 13 23-1823 EA 3" x 2-1/2" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	254.76 25.47	28.58
23 21 13 23-1824 EA 3-1/2" x 3" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	1,218.61 140.93	30.80
23 21 13 23-1825 EA 4" x 1" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	2,199.44 370.96	24.23
23 21 13 23-1826 EA 4" x 1-1/2" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	1,347.69 224.35	26.36
23 21 13 23-1827 EA 4" x 2" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	302.18 44.44	28.76
23 21 13 23-1828 EA 4" x 2-1/2" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	305.29 44.44	30.80
23 21 13 23-1829 EA 4" x 3" Eccentric Reducer, Grooved <i>For Galvanized Fittings, Add</i>	308.83 44.44	33.19



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1830 EA 5" x 2" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	1,492.69 247.39	33.46
23 21 13 23-1831 EA 5" x 2-1/2" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	1,282.25 210.77	35.51
23 21 13 23-1832 EA 5" x 3" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	1,243.89 203.58	37.90
23 21 13 23-1833 EA 5" x 4" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	416.86 60.53	42.60
23 21 13 23-1834 EA 6" x 1" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	2,296.63 418.45	36.12
23 21 13 23-1835 EA 6" x 2" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	2,105.84 381.61	40.56
23 21 13 23-1836 EA 6" x 2-1/2" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	2,499.09 454.40	42.60
23 21 13 23-1837 EA 6" x 3" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	537.37 87.69	45.00
23 21 13 23-1838 EA 6" x 4" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	485.87 76.75	49.70
23 21 13 23-1839 EA 6" x 5" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	575.06 92.07	54.49
23 21 13 23-1840 EA 8" x 3" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	2,452.45 443.39	50.95
23 21 13 23-1841 EA 8" x 4" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	2,160.01 387.49	55.65
23 21 13 23-1842 EA 8" x 5" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	2,023.92 360.77	60.36
23 21 13 23-1843 EA 8" x 6" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	935.20 155.63	67.45
23 21 13 23-1844 EA 10" x 4" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	3,903.36 711.06	61.87
23 21 13 23-1845 EA 10" x 5" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	3,690.01 669.92	66.57
23 21 13 23-1846 EA 10" x 6" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	2,817.82 505.19	73.67
23 21 13 23-1847 EA 10" x 8" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	2,410.76 427.58	79.61
23 21 13 23-1848 EA 12" x 4" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	3,980.33 584.70	70.47
23 21 13 23-1849 EA 12" x 6" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	3,740.08 545.77	82.28
23 21 13 23-1850 EA 12" x 8" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	3,656.43 531.80	88.23
23 21 13 23-1851 EA 12" x 10" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	3,298.22 476.33	94.43
23 21 13 23-1852 EA 14" x 6" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	9,258.61 280.16	88.67
23 21 13 23-1853 EA 14" x 8" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	5,976.11 179.11	94.62
23 21 13 23-1854 EA 14" x 10" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	5,704.96 170.50	100.82
23 21 13 23-1855 EA 14" x 12" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	5,717.81 170.50	109.35
23 21 13 23-1856 EA 16" x 8" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	10,229.49 309.40	100.91
23 21 13 23-1857 EA 16" x 10" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	9,473.63 285.91	107.13
23 21 13 23-1858 EA 16" x 12" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	8,924.32 268.65	115.73
23 21 13 23-1859 EA 16" x 14" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	8,933.90 268.65	122.12
23 21 13 23-1860 EA 18" x 10" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	12,836.04 388.86	113.08
23 21 13 23-1861 EA 18" x 12" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	12,076.20 365.14	121.60
23 21 13 23-1862 EA 18" x 14" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	10,998.08 331.75	127.99
23 21 13 23-1863 EA 18" x 16" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	11,007.67 331.75	134.47
23 21 13 23-1864 EA 20" x 10" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	16,865.38 512.43	116.01
23 21 13 23-1865 EA 20" x 12" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	12,533.29 379.04	124.61
23 21 13 23-1866 EA 20" x 14" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	11,771.02 355.34	131.01
23 21 13 23-1867 EA 20" x 16" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	11,593.19 349.59	137.31
23 21 13 23-1868 EA 20" x 18" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	11,165.86 336.20	143.25
23 21 13 23-1869 EA 24" x 12" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	24,369.43 741.80	137.66
23 21 13 23-1870 EA 24" x 14" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	20,809.66 632.23	143.97
23 21 13 23-1871 EA 24" x 16" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	20,819.31 632.23	150.45

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1872 EA 24" x 18" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	19,659.12 596.34	156.30
23 21 13 23-1873 EA 24" x 20" Eccentric Reducer, Grooved..... <i>For Galvanized Fittings, Add</i>	17,964.99 544.19	159.32
23 21 13 23-1874 Close Nipple, Grooved (23 21 13 23-1712) Note: Victaulic No. 143		
23 21 13 23-1875 EA 1-1/4" Ductile Iron, Grooved, Close Nipple..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	41.08 4.20 3.50 5.97	11.71
23 21 13 23-1876 EA 1-1/2" Ductile Iron, Grooved, Close Nipple..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	47.61 4.58 3.81 6.51	14.65
23 21 13 23-1877 EA 2" Ductile Iron, Grooved, Close Nipple..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	59.93 5.52 4.60 7.84	19.33
23 21 13 23-1878 EA 2-1/2" Ductile Iron, Grooved, Close Nipple..... <i>For Galvanized Fittings, Add</i> <i>For 300 LB Rating, Add</i> <i>For Galvanized Fittings, Add</i>	71.72 6.52 5.43 9.27	23.43
23 21 13 23-1879 Grooved Couplings (23 21 13 23-1469)		
23 21 13 23-1880 Flexible Grooved Coupling (23 21 13 23-1879) Note: Victaulic Style 77		
23 21 13 23-1881 EA 3/4" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	48.75 11.62	4.79
23 21 13 23-1882 EA 1" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	48.75 11.62	4.79
23 21 13 23-1883 EA 1-1/4" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	64.27 15.46	6.04
23 21 13 23-1884 EA 1-1/2" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	71.17 16.90	7.19
23 21 13 23-1885 EA 2" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	78.26 17.85	9.68
23 21 13 23-1886 EA 2-1/2" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	93.99 21.37	11.80
23 21 13 23-1887 EA 3" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	97.42 21.37	14.12
23 21 13 23-1888 EA 3-1/2" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	147.75 34.43	16.51
23 21 13 23-1889 EA 4" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	151.22 34.43	18.81
23 21 13 23-1890 EA 5" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	223.86 52.79	23.61
23 21 13 23-1891 EA 6" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	269.08 62.40	30.80
23 21 13 23-1892 EA 8" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	418.30 101.71	36.74
23 21 13 23-1893 EA 10" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	669.76 169.04	44.02
23 21 13 23-1894 EA 12" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	759.61 192.47	48.19
23 21 13 23-1895 EA 14" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	931.36 233.81	64.26
23 21 13 23-1896 EA 16" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	1,210.89 306.69	77.13
23 21 13 23-1897 EA 18" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	1,411.20 359.18	85.65
23 21 13 23-1898 EA 20" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	2,162.49 565.05	96.39
23 21 13 23-1899 EA 24" Standard Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	2,390.87 619.66	118.58
23 21 13 23-1900 Zero-Flex® Rigid Coupling (23 21 13 23-1879) Note: Victaulic Style 07		
23 21 13 23-1901 EA 1" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	64.98 14.14	4.79
23 21 13 23-1902 EA 1-1/4" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	66.80 14.14	6.04
23 21 13 23-1903 EA 1-1/2" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	68.56 14.14	7.19
23 21 13 23-1904 EA 2" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	73.70 14.50	9.68
23 21 13 23-1905 EA 2-1/2" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	85.92 16.72	11.80
23 21 13 23-1906 EA 3" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	89.35 16.72	14.12



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1907 EA 3-1/2" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	104.54 19.54	16.51
23 21 13 23-1908 EA 4" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	141.27 27.69	18.81
23 21 13 23-1909 EA 5" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	182.11 35.96	23.61
23 21 13 23-1910 EA 6" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	242.42 48.07	30.80
23 21 13 23-1911 EA 8" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	364.12 75.72	36.74
23 21 13 23-1912 EA 10" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	619.86 135.69	44.02
23 21 13 23-1913 EA 12" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	691.97 151.84	48.19
23 21 13 23-1914 EA 14" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	906.00 198.37	64.26
23 21 13 23-1915 EA 16" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	1,171.58 258.72	77.13
23 21 13 23-1916 EA 18" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	1,349.19 299.09	85.65
23 21 13 23-1917 EA 20" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	1,597.87 356.09	96.39
23 21 13 23-1918 EA 24" Rigid Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	2,318.58 524.49	118.58
23 21 13 23-1919 Large Diameter Grooved Coupling (23 21 13 23-1879) Note: Victaulic Style 770		
23 21 13 23-1920 EA 28" Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	2,604.22 359.64	23.61
23 21 13 23-1921 EA 30" Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	3,003.81 414.06	30.80
23 21 13 23-1922 EA 32" Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	4,484.20 620.08	36.74
23 21 13 23-1923 EA 36" Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	5,966.76 826.10	44.02
23 21 13 23-1924 EA 42" Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	12,005.89 1,670.71	48.19
23 21 13 23-1925 Flexible Coupling (23 21 13 23-1879) Note: Victaulic Style 75		
23 21 13 23-1926 EA 1-1/2" Flexible Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	63.30 13.43	7.19
23 21 13 23-1927 EA 2" Flexible Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	68.32 13.78	9.68
23 21 13 23-1928 EA 2-1/2" Flexible Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	80.05 15.97	11.80
23 21 13 23-1929 EA 3" Flexible Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	93.63 18.57	14.12
23 21 13 23-1930 EA 3-1/2" Flexible Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	127.53 26.30	16.51
23 21 13 23-1931 EA 4" Flexible Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	131.00 26.30	18.81
23 21 13 23-1932 EA 5" Flexible Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	183.58 37.95	23.61
23 21 13 23-1933 EA 6" Flexible Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	224.80 45.71	30.80
23 21 13 23-1934 EA 8" Flexible Coupling, Grooved..... <i>For Galvanized Fittings, Add</i>	335.74 71.86	36.74
23 21 13 23-1935 Installation-Ready™ Coupling (23 21 13 23-1879) Note: Victaulic Style 009N		
23 21 13 23-1936 EA 1-1/4" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	47.88 10.52	4.48
23 21 13 23-1937 EA 1-1/2" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	50.06 10.74	5.36
23 21 13 23-1938 EA 2" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	58.36 12.14	7.20
23 21 13 23-1939 EA 2-1/2" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	67.87 13.99	8.73
23 21 13 23-1940 EA 3" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	77.73 15.83	10.48
23 21 13 23-1941 EA 4" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	108.05 22.23	14.01
23 21 13 23-1942 EA 5" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	168.59 36.36	17.52
23 21 13 23-1943 EA 6" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	204.42 43.45	22.90
23 21 13 23-1944 EA 8" Ductile Iron, Installation-Ready™ Coupling..... <i>For Galvanized Fittings, Add</i>	324.84 72.59	27.24

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-1945			Grooved Strainers And Suction Diffusers (23 21 13 23-1469)		
23 21 13 23-1946			Grooved Wye Strainers (23 21 13 23-1945)		
			Note: Victaulic Style 732		
23 21 13 23-1947	EA		2" Wye Strainer, Grooved	1,360.21	19.53
23 21 13 23-1948	EA		2-1/2" Wye Strainer, Grooved	1,433.64	23.69
23 21 13 23-1949	EA		3" Wye Strainer, Grooved	1,613.36	28.40
23 21 13 23-1950	EA		4" Wye Strainer, Grooved	1,834.26	37.90
23 21 13 23-1951	EA		5" Wye Strainer, Grooved	2,645.85	47.40
23 21 13 23-1952	EA		6" Wye Strainer, Grooved	2,888.13	61.60
23 21 13 23-1953	EA		8" Wye Strainer, Grooved	4,395.97	73.40
23 21 13 23-1954	EA		10" Wye Strainer, Grooved	7,018.20	85.82
23 21 13 23-1955	EA		12" Wye Strainer, Grooved	12,189.99	103.05
23 21 13 23-1956			Grooved Tee Type Strainers (23 21 13 23-1945)		
			Note: Victaulic Style 730		
23 21 13 23-1957	EA		1-1/2" Tee Type Strainer, Grooved	1,049.24	14.82
23 21 13 23-1958	EA		2" Tee Type Strainer, Grooved	1,343.78	19.53
23 21 13 23-1959	EA		2-1/2" Tee Type Strainer, Grooved	1,416.57	23.69
23 21 13 23-1960	EA		3" Tee Type Strainer, Grooved	1,594.07	28.40
23 21 13 23-1961	EA		4" Tee Type Strainer, Grooved	1,812.39	37.90
23 21 13 23-1962	EA		5" Tee Type Strainer, Grooved	2,614.01	47.40
23 21 13 23-1963	EA		6" Tee Type Strainer, Grooved	2,853.79	61.60
23 21 13 23-1964	EA		8" Tee Type Strainer, Grooved	4,342.80	73.40
23 21 13 23-1965	EA		10" Tee Type Strainer, Grooved	6,345.35	85.82
23 21 13 23-1966	EA		12" Tee Type Strainer, Grooved	8,156.98	103.05
23 21 13 23-1967	EA		14" Tee Type Strainer, Grooved	28,699.08	116.01
23 21 13 23-1968	EA		16" Tee Type Strainer, Grooved	35,645.11	128.43
23 21 13 23-1969	EA		18" Tee Type Strainer, Grooved	46,840.73	140.32
23 21 13 23-1970			Grooved Suction Diffuser (23 21 13 23-1945)		
			Note: Victaulic Style 731		
23 21 13 23-1971	EA		2-1/2" Grooved x 2" Flanged Suction Diffuser	2,762.36	21.92
23 21 13 23-1972	EA		3" Grooved x 2" Flanged Suction Diffuser	2,932.97	24.23
23 21 13 23-1973	EA		3" Grooved x 2-1/2" Flanged Suction Diffuser	2,125.05	28.40
23 21 13 23-1974	EA		3" Grooved x 3" Flanged Suction Diffuser	2,156.06	30.80
23 21 13 23-1975	EA		4" Grooved x 2-1/2" Flanged Suction Diffuser	2,334.11	30.80
23 21 13 23-1976	EA		4" Grooved x 3" Flanged Suction Diffuser	2,518.18	33.19
23 21 13 23-1977	EA		4" Grooved x 4" Flanged Suction Diffuser	2,908.78	33.19
23 21 13 23-1978	EA		5" Grooved x 4" Flanged Suction Diffuser	3,250.56	42.60
23 21 13 23-1979	EA		5" Grooved x 5" Flanged Suction Diffuser	3,415.81	45.00
23 21 13 23-1980	EA		6" Grooved x 4" Flanged Suction Diffuser	3,472.20	49.70
23 21 13 23-1981	EA		6" Grooved x 5" Flanged Suction Diffuser	4,146.06	54.49
23 21 13 23-1982	EA		6" Grooved x 6" Flanged Suction Diffuser	4,307.08	58.04
23 21 13 23-1983	EA		8" Grooved x 5" Flanged Suction Diffuser	4,419.82	60.36
23 21 13 23-1984	EA		8" Grooved x 6" Flanged Suction Diffuser	4,666.38	67.45
23 21 13 23-1985	EA		8" Grooved x 8" Flanged Suction Diffuser	7,966.20	73.40
23 21 13 23-1986	EA		10" Grooved x 8" Flanged Suction Diffuser	8,984.03	79.34
23 21 13 23-1987	EA		10" Grooved x 10" Flanged Suction Diffuser	10,805.34	82.28
23 21 13 23-1988	EA		12" Grooved x 10" Flanged Suction Diffuser	12,785.74	94.71
23 21 13 23-1989	EA		12" Grooved x 12" Flanged Suction Diffuser	17,738.14	100.65
23 21 13 23-1990	EA		14" Grooved x 10" Flanged Suction Diffuser	16,519.02	100.65
23 21 13 23-1991	EA		14" Grooved x 12" Flanged Suction Diffuser	18,448.05	109.53
23 21 13 23-1992	EA		14" Grooved x 14" Flanged Suction Diffuser	22,377.11	116.01
23 21 13 23-1993	EA		16" Grooved x 14" Flanged Suction Diffuser	23,038.59	121.95
23 21 13 23-1994			Grooved Steel Valves (23 21 13 23-1469)		
23 21 13 23-1995			Grooved Butterfly Valves With Standard Trim (23 21 13 23-1994)		
23 21 13 23-1996	EA		1-1/2" Butterfly Valve, Grooved, With Standard Trim	274.33	9.68
23 21 13 23-1997	EA		2" Butterfly Valve, Grooved, With Standard Trim	278.93	12.69
23 21 13 23-1998	EA		3" Butterfly Valve, Grooved, With Standard Trim	458.22	18.81
23 21 13 23-1999	EA		4" Butterfly Valve, Grooved, With Standard Trim	615.64	24.76
23 21 13 23-2000	EA		6" Butterfly Valve, Grooved, With Standard Trim	1,347.62	40.56
23 21 13 23-2001	EA		8" Butterfly Valve, Grooved, With Standard Trim	1,867.33	57.07
23 21 13 23-2002	EA		10" Butterfly Valve, Grooved, With Standard Trim	2,806.71	77.13
23 21 13 23-2003			Grooved Butterfly Valves With Stainless Steel Trim (23 21 13 23-1994)		
23 21 13 23-2004	EA		1-1/2" Butterfly Valve, Grooved, With Stainless Steel Trim	413.53	9.68
23 21 13 23-2005	EA		2" Butterfly Valve, Grooved, With Stainless Steel Trim	418.12	12.69
23 21 13 23-2006	EA		3" Butterfly Valve, Grooved, With Stainless Steel Trim	646.91	18.81
23 21 13 23-2007	EA		4" Butterfly Valve, Grooved, With Stainless Steel Trim	822.89	24.76
23 21 13 23-2008	EA		6" Butterfly Valve, Grooved, With Stainless Steel Trim	1,576.52	40.56
23 21 13 23-2009	EA		8" Butterfly Valve, Grooved, With Stainless Steel Trim	2,622.08	57.07
23 21 13 23-2010	EA		10" Butterfly Valve, Grooved, With Stainless Steel Trim	4,136.82	77.13



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2011				Grooved Ball Valves With Standard Trim And Handle <small>(23 21 13 23-1994)</small>		
				Note: Victaulic No. 721		
				23 21 13 23-2012 EA 1-1/2" Ball Valve, Grooved, With Standard Trim	231.07	9.50
				23 21 13 23-2013 EA 2" Ball Valve, Grooved, With Standard Trim	264.26	13.05
				23 21 13 23-2014 EA 2-1/2" Ball Valve, Grooved, With Standard Trim	606.84	15.98
				23 21 13 23-2015 EA 3" Ball Valve, Grooved, With Standard Trim	997.11	18.91
				23 21 13 23-2016 EA 4" Ball Valve, Grooved, With Standard Trim	1,554.02	24.85
				23 21 13 23-2017 EA 6" Ball Valve, Grooved, With Standard Trim	4,841.86	40.83
23 21 13 23-2018				Grooved Ball Valves With Stainless Steel Trim And Handle <small>(23 21 13 23-1994)</small>		
				Note: Victaulic No. 721		
				23 21 13 23-2019 EA 1-1/2" Ball Valve, Grooved, With Stainless Steel Trim	246.31	9.50
				23 21 13 23-2020 EA 2" Ball Valve, Grooved, With Stainless Steel Trim	422.52	13.05
				23 21 13 23-2021 EA 2-1/2" Ball Valve, Grooved, With Stainless Steel Trim	1,105.84	15.98
				23 21 13 23-2022 EA 3" Ball Valve, Grooved, With Stainless Steel Trim	1,430.53	18.91
				23 21 13 23-2023 EA 4" Ball Valve, Grooved, With Stainless Steel Trim	1,954.54	24.85
				23 21 13 23-2024 EA 6" Ball Valve, Grooved, With Stainless Steel Trim	5,338.15	40.83
23 21 13 23-2025				Grooved Check Valves <small>(23 21 13 23-1994)</small>		
				Note: Victaulic No. 712		
				23 21 13 23-2026 EA 2" Check Valve, Grooved	351.39	13.05
				23 21 13 23-2027 EA 2-1/2" Check Valve, Grooved	571.65	15.98
				23 21 13 23-2028 EA 3" Check Valve, Grooved	665.99	18.91
				23 21 13 23-2029 EA 4" Check Valve, Grooved	944.55	24.85
23 21 13 23-2030				Grooved Vic-Check Check Valves <small>(23 21 13 23-1994)</small>		
				Note: Victaulic No. 716		
				23 21 13 23-2031 EA 2-1/2" "Vic-Check" Check Valve, Grooved	455.92	15.98
				23 21 13 23-2032 EA 3" "Vic-Check" Check Valve, Grooved	460.22	18.91
				23 21 13 23-2033 EA 4" "Vic-Check" Check Valve, Grooved	576.44	24.85
				23 21 13 23-2034 EA 6" "Vic-Check" Check Valve, Grooved	1,125.87	40.83
				23 21 13 23-2035 EA 8" "Vic-Check" Check Valve, Grooved	1,540.30	56.81
				23 21 13 23-2036 EA 10" "Vic-Check" Check Valve, Grooved	4,327.16	76.95
				23 21 13 23-2037 EA 12" "Vic-Check" Check Valve, Grooved	5,124.78	88.84
23 21 13 23-2038				Grooved Plug Valves With Lever Operator <small>(23 21 13 23-1994)</small>		
				Note: Victaulic No. 377		
				23 21 13 23-2039 EA 3" Balancing Plug Valve, Grooved, With Lever Handle	541.55	18.91
				23 21 13 23-2040 EA 4" Balancing Plug Valve, Grooved, With Lever Handle	602.02	24.85
				23 21 13 23-2041 EA 6" Balancing Plug Valve, Grooved, With Lever Handle	1,073.86	40.83
23 21 13 23-2042				Grooved Plug Valve With Gear Operator <small>(23 21 13 23-1994)</small>		
				Note: Victaulic No. 377		
				23 21 13 23-2043 EA 3" Balancing Plug Valve, Grooved, With Gear Operator	955.52	18.91
				23 21 13 23-2044 EA 4" Balancing Plug Valve, Grooved, With Gear Operator	1,016.03	24.85
				23 21 13 23-2045 EA 6" Balancing Plug Valve, Grooved, With Gear Operator	1,487.86	40.83
				23 21 13 23-2046 EA 8" Balancing Plug Valve, Grooved, With Gear Operator	1,990.84	56.81
				23 21 13 23-2047 EA 10" Balancing Plug Valve, Grooved, With Gear Operator	3,120.70	76.95
				23 21 13 23-2048 EA 12" Balancing Plug Valve, Grooved, With Gear Operator	4,510.84	88.84
23 21 13 23-2049				Prepare Pipe For Groove <small>(23 21 13 23-1469)</small>		
23 21 13 23-2050				Cut Grooved Pipe <small>(23 21 13 23-2049)</small>		
				Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.		
				23 21 13 23-2051 EA Cut 3/4" Groove	9.30	
				23 21 13 23-2052 EA Cut 1" Groove	10.09	
				23 21 13 23-2053 EA Cut 1-1/4" Groove	11.40	
				23 21 13 23-2054 EA Cut 1-1/2" Groove	12.40	
				23 21 13 23-2055 EA Cut 2" Groove	13.59	
				23 21 13 23-2056 EA Cut 2-1/2" Groove	14.72	
				23 21 13 23-2057 EA Cut 3" Groove	16.06	
				23 21 13 23-2058 EA Cut 3-1/2" Groove	17.02	
				23 21 13 23-2059 EA Cut 4" Groove	18.12	
				23 21 13 23-2060 EA Cut 5" Groove	19.63	
				23 21 13 23-2061 EA Cut 6" Groove	20.19	
				23 21 13 23-2062 EA Cut 8" Groove	26.17	
				23 21 13 23-2063 EA Cut 10" Groove	37.20	
				23 21 13 23-2064 EA Cut 12" Groove	47.11	
				23 21 13 23-2065 EA Cut 14" Groove	70.67	
				23 21 13 23-2066 EA Cut 16" Groove	74.38	
				23 21 13 23-2067 EA Cut 18" Groove	78.52	
				23 21 13 23-2068 EA Cut 20" Groove	83.14	
				23 21 13 23-2069 EA Cut 24" Groove	94.22	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST
23 21 13 23-2070**Roll Grooved Pipe** (23 21 13 23-2049)

Note: For use where connecting ungrooved pipe with grooved pipe, coupling to grooved pipe, or for field groove preparation on existing cut pipe.

23 21 13 23-2071	EA	Roll 3/4" Groove	5.31	
23 21 13 23-2072	EA	Roll 1" Groove	6.20	
23 21 13 23-2073	EA	Roll 1-1/4" Groove	7.06	
23 21 13 23-2074	EA	Roll 1-1/2" Groove	7.94	
23 21 13 23-2075	EA	Roll 2" Groove	12.18	
23 21 13 23-2076	EA	Roll 2-1/2" Groove	12.85	
23 21 13 23-2077	EA	Roll 3" Groove	14.14	
23 21 13 23-2078	EA	Roll 3-1/2" Groove	15.03	
23 21 13 23-2079	EA	Roll 4" Groove	16.43	
23 21 13 23-2080	EA	Roll 5" Groove	16.82	
23 21 13 23-2081	EA	Roll 6" Groove	17.67	
23 21 13 23-2082	EA	Roll 8" Groove	21.41	
23 21 13 23-2083	EA	Roll 10" Groove	24.37	
23 21 13 23-2084	EA	Roll 12" Groove	30.73	
23 21 13 23-2085	EA	Roll 14" Groove	47.11	
23 21 13 23-2086	EA	Roll 16" Groove	50.48	
23 21 13 23-2087	EA	Roll 18" Groove	52.35	
23 21 13 23-2088	EA	Roll 20" Groove	56.53	
23 21 13 23-2089	EA	Roll 24" Groove	61.44	

23 21 13 23-2090**Standard Gaskets** (23 21 13 23-2049)

Note: For use on replacement of existing gaskets.

23 21 13 23-2091	EA	3/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	33.64	
23 21 13 23-2092	EA	1" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	34.38	
23 21 13 23-2093	EA	1-1/4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	35.72	
23 21 13 23-2094	EA	1-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	39.03	
23 21 13 23-2095	EA	2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	39.57	
23 21 13 23-2096	EA	2-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	47.06	
23 21 13 23-2097	EA	3" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	51.42	
23 21 13 23-2098	EA	3-1/2" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	64.26	
23 21 13 23-2099	EA	4" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	64.69	
23 21 13 23-2100	EA	5" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	82.23	
23 21 13 23-2101	EA	6" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	88.61	
23 21 13 23-2102	EA	8" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	121.21	
23 21 13 23-2103	EA	10" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	153.51	
23 21 13 23-2104	EA	12" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	179.88	
23 21 13 23-2105	EA	14" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	250.09	
23 21 13 23-2106	EA	16" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	339.36	
23 21 13 23-2107	EA	18" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	405.53	
23 21 13 23-2108	EA	20" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	611.48	
23 21 13 23-2109	EA	24" Grooved Standard Gasket, Ethylene Propylene Diene Monomer (EPDM) "E" Or Nitrile "T"	843.04	

23 21 13 23-2110**Copper Grooved-Joint Pipe Fittings** (23 21 13 23)

Note: Couplings are not included with fittings.

23 21 13 23-2111**Grooved Fittings** (23 21 13 23-2110)**23 21 13 23-2112****Grooved 90 Degree Elbows** (23 21 13 23-2111)

23 21 13 23-2113	EA	2" Copper 90 Degree Elbow, Grooved	60.82	14.47
23 21 13 23-2114	EA	2-1/2" Copper 90 Degree Elbow, Grooved	69.77	17.66
23 21 13 23-2115	EA	3" Copper 90 Degree Elbow, Grooved	91.06	21.39
23 21 13 23-2116	EA	4" Copper 90 Degree Elbow, Grooved	167.23	28.22
23 21 13 23-2117	EA	5" Copper 90 Degree Elbow, Grooved	384.47	35.33
23 21 13 23-2118	EA	6" Copper 90 Degree Elbow, Grooved	593.22	46.24
23 21 13 23-2119	EA	8" Copper 90 Degree Elbow, Grooved	1,050.15	55.03

23 21 13 23-2120**Grooved 45 Degree Elbows** (23 21 13 23-2111)

23 21 13 23-2121	EA	2" Copper 45 Degree Elbow, Grooved	60.82	14.47
23 21 13 23-2122	EA	2-1/2" Copper 45 Degree Elbow, Grooved	69.77	17.66
23 21 13 23-2123	EA	3" Copper 45 Degree Elbow, Grooved	91.06	21.39
23 21 13 23-2124	EA	4" Copper 45 Degree Elbow, Grooved	167.23	28.22
23 21 13 23-2125	EA	5" Copper 45 Degree Elbow, Grooved	384.47	35.33
23 21 13 23-2126	EA	6" Copper 45 Degree Elbow, Grooved	593.22	46.24
23 21 13 23-2127	EA	8" Copper 45 Degree Elbow, Grooved	1,050.15	55.03

23 21 13 23-2128**Grooved Tees** (23 21 13 23-2111)

23 21 13 23-2129	EA	2" Copper Tee, Grooved	94.82	21.30
23 21 13 23-2130	EA	2-1/2" Copper Tee, Grooved	107.70	26.18
23 21 13 23-2131	EA	3" Copper Tee, Grooved	146.61	32.13
23 21 13 23-2132	EA	4" Copper Tee, Grooved	263.72	41.53
23 21 13 23-2133	EA	5" Copper Tee, Grooved	903.35	54.32
23 21 13 23-2134	EA	6" Copper Tee, Grooved	760.22	67.98
23 21 13 23-2135	EA	8" Copper Tee, Grooved	1,279.81	82.54



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2136				Grooved Reducing Tees (23 21 13 23-2111)		
			EA	2-1/2" Copper Tee, Reducing, Grooved.....	134.86	26.18
			EA	3" Copper Tee, Reducing, Grooved.....	204.29	32.13
			EA	4" Copper Tee, Reducing, Grooved.....	320.38	41.62
			EA	5" Copper Tee, Reducing, Grooved.....	832.77	54.41
			EA	6" Copper Tee, Reducing, Grooved.....	1,019.97	67.98
23 21 13 23-2142				Grooved X Cup Reducing Tees (23 21 13 23-2111)		
			EA	2" Copper Tee, Reducing, Grooved X Cup.....	109.34	21.30
			EA	2-1/2" Copper Tee, Reducing, Grooved X Cup.....	135.16	26.18
			EA	3" Copper Tee, Reducing, Grooved X Cup.....	217.36	32.13
			EA	4" Copper Tee, Reducing, Grooved X Cup.....	320.38	41.53
23 21 13 23-2147				Grooved Flanged Adapter Nipples (23 21 13 23-2111)		
			EA	2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	168.79	15.71
			EA	2-1/2" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	181.12	19.09
			EA	3" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	195.33	22.81
			EA	4" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	225.60	30.71
			EA	5" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	295.04	37.19
			EA	6" Copper Flanged Adapter Nipples With Groove Gasket, ANSI CL 125 And 150.....	340.60	50.24
23 21 13 23-2154				Grooved Concentric Reducers (23 21 13 23-2111)		
			EA	2-1/2" x 2" Copper Concentric Reducer, Grooved.....	78.02	16.16
			EA	3" x 2" Copper Concentric Reducer, Grooved.....	81.57	18.02
			EA	3" x 2-1/2" Copper Concentric Reducer, Grooved.....	88.45	21.39
			EA	4" x 2" Copper Concentric Reducer, Grooved.....	136.32	21.57
			EA	4" x 2-1/2" Copper Concentric Reducer, Grooved.....	139.43	23.08
			EA	4" x 3" Copper Concentric Reducer, Grooved.....	142.97	24.85
			EA	5" x 3" Copper Concentric Reducer, Grooved.....	319.18	28.40
			EA	5" x 4" Copper Concentric Reducer, Grooved.....	326.28	31.95
			EA	6" x 3" Copper Concentric Reducer, Grooved.....	351.48	33.73
			EA	6" x 4" Copper Concentric Reducer, Grooved.....	358.58	37.28
			EA	6" x 5" Copper Concentric Reducer, Grooved.....	365.69	40.83
			EA	8" x 6" Copper Concentric Reducer, Grooved.....	599.63	50.59
23 21 13 23-2167				Grooved X Cup Concentric Reducers (23 21 13 23-2111)		
			EA	2" x 1" Copper Concentric Reducer, Grooved X Cup.....	60.41	11.36
			EA	2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....	61.30	11.80
			EA	2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	64.01	13.14
			EA	2-1/2" x 1" Copper Concentric Reducer, Grooved X Cup.....	71.55	12.69
			EA	2-1/2" x 1-1/4" Copper Concentric Reducer, Grooved X Cup.....	72.43	13.14
			EA	2-1/2" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	75.05	14.47
			EA	2-1/2" x 2" Copper Concentric Reducer, Grooved X Cup.....	78.60	16.16
			EA	3" x 1-1/2" Copper Concentric Reducer, Grooved X Cup.....	89.78	16.16
			EA	3" x 2" Copper Concentric Reducer, Grooved X Cup.....	93.33	18.02
			EA	4" x 2" Copper Concentric Reducer, Grooved X Cup.....	149.54	21.48
23 21 13 23-2178				Grooved Standard Couplings (23 21 13 23-2111)		
			EA	2" Copper Standard Coupling, Grooved.....	25.47	7.27
			EA	2-1/2" Copper Standard Coupling, Grooved.....	30.24	8.87
			EA	3" Copper Standard Coupling, Grooved.....	34.94	10.56
			EA	4" Copper Standard Coupling, Grooved.....	49.44	14.20
			EA	5" Copper Standard Coupling, Grooved.....	71.37	17.66
			EA	6" Copper Standard Coupling, Grooved.....	93.82	23.08
			EA	8" Copper Standard Coupling, Grooved.....	129.13	27.52
23 21 13 23-2186				Grooved Caps (23 21 13 23-2111)		
			EA	2" Copper Cap, Grooved.....	36.43	7.27
			EA	2-1/2" Copper Cap, Grooved.....	50.21	8.87
			EA	3" Copper Cap, Grooved.....	61.48	10.56
			EA	4" Copper Cap, Grooved.....	88.84	14.12
			EA	5" Copper Cap, Grooved.....	142.75	17.66
			EA	6" Copper Cap, Grooved.....	169.86	23.08
23 21 13 23-2193				Grooved Valves (23 21 13 23-2110)		
23 21 13 23-2194				Grooved Butterfly Valves, Standard Trim, Without Operator (23 21 13 23-2193)		
				Note: Copper body.		
			EA	2" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body.....	453.89	9.50
				For Chain Wheel, Add	43.45	
				For Valve Bracket Insulation, Add	38.20	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2196 EA 3" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	515.26	14.12
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2197 EA 4" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	681.16	18.55
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2198 EA 6" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	907.25	30.45
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2199 EA 8" Butterfly Valve, Grooved, With Standard Trim, Without Operator, Copper Body	997.40	42.78
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2200 Grooved Butterfly Valves, Standard Trim, With Operator <small>(23 21 13 23-2193)</small>		
Note: Copper body.		
23 21 13 23-2201 EA 2" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	555.12	9.50
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2202 EA 3" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	616.57	14.12
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2203 EA 4" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	782.46	18.55
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2204 EA 6" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	1,008.62	30.45
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2205 EA 8" Butterfly Valve, Grooved, With Standard Trim, With Operator, Copper Body	1,098.71	42.78
For Chain Wheel, Add	43.45	
For Valve Bracket Insulation, Add	38.20	
23 21 13 23-2206 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings <small>(23 21 13 23)</small>		
Note: Socket or back weld.		
23 21 13 23-2207 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings <small>(23 21 13 23-2206)</small>		
Note: ASTM D1785 with D2466 fittings.		
23 21 13 23-2208 Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe <small>(23 21 13 23-2207)</small>		
23 21 13 23-2209 LF 1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	4.14	2.54
For Work In Restricted Working Space, Add	1.14	
23 21 13 23-2210 LF 3/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	5.19	3.17
For Work In Restricted Working Space, Add	1.43	
23 21 13 23-2211 LF 1" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	5.69	3.38
For Work In Restricted Working Space, Add	1.52	
23 21 13 23-2212 LF 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	6.27	3.64
For Work In Restricted Working Space, Add	1.64	
23 21 13 23-2213 LF 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	6.47	3.70
For Work In Restricted Working Space, Add	1.66	
23 21 13 23-2214 LF 2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	7.91	4.43
For Work In Restricted Working Space, Add	2.00	
23 21 13 23-2215 LF 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	9.89	5.26
For Work In Restricted Working Space, Add	2.37	
23 21 13 23-2216 LF 3" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	12.14	6.37
For Work In Restricted Working Space, Add	2.87	
23 21 13 23-2217 LF 4" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	18.05	9.54
For Work In Restricted Working Space, Add	4.30	
23 21 13 23-2218 LF 6" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	25.61	12.73
For Work In Restricted Working Space, Add	5.73	
23 21 13 23-2219 LF 8" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	32.65	15.17
For Work In Restricted Working Space, Add	6.83	
23 21 13 23-2220 LF 10" Schedule 40 Polyvinyl Chloride (PVC) Pressure Pipe	55.68	16.94
For Work In Restricted Working Space, Add	7.61	
23 21 13 23-2221 Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <small>(23 21 13 23-2207)</small>		
23 21 13 23-2222 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	14.71	9.59
For Work In Restricted Working Space, Add	4.30	
23 21 13 23-2223 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	19.63	12.69
For Work In Restricted Working Space, Add	5.73	
23 21 13 23-2224 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	24.63	15.80
For Work In Restricted Working Space, Add	7.10	
23 21 13 23-2225 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	35.27	22.37
For Work In Restricted Working Space, Add	10.05	
23 21 13 23-2226 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	39.66	25.20
For Work In Restricted Working Space, Add	11.33	
23 21 13 23-2227 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	50.94	32.05
For Work In Restricted Working Space, Add	14.39	
23 21 13 23-2228 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	80.03	47.40
For Work In Restricted Working Space, Add	21.30	
23 21 13 23-2229 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	104.28	62.31
For Work In Restricted Working Space, Add	28.03	
23 21 13 23-2230 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows	130.33	74.02
For Work In Restricted Working Space, Add	33.29	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2231 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	173.19 38.04	84.59
23 21 13 23-2232 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	267.39 44.38	98.70
23 21 13 23-2233 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	399.58 66.17	147.16
23 21 13 23-2234 Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <small>(23 21 13 23-2207)</small>		
23 21 13 23-2235 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	14.90 4.30	9.59
23 21 13 23-2236 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	20.02 5.73	12.69
23 21 13 23-2237 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	25.17 7.10	15.80
23 21 13 23-2238 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	35.61 10.05	22.37
23 21 13 23-2239 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	40.43 11.33	25.20
23 21 13 23-2240 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	51.44 14.39	32.05
23 21 13 23-2241 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	80.03 21.30	47.40
23 21 13 23-2242 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	107.52 28.03	62.31
23 21 13 23-2243 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	136.23 33.29	74.02
23 21 13 23-2244 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	173.73 38.04	84.59
23 21 13 23-2245 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	260.87 44.38	98.70
23 21 13 23-2246 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i>	399.58 66.17	147.16
23 21 13 23-2247 Schedule 40 Polyvinyl Chloride (PVC) Tees <small>(23 21 13 23-2207)</small>		
23 21 13 23-2248 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	24.12 7.10	15.80
23 21 13 23-2249 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	29.13 8.59	19.09
23 21 13 23-2250 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	38.74 11.33	25.20
23 21 13 23-2251 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	49.51 14.39	32.05
23 21 13 23-2252 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	59.15 17.18	38.16
23 21 13 23-2253 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	73.74 21.30	47.40
23 21 13 23-2254 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	102.54 28.03	62.31
23 21 13 23-2255 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	122.88 33.29	74.02
23 21 13 23-2256 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	169.55 44.38	98.70
23 21 13 23-2257 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	263.74 57.26	127.27
23 21 13 23-2258 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	405.74 71.00	157.90
23 21 13 23-2259 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i>	1,015.25 106.12	235.92
23 21 13 23-2260 Schedule 40 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2207)</small>		
23 21 13 23-2261 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	30.32 8.88	19.70
23 21 13 23-2262 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	36.58 10.74	23.88
23 21 13 23-2263 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	48.72 14.16	31.51
23 21 13 23-2264 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	62.40 17.99	40.03
23 21 13 23-2265 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	74.54 21.47	47.75
23 21 13 23-2266 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	93.06 26.63	59.20
23 21 13 23-2267 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	131.06 35.03	77.92
23 21 13 23-2268 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	157.37 41.60	92.48
23 21 13 23-2269 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	218.79 55.47	123.37
23 21 13 23-2270 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Crosses <i>For Work In Restricted Working Space, Add</i>	352.73 71.55	159.05

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2271 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Crosses.....	560.72	197.22
<i>For Work In Restricted Working Space, Add</i>	88.71	
23 21 13 23-2272 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Crosses.....	1,479.37	295.03
<i>For Work In Restricted Working Space, Add</i>	132.71	
23 21 13 23-2273 Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts <small>(23 21 13 23-2207)</small>		
23 21 13 23-2274 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	15.20	
<i>For Work In Restricted Working Space, Add</i>	4.46	
23 21 13 23-2275 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	19.74	
<i>For Work In Restricted Working Space, Add</i>	5.70	
23 21 13 23-2276 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	26.36	
<i>For Work In Restricted Working Space, Add</i>	7.62	
23 21 13 23-2277 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	32.67	
<i>For Work In Restricted Working Space, Add</i>	9.50	
23 21 13 23-2278 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	39.81	
<i>For Work In Restricted Working Space, Add</i>	11.43	
23 21 13 23-2279 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	55.58	
<i>For Work In Restricted Working Space, Add</i>	15.86	
23 21 13 23-2280 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	77.13	
<i>For Work In Restricted Working Space, Add</i>	21.92	
23 21 13 23-2281 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	99.98	
<i>For Work In Restricted Working Space, Add</i>	27.25	
23 21 13 23-2282 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	128.39	
<i>For Work In Restricted Working Space, Add</i>	31.70	
23 21 13 23-2283 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	252.81	
<i>For Work In Restricted Working Space, Add</i>	36.63	
23 21 13 23-2284 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Reducing Inserts.....	308.89	
<i>For Work In Restricted Working Space, Add</i>	49.13	
23 21 13 23-2285 Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <small>(23 21 13 23-2207)</small>		
23 21 13 23-2286 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts.....	15.13	9.59
<i>For Work In Restricted Working Space, Add</i>	4.30	
23 21 13 23-2287 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts.....	19.90	12.69
<i>For Work In Restricted Working Space, Add</i>	5.73	
23 21 13 23-2288 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts.....	24.66	15.80
<i>For Work In Restricted Working Space, Add</i>	7.10	
23 21 13 23-2289 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts.....	35.03	22.37
<i>For Work In Restricted Working Space, Add</i>	10.05	
23 21 13 23-2290 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts.....	39.55	25.20
<i>For Work In Restricted Working Space, Add</i>	11.33	
23 21 13 23-2291 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts.....	50.40	32.05
<i>For Work In Restricted Working Space, Add</i>	14.39	
23 21 13 23-2292 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts.....	74.51	47.40
<i>For Work In Restricted Working Space, Add</i>	21.30	
23 21 13 23-2293 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts.....	97.48	62.31
<i>For Work In Restricted Working Space, Add</i>	28.03	
23 21 13 23-2294 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Threaded Reducing Inserts.....	120.10	74.02
<i>For Work In Restricted Working Space, Add</i>	33.29	
23 21 13 23-2295 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <small>(23 21 13 23-2207)</small>		
23 21 13 23-2296 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	15.40	9.59
<i>For Work In Restricted Working Space, Add</i>	4.30	
23 21 13 23-2297 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	20.17	12.69
<i>For Work In Restricted Working Space, Add</i>	5.73	
23 21 13 23-2298 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	25.20	15.80
<i>For Work In Restricted Working Space, Add</i>	7.10	
23 21 13 23-2299 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	35.34	22.37
<i>For Work In Restricted Working Space, Add</i>	10.05	
23 21 13 23-2300 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	40.24	25.20
<i>For Work In Restricted Working Space, Add</i>	11.33	
23 21 13 23-2301 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	51.02	32.05
<i>For Work In Restricted Working Space, Add</i>	14.39	
23 21 13 23-2302 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	75.21	47.40
<i>For Work In Restricted Working Space, Add</i>	21.30	
23 21 13 23-2303 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	99.61	62.31
<i>For Work In Restricted Working Space, Add</i>	28.03	
23 21 13 23-2304 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters.....	118.86	74.02
<i>For Work In Restricted Working Space, Add</i>	33.29	
23 21 13 23-2305 Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <small>(23 21 13 23-2207)</small>		
23 21 13 23-2306 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	14.71	9.59
<i>For Work In Restricted Working Space, Add</i>	4.30	
23 21 13 23-2307 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	19.59	12.69
<i>For Work In Restricted Working Space, Add</i>	5.73	
23 21 13 23-2308 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters.....	24.24	15.80
<i>For Work In Restricted Working Space, Add</i>	7.10	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2309 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	34.42 10.05	22.37
23 21 13 23-2310 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	38.85 11.33	25.20
23 21 13 23-2311 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	49.44 14.39	32.05
23 21 13 23-2312 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	77.37 21.30	47.40
23 21 13 23-2313 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	102.00 28.03	62.31
23 21 13 23-2314 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	125.11 33.29	74.02
23 21 13 23-2315 Schedule 40 Polyvinyl Chloride (PVC) P-Traps (23 21 13 23-2207)		
23 21 13 23-2316 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) P-Traps..... <i>For Work In Restricted Working Space, Add</i>	22.35 5.86	13.05
23 21 13 23-2317 Schedule 40 Polyvinyl Chloride (PVC) Couplings (23 21 13 23-2207)		
23 21 13 23-2318 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	14.55 4.30	9.59
23 21 13 23-2319 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	19.40 5.73	12.69
23 21 13 23-2320 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	24.24 7.10	15.80
23 21 13 23-2321 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	34.26 10.05	22.37
23 21 13 23-2322 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	38.62 11.33	25.20
23 21 13 23-2323 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	49.28 14.39	32.05
23 21 13 23-2324 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	73.93 21.30	47.40
23 21 13 23-2325 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	98.02 28.03	62.31
23 21 13 23-2326 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	117.63 33.29	74.02
23 21 13 23-2327 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	147.94 38.04	84.59
23 21 13 23-2328 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	187.45 44.38	98.70
23 21 13 23-2329 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i>	339.97 47.57	105.79
23 21 13 23-2330 Schedule 40 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2207)		
23 21 13 23-2331 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	25.69 7.10	15.80
23 21 13 23-2332 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	35.15 8.59	19.09
23 21 13 23-2333 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	45.06 11.33	25.20
23 21 13 23-2334 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	65.73 14.39	32.05
23 21 13 23-2335 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	75.79 17.18	38.16
23 21 13 23-2336 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	95.97 21.30	47.40
23 21 13 23-2337 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	138.74 28.03	62.31
23 21 13 23-2338 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	158.97 33.29	74.02
23 21 13 23-2339 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	243.15 44.38	98.70
23 21 13 23-2340 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	318.43 57.24	127.27
23 21 13 23-2341 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	447.14 70.97	157.81
23 21 13 23-2342 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	640.84 88.12	195.88
23 21 13 23-2343 Schedule 40 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2207)		
23 21 13 23-2344 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	14.79 4.34	9.70
23 21 13 23-2345 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	19.48 5.73	12.69
23 21 13 23-2346 EA 1" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	24.28 7.10	15.80
23 21 13 23-2347 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i>	34.73 10.16	22.63

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2348 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	38.70 11.33	25.20
23 21 13 23-2349 EA 2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	49.09 14.39	32.05
23 21 13 23-2350 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	74.67 21.30	47.40
23 21 13 23-2351 EA 3" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	97.41 28.03	62.31
23 21 13 23-2352 EA 4" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	120.06 33.29	74.02
23 21 13 23-2353 EA 6" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	148.60 38.04	84.59
23 21 13 23-2354 EA 8" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	220.88 44.38	98.70
23 21 13 23-2355 EA 10" Schedule 40 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i>	428.49 47.57	105.79
23 21 13 23-2356 Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges <small>(23 21 13 23-2207)</small>		
23 21 13 23-2357 EA 1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Socket Weld Flanges..... <i>For Work In Restricted Working Space, Add</i>	31.42 7.10	15.80
23 21 13 23-2358 EA 3/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	40.52 8.59	19.09
23 21 13 23-2359 EA 1" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	51.01 11.33	25.20
23 21 13 23-2360 EA 1-1/4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	61.59 14.39	32.05
23 21 13 23-2361 EA 1-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	71.19 17.18	38.16
23 21 13 23-2362 EA 2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	89.53 21.30	47.40
23 21 13 23-2363 EA 2-1/2" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	122.03 28.03	62.31
23 21 13 23-2364 EA 3" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	142.52 33.29	74.02
23 21 13 23-2365 EA 4" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	187.92 44.38	98.70
23 21 13 23-2366 EA 6" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	253.66 57.24	127.27
23 21 13 23-2367 EA 8" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	378.40 70.97	157.81
23 21 13 23-2368 EA 10" Schedule 40 Polyvinyl Chloride (PVC) 150 LB Flanges..... <i>For Work In Restricted Working Space, Add</i>	612.98 87.98	195.62
23 21 13 23-2369 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe And Fittings <small>(23 21 13 23-2206)</small> Note: ASTM D1785 with D2467 fittings.		
23 21 13 23-2370 Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <small>(23 21 13 23-2369)</small>		
23 21 13 23-2371 LF 1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	4.24 1.14	2.58
23 21 13 23-2372 LF 3/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	5.31 1.43	3.20
23 21 13 23-2373 LF 1" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.51 1.71	3.81
23 21 13 23-2374 LF 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.76 2.00	4.44
23 21 13 23-2375 LF 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	8.93 2.29	5.06
23 21 13 23-2376 LF 2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	11.45 2.87	6.39
23 21 13 23-2377 LF 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	13.33 3.15	7.01
23 21 13 23-2378 LF 3" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	15.21 3.44	7.64
23 21 13 23-2379 LF 4" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	19.84 4.30	9.59
23 21 13 23-2380 LF 6" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	29.58 5.73	12.69
23 21 13 23-2381 LF 8" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	38.74 6.83	15.17
23 21 13 23-2382 LF 10" Schedule 80 Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	73.75 7.35	16.33
23 21 13 23-2383 Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <small>(23 21 13 23-2369)</small>		
23 21 13 23-2384 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	15.71 4.30 2.15	9.59
23 21 13 23-2385 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	20.90 5.73 2.86	12.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2386 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	26.59 7.10 3.55	15.80
23 21 13 23-2387 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	37.39 10.05 5.02	22.37
23 21 13 23-2388 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	41.94 11.33 5.67	25.20
23 21 13 23-2389 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	53.03 14.39 7.20	32.05
23 21 13 23-2390 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	82.85 21.30 10.65	47.40
23 21 13 23-2391 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	106.75 28.03 14.01	62.31
23 21 13 23-2392 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	131.18 33.29 16.64	74.02
23 21 13 23-2393 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	199.86 38.04 19.02	84.59
23 21 13 23-2394 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	306.76 44.38 22.19	98.70
23 21 13 23-2395 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 90 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	427.05 74.41 37.20	165.44
23 21 13 23-2396 Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows (23 21 13 23-2369)		
23 21 13 23-2397 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	16.98 4.30 2.15	9.59
23 21 13 23-2398 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	23.14 5.73 2.86	12.69
23 21 13 23-2399 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	29.76 7.10 3.55	15.80
23 21 13 23-2400 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	41.29 10.05 5.02	22.37
23 21 13 23-2401 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	46.96 11.33 5.67	25.20
23 21 13 23-2402 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	59.90 14.39 7.20	32.05
23 21 13 23-2403 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	96.09 21.30 10.65	47.40
23 21 13 23-2404 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	123.96 28.03 14.01	62.31
23 21 13 23-2405 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	165.96 33.29 16.64	74.02
23 21 13 23-2406 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	196.04 38.04 19.02	84.59
23 21 13 23-2407 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	298.09 44.38 22.19	98.70
23 21 13 23-2408 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 45 Degree Elbows <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	417.29 74.41 37.20	165.44
23 21 13 23-2409 Schedule 80 Polyvinyl Chloride (PVC) Tees (23 21 13 23-2369)		
23 21 13 23-2410 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	26.45 6.74 3.37	15.00
23 21 13 23-2411 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	32.80 8.59 4.29	19.09
23 21 13 23-2412 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	42.98 11.33 5.67	25.20
23 21 13 23-2413 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Tees <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	62.37 14.39 7.20	32.05

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2414 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.66 17.18 8.59	38.16
23 21 13 23-2415 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	89.03 21.30 10.65	47.40
23 21 13 23-2416 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	113.04 28.03 14.01	62.31
23 21 13 23-2417 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	135.42 33.29 16.64	74.02
23 21 13 23-2418 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	176.30 44.38 22.19	98.70
23 21 13 23-2419 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	287.79 57.26 28.63	127.27
23 21 13 23-2420 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	461.49 71.00 35.50	157.90
23 21 13 23-2421 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Tees..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,015.29 106.12 53.06	235.92
23 21 13 23-2422 Schedule 80 Polyvinyl Chloride (PVC) Crosses <small>(23 21 13 23-2369)</small>		
23 21 13 23-2423 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	34.32 8.43 4.21	18.72
23 21 13 23-2424 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	42.32 10.74 5.37	23.88
23 21 13 23-2425 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	55.38 14.16 7.08	31.51
23 21 13 23-2426 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	82.55 17.99 9.00	40.03
23 21 13 23-2427 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	94.15 21.47 10.74	47.75
23 21 13 23-2428 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	117.02 26.63 13.31	59.20
23 21 13 23-2429 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	147.52 35.03 17.52	77.92
23 21 13 23-2430 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	177.04 41.60 20.80	92.48
23 21 13 23-2431 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	229.39 55.47 27.74	123.37
23 21 13 23-2432 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	390.43 71.55 35.77	159.05
23 21 13 23-2433 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	648.11 88.71 44.36	197.22
23 21 13 23-2434 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Crosses..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	1,479.44 132.71 66.35	295.03
23 21 13 23-2435 Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts <small>(23 21 13 23-2369)</small>		
23 21 13 23-2436 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	19.90 5.73	12.69
23 21 13 23-2437 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	26.01 7.10	15.80
23 21 13 23-2438 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	37.20 10.05	22.37
23 21 13 23-2439 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	42.83 11.33	25.20
23 21 13 23-2440 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	55.19 14.39	32.05
23 21 13 23-2441 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	83.51 21.30	47.40
23 21 13 23-2442 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	113.31 28.03	62.31
23 21 13 23-2443 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	138.51 33.29	74.02
23 21 13 23-2444 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	157.36 38.04	84.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2445 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	215.78 44.38	98.70
23 21 13 23-2446 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	316.97 51.56	114.59
23 21 13 23-2447 Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts <small>(23 21 13 23-2369)</small>		
23 21 13 23-2448 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	14.59 4.30	9.59
23 21 13 23-2449 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	20.60 5.73	12.69
23 21 13 23-2450 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	26.01 7.10	15.80
23 21 13 23-2451 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	38.28 10.05	22.37
23 21 13 23-2452 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	43.79 11.33	25.20
23 21 13 23-2453 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	55.34 14.39	32.05
23 21 13 23-2454 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	86.59 21.30	47.40
23 21 13 23-2455 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	122.30 28.03	62.31
23 21 13 23-2456 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Threaded Reducing Inserts..... <i>For Work In Restricted Working Space, Add</i>	155.34 33.29	74.02
23 21 13 23-2457 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters <small>(23 21 13 23-2369)</small>		
23 21 13 23-2458 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	17.60 4.30	9.59
23 21 13 23-2459 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	22.72 5.73	12.69
23 21 13 23-2460 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	29.99 7.10	15.80
23 21 13 23-2461 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	40.90 10.05	22.37
23 21 13 23-2462 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	48.42 11.33	25.20
23 21 13 23-2463 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	61.87 14.39	32.05
23 21 13 23-2464 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	86.82 21.30	47.40
23 21 13 23-2465 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	110.99 28.03	62.31
23 21 13 23-2466 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Male Adapters..... <i>For Work In Restricted Working Space, Add</i>	142.18 33.29	74.02
23 21 13 23-2467 Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters <small>(23 21 13 23-2369)</small>		
23 21 13 23-2468 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	16.71 4.30	9.59
23 21 13 23-2469 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	22.64 5.73	12.69
23 21 13 23-2470 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	28.91 7.10	15.80
23 21 13 23-2471 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	42.02 10.05	22.37
23 21 13 23-2472 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	48.23 11.33	25.20
23 21 13 23-2473 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	66.19 14.39	32.05
23 21 13 23-2474 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	99.79 21.30	47.40
23 21 13 23-2475 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	125.85 28.03	62.31
23 21 13 23-2476 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Socket Weld X Threaded Female Adapters..... <i>For Work In Restricted Working Space, Add</i>	166.68 33.29	74.02
23 21 13 23-2477 Schedule 80 Polyvinyl Chloride (PVC) Couplings <small>(23 21 13 23-2369)</small>		
23 21 13 23-2478 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	16.87 4.30 2.15	9.59
23 21 13 23-2479 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	22.53 5.73 2.86	12.69
23 21 13 23-2480 EA 1" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	27.21 7.10 3.55	15.80

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21	13 23-2481	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	38.93 10.05 5.02	22.37
23 21	13 23-2482	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	43.64 11.33 5.67	25.20
23 21	13 23-2483	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	54.22 14.39 7.20	32.05
23 21	13 23-2484	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	86.48 21.30 10.65	47.40
23 21	13 23-2485	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	111.22 28.03 14.01	62.31
23 21	13 23-2486	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	133.26 33.29 16.64	74.02
23 21	13 23-2487	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	174.77 38.04 19.02	84.59
23 21	13 23-2488	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	213.24 44.38 22.19	98.70
23 21	13 23-2489	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Couplings..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	351.55 47.57 23.79	105.79
23 21	13 23-2490		Schedule 80 Polyvinyl Chloride (PVC) Unions (23 21 13 23-2369)		
23 21	13 23-2491	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	29.37 7.10	15.80
23 21	13 23-2492	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	35.23 8.59	19.09
23 21	13 23-2493	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	45.30 11.33	25.20
23 21	13 23-2494	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	66.81 14.39	32.05
23 21	13 23-2495	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	81.50 17.18	38.16
23 21	13 23-2496	EA	2" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	103.85 21.30	47.40
23 21	13 23-2497	EA	2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	154.59 28.03	62.31
23 21	13 23-2498	EA	3" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	189.78 33.29	74.02
23 21	13 23-2499	EA	4" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	243.38 44.38	98.70
23 21	13 23-2500	EA	6" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	318.43 57.24	127.27
23 21	13 23-2501	EA	8" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	447.14 70.97	157.81
23 21	13 23-2502	EA	10" Schedule 80 Polyvinyl Chloride (PVC) Unions..... <i>For Work In Restricted Working Space, Add</i>	640.38 87.98	195.62
23 21	13 23-2503		Schedule 80 Threaded Polyvinyl Chloride (PVC) Unions (23 21 13 23-2369)		
23 21	13 23-2504	EA	1/2", Scheduler 80, Threaded Polyvinyl Chloride (PVC) Union.....	33.87	19.72
23 21	13 23-2505	EA	3/4", Scheduler 80, Threaded Polyvinyl Chloride (PVC) Union.....	40.17	22.81
23 21	13 23-2506	EA	1", Scheduler 80, Threaded Polyvinyl Chloride (PVC) Union.....	48.40	26.89
23 21	13 23-2507	EA	1-1/4", Scheduler 80, Threaded Polyvinyl Chloride (PVC) Union.....	63.30	32.05
23 21	13 23-2508	EA	1-1/2", Scheduler 80, Threaded Polyvinyl Chloride (PVC) Union.....	76.16	38.16
23 21	13 23-2509	EA	2", Scheduler 80, Threaded Polyvinyl Chloride (PVC) Union.....	99.85	47.40
23 21	13 23-2510	EA	3", Scheduler 80, Threaded Polyvinyl Chloride (PVC) Union.....	210.85	91.86
23 21	13 23-2511	EA	4", Scheduler 80, Threaded Polyvinyl Chloride (PVC) Union.....	229.42	101.89
23 21	13 23-2512		Schedule 80 Polyvinyl Chloride (PVC) Caps (23 21 13 23-2369)		
23 21	13 23-2513	EA	1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	17.91 4.30 2.15	9.59
23 21	13 23-2514	EA	3/4" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	22.87 5.73 2.86	12.69
23 21	13 23-2515	EA	1" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	30.38 7.10 3.55	15.80
23 21	13 23-2516	EA	1-1/4" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	41.60 10.05 5.02	22.37
23 21	13 23-2517	EA	1-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps..... <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	45.88 11.33 5.67	25.20



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2518 EA 2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	60.13 14.39 7.20	32.05
23 21 13 23-2519 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	95.97 21.30 10.65	47.40
23 21 13 23-2520 EA 3" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	123.96 28.03 14.01	62.31
23 21 13 23-2521 EA 4" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	160.05 33.29 16.64	74.02
23 21 13 23-2522 EA 6" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	248.76 38.04 19.02	84.59
23 21 13 23-2523 EA 8" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	315.48 44.38 22.19	98.70
23 21 13 23-2524 EA 10" Schedule 80 Polyvinyl Chloride (PVC) Caps <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	467.08 47.57 23.79	105.79
23 21 13 23-2525 Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges (23 21 13 23-2369)		
23 21 13 23-2526 EA 1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	34.74 7.10 3.55	15.80
23 21 13 23-2527 EA 3/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	40.52 8.59 4.29	19.09
23 21 13 23-2528 EA 1" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	51.01 11.33 5.67	25.20
23 21 13 23-2529 EA 1-1/4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	61.59 14.39 7.20	32.05
23 21 13 23-2530 EA 1-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	71.19 17.18 8.59	38.16
23 21 13 23-2531 EA 2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	89.53 21.30 10.65	47.40
23 21 13 23-2532 EA 2-1/2" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	122.03 28.03 14.01	62.31
23 21 13 23-2533 EA 3" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	142.52 33.29 16.64	74.02
23 21 13 23-2534 EA 4" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	187.92 44.38 22.19	98.70
23 21 13 23-2535 EA 6" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	253.67 57.24 28.62	127.27
23 21 13 23-2536 EA 8" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	378.40 70.97 35.48	157.81
23 21 13 23-2537 EA 10" Schedule 80 Polyvinyl Chloride (PVC) 150 LB Flanges <i>For Work In Restricted Working Space, Add</i> <i>For Threaded Fittings, Add</i>	612.98 87.98 43.99	195.62
23 21 13 23-2538 Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe (23 21 13 23-2206)		
Note: In place pipe.		
23 21 13 23-2539 EA 1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	4.82 1.45	
23 21 13 23-2540 EA 3/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	5.21 1.56	
23 21 13 23-2541 EA 1", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	5.85 1.76	
23 21 13 23-2542 EA 1-1/4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.15 1.85	
23 21 13 23-2543 EA 1-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	6.51 1.95	
23 21 13 23-2544 EA 2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.16 2.15	
23 21 13 23-2545 EA 2-1/2", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	7.71 2.31	
23 21 13 23-2546 EA 3", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	9.11 2.73	
23 21 13 23-2547 EA 4", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	12.29 3.69	
23 21 13 23-2548 EA 6", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	17.56 5.27	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2549 EA 8", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	23.42 7.03	
23 21 13 23-2550 EA 10", Cut And Prepare Existing Polyvinyl Chloride (PVC) Pressure Pipe <i>For Work In Restricted Working Space, Add</i>	28.63 8.59	
23 21 13 23-2551 Polyethylene Pipe And Fittings (23 21 13 23)		
23 21 13 23-2552 Small Diameter Tubing (23 21 13 23-2551)		
23 21 13 23-2553 Tubing (23 21 13 23-2552)		
23 21 13 23-2554 LF 1/4" Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	2.75 0.80	
23 21 13 23-2555 LF 5/16" Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	2.86 0.82	
23 21 13 23-2556 LF 3/8" Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	2.95 0.84	
23 21 13 23-2557 LF 1/2" Polyethylene Tubing <i>For Work In Restricted Working Space, Add</i>	3.14 0.91	
23 21 13 23-2558 Chrome Plated Pipe (23 21 13 23)		
23 21 13 23-2559 Chrome Plated Nipples (23 21 13 23-2558)		
23 21 13 23-2560 Close (23 21 13 23-2559)		
23 21 13 23-2561 EA 1/4" Diameter Chrome Plated Nipple, Close 23 21 13 23-2562 EA 3/8" Diameter Chrome Plated Nipple, Close 23 21 13 23-2563 EA 1/2" Diameter Chrome Plated Nipple, Close 23 21 13 23-2564 EA 3/4" Diameter Chrome Plated Nipple, Close 23 21 13 23-2565 EA 1" Diameter Chrome Plated Nipple, Close 23 21 13 23-2566 EA 1-1/4" Diameter Chrome Plated Nipple, Close 23 21 13 23-2567 EA 1-1/2" Diameter Chrome Plated Nipple, Close 23 21 13 23-2568 EA 2" Diameter Chrome Plated Nipple, Close	18.69 17.38 21.97 29.04 39.04 55.43 68.19 88.49	7.71 8.39 9.63 12.24 16.09 22.46 26.31 32.77
23 21 13 23-2569 1-1/2" Nipples (23 21 13 23-2559)		
23 21 13 23-2570 EA 1/4" Diameter Chrome Plated Nipple, 1-1/2" Length 23 21 13 23-2571 EA 3/8" Diameter Chrome Plated Nipple, 1-1/2" Length 23 21 13 23-2572 EA 1/2" Diameter Chrome Plated Nipple, 1-1/2" Length 23 21 13 23-2573 EA 3/4" Diameter Chrome Plated Nipple, 1-1/2" Length	20.05 18.42 22.48 30.12	8.00 8.68 9.93 12.53
23 21 13 23-2574 2" Nipples (23 21 13 23-2559)		
23 21 13 23-2575 EA 1/4" Diameter Chrome Plated Nipple, 2" Length 23 21 13 23-2576 EA 3/8" Diameter Chrome Plated Nipple, 2" Length 23 21 13 23-2577 EA 1/2" Diameter Chrome Plated Nipple, 2" Length 23 21 13 23-2578 EA 3/4" Diameter Chrome Plated Nipple, 2" Length 23 21 13 23-2579 EA 1" Diameter Chrome Plated Nipple, 2" Length 23 21 13 23-2580 EA 1-1/4" Diameter Chrome Plated Nipple, 2" Length 23 21 13 23-2581 EA 1-1/2" Diameter Chrome Plated Nipple, 2" Length	20.87 19.05 24.43 31.79 41.43 59.55 73.02	8.39 8.96 10.31 12.82 16.67 23.13 26.98
23 21 13 23-2582 2-1/2" Nipples (23 21 13 23-2559)		
23 21 13 23-2583 EA 1/4" Diameter Chrome Plated Nipple, 2-1/2" Length 23 21 13 23-2584 EA 3/8" Diameter Chrome Plated Nipple, 2-1/2" Length 23 21 13 23-2585 EA 1/2" Diameter Chrome Plated Nipple, 2-1/2" Length 23 21 13 23-2586 EA 3/4" Diameter Chrome Plated Nipple, 2-1/2" Length 23 21 13 23-2587 EA 1" Diameter Chrome Plated Nipple, 2-1/2" Length 23 21 13 23-2588 EA 1-1/4" Diameter Chrome Plated Nipple, 2-1/2" Length 23 21 13 23-2589 EA 1-1/2" Diameter Chrome Plated Nipple, 2-1/2" Length 23 21 13 23-2590 EA 2" Diameter Chrome Plated Nipple, 2-1/2" Length	22.15 19.75 25.56 32.54 42.70 63.67 78.58 100.49	8.68 9.35 10.60 13.21 17.06 23.42 27.28 33.73
23 21 13 23-2591 3" Nipples (23 21 13 23-2559)		
23 21 13 23-2592 EA 1/4" Diameter Chrome Plated Nipple, 3" Length 23 21 13 23-2593 EA 3/8" Diameter Chrome Plated Nipple, 3" Length 23 21 13 23-2594 EA 1/2" Diameter Chrome Plated Nipple, 3" Length 23 21 13 23-2595 EA 3/4" Diameter Chrome Plated Nipple, 3" Length 23 21 13 23-2596 EA 1" Diameter Chrome Plated Nipple, 3" Length 23 21 13 23-2597 EA 1-1/4" Diameter Chrome Plated Nipple, 3" Length 23 21 13 23-2598 EA 1-1/2" Diameter Chrome Plated Nipple, 3" Length 23 21 13 23-2599 EA 2" Diameter Chrome Plated Nipple, 3" Length	23.09 21.03 25.31 35.50 48.90 68.20 91.89 110.87	8.96 9.63 10.31 13.50 17.35 23.81 27.66 34.12
23 21 13 23-2600 3-1/2" Nipples (23 21 13 23-2559)		
23 21 13 23-2601 EA 1/4" Diameter Chrome Plated Nipple, 3-1/2" Length 23 21 13 23-2602 EA 3/8" Diameter Chrome Plated Nipple, 3-1/2" Length 23 21 13 23-2603 EA 1/2" Diameter Chrome Plated Nipple, 3-1/2" Length 23 21 13 23-2604 EA 3/4" Diameter Chrome Plated Nipple, 3-1/2" Length 23 21 13 23-2605 EA 1" Diameter Chrome Plated Nipple, 3-1/2" Length	24.20 23.36 27.94 39.97 51.21	9.35 9.93 11.27 13.78 17.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2606 EA 1-1/4" Diameter Chrome Plated Nipple, 3-1/2" Length.....	77.21	24.10
23 21 13 23-2607 EA 1-1/2" Diameter Chrome Plated Nipple, 3-1/2" Length.....	95.77	27.95
23 21 13 23-2608 EA 2" Diameter Chrome Plated Nipple, 3-1/2" Length.....	119.12	34.41
23 21 13 23-2609 4" Nipples (23 21 13 23-2559)		
23 21 13 23-2610 EA 1/4" Diameter Chrome Plated Nipple, 4" Length.....	25.27	9.63
23 21 13 23-2611 EA 3/8" Diameter Chrome Plated Nipple, 4" Length.....	23.90	10.31
23 21 13 23-2612 EA 1/2" Diameter Chrome Plated Nipple, 4" Length.....	28.42	10.89
23 21 13 23-2613 EA 3/4" Diameter Chrome Plated Nipple, 4" Length.....	41.62	14.17
23 21 13 23-2614 EA 1" Diameter Chrome Plated Nipple, 4" Length.....	53.37	18.02
23 21 13 23-2615 EA 1-1/4" Diameter Chrome Plated Nipple, 4" Length.....	84.05	24.39
23 21 13 23-2616 EA 1-1/2" Diameter Chrome Plated Nipple, 4" Length.....	103.90	28.24
23 21 13 23-2617 EA 2" Diameter Chrome Plated Nipple, 4" Length.....	129.22	34.70
23 21 13 23-2618 4-1/2" Nipples (23 21 13 23-2559)		
23 21 13 23-2619 EA 1/4" Diameter Chrome Plated Nipple, 4-1/2" Length.....	26.23	9.93
23 21 13 23-2620 EA 3/8" Diameter Chrome Plated Nipple, 4-1/2" Length.....	26.23	10.60
23 21 13 23-2621 EA 1/2" Diameter Chrome Plated Nipple, 4-1/2" Length.....	31.21	11.86
23 21 13 23-2622 EA 3/4" Diameter Chrome Plated Nipple, 4-1/2" Length.....	43.54	14.46
23 21 13 23-2623 EA 1" Diameter Chrome Plated Nipple, 4-1/2" Length.....	61.31	18.31
23 21 13 23-2624 EA 1-1/4" Diameter Chrome Plated Nipple, 4-1/2" Length.....	90.61	24.77
23 21 13 23-2625 EA 1-1/2" Diameter Chrome Plated Nipple, 4-1/2" Length.....	107.44	28.62
23 21 13 23-2626 EA 2" Diameter Chrome Plated Nipple, 4-1/2" Length.....	138.49	35.08
23 21 13 23-2627 5" Nipples (23 21 13 23-2559)		
23 21 13 23-2628 EA 1/4" Diameter Chrome Plated Nipple, 5" Length.....	29.89	10.31
23 21 13 23-2629 EA 3/8" Diameter Chrome Plated Nipple, 5" Length.....	27.62	10.89
23 21 13 23-2630 EA 1/2" Diameter Chrome Plated Nipple, 5" Length.....	32.40	12.24
23 21 13 23-2631 EA 3/4" Diameter Chrome Plated Nipple, 5" Length.....	45.38	14.74
23 21 13 23-2632 EA 1" Diameter Chrome Plated Nipple, 5" Length.....	66.07	18.61
23 21 13 23-2633 EA 1-1/4" Diameter Chrome Plated Nipple, 5" Length.....	96.54	25.06
23 21 13 23-2634 EA 1-1/2" Diameter Chrome Plated Nipple, 5" Length.....	115.59	28.91
23 21 13 23-2635 EA 2" Diameter Chrome Plated Nipple, 5" Length.....	144.42	35.37
23 21 13 23-2636 5-1/2" Nipples (23 21 13 23-2559)		
23 21 13 23-2637 EA 1/4" Diameter Chrome Plated Nipple, 5-1/2" Length.....	30.88	10.60
23 21 13 23-2638 EA 3/8" Diameter Chrome Plated Nipple, 5-1/2" Length.....	28.67	11.27
23 21 13 23-2639 EA 1/2" Diameter Chrome Plated Nipple, 5-1/2" Length.....	36.05	12.53
23 21 13 23-2640 EA 3/4" Diameter Chrome Plated Nipple, 5-1/2" Length.....	47.22	15.14
23 21 13 23-2641 EA 1" Diameter Chrome Plated Nipple, 5-1/2" Length.....	68.47	18.99
23 21 13 23-2642 EA 1-1/4" Diameter Chrome Plated Nipple, 5-1/2" Length.....	103.78	25.34
23 21 13 23-2643 EA 1-1/2" Diameter Chrome Plated Nipple, 5-1/2" Length.....	122.09	29.21
23 21 13 23-2644 EA 2" Diameter Chrome Plated Nipple, 5-1/2" Length.....	152.03	35.66
23 21 13 23-2645 6" Nipples (23 21 13 23-2559)		
23 21 13 23-2646 EA 1/4" Diameter Chrome Plated Nipple, 6" Length.....	32.07	10.89
23 21 13 23-2647 EA 3/8" Diameter Chrome Plated Nipple, 6" Length.....	29.19	11.57
23 21 13 23-2648 EA 1/2" Diameter Chrome Plated Nipple, 6" Length.....	37.14	12.82
23 21 13 23-2649 EA 3/4" Diameter Chrome Plated Nipple, 6" Length.....	48.69	15.42
23 21 13 23-2650 EA 1" Diameter Chrome Plated Nipple, 6" Length.....	76.18	19.28
23 21 13 23-2651 EA 1-1/4" Diameter Chrome Plated Nipple, 6" Length.....	108.13	25.74
23 21 13 23-2652 EA 1-1/2" Diameter Chrome Plated Nipple, 6" Length.....	132.15	29.59
23 21 13 23-2653 EA 2" Diameter Chrome Plated Nipple, 6" Length.....	158.99	36.05
23 21 13 23-2654 8" Nipples (23 21 13 23-2559)		
23 21 13 23-2655 EA 3/8" Diameter Chrome Plated Nipple, 8" Length.....	35.81	12.24
23 21 13 23-2656 EA 1/2" Diameter Chrome Plated Nipple, 8" Length.....	55.78	13.50
23 21 13 23-2657 EA 3/4" Diameter Chrome Plated Nipple, 8" Length.....	68.05	16.09
23 21 13 23-2658 EA 1" Diameter Chrome Plated Nipple, 8" Length.....	91.32	19.95
23 21 13 23-2659 EA 1-1/4" Diameter Chrome Plated Nipple, 8" Length.....	132.43	26.31
23 21 13 23-2660 EA 1-1/2" Diameter Chrome Plated Nipple, 8" Length.....	164.03	30.17
23 21 13 23-2661 EA 2" Diameter Chrome Plated Nipple, 8" Length.....	202.47	36.63
23 21 13 23-2662 10" Nipples (23 21 13 23-2559)		
23 21 13 23-2663 EA 3/8" Diameter Chrome Plated Nipple, 10" Length.....	42.49	12.24
23 21 13 23-2664 EA 1/2" Diameter Chrome Plated Nipple, 10" Length.....	64.20	13.50
23 21 13 23-2665 EA 3/4" Diameter Chrome Plated Nipple, 10" Length.....	77.79	16.09
23 21 13 23-2666 EA 1" Diameter Chrome Plated Nipple, 10" Length.....	106.07	19.95
23 21 13 23-2667 EA 1-1/4" Diameter Chrome Plated Nipple, 10" Length.....	164.00	26.31
23 21 13 23-2668 EA 1-1/2" Diameter Chrome Plated Nipple, 10" Length.....	188.06	30.17
23 21 13 23-2669 EA 2" Diameter Chrome Plated Nipple, 10" Length.....	240.92	36.63

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2670			12" Nipples <small>(23 21 13 23-2559)</small>		
23 21 13 23-2671	EA		3/8" Diameter Chrome Plated Nipple, 12" Length	47.49	13.50
23 21 13 23-2672	EA		1/2" Diameter Chrome Plated Nipple, 12" Length	67.20	14.17
23 21 13 23-2673	EA		3/4" Diameter Chrome Plated Nipple, 12" Length	86.56	16.67
23 21 13 23-2674	EA		1" Diameter Chrome Plated Nipple, 12" Length	125.89	21.20
23 21 13 23-2675	EA		1-1/4" Diameter Chrome Plated Nipple, 12" Length	185.22	27.66
23 21 13 23-2676	EA		2" Diameter Chrome Plated Nipple, 12" Length	273.59	37.98
23 21 13 23-2677			18" Nipples <small>(23 21 13 23-2559)</small>		
23 21 13 23-2678	EA		3/8" Diameter Chrome Plated Nipple, 18" Length	62.50	14.17
23 21 13 23-2679			24" Nipples <small>(23 21 13 23-2559)</small>		
23 21 13 23-2680	EA		3/8" Diameter Chrome Plated Nipple, 24" Length	76.85	14.74
23 21 13 23-2681			30" Nipples <small>(23 21 13 23-2559)</small>		
23 21 13 23-2682	EA		3/8" Diameter Chrome Plated Nipple, 30" Length	85.86	15.42
23 21 13 23-2683			36" Nipples <small>(23 21 13 23-2559)</small>		
23 21 13 23-2684	EA		3/8" Diameter Chrome Plated Nipple, 36" Length	94.88	16.09
23 21 13 23-2685			Chrome Plated Fittings <small>(23 21 13 23-2558)</small>		
23 21 13 23-2686			Chrome Plated 90 Degree Elbows <small>(23 21 13 23-2685)</small>		
23 21 13 23-2687	EA		1/4" 90 Degree Elbow, Chrome Plated.....	24.74	8.96
23 21 13 23-2688	EA		3/8" 90 Degree Elbow, Chrome Plated.....	24.98	9.63
23 21 13 23-2689	EA		1/2" 90 Degree Elbow, Chrome Plated.....	28.41	10.31
23 21 13 23-2690	EA		3/4" 90 Degree Elbow, Chrome Plated.....	36.06	13.50
23 21 13 23-2691	EA		1" 90 Degree Elbow, Chrome Plated	49.50	17.35
23 21 13 23-2692	EA		1-1/4" 90 Degree Elbow, Chrome Plated	77.76	23.81
23 21 13 23-2693	EA		1-1/2" 90 Degree Elbow, Chrome Plated	93.93	27.66
23 21 13 23-2694	EA		2" 90 Degree Elbow, Chrome Plated	130.67	34.12
23 21 13 23-2695			Chrome Plated Street 90 Degree Elbows <small>(23 21 13 23-2685)</small>		
23 21 13 23-2696	EA		1/4" Street 90 Degree Elbow, Chrome Plated.....	29.45	8.96
23 21 13 23-2697	EA		3/8" Street 90 Degree Elbow, Chrome Plated.....	30.14	9.63
23 21 13 23-2698	EA		1/2" Street 90 Degree Elbow, Chrome Plated	32.01	10.31
23 21 13 23-2699	EA		3/4" Street 90 Degree Elbow, Chrome Plated.....	41.35	13.50
23 21 13 23-2700	EA		1" Street 90 Degree Elbow, Chrome Plated	59.28	17.35
23 21 13 23-2701	EA		1-1/4" Street 90 Degree Elbow, Chrome Plated.....	87.77	23.81
23 21 13 23-2702	EA		1-1/2" Street 90 Degree Elbow, Chrome Plated.....	107.96	27.66
23 21 13 23-2703	EA		2" Street 90 Degree Elbow, Chrome Plated	163.70	34.12
23 21 13 23-2704			Chrome Plated 45 Degree Elbows <small>(23 21 13 23-2685)</small>		
23 21 13 23-2705	EA		1/4" 45 Degree Elbow, Chrome Plated.....	25.77	8.96
23 21 13 23-2706	EA		3/8" 45 Degree Elbow, Chrome Plated.....	26.47	9.63
23 21 13 23-2707	EA		1/2" 45 Degree Elbow, Chrome Plated.....	29.48	10.31
23 21 13 23-2708	EA		3/4" 45 Degree Elbow, Chrome Plated.....	40.10	13.50
23 21 13 23-2709	EA		1" 45 Degree Elbow, Chrome Plated	54.03	17.35
23 21 13 23-2710	EA		1-1/4" 45 Degree Elbow, Chrome Plated	83.19	23.81
23 21 13 23-2711	EA		1-1/2" 45 Degree Elbow, Chrome Plated	101.20	27.66
23 21 13 23-2712	EA		2" 45 Degree Elbow, Chrome Plated	150.65	34.12
23 21 13 23-2713			Chrome Plated Street 45 Degree Elbows <small>(23 21 13 23-2685)</small>		
23 21 13 23-2714	EA		1/2" Street 45 Degree Elbow, Chrome Plated.....	35.95	10.31
23 21 13 23-2715			Chrome Plated Couplings <small>(23 21 13 23-2685)</small>		
23 21 13 23-2716	EA		1/4" Coupling, Chrome Plated.....	24.10	8.96
23 21 13 23-2717	EA		3/8" Coupling, Chrome Plated	25.06	9.63
23 21 13 23-2718	EA		1/2" Coupling, Chrome Plated	28.68	10.31
23 21 13 23-2719	EA		3/4" Coupling, Chrome Plated.....	36.16	13.50
23 21 13 23-2720	EA		1" Coupling, Chrome Plated.....	47.27	17.35
23 21 13 23-2721	EA		1-1/4" Coupling, Chrome Plated	69.61	23.81
23 21 13 23-2722	EA		1-1/2" Coupling, Chrome Plated.....	87.11	27.66
23 21 13 23-2723	EA		2" Coupling, Chrome Plated.....	122.35	34.12
23 21 13 23-2724			Chrome Plated Unions <small>(23 21 13 23-2685)</small>		
23 21 13 23-2725	EA		1/4" Union, Chrome Plated.....	41.01	10.31
23 21 13 23-2726	EA		3/8" Union, Chrome Plated.....	41.99	10.89
23 21 13 23-2727	EA		1/2" Union, Chrome Plated.....	51.33	12.24



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 13 23-2728 EA 3/4" Union, Chrome Plated	63.13	16.09
23 21 13 23-2729 EA 1" Union, Chrome Plated	79.70	20.53
23 21 13 23-2730 EA 1-1/4" Union, Chrome Plated	132.43	27.66
23 21 13 23-2731 EA 1-1/2" Union, Chrome Plated	165.81	32.77
23 21 13 23-2732 EA 2" Union, Chrome Plated	218.00	39.91
23 21 13 23-2733 Chrome Plated Caps (23 21 13 23-2685)		
23 21 13 23-2734 EA 1/4" Cap, Chrome Plated	17.08	4.53
23 21 13 23-2735 EA 3/8" Cap, Chrome Plated	17.55	4.82
23 21 13 23-2736 EA 1/2" Cap, Chrome Plated	20.25	5.11
23 21 13 23-2737 EA 3/4" Cap, Chrome Plated	25.08	6.75
23 21 13 23-2738 EA 1" Cap, Chrome Plated	29.43	8.68
23 21 13 23-2739 EA 1-1/4" Cap, Chrome Plated	43.95	11.86
23 21 13 23-2740 EA 1-1/2" Cap, Chrome Plated	58.95	13.78
23 21 13 23-2741 EA 2" Cap, Chrome Plated	87.41	18.02
23 21 13 23-2742 Chrome Plated Plugs (23 21 13 23-2685)		
23 21 13 23-2743 EA 1/4" Plug, Chrome Plated	13.49	4.53
23 21 13 23-2744 EA 3/8" Plug, Chrome Plated	13.96	4.82
23 21 13 23-2745 EA 1/2" Plug, Chrome Plated	16.47	5.11
23 21 13 23-2746 EA 3/4" Plug, Chrome Plated	22.39	6.75
23 21 13 23-2747 EA 1" Plug, Chrome Plated	27.38	8.68
23 21 13 23-2748 EA 1-1/4" Plug, Chrome Plated	36.87	11.86
23 21 13 23-2749 EA 1-1/2" Plug, Chrome Plated	45.99	13.78
23 21 13 23-2750 EA 2" Plug, Chrome Plated	64.86	18.02
23 21 13 23-2751 Chrome Plated Tees (23 21 13 23-2685)		
23 21 13 23-2752 EA 1/4" Tee, Chrome Plated	33.79	13.50
23 21 13 23-2753 EA 3/8" Tee, Chrome Plated	35.72	14.74
23 21 13 23-2754 EA 1/2" Tee, Chrome Plated	40.05	16.09
23 21 13 23-2755 EA 3/4" Tee, Chrome Plated	49.93	19.95
23 21 13 23-2756 EA 1" Tee, Chrome Plated	72.47	25.74
23 21 13 23-2757 EA 1-1/4" Tee, Chrome Plated	99.95	35.37
23 21 13 23-2758 EA 1-1/2" Tee, Chrome Plated	130.30	41.15
23 21 13 23-2759 EA 2" Tee, Chrome Plated	181.96	50.79
23 21 13 23-2760 Chrome Plated Reducing 90 Degree Elbows (23 21 13 23-2685)		
23 21 13 23-2761 EA 1/2" x 3/8" Reducing 90 Degree Elbow, Chrome Plated	37.65	16.09
23 21 13 23-2762 EA 3/4" x 1/2" Reducing 90 Degree Elbow, Chrome Plated	43.43	19.95
23 21 13 23-2763 Chrome Plated Bell Reducers (23 21 13 23-2685)		
23 21 13 23-2764 EA 1/2" x 3/8" Bell Reducer, Chrome Plated	41.99	16.09
23 21 13 23-2765 EA 3/4" x 1/2" Bell Reducer, Chrome Plated	50.90	19.95
23 21 13 23-2766 EA 1" x 1/2" Bell Reducer, Chrome Plated	64.46	25.74
23 21 13 23-2767 Chrome Plated Reducing Tees (23 21 13 23-2685)		
23 21 13 23-2768 EA 3/4" x 1/2" Reducing Tee, Chrome Plated	56.43	19.95
23 21 13 23-2769 Chrome Plated Bushings (23 21 13 23-2685)		
23 21 13 23-2770 EA 3/8" x 1/4" Bushing, Chrome Plated	13.38	4.53
23 21 13 23-2771 EA 1/2" x 1/4" Bushing, Chrome Plated	14.41	4.82
23 21 13 23-2772 EA 1/2" x 3/8" Bushing, Chrome Plated	14.90	5.11
23 21 13 23-2773 EA 3/4" x 1/2" Bushing, Chrome Plated	18.83	6.75
23 21 13 23-2774 EA 1" x 3/4" Bushing, Chrome Plated	28.07	8.68
23 21 13 23-2775 EA 1-1/4" x 1" Bushing, Chrome Plated	41.53	11.86
23 21 16 Hydronic Piping Specialties (23 21)		
23 21 16 00-0001 Air Vents (23 21 16)		
23 21 16 00-0002 Screwed Ends, Cast Iron, Automatic Air Vents (23 21 16 00-0001)		
Note: With guided free floating lever.		
23 21 16 00-0003 EA 1/2" NPT, Cast Iron, Automatic Air Vent	254.00	27.96
23 21 16 00-0004 EA 3/4" NPT, Cast Iron, Automatic Air Vent	311.22	37.12
23 21 16 00-0005 EA 1" NPT, Cast Iron, Automatic Air Vent	704.59	38.56
23 21 16 00-0006 EA 1-1/4" NPT, Cast Iron, Automatic Air Vent	1,045.04	59.59
23 21 16 00-0007 EA 1-1/2" NPT, Cast Iron, Automatic Air Vent	1,738.75	64.12
23 21 16 00-0008 EA 2" NPT, Cast Iron, Automatic Air Vent	1,997.67	84.56
23 21 16 00-0009 Forged Steel, Stainless Steel Internals, Automatic Air Vents (23 21 16 00-0001)		
Note: With guided free floating lever.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 21 Hydronic Piping And Pumps



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0010 EA 1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	1,406.30	32.29
23 21 16 00-0011 EA 3/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	1,761.39	37.12
23 21 16 00-0012 EA 1" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	2,099.85	38.56
23 21 16 00-0013 EA 1-1/4" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	3,444.10	59.78
23 21 16 00-0014 EA 1-1/2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	3,976.27	64.12
23 21 16 00-0015 EA 2" NPT, Forged Steel, Stainless Steel Internals, Automatic Air Vent	5,842.45	84.37
23 21 16 00-0016 Automatic Air Vent <small>(23 21 16 00-0001)</small>		
23 21 16 00-0017 EA 3/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	165.03	37.12
23 21 16 00-0018 EA 1" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	179.51	38.56
23 21 16 00-0019 EA 1-1/4" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	257.02	59.59
23 21 16 00-0020 EA 1-1/2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	312.28	64.12
23 21 16 00-0021 EA 2" NPT, Brass, Automatic Air Eliminator (Spirotherm VJR)	391.29	69.09
23 21 16 00-0022 Manual Air Vent <small>(23 21 16 00-0001)</small>		
23 21 16 00-0023 EA Manual Air Vent	72.44	34.81
23 21 16 00-0024 Air Release Valves <small>(23 21 16 00-0001)</small>		
23 21 16 00-0025 Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50) <small>(23 21 16 00-0024)</small>		
Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0026 EA 1/2" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	160.15	14.47
23 21 16 00-0027 EA 3/4" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	164.01	16.39
23 21 16 00-0028 EA 1" NPT, Simple Lever, Cast Iron, Clean Water Air Release Valves (Apco 50)	171.72	20.25
23 21 16 00-0029 Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200) <small>(23 21 16 00-0024)</small>		
Note: Up to 175 psi. Stainless steel float.		
23 21 16 00-0030 EA 1" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200A)	653.73	20.25
23 21 16 00-0031 EA 2" NPT, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200)	784.85	35.19
23 21 16 00-0032 EA 3" Flanged, Cast Iron, Compound Lever, Clean Water Air Release Valves (Apco 200)	1,029.51	82.05
23 21 16 00-0033 Cast Iron, Air/Vacuum Valves <small>(23 21 16 00-0024)</small>		
Note: Up to 150 psi. Stainless steel float.		
23 21 16 00-0034 EA 1/2" NPT, Cast Iron, Air/Vacuum Valve (Apco 141)	316.37	14.47
23 21 16 00-0035 EA 1" NPT, Cast Iron, Air/Vacuum Valve (Apco 142)	390.43	20.25
23 21 16 00-0036 EA 2" NPT, Cast Iron, Air/Vacuum Valve (Apco 144)	674.45	35.19
23 21 16 00-0037 EA 3" Flanged, Cast Iron, Air/Vacuum Valve (Apco 146)	979.51	82.05
23 21 16 00-0038 EA 4" Flanged, Cast Iron, Air/Vacuum Valve (Apco 152)	1,532.37	137.74
23 21 16 00-0039 EA 6" Flanged, Cast Iron, Air/Vacuum Valve (Apco 153)	2,331.95	174.17
23 21 16 00-0040 Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice <small>(23 21 16 00-0024)</small>		
Note: Up to 150 psi. Stainless Steel float.		
23 21 16 00-0041 EA 1" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 143C)	565.41	20.25
23 21 16 00-0042 EA 2" NPT, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 145C)	868.17	35.19
23 21 16 00-0043 EA 3" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 147C)	1,594.00	82.05
23 21 16 00-0044 EA 4" Flanged, Ductile Iron, Combination Air Release And Vacuum Valves, Single Body Double Orifice (Apco 149C)	2,067.70	137.74
23 21 16 00-0045 Vent Valves <small>(23 21 16)</small>		
23 21 16 00-0046 EA 1/8", 1.5 PSIG Operating Pressure, Non Vacuum Adjustable Angle Radiator Steam Vent Valve (Hoffman 1A)	55.77	14.47
23 21 16 00-0047 EA 1/2" x 3/4", 35 PSIG Operating Pressure, Straight Steam Unit Heater Air Vent Valve (Hoffman 74)	123.90	15.55
23 21 16 00-0048 EA 1/2" x 3/4", 3 PSIG Operating Pressure, Non Vacuum Main Steam Air Vent Valve (Hoffman 75)	118.51	15.55
23 21 16 00-0049 EA 1/2" x 3/4", 10 PSIG Operating Pressure, Non Vacuum Straight Non-Vacuum Main Steam Air Vent Valve (Hoffman 75H)	122.28	15.55
23 21 16 00-0050 EA 3/4", 150 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 78)	155.25	15.55
23 21 16 00-0051 EA 1/2" x 3/4", 75 PSIG Operating Pressure, Straight Water Main Vent Valve (Hoffman 79)	117.03	15.55
23 21 16 00-0052 Threaded Inlet, Drip-Pan Elbow <small>(23 21 16)</small>		
23 21 16 00-0053 Cast Iron, Threaded Inlet, Drip-Pan Elbow <small>(23 21 16 00-0052)</small>		
23 21 16 00-0054 EA 2-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow	202.70	24.26
For Flanged Inlet, Add	72.51	
23 21 16 00-0055 EA 3" Cast Iron, Threaded Inlet, Drip-Pan Elbow	230.38	28.75
For Flanged Inlet, Add	77.84	
23 21 16 00-0056 EA 3-1/2" Cast Iron, Threaded Inlet, Drip-Pan Elbow	288.49	33.24
For Flanged Inlet, Add	105.01	
23 21 16 00-0057 EA 4" Cast Iron, Threaded Inlet, Drip-Pan Elbow	423.96	37.73
For Flanged Inlet, Add	184.76	
23 21 16 00-0058 EA 5" Cast Iron, Threaded Inlet, Drip-Pan Elbow	480.02	44.92
For Flanged Inlet, Add	204.25	
23 21 16 00-0059 EA 6" Cast Iron, Threaded Inlet, Drip-Pan Elbow	663.51	56.60
For Flanged Inlet, Add	298.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0060 EA 8" Cast Iron, Threaded Inlet, Drip-Pan Elbow <i>For Flanged Inlet, Add</i>	1,467.44 794.25	74.56
23 21 16 00-0061 Cast Steel, Threaded Inlet, Drip-Pan Elbow <small>(23 21 16 00-0052)</small>		
23 21 16 00-0062 EA 2-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow <i>For Flanged Inlet, Add</i>	387.78 198.36	24.26
23 21 16 00-0063 EA 3" Cast Steel, Threaded Inlet, Drip-Pan Elbow <i>For Flanged Inlet, Add</i>	469.38 240.36	28.75
23 21 16 00-0064 EA 3-1/2" Cast Steel, Threaded Inlet, Drip-Pan Elbow <i>For Flanged Inlet, Add</i>	660.85 358.22	33.24
23 21 16 00-0065 EA 4" Cast Steel, Threaded Inlet, Drip-Pan Elbow <i>For Flanged Inlet, Add</i>	679.04 358.22	37.73
23 21 16 00-0066 EA 5" Cast Steel, Threaded Inlet, Drip-Pan Elbow <i>For Flanged Inlet, Add</i>	965.63 534.47	44.92
23 21 16 00-0067 EA 6" Cast Steel, Threaded Inlet, Drip-Pan Elbow <i>For Flanged Inlet, Add</i>	1,010.55 534.47	56.60
23 21 16 00-0068 EA 8" Cast Steel, Threaded Inlet, Drip-Pan Elbow <i>For Flanged Inlet, Add</i>	1,649.14 917.81	74.56
23 21 16 00-0069 Y-Type Strainers <small>(23 21 16)</small>		
23 21 16 00-0070 Screwed Ends, 250 LB, Iron Body, Y-Type Strainers <small>(23 21 16 00-0069)</small>		
23 21 16 00-0071 EA 1/4" Or 3/8" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	70.51 19.83 9.26	10.79
23 21 16 00-0072 EA 1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	70.99 19.83 9.40	11.00
23 21 16 00-0073 EA 3/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	89.76 23.67 12.73	14.85
23 21 16 00-0074 EA 1" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	114.57 31.98 15.18	17.74
23 21 16 00-0075 EA 1-1/4" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	150.29 43.81 18.80	21.93
23 21 16 00-0076 EA 1-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	173.02 52.77 20.25	23.62
23 21 16 00-0077 EA 2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	239.58 81.23 23.14	26.99
23 21 16 00-0078 EA 2-1/2" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	461.60 182.60 28.92	33.74
23 21 16 00-0079 EA 3" Screwed Ends, 250 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	597.63 238.56 36.16	42.23
23 21 16 00-0080 Flanged, 125 LB, Iron Body, Y-Type Strainers <small>(23 21 16 00-0069)</small>		
23 21 16 00-0081 EA 1-1/2" Flanged, 125 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	259.69 66.42 38.06	101.24
23 21 16 00-0082 EA 2" Flanged, 125 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	304.44 71.88 48.21	128.52
23 21 16 00-0083 EA 3" Flanged, 125 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	547.83 171.35 61.54	163.91
23 21 16 00-0084 EA 4" Flanged, 125 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	733.23 194.45 103.30	274.78
23 21 16 00-0085 EA 5" Flanged, 125 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	781.53 217.54 103.94	277.60
23 21 16 00-0086 EA 6" Flanged, 125 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	927.28 270.17 116.08	308.44
23 21 16 00-0087 EA 8" Flanged, 125 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	1,553.79 532.10 146.88	394.12
23 21 16 00-0088 EA 10" Flanged, 125 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	2,971.66 1,185.96 179.92	479.80
23 21 16 00-0089 EA 12" Flanged, 125 LB, Iron Body, Y-Type Strainer <i>For Galvanized Body, Add</i> <i>For Work In Restricted Working Space, Add</i>	3,323.05 1,233.14 257.03	428.39

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

SAN BERNARDINO
COUNTY

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0090			Screwed Ends, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0069) Note: With screwed cap (4" size has bolted cap).		
23 21 16 00-0091	EA		1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer .....52.88		11.00
			For 300 LB Rating, Add	36.62	
			For Work In Restricted Working Space, Add	9.40	
23 21 16 00-0092	EA		3/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer .....70.43		14.85
			For 300 LB Rating, Add	47.60	
			For Work In Restricted Working Space, Add	12.73	
23 21 16 00-0093	EA		1" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer .....85.88		17.74
			For 300 LB Rating, Add	59.96	
			For Work In Restricted Working Space, Add	15.18	
23 21 16 00-0094	EA		1-1/4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer .....106.83		21.93
			For 300 LB Rating, Add	75.07	
			For Work In Restricted Working Space, Add	18.80	
23 21 16 00-0095	EA		1-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer .....124.84		23.62
			For 300 LB Rating, Add	97.50	
			For Work In Restricted Working Space, Add	20.25	
23 21 16 00-0096	EA		2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer .....170.29		26.99
			For 300 LB Rating, Add	158.37	
			For Work In Restricted Working Space, Add	23.14	
23 21 16 00-0097	EA		2-1/2" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer .....250.15		33.74
			For 300 LB Rating, Add	261.36	
			For Work In Restricted Working Space, Add	28.92	
23 21 16 00-0098	EA		3" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer .....439.27		42.23
			For 300 LB Rating, Add	541.88	
			For Work In Restricted Working Space, Add	36.16	
23 21 16 00-0099	EA		4" Screwed Ends, 150 LB, Bronze Body, Y-Type Strainer .....749.56		50.61
			For 300 LB Rating, Add	1,028.40	
			For Work In Restricted Working Space, Add	43.39	
23 21 16 00-0100			Flanged, 150 LB, Bronze Body, Y-Type Strainers (23 21 16 00-0069) Note: With bolted cap.		
23 21 16 00-0101	EA		2" Flanged, 150 LB, Bronze Body, Y-Type Strainer .....428.26		128.52
			For 300 LB Rating, Add	160.54	
			For Work In Restricted Working Space, Add	48.21	
23 21 16 00-0102	EA		2-1/2" Flanged, 150 LB, Bronze Body, Y-Type Strainer .....447.91		139.80
			For 300 LB Rating, Add	163.57	
			For Work In Restricted Working Space, Add	52.59	
23 21 16 00-0103	EA		3" Flanged, 150 LB, Bronze Body, Y-Type Strainer .....517.31		163.91
			For 300 LB Rating, Add	187.30	
			For Work In Restricted Working Space, Add	61.54	
23 21 16 00-0104	EA		4" Flanged, 150 LB, Bronze Body, Y-Type Strainer .....1,102.86		274.78
			For 300 LB Rating, Add	455.11	
			For Work In Restricted Working Space, Add	103.30	
23 21 16 00-0105	EA		6" Flanged, 150 LB, Bronze Body, Y-Type Strainer .....1,536.72		308.44
			For 300 LB Rating, Add	689.87	
			For Work In Restricted Working Space, Add	116.08	
23 21 16 00-0106	EA		8" Flanged, 150 LB, Bronze Body, Y-Type Strainer .....2,451.79		394.12
			For 300 LB Rating, Add	1,177.32	
			For Work In Restricted Working Space, Add	146.88	
23 21 16 00-0107	EA		10" Flanged, 150 LB, Bronze Body, Y-Type Strainer .....7,642.33		479.80
			For 300 LB Rating, Add	4,225.55	
			For Work In Restricted Working Space, Add	179.92	
23 21 16 00-0108			Class 125, Crimped Bronze Body, Y-Type Strainers (23 21 16 00-0069) Note: Nibco®		
23 21 16 00-0109	EA		1/2" Class 125, Crimped Bronze Body, Y-Type Strainer .....125.73		9.63
			For Work In Restricted Working Space, Add	6.50	
23 21 16 00-0110	EA		3/4" Class 125, Crimped Bronze Body, Y-Type Strainer .....145.63		10.60
			For Work In Restricted Working Space, Add	7.41	
23 21 16 00-0111	EA		1" Class 125, Crimped Bronze Body, Y-Type Strainer .....207.03		12.05
			For Work In Restricted Working Space, Add	8.86	
23 21 16 00-0112	EA		1-1/4" Class 125, Crimped Bronze Body, Y-Type Strainer .....277.22		12.82
			For Work In Restricted Working Space, Add	9.76	
23 21 16 00-0113	EA		1-1/2" Class 125, Crimped Bronze Body, Y-Type Strainer .....333.63		14.84
			For Work In Restricted Working Space, Add	10.85	
23 21 16 00-0114	EA		2" Class 125, Crimped Bronze Body, Y-Type Strainer .....493.57		17.54
			For Work In Restricted Working Space, Add	13.01	
23 21 16 00-0115			250 PSI, Crimped Bronze Body, Y-Type Strainers (23 21 16 00-0069)		
23 21 16 00-0116	EA		1/2" 250 PSI, Crimped Bronze Body, Y-Type Strainer .....71.18		9.63
23 21 16 00-0117	EA		3/4" 250 PSI, Crimped Bronze Body, Y-Type Strainer .....87.10		10.60
23 21 16 00-0118	EA		1" 250 PSI, Crimped Bronze Body, Y-Type Strainer .....128.51		12.05
23 21 16 00-0119	EA		1-1/4" 250 PSI, Crimped Bronze Body, Y-Type Strainer .....157.52		12.82
23 21 16 00-0120	EA		1-1/2" 250 PSI, Crimped Bronze Body, Y-Type Strainer .....188.32		14.84
23 21 16 00-0121	EA		2" 250 PSI, Crimped Bronze Body, Y-Type Strainer .....247.82		17.54
23 21 16 00-0122			Cast Iron Body, Suction Diffusers (23 21 16) Note: 175 PSI, steel inlet vanes, steel orifice cylinder and 16 mesh bronze startup strainer.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0123 EA 2" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	421.95 18.60	37.99
23 21 16 00-0124 EA 2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	443.22 20.66	42.13
23 21 16 00-0125 EA 2-1/2" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	450.30 21.70	44.26
23 21 16 00-0126 EA 2-1/2" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	852.03 52.59	139.80
23 21 16 00-0127 EA 3" x 1-1/2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	465.58 25.21	51.49
23 21 16 00-0128 EA 3" x 2" Screwed Ends, 175 LB, Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	526.78 25.21	51.49
23 21 16 00-0129 EA 3" x 2-1/2" Flanged, 175 LB, Cast Iron Body, Suction Diffuser <i>For Work In Restricted Working Space, Add</i>	892.15 57.07	152.18
23 21 16 00-0130 EA 3" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	910.67 61.54	163.91
23 21 16 00-0131 EA 4" x 3" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,106.25 82.42	219.79
23 21 16 00-0132 EA 4" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,301.84 103.30	274.78
23 21 16 00-0133 EA 6" x 4" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,491.15 103.94	277.17
23 21 16 00-0134 EA 6" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	1,801.60 116.08	308.44
23 21 16 00-0135 EA 8" x 6" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	2,037.44 146.88	394.12
23 21 16 00-0136 EA 8" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	3,149.72 146.88	394.12
23 21 16 00-0137 EA 10" x 8" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	3,598.24 179.92	479.80
23 21 16 00-0138 EA 10" x 10" Flanged, 175 LB, Cast Iron Body, Suction Diffuser..... <i>For Work In Restricted Working Space, Add</i>	4,206.58 179.92	479.80
23 21 16 00-0139 Duplex Strainers (23 21 16)		
23 21 16 00-0140 Iron Body, Duplex Strainers (23 21 16 00-0139)		
23 21 16 00-0141 Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers (23 21 16 00-0140) Note: With brass or stainless steel basket.		
23 21 16 00-0142 EA 3/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	597.29 14.41	24.00
23 21 16 00-0143 EA 1" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	667.18 16.50	27.48
23 21 16 00-0144 EA 1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	902.74 19.37	32.29
23 21 16 00-0145 EA 1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,134.55 21.11	35.19
23 21 16 00-0146 EA 2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,519.29 25.83	42.91
23 21 16 00-0147 EA 2-1/2" Screwed Ends, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,912.11 32.96	54.96
23 21 16 00-0148 Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainers (23 21 16 00-0140) Note: With brass or stainless steel basket.		
23 21 16 00-0149 EA 2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,077.34 48.21	128.52
23 21 16 00-0150 EA 2-1/2" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,149.17 52.59	139.80
23 21 16 00-0151 EA 3" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	2,751.14 61.54	163.91
23 21 16 00-0152 EA 4" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	4,310.93 91.80	244.18
23 21 16 00-0153 EA 6" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	8,396.83 116.08	308.44
23 21 16 00-0154 EA 8" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	15,937.23 146.88	394.12
23 21 16 00-0155 EA 10" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	21,997.59 179.92	479.80
23 21 16 00-0156 EA 12" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	25,010.97 363.05	604.89
23 21 16 00-0157 EA 14" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	29,692.38 257.03	685.43
23 21 16 00-0158 EA 16" Flanged, 125 LB, Bronze Diverter, Iron Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	37,101.39 282.74	753.96
23 21 16 00-0159 Bronze Body, Duplex Strainers (23 21 16 00-0139)		
23 21 16 00-0160 Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainers (23 21 16 00-0159) Note: With brass or stainless steel basket.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0161	EA	3/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,106.49 14.41	24.11
23 21 16 00-0162	EA	1" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	1,227.88 16.50	27.48
23 21 16 00-0163	EA	1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,795.27 19.37	32.29
23 21 16 00-0164	EA	1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,358.92 21.11	35.19
23 21 16 00-0165	EA	2" Screwed Ends, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,046.89 25.83	42.91
23 21 16 00-0166	EA	2-1/2" Screwed, 125 LB, Bronze Diverter, Bronze Body Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	3,742.94 32.96	54.96
23 21 16 00-0167		Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainers (23 21 16 00-0159) Note: With brass or stainless steel basket.		
23 21 16 00-0168	EA	2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	4,280.06 48.21	128.52
23 21 16 00-0169	EA	2-1/2" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	4,409.10 52.59	139.80
23 21 16 00-0170	EA	3" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	6,040.92 61.54	163.91
23 21 16 00-0171	EA	4" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	9,517.36 91.80	244.18
23 21 16 00-0172	EA	6" Flanged, 125 LB, Bronze Diverter, Bronze Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	20,640.52 116.08	308.44
23 21 16 00-0173		Cast Steel Body, Duplex Strainers (23 21 16 00-0139)		
23 21 16 00-0174		Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0173) Note: With brass or stainless steel basket.		
23 21 16 00-0175	EA	1" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	1,720.93 16.50	27.48
23 21 16 00-0176	EA	1-1/4" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,119.19 19.37	32.29
23 21 16 00-0177	EA	1-1/2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	2,513.74 21.12	35.19
23 21 16 00-0178	EA	2" Screwed Ends, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	4,250.90 25.83	42.91
23 21 16 00-0179		Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainers (23 21 16 00-0173) Note: With brass or stainless steel basket.		
23 21 16 00-0180	EA	2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	4,353.26 48.21	128.52
23 21 16 00-0181	EA	2-1/2" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	4,784.35 52.59	139.80
23 21 16 00-0182	EA	3" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	6,285.76 61.54	163.91
23 21 16 00-0183	EA	4" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	9,218.68 91.80	244.18
23 21 16 00-0184	EA	6" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	15,713.43 116.08	308.44
23 21 16 00-0185	EA	8" Flanged, 125 LB, Bronze Diverter, Cast Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	30,587.26 146.88	394.12
23 21 16 00-0186		Stainless Steel Body, Duplex Strainers (23 21 16 00-0139)		
23 21 16 00-0187		Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers (23 21 16 00-0186) Note: With stainless steel basket.		
23 21 16 00-0188	EA	1" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	4,436.50 16.50	27.48
23 21 16 00-0189	EA	1-1/4" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	5,606.33 19.37	32.29
23 21 16 00-0190	EA	1-1/2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	6,764.34 21.12	35.19
23 21 16 00-0191	EA	2" Screwed Ends, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	10,836.97 25.83	42.91
23 21 16 00-0192		Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainers (23 21 16 00-0186) Note: With stainless steel basket.		
23 21 16 00-0193	EA	2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	11,357.84 48.21	128.52
23 21 16 00-0194	EA	2-1/2" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer..... <i>For Work In Restricted Working Space, Add</i>	11,940.42 52.59	139.80
23 21 16 00-0195	EA	3" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	18,704.78 61.54	163.91



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0196 EA 4" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	22,862.56 91.80	244.18
23 21 16 00-0197 EA 6" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	40,144.93 116.08	308.44
23 21 16 00-0198 EA 8" Flanged, 125 LB, Stainless Steel Diverter, Stainless Steel Body, Duplex Strainer <i>For Work In Restricted Working Space, Add</i>	74,163.57 146.88	394.12
23 21 16 00-0199 Pressure Regulating Valve <small>(23 21 16)</small>		
23 21 16 00-0200 Screwed Ends, Water Pressure Reducing Valves <small>(23 21 16 00-0199)</small> Note: For building services, 25 - 75 PSI, up to 300 Lbs. rating, iron construction.		
23 21 16 00-0201 EA 1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve <i>For Work In Restricted Working Space, Add</i>	202.97 14.46	12.05
23 21 16 00-0202 EA 3/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve <i>For Work In Restricted Working Space, Add</i>	250.81 16.06	13.50
23 21 16 00-0203 EA 1" Screwed Ends, Iron Construction, Water Pressure Reducing Valve <i>For Work In Restricted Working Space, Add</i>	331.72 17.01	14.46
23 21 16 00-0204 EA 1-1/4" Screwed Ends, Iron Construction, Water Pressure Reducing Valve <i>For Work In Restricted Working Space, Add</i>	572.64 19.28	16.19
23 21 16 00-0205 EA 1-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve <i>For Work In Restricted Working Space, Add</i>	778.40 23.13	19.28
23 21 16 00-0206 EA 2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve <i>For Work In Restricted Working Space, Add</i>	1,114.56 35.50	29.56
23 21 16 00-0207 EA 2-1/2" Screwed Ends, Iron Construction, Water Pressure Reducing Valve <i>For Work In Restricted Working Space, Add</i>	1,211.92 39.94	33.28
23 21 16 00-0208 EA 3" Screwed Ends, Iron Construction, Water Pressure Reducing Valve <i>For Work In Restricted Working Space, Add</i>	1,331.46 44.38	96.30
23 21 16 00-0209 Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0199)</small> Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0210 Screwed Ends, Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0209)</small>		
23 21 16 00-0211 EA 1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer <i>For Work In Restricted Working Space, Add</i>	343.46 19.41	16.20
23 21 16 00-0212 EA 3/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer <i>For Work In Restricted Working Space, Add</i>	429.03 27.55	22.95
23 21 16 00-0213 EA 1" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer <i>For Work In Restricted Working Space, Add</i>	552.05 33.64	27.96
23 21 16 00-0214 EA 1-1/4" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer <i>For Work In Restricted Working Space, Add</i>	740.58 39.09	33.93
23 21 16 00-0215 EA 1-1/2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer <i>For Work In Restricted Working Space, Add</i>	996.75 44.50	38.56
23 21 16 00-0216 EA 2" Screwed Ends, Cast Iron Body, Steam Pressure Regulator Valve And Reducer <i>For Work In Restricted Working Space, Add</i>	1,164.79 53.90	53.90
23 21 16 00-0217 Flanged, Cast Iron Body, Steam Pressure Regulator And Reducer <small>(23 21 16 00-0209)</small> Note: Single seated, spring loaded, direct acting diaphragm valve.		
23 21 16 00-0218 EA 2-1/2" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer <i>For Work In Restricted Working Space, Add</i>	2,709.88 49.00	130.25
23 21 16 00-0219 EA 3" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer <i>For Work In Restricted Working Space, Add</i>	3,370.74 57.34	152.71
23 21 16 00-0220 EA 4" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer <i>For Work In Restricted Working Space, Add</i>	4,328.27 96.24	256.00
23 21 16 00-0221 EA 6" Flanged, Cast Iron Body, Steam Pressure Regulator Valve And Reducer <i>For Work In Restricted Working Space, Add</i>	10,823.98 116.04	308.33
23 21 16 00-0222 Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0199)</small>		
23 21 16 00-0223 Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0222)</small>		
23 21 16 00-0224 EA 1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	1,969.82 17.64	11.76
23 21 16 00-0225 EA 3/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	2,011.26 17.64	11.76
23 21 16 00-0226 EA 1" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	2,141.81 22.27	14.85
23 21 16 00-0227 EA 1-1/4" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	2,516.63 28.35	18.89
23 21 16 00-0228 EA 1-1/2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	2,881.06 32.69	21.79
23 21 16 00-0229 EA 2" Screwed Ends, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	3,572.65 38.47	25.64
23 21 16 00-0230 Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valves <small>(23 21 16 00-0222)</small>		
23 21 16 00-0231 EA 2-1/2" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve <i>For Work In Restricted Working Space, Add</i>	4,413.58 49.00	130.25

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

SAN BERNARDINO
COUNTY

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0232	EA		3" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	5,445.23 57.34	152.71
23 21 16 00-0233	EA		4" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	8,245.73 96.24	256.00
23 21 16 00-0234	EA		6" Flanged, Cast Iron Body, Externally Piloted, Steam Pressure Regulating And Reducing Valve..... <i>For Work In Restricted Working Space, Add</i>	18,166.07 116.04	308.33
23 21 16 00-0235			Screwed Ends, Cast Iron Body, Air Pressure Reducing Valves (23 21 16 00-0199)		
23 21 16 00-0236	EA		1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	228.42	12.53
23 21 16 00-0237	EA		3/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	283.24	13.88
23 21 16 00-0238	EA		1" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	376.94	14.74
23 21 16 00-0239	EA		1-1/4" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	656.23	16.78
23 21 16 00-0240	EA		1-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	893.68	20.04
23 21 16 00-0241	EA		2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,278.36	30.71
23 21 16 00-0242	EA		2-1/2" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,384.86	33.46
23 21 16 00-0243	EA		3" Screwed Ends, Cast Iron Body, Air Pressure Reducing Valve	1,526.06	38.52
23 21 16 00-0244			Screwed Ends, Bronze Body, Water Pressure Reducing Valves (23 21 16 00-0199) Note: For building services, bronze construction, pressure adjustment, union and strainer, factory set at 45 PSI (Watts 25AUB).		
23 21 16 00-0245	EA		1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	143.50	12.05
23 21 16 00-0246	EA		3/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	157.79	13.50
23 21 16 00-0247	EA		1" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	194.49	14.93
23 21 16 00-0248	EA		1-1/4" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	449.65	16.19
23 21 16 00-0249	EA		1-1/2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	488.56	19.28
23 21 16 00-0250	EA		2" Screwed Ends, Bronze Body, Water Pressure Reducing Valve	767.26	29.56
23 21 16 00-0251			Dual Unit Reducing And Relief Valve (23 21 16)		
23 21 16 00-0252	EA		1/2" Dual Unit Reducing And Relief Valve.....	162.71	29.41
23 21 16 00-0253			Safety Relief Valve (23 21 16) Note: Used in water heater and hot water storage tank applications.		
23 21 16 00-0254			Threaded Inlet, Bronze Body Safety Valves (23 21 16 00-0253) Note: Variable set points to 150 psig pressure, 210 Degree F temperature range.		
23 21 16 00-0255	EA		1/2" x 1/2" Threaded Inlet, Bronze Body Safety Valve	64.69	12.05
23 21 16 00-0256	EA		3/4" x 3/4" Threaded Inlet, Bronze Body Safety Valve	87.75	13.26
23 21 16 00-0257	EA		1" x 1" Threaded Inlet, Bronze Body Safety Valve	125.12	16.14
23 21 16 00-0258	EA		1-1/4" x 1-1/4" Threaded Inlet, Bronze Body Safety Valve	159.74	17.11
23 21 16 00-0259	EA		1-1/2" x 1-1/2" Threaded Inlet, Bronze Body Safety Valve	219.59	22.89
23 21 16 00-0260	EA		2" x 2" Threaded Inlet, Bronze Body Safety Valve	292.54	26.98
23 21 16 00-0261	EA		2-1/2" x 2-1/2" Threaded Inlet, Bronze Body Safety Valve	333.44	33.73
23 21 16 00-0262			Threaded, Bronze Body, Temperature And Pressure Relief Valves (23 21 16)		
23 21 16 00-0263	EA		1/2" x 1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	70.70 38.18	24.58
23 21 16 00-0264	EA		3/4" x 3/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	90.73 53.18	29.50
23 21 16 00-0265	EA		1" x 1" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	132.01 84.69	39.32
23 21 16 00-0266	EA		1-1/4" x 1-1/4" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	212.83 179.99	42.12
23 21 16 00-0267	EA		1-1/2" x 1-1/2" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	352.53 344.31	47.23
23 21 16 00-0268	EA		2" x 2" Threaded, Bronze Body, Temperature And Pressure Relief Valve..... <i>For Cast Iron Body, Add</i>	410.89 374.93	67.89
23 21 16 00-0269			Thermostatic Radiator Valves (23 21 16) Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0270	EA		1/2" Straight Thermostatic Radiator Valve (Danfoss 013G8015)	53.98	15.55
23 21 16 00-0271	EA		3/4" Straight Thermostatic Radiator Valve (Danfoss 013G8020)	65.75	20.96
23 21 16 00-0272	EA		1" Straight Thermostatic Radiator Valve (Danfoss 013G8025)	87.92	25.37
23 21 16 00-0273	EA		1-1/4" Straight Thermostatic Radiator Valve (Danfoss 013G8032).....	128.14	32.14
23 21 16 00-0274	EA		1/2" Angle Thermostatic Radiator Valve (Danfoss 013G8014)	53.98	15.55
23 21 16 00-0275	EA		3/4" Angle Thermostatic Radiator Valve (Danfoss 013G8019)	65.75	20.96
23 21 16 00-0276	EA		1" Angle Thermostatic Radiator Valve (Danfoss 013G8024)	87.92	25.37
23 21 16 00-0277	EA		1-1/4" Angle Thermostatic Radiator Valve (Danfoss 013G8031)	128.14	32.14
23 21 16 00-0278	EA		Tamper Resistant Valve Mounted Dial And Sensor Thermostatic Operator (Danfoss 013G8240)	65.80	12.05
23 21 16 00-0279	EA		Tamper Resistant Valve Mounted Dial With Remote Sensor Thermostatic Operator (Danfoss 013G2922)	96.89	16.87
23 21 16 00-0280			Radiator Trap Repair Kits (23 21 16) Note: For hot water or two pipe low pressure steam.		
23 21 16 00-0281	EA		1/2" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1031).....	94.17	
23 21 16 00-0282	EA		3/4" Trap (Spirax-Sarco TH-125), Straight, Radiator Trap Repair Kit (Spirax-Sarco SH1032).....	117.32	
23 21 16 00-0283	EA		1/2" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1026).....	117.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0284 EA 3/4" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1027).....	134.00	
23 21 16 00-0285 EA 1" Trap (Spirax-Sarco TH-125), Angle, Radiator Trap Repair Kit (Spirax-Sarco SH1028).....	307.28	
23 21 16 00-0286 Horizontal Steel Expansion Tanks ^(23 21 16)		
Note: ASME Code Stamp. 150 PSI with glass gauge and cocks.		
23 21 16 00-0287 EA 10 Gallon Horizontal Steel Expansion Tank.....	502.94	96.41
23 21 16 00-0288 EA 15 Gallon Horizontal Steel Expansion Tank.....	706.20	120.52
23 21 16 00-0289 EA 30 Gallon Horizontal Steel Expansion Tank.....	921.11	144.62
23 21 16 00-0290 EA 40 Gallon Horizontal Steel Expansion Tank.....	1,061.03	168.73
23 21 16 00-0291 EA 60 Gallon Horizontal Steel Expansion Tank.....	1,213.90	171.35
23 21 16 00-0292 Horizontal Diaphragm Type (Bladder) Steel Expansion Tanks ^(23 21 16)		
Note: ASME. Precharged with working pressure 125 psi. Armstrong AX Series.		
23 21 16 00-0293 EA 7.8 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,496.79	72.32
23 21 16 00-0294 EA 10.9 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	1,560.19	84.37
23 21 16 00-0295 EA 21.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,335.50	96.41
23 21 16 00-0296 EA 33.6 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	2,428.95	108.46
23 21 16 00-0297 EA 44.4 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,301.33	120.52
23 21 16 00-0298 EA 55.7 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	3,480.30	132.57
23 21 16 00-0299 EA 68.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,142.34	144.62
23 21 16 00-0300 EA 77.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,432.26	156.67
23 21 16 00-0301 EA 90.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	4,886.29	168.73
23 21 16 00-0302 EA 110.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	5,017.71	192.83
23 21 16 00-0303 EA 132.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	6,302.50	216.94
23 21 16 00-0304 EA 158.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	7,229.05	241.04
23 21 16 00-0305 EA 211.0 Gallon Horizontal Diaphragm Type (Bladder) Steel Expansion Tank.....	8,388.71	289.24
23 21 16 00-0306 Vertical Diaphragm Type (Bladder) Steel Expansion Tanks ^(23 21 16)		
Note: ASME. Precharged with working pressure 125 psi (Armstrong AX)		
23 21 16 00-0307 EA 8.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,709.44	72.32
23 21 16 00-0308 EA 11.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	1,761.28	84.37
23 21 16 00-0309 EA 22.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,529.66	96.41
23 21 16 00-0310 EA 34.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	2,699.38	108.46
23 21 16 00-0311 EA 44.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,437.71	120.52
23 21 16 00-0312 EA 56.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	3,614.36	132.57
23 21 16 00-0313 EA 67.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,412.78	144.62
23 21 16 00-0314 EA 77.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	4,769.73	156.67
23 21 16 00-0315 EA 91.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,276.91	168.73
23 21 16 00-0316 EA 111.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	5,401.40	192.83
23 21 16 00-0317 EA 132.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	6,651.53	216.94
23 21 16 00-0318 EA 158.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	7,721.37	241.04
23 21 16 00-0319 EA 211.0 Gallon Vertical Diaphragm Type (Bladder) Steel Expansion Tank.....	8,890.28	289.24
23 21 16 00-0320 Diaphragm Type (Residential Style) Steel Expansion Tanks ^(23 21 16)		
23 21 16 00-0321 EA 2.1 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-5-M1).....	64.85	8.87
23 21 16 00-0322 EA 4.5 Gallon Diaphragm Type (Residential Style) Steel Expansion Tank (Watts DET-12-M1).....	90.81	8.87
23 21 16 00-0323 Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tanks ^(23 21 16)		
23 21 16 00-0324 EA 15 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	844.64	289.34
23 21 16 00-0325 EA 20 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	871.70	289.34
23 21 16 00-0326 EA 30 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	898.75	289.34
23 21 16 00-0327 EA 40 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	969.09	289.34
23 21 16 00-0328 EA 47 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,185.93	385.56
23 21 16 00-0329 EA 60 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,348.08	385.75
23 21 16 00-0330 EA 80 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,380.22	385.75
23 21 16 00-0331 EA 87 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,412.36	385.75
23 21 16 00-0332 EA 120 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	1,790.94	482.07
23 21 16 00-0333 EA 187 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	4,515.75	482.07
23 21 16 00-0334 EA 264 Gallon Vertical Diaphragm Type (Bladder) Fiberglass Reinforced Polyester (FRP) Expansion Tank.....	5,719.07	578.29
23 21 16 00-0335 ASME Construction Compression Tanks ^(23 21 16)		
Note: With gauge glass taps, 125 PSI, 240 degree F tanks below are sized by capacity and diameter and height.		
23 21 16 00-0336 EA 15 Gallon, 13" x 34-1/2" ASME Construction Compression Tank.....	822.03	169.69
<i>For Galvanized Steel Tanks, Add</i>		
	282.46	
23 21 16 00-0337 EA 24 Gallon, 13" x 51" ASME Construction Compression Tank.....	838.38	174.51
<i>For Galvanized Steel Tanks, Add</i>		
	286.62	
23 21 16 00-0338 EA 30 Gallon, 13" x 61-1/2" ASME Construction Compression Tank.....	913.52	180.30
<i>For Galvanized Steel Tanks, Add</i>		
	319.85	
23 21 16 00-0339 EA 40 Gallon, 16-1/4" x 53" ASME Construction Compression Tank.....	998.87	187.05
<i>For Galvanized Steel Tanks, Add</i>		
	357.23	
23 21 16 00-0340 EA 60 Gallon, 16-1/4" x 76-1/2" ASME Construction Compression Tank.....	1,162.88	197.65
<i>For Galvanized Steel Tanks, Add</i>		
	432.00	
23 21 16 00-0341 EA 80 Gallon, 20-1/4" x 68" ASME Construction Compression Tank.....	1,208.23	205.37
<i>For Galvanized Steel Tanks, Add</i>		
	448.61	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0342 EA 100 Gallon, 20-1/4" x 82" ASME Construction Compression Tank	1,493.07	223.69
For Galvanized Steel Tanks, Add	577.39	
23 21 16 00-0343 EA 120 Gallon, 24-1/4" x 71-1/2" ASME Construction Compression Tank	1,626.57	240.08
For Galvanized Steel Tanks, Add	631.37	
23 21 16 00-0344 EA 144 Gallon, 24-1/4" x 83-1/2" ASME Construction Compression Tank	2,021.22	270.92
For Galvanized Steel Tanks, Add	805.47	
23 21 16 00-0345 EA 180 Gallon, 30" x 60" ASME Construction Compression Tank	2,563.83	310.46
For Galvanized Steel Tanks, Add	1,046.76	
23 21 16 00-0346 EA 202 Gallon, 30" x 72" ASME Construction Compression Tank	3,068.48	344.20
For Galvanized Steel Tanks, Add	1,273.66	
23 21 16 00-0347 EA 230 Gallon, 30" x 84" ASME Construction Compression Tank	3,355.39	374.09
For Galvanized Steel Tanks, Add	1,394.12	
23 21 16 00-0348 EA 280 Gallon, 30" x 96" ASME Construction Compression Tank	4,232.72	410.72
For Galvanized Steel Tanks, Add	1,805.34	
23 21 16 00-0349 EA 306 Gallon, 30" x 108" ASME Construction Compression Tank	4,368.46	438.69
For Galvanized Steel Tanks, Add	1,851.77	
23 21 16 00-0350 EA 340 Gallon, 36" x 84" ASME Construction Compression Tank	5,620.30	471.47
For Galvanized Steel Tanks, Add	2,453.06	
23 21 16 00-0351 EA 550 Gallon, 36" x 96" ASME Construction Compression Tank	9,338.52	553.42
For Galvanized Steel Tanks, Add	4,260.07	
23 21 16 00-0352 Compression Tank Air Fittings (23 21 16)		
23 21 16 00-0353 EA 9" To 24" Diameter Compression Tank Air Fittings	138.58	26.99
23 21 16 00-0354 EA >100 Gallon Compression Tank Air Fittings	420.57	31.82
23 21 16 00-0355 Vortex Air Separators With Strainer (23 21 16)		
Note: Separators are priced by capacity in gallons per minute and by boiler connection sizes and types.		
23 21 16 00-0356 EA 2" Threaded, 56 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2N)	1,180.35	205.37
For 300 PSIG, Add	130.40	
23 21 16 00-0357 EA 2-1/2" Threaded, 90 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-2-1/2N)	1,457.91	235.26
For 300 PSIG, Add	165.12	
23 21 16 00-0358 EA 3" Threaded, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3N)	2,229.89	276.71
For 300 PSIG, Add	271.61	
23 21 16 00-0359 EA 3" Flanged, 190 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-3F)	2,383.28	293.03
For 300 PSIG, Add	290.90	
23 21 16 00-0360 EA 4" Flanged, 300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-4F)	3,076.54	390.71
For 300 PSIG, Add	372.69	
23 21 16 00-0361 EA 5" Flanged, 500 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-5F)	3,879.45	466.09
For 300 PSIG, Add	476.08	
23 21 16 00-0362 EA 6" Flanged, 700 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-6F)	4,601.11	527.78
For 300 PSIG, Add	570.22	
23 21 16 00-0363 EA 8" Flanged, 1,300 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-8F)	6,607.75	633.16
For 300 PSIG, Add	847.22	
23 21 16 00-0364 EA 10" Flanged, 2,000 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-10F)	10,154.25	719.70
For 300 PSIG, Add	1,359.57	
23 21 16 00-0365 EA 12" Flanged, 2,750 GPM, 125 PSI, With Strainer, Vortex Air Separator (Rolairtrol R-12F)	13,694.50	931.32
For 300 PSIG, Add	1,842.50	
23 21 16 00-0366 EA 14" Flanged, 3400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-14F)	28,475.26	1,130.95
For 300 PSIG, Add	4,014.26	
23 21 16 00-0367 EA 16" Flanged, 4400 GPM With Strainer, Vortex Air Separator (Rolairtrol R-16F)	35,151.20	1,357.14
For 300 PSIG, Add	4,964.24	
23 21 16 00-0368 EA 18" Flanged, 5200 GPM With Strainer, Vortex Air Separator (Rolairtrol R-18F)	45,851.04	1,583.32
For 300 PSIG, Add	6,517.81	
23 21 16 00-0369 EA 20" Flanged, 6300 GPM With Strainer, Vortex Air Separator (Rolairtrol R-20F)	53,644.60	1,809.52
For 300 PSIG, Add	7,635.44	
23 21 16 00-0370 Vortex Air Separators (23 21 16)		
Note: Without system strainer.		
23 21 16 00-0371 EA 2" Threaded, 56 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2N)	1,010.60	205.37
For 300 PSIG, Add	104.94	
23 21 16 00-0372 EA 2-1/2" Threaded, 90 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-2-1/2N)	1,272.73	235.26
For 300 PSIG, Add	137.35	
23 21 16 00-0373 EA 3" Threaded, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3N)	2,183.60	276.71
For 300 PSIG, Add	264.66	
23 21 16 00-0374 EA 3" Flanged, 190 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-3F)	1,976.90	293.03
For 300 PSIG, Add	229.94	
23 21 16 00-0375 EA 4" Flanged, 300 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-4F)	2,649.59	390.71
For 300 PSIG, Add	308.64	
23 21 16 00-0376 EA 5" Flanged, 530 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-5F)	3,431.92	466.09
For 300 PSIG, Add	408.95	
23 21 16 00-0377 EA 6" Flanged, 850 GPM, 125 PSI, Vortex Air Separator (Rolairtrol RL-6F)	3,994.11	527.78
For 300 PSIG, Add	479.17	
23 21 16 00-0378 EA 8" Flanged, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8F)	10,959.60	633.16
For 300 PSIG, Add	1,500.00	
23 21 16 00-0379 EA 10" Flanged, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10F)	7,381.61	719.70
For 300 PSIG, Add	943.67	
23 21 16 00-0380 EA 12" Flanged, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12F)	11,364.89	931.32
For 300 PSIG, Add	1,493.06	
23 21 16 00-0381 EA 14" Flanged, 6,100 GPM Vortex Air Separator (Rolairtrol RL-14F)	19,320.44	1,130.95
For 300 PSIG, Add	2,641.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0382 EA 16" Flanged, 8,000 GPM Vortex Air Separator (Rolairtrol RL-16F)..... <i>For 300 PSIG, Add</i>	24,472.35 3,362.41	1,357.14
23 21 16 00-0383 EA 18" Flanged, 9,700 GPM Vortex Air Separator (Rolairtrol RL-18F)..... <i>For 300 PSIG, Add</i>	32,706.20 4,546.08	1,583.32
23 21 16 00-0384 EA 20" Flanged, 12,000 GPM Vortex Air Separator (Rolairtrol RL-20F)..... <i>For 300 PSIG, Add</i>	44,705.69 6,294.60	1,809.52
23 21 16 00-0385 EA 22" Flanged, 15,000 GPM Vortex Air Separator (Rolairtrol RL-22F)..... <i>For 300 PSIG, Add</i>	54,735.57 7,747.67	2,035.71
23 21 16 00-0386 EA 24" Flanged, 17,000 GPM Vortex Air Separator (Rolairtrol RL-24F)..... <i>For 300 PSIG, Add</i>	64,765.45 9,200.75	2,261.90
23 21 16 00-0387 Grooved, With Strainer, Vortex Air Separators ^(23 21 16)		
23 21 16 00-0388 EA 3" Grooved, 190 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-3G).....	2,088.72	234.42
23 21 16 00-0389 EA 4" Grooved, 300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-4G).....	2,957.86	312.36
23 21 16 00-0390 EA 5" Grooved, 500 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-5G).....	3,738.31	372.53
23 21 16 00-0391 EA 6" Grooved, 700 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-6G).....	4,441.12	422.22
23 21 16 00-0392 EA 8" Grooved, 1,300 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-8G).....	6,405.54	506.66
23 21 16 00-0393 EA 10" Grooved, 2,000 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-10G).....	10,337.37	575.75
23 21 16 00-0394 EA 12" Grooved, 2,750 GPM, With Strainer, Vortex Air Separator (Rolairtrol R-12G).....	15,730.11	745.14
23 21 16 00-0395 Grooved Vortex Air Separators ^(23 21 16)		
Note: Without system strainer.		
23 21 16 00-0396 EA 3" Grooved, 190 GPM Vortex Air Separator (Rolairtrol RL-3G).....	1,666.91	234.42
23 21 16 00-0397 EA 4" Grooved, 300 GPM Vortex Air Separator (Rolairtrol RL-4G).....	2,530.91	312.36
23 21 16 00-0398 EA 5" Grooved, 530 GPM Vortex Air Separator (Rolairtrol RL-5G).....	3,290.78	372.53
23 21 16 00-0399 EA 6" Grooved, 850 GPM Vortex Air Separator (Rolairtrol RL-6G).....	3,834.12	422.22
23 21 16 00-0400 EA 8" Grooved, 1,900 GPM Vortex Air Separator (Rolairtrol RL-8G).....	5,119.53	506.66
23 21 16 00-0401 EA 10" Grooved, 3,600 GPM Vortex Air Separator (Rolairtrol RL-10G).....	7,523.58	575.75
23 21 16 00-0402 EA 12" Grooved, 4,800 GPM Vortex Air Separator (Rolairtrol RL-12G).....	12,485.18	745.14
23 21 16 00-0403 Swivel Joints ^(23 21 16)		
23 21 16 00-0404 Carbon Steel, Straight Through Swivel Joint (Dixon Style 20) ^(23 21 16 00-0403)		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0405 EA 1" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	291.08	25.35
23 21 16 00-0406 EA 1-1/2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	418.27	37.12
23 21 16 00-0407 EA 2" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	586.05	43.39
23 21 16 00-0408 EA 3" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	874.49	74.24
23 21 16 00-0409 EA 4" Threaded, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)..... <i>For Stainless Steel, Add</i>	1,108.32 1,409.39	84.37
23 21 16 00-0410 EA 2" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20)..... <i>For Stainless Steel, Add</i>	817.35 984.99	128.52
23 21 16 00-0411 EA 3" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,104.28	102.54
23 21 16 00-0412 EA 4" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	1,407.76	274.79
23 21 16 00-0413 EA 6" Flanged, Carbon Steel, Straight Through Swivel Joint (Dixon Style 20).....	2,608.45	347.09
23 21 16 00-0414 Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30) ^(23 21 16 00-0403)		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0415 EA 1" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	370.12 479.06	25.35
23 21 16 00-0416 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	455.60 572.15	37.12
23 21 16 00-0417 EA 2" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	613.75 789.15	43.39
23 21 16 00-0418 EA 3" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	986.50 1,257.26	74.24
23 21 16 00-0419 EA 4" Threaded, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	1,291.26 1,683.80	84.37
23 21 16 00-0420 EA 2" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	842.67 1,022.97	128.52
23 21 16 00-0421 EA 3" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	1,249.27 1,566.20	102.54
23 21 16 00-0422 EA 4" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	1,575.14 1,846.20	274.79
23 21 16 00-0423 EA 6" Flanged, Carbon Steel, Single Swivel/Single Elbow Swivel Joint (Dixon Style 30)..... <i>For Stainless Steel, Add</i>	2,724.04 3,432.93	347.09
23 21 16 00-0424 Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40) ^(23 21 16 00-0403)		
Note: Includes BUNA-N Seat. For oil, gasoline, water, air, gas, and chemicals.		
23 21 16 00-0425 EA 1" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	435.36 576.92	25.35
23 21 16 00-0426 EA 1-1/2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	505.38 646.82	37.12
23 21 16 00-0427 EA 2" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	738.87 976.83	43.39
23 21 16 00-0428 EA 3" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)..... <i>For Stainless Steel, Add</i>	1,137.08 1,483.13	74.24

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0429 EA 4" Threaded, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	1,341.04	84.37
<i>For Stainless Steel, Add</i>	1,758.47	
23 21 16 00-0430 EA 2" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	967.12	128.52
<i>For Stainless Steel, Add</i>	1,209.65	
23 21 16 00-0431 EA 3" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	1,403.58	102.54
<i>For Stainless Steel, Add</i>	1,797.66	
23 21 16 00-0432 EA 4" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	1,734.43	274.79
<i>For Stainless Steel, Add</i>	2,085.14	
23 21 16 00-0433 EA 6" Flanged, Carbon Steel, Single Swivel/Double Elbow Swivel Joint (Dixon Style 40)	3,066.27	347.09
<i>For Stainless Steel, Add</i>	3,946.28	
23 21 16 00-0434 Basket Strainers (23 21 16)		
23 21 16 00-0435 Bronze Body Basket Strainers (23 21 16 00-0434)		
23 21 16 00-0436 Screwed Ends, Bronze Body Basket Strainers (23 21 16 00-0435)		
23 21 16 00-0437 EA 1/2" Screwed Ends, Bronze Body Basket Strainer	213.33	19.29
<i>For Work In Restricted Working Space, Add</i>	11.48	
23 21 16 00-0438 EA 3/4" Screwed Ends, Bronze Body Basket Strainer	252.06	22.66
<i>For Work In Restricted Working Space, Add</i>	13.49	
23 21 16 00-0439 EA 1" Screwed Ends, Bronze Body Basket Strainer	292.71	26.99
<i>For Work In Restricted Working Space, Add</i>	16.07	
23 21 16 00-0440 EA 1-1/4" Screwed Ends, Bronze Body Basket Strainer	362.95	29.89
<i>For Work In Restricted Working Space, Add</i>	17.92	
23 21 16 00-0441 EA 1-1/2" Screwed Ends, Bronze Body Basket Strainer	427.88	33.74
<i>For Work In Restricted Working Space, Add</i>	20.23	
23 21 16 00-0442 EA 2" Screwed Ends, Bronze Body Basket Strainer	632.19	38.56
<i>For Work In Restricted Working Space, Add</i>	23.17	
23 21 16 00-0443 EA 2-1/2" Screwed Ends, Bronze Body Basket Strainer	892.97	51.58
<i>For Work In Restricted Working Space, Add</i>	31.03	
23 21 16 00-0444 EA 3" Screwed Ends, Bronze Body Basket Strainer	1,248.24	54.96
<i>For Work In Restricted Working Space, Add</i>	32.91	
23 21 16 00-0445 Flanged, Bronze Body Basket Strainers (23 21 16 00-0435)		
23 21 16 00-0446 EA 2" Flanged, Bronze Body Basket Strainer	1,001.73	128.52
<i>For Work In Restricted Working Space, Add</i>	48.21	
23 21 16 00-0447 EA 2-1/2" Flanged, Bronze Body Basket Strainer	1,491.21	139.80
<i>For Work In Restricted Working Space, Add</i>	52.59	
23 21 16 00-0448 EA 3" Flanged, Bronze Body Basket Strainer	1,692.69	163.91
<i>For Work In Restricted Working Space, Add</i>	61.54	
23 21 16 00-0449 EA 4" Flanged, Bronze Body Basket Strainer	2,861.73	274.78
<i>For Work In Restricted Working Space, Add</i>	103.30	
23 21 16 00-0450 EA 6" Flanged, Bronze Body Basket Strainer	5,364.51	308.44
<i>For Work In Restricted Working Space, Add</i>	116.08	
23 21 16 00-0451 EA 8" Flanged, Bronze Body Basket Strainer	9,729.57	394.12
<i>For Work In Restricted Working Space, Add</i>	146.88	
23 21 16 00-0452 Iron Body Basket Strainers (23 21 16 00-0434)		
23 21 16 00-0453 Screwed Ends, Iron Body Basket Strainers (23 21 16 00-0452)		
23 21 16 00-0454 EA 1/2" Screwed Ends, Iron Body Basket Strainer	334.54	19.29
<i>For Work In Restricted Working Space, Add</i>	11.48	
23 21 16 00-0455 EA 3/4" Screwed Ends, Iron Body Basket Strainer	376.56	22.66
<i>For Work In Restricted Working Space, Add</i>	13.49	
23 21 16 00-0456 EA 1" Screwed Ends, Iron Body Basket Strainer	444.97	26.99
<i>For Work In Restricted Working Space, Add</i>	16.07	
23 21 16 00-0457 EA 1-1/4" Screwed Ends, Iron Body Basket Strainer	584.32	29.89
<i>For Work In Restricted Working Space, Add</i>	17.92	
23 21 16 00-0458 EA 1-1/2" Screwed Ends, Iron Body Basket Strainer	640.96	33.74
<i>For Work In Restricted Working Space, Add</i>	20.23	
23 21 16 00-0459 EA 2" Screwed Ends, Iron Body Basket Strainer	762.19	38.56
<i>For Work In Restricted Working Space, Add</i>	23.17	
23 21 16 00-0460 EA 2-1/2" Screwed Ends, Iron Body Basket Strainer	1,081.95	51.58
<i>For Work In Restricted Working Space, Add</i>	31.03	
23 21 16 00-0461 EA 3" Screwed Ends, Iron Body Basket Strainer	1,224.12	54.96
<i>For Work In Restricted Working Space, Add</i>	32.91	
23 21 16 00-0462 Flanged, Iron Body Basket Strainers (23 21 16 00-0452)		
23 21 16 00-0463 EA 2" Flanged, Iron Body Basket Strainer	734.05	128.52
<i>For Work In Restricted Working Space, Add</i>	48.21	
23 21 16 00-0464 EA 2-1/2" Flanged, Iron Body Basket Strainer	948.09	139.80
<i>For Work In Restricted Working Space, Add</i>	52.59	
23 21 16 00-0465 EA 3" Flanged, Iron Body Basket Strainer	1,027.79	163.91
<i>For Work In Restricted Working Space, Add</i>	61.54	
23 21 16 00-0466 EA 4" Flanged, Iron Body Basket Strainer	1,582.47	274.78
<i>For Work In Restricted Working Space, Add</i>	103.30	
23 21 16 00-0467 EA 6" Flanged, Iron Body Basket Strainer	2,796.72	308.44
<i>For Work In Restricted Working Space, Add</i>	116.08	
23 21 16 00-0468 EA 8" Flanged, Iron Body Basket Strainer	4,935.23	394.12
<i>For Work In Restricted Working Space, Add</i>	146.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 16 00-0469 EA 10" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	7,288.97 179.92	479.80
23 21 16 00-0470 EA 12" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	9,145.32 362.90	604.89
23 21 16 00-0471 EA 14" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	10,869.85 257.03	685.43
23 21 16 00-0472 EA 16" Flanged, Iron Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	11,412.56 282.74	753.96
23 21 16 00-0473 Cast Steel Body Basket Strainers (23 21 16 00-0434)		
23 21 16 00-0474 Screwed Ends, Cast Steel Body Basket Strainers (23 21 16 00-0473)		
23 21 16 00-0475 EA 1" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	508.94 16.07	26.99
23 21 16 00-0476 EA 1-1/4" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	667.54 17.92	29.89
23 21 16 00-0477 EA 1-1/2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	752.41 20.22	33.74
23 21 16 00-0478 EA 2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,051.64 23.16	38.56
23 21 16 00-0479 EA 2-1/2" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,473.41 31.02	51.58
23 21 16 00-0480 EA 3" Screwed Ends, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,904.22 32.91	54.96
23 21 16 00-0481 Flanged, Cast Steel Body Basket Strainers (23 21 16 00-0473)		
23 21 16 00-0482 EA 2" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,578.93 48.21	128.52
23 21 16 00-0483 EA 2-1/2" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,249.60 52.59	139.80
23 21 16 00-0484 EA 3" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	2,472.40 61.54	163.91
23 21 16 00-0485 EA 4" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	3,528.16 103.30	274.78
23 21 16 00-0486 EA 6" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	6,127.46 116.08	308.44
23 21 16 00-0487 EA 8" Flanged, Cast Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	9,896.32 146.88	394.12
23 21 16 00-0488 Stainless Steel Body Basket Strainers (23 21 16 00-0434)		
23 21 16 00-0489 Screwed Ends, Stainless Steel Body Basket Strainers (23 21 16 00-0488)		
23 21 16 00-0490 EA 1" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	341.78 16.07	26.99
23 21 16 00-0491 EA 1-1/4" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	486.35 17.92	29.89
23 21 16 00-0492 EA 1-1/2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	504.02 20.22	33.74
23 21 16 00-0493 EA 2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	737.83 23.16	38.56
23 21 16 00-0494 EA 2-1/2" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,040.84 31.02	51.58
23 21 16 00-0495 EA 3" Screwed Ends, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,458.08 32.91	54.96
23 21 16 00-0496 Flanged, Stainless Steel Body Basket Strainers (23 21 16 00-0488)		
23 21 16 00-0497 EA 2" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,143.79 48.21	128.52
23 21 16 00-0498 EA 2-1/2" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,706.30 52.59	139.80
23 21 16 00-0499 EA 3" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	1,934.48 61.54	163.91
23 21 16 00-0500 EA 4" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	3,269.37 103.30	274.78
23 21 16 00-0501 EA 6" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	4,952.84 116.08	308.44
23 21 16 00-0502 EA 8" Flanged, Stainless Steel Body Basket Strainer <i>For Work In Restricted Working Space, Add</i>	8,537.00 146.88	394.12
23 21 23 Hydronic Pumps (23 21)		
23 21 23 13 In-Line Centrifugal Hydronic Pumps (23 21 23)		
23 21 23 13-0001 Cast Iron Single Stage In-Line Centrifugal Pump (23 21 23 13) Note: For general service, 125 LB flanged, 3550 RPM TEFC motor. Includes packed stuffing boxes and ductile iron case.		
23 21 23 13-0002 EA 50 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 100' Head And 3 HP <i>For Mechanical Seal, Add</i> <i>For Cast Steel Case, Add</i>	3,210.95 195.10 438.99	257.51

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

SAN BERNARDINO
COUNTY

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 13-0003	EA		75 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 100' Head And 5 HP.....	3,549.15	311.68
			<i>For Mechanical Seal, Add</i>	209.16	
			<i>For Cast Steel Case, Add</i>	470.60	
23 21 23 13-0004	EA		100 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 150' Head And 7-1/2 HP.....	4,116.24	370.28
			<i>For Mechanical Seal, Add</i>	240.50	
			<i>For Cast Steel Case, Add</i>	541.13	
23 21 23 13-0005	EA		125 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 150' Head And 10 HP.....	4,567.29	493.71
			<i>For Mechanical Seal, Add</i>	246.99	
			<i>For Cast Steel Case, Add</i>	555.72	
23 21 23 13-0006	EA		150 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 200' Head And 15 HP.....	5,374.31	538.11
			<i>For Mechanical Seal, Add</i>	300.79	
			<i>For Cast Steel Case, Add</i>	676.77	
23 21 23 13-0007	EA		200 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 300' Head And 30 HP.....	7,734.45	592.27
			<i>For Mechanical Seal, Add</i>	476.68	
			<i>For Cast Steel Case, Add</i>	1,072.54	
23 21 23 13-0008	EA		250 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 300' Head And 40 HP.....	9,151.16	739.68
			<i>For Mechanical Seal, Add</i>	554.50	
			<i>For Cast Steel Case, Add</i>	1,247.63	
23 21 23 13-0009	EA		300 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 300' Head And 50 HP.....	8,009.15	845.34
			<i>For Mechanical Seal, Add</i>	437.77	
			<i>For Cast Steel Case, Add</i>	984.98	
23 21 23 13-0010	EA		400 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 400' Head And 75 HP.....	15,602.99	888.48
			<i>For Mechanical Seal, Add</i>	1,035.00	
			<i>For Cast Steel Case, Add</i>	2,328.74	
23 21 23 13-0011	EA		600 GPM Cast Iron Single Stage In-Line Centrifugal Pump, Single Stage With 400' Head And 100 HP.....	17,280.70	1,142.09
			<i>For Mechanical Seal, Add</i>	1,108.29	
			<i>For Cast Steel Case, Add</i>	2,493.64	

23 21 23 16 Base-Mounted, Centrifugal Hydronic Pumps (23 21 23)

See CSI section 26 29 23 00-0000 for variable frequency motor controllers.

23 21 23 16-0001 Single Stage, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)

Note: 1800 RPM, welded steel baseplate, internally flushed mechanical seal, bronze wear ring, galvanized drip pan, and 3 phase 230/460V premium efficiency motor. Bell & Gossett 1510 Series.

23 21 23 16-0002	EA		5 HP, 50 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/4 BC, BF, 184T).....	3,670.27	281.48
23 21 23 16-0003	EA		7.5 HP, 100 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 1-1/2 BC, BF, 213T).....	4,096.33	281.84
23 21 23 16-0004	EA		10 HP, 225 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 215T).....	5,379.92	370.28
23 21 23 16-0005	EA		15 HP, 250 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 2 E, BF, 254T).....	5,946.31	455.53
23 21 23 16-0006	EA		15 HP, 300 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 G, BF, 254T).....	6,600.63	455.53
23 21 23 16-0007	EA		20 HP, 350 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 3 E, BF, 256T).....	6,471.86	493.71
23 21 23 16-0008	EA		20 HP, 500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 256T).....	6,843.87	493.71
23 21 23 16-0009	EA		25 HP, 600 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 4 E, BF, 284T).....	7,470.88	517.69
23 21 23 16-0010	EA		30 HP, 750 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 286T).....	8,382.61	657.98
23 21 23 16-0011	EA		40 HP, 1,050 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 5 E, BF, 324T).....	8,916.00	739.68
23 21 23 16-0012	EA		60 HP, 1,500 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 6 E, BF, 364T).....	14,435.42	1,749.83
23 21 23 16-0013	EA		75 HP, 2,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 365T).....	20,438.81	2,099.43
23 21 23 16-0014	EA		100 HP, 3,000 GPM At 100' Head Single Stage Cast Iron Centrifugal Pump (B&G 1510, 8 G, BF, 404TS).....	23,452.13	2,624.28

23 21 23 16-0015 Single Stage, Vertical Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump (23 21 23 16)

Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.

23 21 23 16-0016	EA		40 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 1-1/2 HP.....	1,507.11	206.89
			<i>For 300 LB Flanges, Add</i>	283.50	
23 21 23 16-0017	EA		50 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 2 HP.....	1,728.67	221.99
			<i>For 300 LB Flanges, Add</i>	348.92	
23 21 23 16-0018	EA		90 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 3 HP.....	2,136.25	237.09
			<i>For 300 LB Flanges, Add</i>	435.40	
23 21 23 16-0019	EA		100 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 5 HP.....	2,555.04	281.48
			<i>For 300 LB Flanges, Add</i>	511.91	
23 21 23 16-0020	EA		150 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 7.5 HP.....	2,684.64	281.84
			<i>For 300 LB Flanges, Add</i>	537.96	
23 21 23 16-0021	EA		200 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 10 HP.....	2,998.44	370.28
			<i>For 300 LB Flanges, Add</i>	583.12	
23 21 23 16-0022	EA		225 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 10 HP.....	2,998.44	370.28
			<i>For 300 LB Flanges, Add</i>	583.12	
23 21 23 16-0023	EA		250 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 10 HP.....	2,998.44	370.28
			<i>For 300 LB Flanges, Add</i>	583.12	
23 21 23 16-0024	EA		300 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 15 HP.....	3,661.40	455.53
			<i>For 300 LB Flanges, Add</i>	710.44	
23 21 23 16-0025	EA		350 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 15 HP.....	3,745.52	455.17
			<i>For 300 LB Flanges, Add</i>	723.20	
23 21 23 16-0026	EA		500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 20 HP.....	3,933.55	493.71
			<i>For 300 LB Flanges, Add</i>	761.40	
23 21 23 16-0027	EA		600 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 25 HP.....	4,295.59	517.69
			<i>For 300 LB Flanges, Add</i>	834.17	
23 21 23 16-0028	EA		750 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 30 HP.....	4,914.42	657.98
			<i>For 300 LB Flanges, Add</i>	932.62	
23 21 23 16-0029	EA		1,050 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 40 HP.....	5,559.99	739.68
			<i>For 300 LB Flanges, Add</i>	1,057.01	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0030 EA 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 60 HP <i>For 300 LB Flanges, Add</i>	9,774.02 1,599.99	1,749.83
23 21 23 16-0031 EA 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 75 HP <i>For 300 LB Flanges, Add</i>	11,674.37 1,906.37	2,099.43
23 21 23 16-0032 EA 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Vertical Split Case, 100 HP <i>For 300 LB Flanges, Add</i>	14,159.22 2,274.53	2,624.28
23 21 23 16-0033 Single Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small> Note: 125 LB flanged, 1750 RPM drip-proof motor, common base plate 100' head. Standard seal and motor. For general service.		
23 21 23 16-0034 EA 40 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 1-1/2" HP <i>For 300 LB Flanges, Add</i>	2,100.33 431.81	206.89
23 21 23 16-0035 EA 50 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 2 HP <i>For 300 LB Flanges, Add</i>	2,174.61 443.75	221.99
23 21 23 16-0036 EA 90 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 3 HP <i>For 300 LB Flanges, Add</i>	2,249.02 455.70	237.09
23 21 23 16-0037 EA 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 5 HP <i>For 300 LB Flanges, Add</i>	2,413.71 494.25	242.42
23 21 23 16-0038 EA 100 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 7.5 HP <i>For 300 LB Flanges, Add</i>	3,709.28 800.47	281.48
23 21 23 16-0039 EA 250 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 10 HP <i>For 300 LB Flanges, Add</i>	4,838.05 1,065.55	370.28
23 21 23 16-0040 EA 350 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 15 HP <i>For 300 LB Flanges, Add</i>	5,024.64 1,089.67	399.58
23 21 23 16-0041 EA 500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 20 HP <i>For 300 LB Flanges, Add</i>	5,442.25 1,155.65	443.98
23 21 23 16-0042 EA 750 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 25 HP <i>For 300 LB Flanges, Add</i>	5,936.06 1,284.10	444.67
23 21 23 16-0043 EA 1,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 40 HP <i>For 300 LB Flanges, Add</i>	6,798.07 1,442.48	571.47
23 21 23 16-0044 EA 1,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 50 HP <i>For 300 LB Flanges, Add</i>	8,673.09 1,830.87	700.13
23 21 23 16-0045 EA 2,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 75 HP <i>For 300 LB Flanges, Add</i>	9,958.86 2,067.96	874.45
23 21 23 16-0046 EA 3,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 100 HP <i>For 300 LB Flanges, Add</i>	13,766.31 2,935.47	1,049.71
23 21 23 16-0047 EA 3,500 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 150 HP <i>For 300 LB Flanges, Add</i>	24,419.46 5,542.52	1,165.93
23 21 23 16-0048 EA 4,000 GPM Cast Iron Centrifugal Pump, Single Stage, Horizontal Split Case, 200 HP <i>For 300 LB Flanges, Add</i>	26,511.60 5,904.88	1,499.59
23 21 23 16-0049 Two Stage, Horizontal Split Case, Cast Iron, Horizontal End Suction, Base Mounted Centrifugal Pump <small>(23 21 23 16)</small> Note: 3500 RPM drip-proof motor, common base plate 500' head. Packed stuffing box and boiler feed water service.		
23 21 23 16-0050 EA 100 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 40 HP <i>For 300 LB Flanges, Add</i>	6,917.58 1,524.48	455.53
23 21 23 16-0051 EA 200 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 50 HP <i>For 300 LB Flanges, Add</i>	7,493.66 1,651.42	493.71
23 21 23 16-0052 EA 300 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 75 HP <i>For 300 LB Flanges, Add</i>	9,141.82 1,987.91	649.81
23 21 23 16-0053 EA 400 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 100 HP <i>For 300 LB Flanges, Add</i>	17,222.75 3,896.57	892.88
23 21 23 16-0054 EA 800 GPM Cast Iron Centrifugal Pump, Two Stage, Horizontal Split Case, 200 HP <i>For 300 LB Flanges, Add</i>	21,291.52 4,777.39	1,190.51
23 21 23 16-0055 Cast Iron Close Coupling Pumps <small>(23 21 23 16)</small>		
23 21 23 16-0056 Foot Mounted Cast Iron Close Coupled Pumps <small>(23 21 23 16-0055)</small>		
23 21 23 16-0057 EA 3 HP, 90 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 1-1/2 AC, BF, 182JM).....	3,300.28	266.39
23 21 23 16-0058 EA 3 HP, 150 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 AB, BF, 182JM).....	3,567.89	266.39
23 21 23 16-0059 EA 5 HP, 225 GPM At 50' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 2-1/2 BB, BF, 184JM).....	3,951.94	281.19
23 21 23 16-0060 EA 5 HP, 350 GPM At 25' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 184JM).....	4,188.67	281.19
23 21 23 16-0061 EA 7.5 HP, 350 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 4 AC, BF, 213JM).....	4,785.93	295.69
23 21 23 16-0062 EA 10 HP, 600 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 5 A, BF, 215JM).....	5,680.60	356.99
23 21 23 16-0063 EA 15 HP, 1,000 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 254JP).....	7,427.38	439.78
23 21 23 16-0064 EA 20 HP, 1,350 GPM At 30' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 256JP).....	7,956.46	475.99
23 21 23 16-0065 EA 25 HP, 1,550 GPM At 40' Head, Foot Mounted, Close Coupled Cast Iron Centrifugal Pump (B&G 1531, 6 BC, BF, 284JP).....	9,176.39	514.06

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 21 Hydronic Piping And Pumps**

SAN BERNARDINO
COUNTY

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 21 23 16-0066		Pumps, Polypropylene Body, Housing And Impeller, 115/230 Volt ^(23 21 23 16)		
23 21 23 16-0067	EA	1/3 HP, Centrifugal Pump, Polypropylene Body.....	857.43	137.59
23 21 23 16-0068	EA	1/2 HP, Centrifugal Pump, Polypropylene Body.....	914.08	145.88
23 21 23 16-0069	EA	3/4 HP, Centrifugal Pump, Polypropylene Body.....	1,055.21	155.33
23 21 23 23		Vertical-Turbine Hydronic Pumps ^(23 21 23)		
		See CSI section 26 29 23 00-0000 for variable frequency motor controllers.		
23 21 23 23-0001		Cast Iron, Bronze Fitted Vertical Turbine Wet Sump Pumps ^(23 21 23 23)		
		Note: For water supply, cooling towers and process liquids. Multi-stage 1750 RPM drip-proof motor. For 1' to 5' sump depth.		
23 21 23 23-0002	EA	50 GPM Cast Iron Turbine Pump, 3" Discharge 100' Head, 10 Stage, 2 HP.....	4,416.57	657.98
		For Each Extra Column Assembly <60", Add	392.79	
		For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add	137.20	
		For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	93.03	
23 21 23 23-0003	EA	100 GPM Cast Iron Turbine Pump, 4" Discharge 100' Head, 7 Stage, 3 HP.....	4,572.11	739.68
		For Each Extra Column Assembly <60", Add	405.55	
		For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add	143.10	
		For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	97.38	
23 21 23 23-0004	EA	250 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 5 Stage, 15 HP.....	5,582.08	700.13
		For Each Extra Column Assembly <60", Add	496.78	
		For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add	173.07	
		For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	117.25	
23 21 23 23-0005	EA	500 GPM Cast Iron Turbine Pump, 6" Discharge 150' Head, 3 Stage, 25 HP.....	5,946.28	807.91
		For Each Extra Column Assembly <60", Add	527.61	
		For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add	185.94	
		For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	126.48	
23 21 23 23-0006	EA	1,000 GPM Cast Iron Turbine Pump, 8" Discharge 150' Head, 2 Stage, 50 HP.....	7,035.19	874.45
		For Each Extra Column Assembly <60", Add	619.05	
		For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add	225.17	
		For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	154.82	
23 21 23 23-0007	EA	2,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 3 Stage, 100 HP.....	10,417.05	1,049.71
		For Each Extra Column Assembly <60", Add	900.85	
		For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add	349.20	
		For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	245.03	
23 21 23 23-0008	EA	3,000 GPM Cast Iron Turbine Pump, 10" Discharge 150' Head, 2 Stage, 150 HP.....	12,591.52	1,312.14
		For Each Extra Column Assembly <60", Add	1,091.67	
		For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add	419.31	
		For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	293.39	
23 21 23 23-0009	EA	4,000 GPM Cast Iron Turbine Pump, 12" Discharge 150' Head, 2 Stage, 200 HP.....	18,833.86	1,499.59
		For Each Extra Column Assembly <60", Add	1,603.11	
		For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add	656.95	
		For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	468.61	
23 21 23 23-0010	EA	6,000 GPM Cast Iron Turbine Pump, 14" Discharge 150' Head, 2 Stage, 300 HP.....	24,215.81	1,749.83
		For Each Extra Column Assembly <60", Add	2,049.73	
		For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add	856.16	
		For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	614.01	
23 21 23 23-0011	EA	10,000 GPM Cast Iron Turbine Pump, 18" Discharge 100' Head, 2 Stage, 300 HP.....	33,126.20	2,099.43
		For Each Extra Column Assembly <60", Add	2,785.06	
		For Basket Strainer, Galvanized, Steel Pipe Sizes 3" To 8", Add	1,190.09	
		For Basket Strainer, Galvanized Steel Pipe Sizes 10" And Larger, Add	858.82	
23 21 29		Automatic Condensate Pump Units ^(23 21)		
23 21 29 00-0001		Automatic Shallow Pan Condensate Pump ^(23 21 29)		
23 21 29 00-0002	EA	1/150 HP, 205 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 1-ABS).....	176.07	28.86
23 21 29 00-0003	EA	1/40 HP, 300 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 2-ABS).....	190.88	28.86
23 21 29 00-0004	EA	1/12 HP, 310 GPH (Max) Automatic Shallow Pan Condensate Pump (Little Giant 3-ABS).....	297.19	33.30
23 21 29 00-0005		Automatic Condensate Pump With Tank ^(23 21 29)		
23 21 29 00-0006	EA	1/20 HP Automatic Condensate Pump With Tank (Hartell KT-15-1UL).....	96.82	22.20
23 21 29 00-0007	EA	1/30 HP Automatic Condensate Pump With Tank (Little Giant VCMX-20).....	103.14	22.20
23 21 29 00-0008	EA	1/50 HP, 200 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-14ULS).....	171.23	28.86
23 21 29 00-0009	EA	1/18 HP, 270 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-24ULS).....	184.95	33.30
23 21 29 00-0010	EA	1/5 HP, 450 GPH (Max) Automatic Condensate Removal Pump With Safety Switch (Little Giant VCL-45ULS).....	340.51	37.74
		Condensate Pump.....		
23 22		Steam And Condensate Piping And Pumps ^(23 20)		
23 22 16		Steam And Condensate Heating Piping Specialties ^(23 22)		
23 22 16 00-0001		High Temperature Safety Relief Valve ^(23 22 16)		
		Note: Used in steam or water boiler, heating systems and unfired pressure vessel applications.		
23 22 16 00-0002		Cast Iron Body Safety Valve, Steam Or Water ^(23 22 16 00-0001)		
		Note: Variable set points to 500 psig pressure, 400 Degree F temperature range.		
23 22 16 00-0003		Threaded ^(23 22 16 00-0002)		
23 22 16 00-0004	EA	3/4" x 1" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	450.68	14.46
23 22 16 00-0005	EA	1" x 1-1/4" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	470.87	17.11
23 22 16 00-0006	EA	1-1/4" x 1-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water.....	518.28	21.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0007 EA 1-1/2" x 2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	640.33	24.10
23 22 16 00-0008 EA 2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	820.28	29.64
23 22 16 00-0009 EA 2-1/2" x 2-1/2" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,277.71	33.73
23 22 16 00-0010 EA 3" x 3" Threaded Cast Iron Body Safety Relief Valve, Steam or Water	1,383.83	38.79
23 22 16 00-0011 Flanged <small>(23 22 16 00-0002)</small>		
23 22 16 00-0012 EA 1-1/2" x 2-1/2" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	3,202.66	101.21
23 22 16 00-0013 EA 2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	3,724.04	152.13
23 22 16 00-0014 EA 2-1/2" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	4,118.06	140.08
23 22 16 00-0015 EA 2-1/2" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	4,997.52	202.33
23 22 16 00-0016 EA 3" x 3" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	5,342.48	150.89
23 22 16 00-0017 EA 3" x 4" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	6,273.66	202.33
23 22 16 00-0018 EA 4" x 6" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	10,505.69	287.13
23 22 16 00-0019 EA 6" x 8" Flanged Cast Iron Body Safety Relief Valve, Steam or Water	20,930.39	320.66
23 22 16 00-0020 Bronze Body Safety Valve, Threaded, Steam <small>(23 22 16 00-0001)</small>		
<small>Note: Variable set points to 250 psig pressure, 400 Degree F temperature range. Valve also can be set for Air or Gas with variable set points to 300 psig pressure.</small>		
23 22 16 00-0021 EA 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Steam	491.46	13.26
23 22 16 00-0022 EA 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Steam	503.03	14.46
23 22 16 00-0023 EA 1" x 1" Threaded Bronze Body Safety Relief Valve, Steam	589.23	15.90
23 22 16 00-0024 EA 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	650.88	17.11
23 22 16 00-0025 EA 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Steam	753.32	19.28
23 22 16 00-0026 EA 1-1/4" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	756.04	21.68
23 22 16 00-0027 EA 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Steam	851.04	22.89
23 22 16 00-0028 EA 1-1/2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	927.83	24.10
23 22 16 00-0029 EA 2" x 2" Threaded Bronze Body Safety Relief Valve, Steam	1,291.22	26.98
23 22 16 00-0030 EA 2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,411.10	29.64
23 22 16 00-0031 EA 2-1/2" x 2-1/2" Threaded Bronze Body Safety Relief Valve, Steam	1,684.47	33.73
23 22 16 00-0032 Bronze Body Safety Valve, Threaded, Water <small>(23 22 16 00-0001)</small>		
<small>Note: Variable set points to 160 psig pressure, 250 Degree F temperature range.</small>		
23 22 16 00-0033 EA 3/4" x 3/4" Threaded Bronze Body Safety Relief Valve, Water	227.99	13.26
23 22 16 00-0034 EA 3/4" x 1" Threaded Bronze Body Safety Relief Valve, Water	260.12	14.46
23 22 16 00-0035 EA 1" x 1" Threaded Bronze Body Safety Relief Valve, Water	362.28	15.90
23 22 16 00-0036 EA 1" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	399.08	17.11
23 22 16 00-0037 EA 1-1/4" x 1-1/4" Threaded Bronze Body Safety Relief Valve, Water	579.87	19.28
23 22 16 00-0038 EA 1-1/2" x 1-1/2" Threaded Bronze Body Safety Relief Valve, Water	783.69	22.89
23 22 16 00-0039 EA 2" x 2" Threaded Bronze Body Safety Relief Valve, Water	1,146.17	26.98
23 22 16 00-0040 Steam Temperature Regulator, Iron Body <small>(23 22 16)</small>		
23 22 16 00-0041 Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body <small>(23 22 16 00-0040)</small>		
<small>Note: Up to 150 PSI.</small>		
23 22 16 00-0042 EA 1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,223.47	13.88
23 22 16 00-0043 EA 3/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,286.35	18.70
23 22 16 00-0044 EA 1" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,707.51	23.03
23 22 16 00-0045 EA 1-1/4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,884.58	29.11
23 22 16 00-0046 EA 1-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,932.85	33.44
23 22 16 00-0047 EA 2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,284.70	36.39
23 22 16 00-0048 EA 2-1/2" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,903.47	66.66
23 22 16 00-0049 EA 3" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,185.35	72.69
23 22 16 00-0050 EA 4" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,255.30	170.15
23 22 16 00-0051 EA 6" Single Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	5,345.39	199.70
23 22 16 00-0052 Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body <small>(23 22 16 00-0040)</small>		
23 22 16 00-0053 EA 1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,815.39	13.88
23 22 16 00-0054 EA 3/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,879.17	18.70
23 22 16 00-0055 EA 1" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	1,962.07	23.03
23 22 16 00-0056 EA 1-1/4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,348.37	29.11
23 22 16 00-0057 EA 1-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,515.22	33.44
23 22 16 00-0058 EA 2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,856.58	36.39
23 22 16 00-0059 EA 2-1/2" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,375.07	66.66
23 22 16 00-0060 EA 3" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	3,001.95	72.69
23 22 16 00-0061 EA 4" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	4,212.62	170.15
23 22 16 00-0062 EA 6" Single Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	6,742.21	199.70
23 22 16 00-0063 Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body <small>(23 22 16 00-0040)</small>		
23 22 16 00-0064 EA 1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,475.35	13.88
23 22 16 00-0065 EA 3/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,510.34	18.70
23 22 16 00-0066 EA 1" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body	2,746.69	23.03

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 22 Steam And Condensate Piping And Pumps**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0067 EA 1-1/4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	2,990.02	29.11
23 22 16 00-0068 EA 1-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,097.59	33.44
23 22 16 00-0069 EA 2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,494.76	36.39
23 22 16 00-0070 EA 2-1/2" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,467.38	66.66
23 22 16 00-0071 EA 3" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,225.78	72.69
23 22 16 00-0072 EA 4" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	5,410.88	170.15
23 22 16 00-0073 EA 6" Double Seated Spring Loaded Direct Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	7,556.67	199.70
23 22 16 00-0074 Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body (23 22 16 00-0040)		
23 22 16 00-0075 EA 1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,172.79	13.88
23 22 16 00-0076 EA 3/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,204.30	18.70
23 22 16 00-0077 EA 1" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,479.00	23.03
23 22 16 00-0078 EA 1-1/4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,624.66	29.11
23 22 16 00-0079 EA 1-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	3,763.63	33.44
23 22 16 00-0080 EA 2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,098.03	36.39
23 22 16 00-0081 EA 2-1/2" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	6,816.10	66.66
23 22 16 00-0082 EA 3" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	4,439.00	72.69
23 22 16 00-0083 EA 4" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	5,624.10	170.15
23 22 16 00-0084 EA 6" Double Seated Spring Loaded Reverse Acting Diaphragm Valve, Steam Temperature Regulator, Iron Body.....	7,769.88	199.70
23 22 16 00-0085 Steam Traps (23 22 16)		
23 22 16 00-0086 Inverted Bucket Steam Traps (23 22 16 00-0085)		
23 22 16 00-0087 EA 1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	254.51	28.92
For Work In Restricted Working Space, Add	17.36	
23 22 16 00-0088 EA 3/4" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	256.92	30.13
For Work In Restricted Working Space, Add	18.08	
23 22 16 00-0089 EA 1" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	380.86	32.10
For Work In Restricted Working Space, Add	19.28	
23 22 16 00-0090 EA 1-1/4" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	615.28	43.82
For Work In Restricted Working Space, Add	26.30	
23 22 16 00-0091 EA 1-1/2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	914.88	54.00
For Work In Restricted Working Space, Add	32.14	
23 22 16 00-0092 EA 2" 250 PSI Inverted Bucket Cast Iron Steam Trap.....	1,168.59	80.34
For Work In Restricted Working Space, Add	48.21	
23 22 16 00-0093 Float And Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0094 EA 3/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	268.99	30.13
For Work In Restricted Working Space, Add	18.08	
23 22 16 00-0095 EA 1" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	353.67	32.13
For Work In Restricted Working Space, Add	19.28	
23 22 16 00-0096 EA 1-1/4" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	437.80	43.82
For Work In Restricted Working Space, Add	26.30	
23 22 16 00-0097 EA 1-1/2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	591.58	53.56
For Work In Restricted Working Space, Add	32.14	
23 22 16 00-0098 EA 2" 15 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	1,080.03	80.31
For Work In Restricted Working Space, Add	48.21	
23 22 16 00-0099 EA 3/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	341.66	30.13
For Work In Restricted Working Space, Add	18.08	
23 22 16 00-0100 EA 1" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	371.26	32.10
For Work In Restricted Working Space, Add	19.28	
23 22 16 00-0101 EA 1-1/4" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	485.76	43.82
For Work In Restricted Working Space, Add	26.30	
23 22 16 00-0102 EA 1-1/2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	697.10	53.51
For Work In Restricted Working Space, Add	32.14	
23 22 16 00-0103 EA 2" 30 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	1,187.16	80.34
For Work In Restricted Working Space, Add	48.21	
23 22 16 00-0104 EA 3/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	442.39	30.13
For Work In Restricted Working Space, Add	18.08	
23 22 16 00-0105 EA 1" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	492.77	32.13
For Work In Restricted Working Space, Add	19.28	
23 22 16 00-0106 EA 1-1/4" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	749.58	43.82
For Work In Restricted Working Space, Add	26.30	
23 22 16 00-0107 EA 1-1/2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	769.06	53.51
For Work In Restricted Working Space, Add	32.14	
23 22 16 00-0108 EA 2" 75 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	1,489.33	80.34
For Work In Restricted Working Space, Add	48.21	
23 22 16 00-0109 EA 3/4" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	448.78	30.13
For Work In Restricted Working Space, Add	18.08	
23 22 16 00-0110 EA 1" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	492.77	32.13
For Work In Restricted Working Space, Add	19.28	
23 22 16 00-0111 EA 1-1/4" 150 PSI Max Pressure Float And Thermostatic Steam Trap.....	749.58	43.82
For Work In Restricted Working Space, Add	26.30	
23 22 16 00-0112 EA 1-1/2" 150 PSI Max Pressure Float And Thermostatic Steam Trap.....	769.06	53.51
For Work In Restricted Working Space, Add	32.14	
23 22 16 00-0113 EA 2" 150 PSI Maximum Pressure Float And Thermostatic Steam Trap.....	1,489.33	80.34
For Work In Restricted Working Space, Add	48.21	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0114			Thermostatic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0115	EA		1/2" 25 PSI Maximum Pressure Thermostatic Steam Trap.....	132.03	28.92
			<i>For Work In Restricted Working Space, Add</i>	17.36	
23 22 16 00-0116	EA		3/4" 25 PSI Maximum Pressure Thermostatic Steam Trap.....	218.53	30.13
			<i>For Work In Restricted Working Space, Add</i>	18.08	
23 22 16 00-0117	EA		1" 25 PSI Maximum Pressure Thermostatic Steam Trap.....	269.29	32.10
			<i>For Work In Restricted Working Space, Add</i>	19.28	
23 22 16 00-0118			Thermodynamic Steam Traps (23 22 16 00-0085)		
23 22 16 00-0119	EA		3/8" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	287.27	26.04
23 22 16 00-0120	EA		1/2" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	406.41	28.92
23 22 16 00-0121	EA		3/4" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	503.14	30.13
23 22 16 00-0122	EA		1" 600 PSI Maximum Pressure Thermodynamic Steam Trap.....	673.44	32.10
23 22 16 00-0123			Steam Moisture Separator (23 22 16 00-0085)		
23 22 16 00-0124	EA		1/2" Steam Moisture Separator, Threaded (Spirax Sarco S1).....	592.08	48.21
23 22 16 00-0125	EA		3/4" Steam Moisture Separator, Threaded (Spirax Sarco S1).....	629.47	65.08
23 22 16 00-0126	EA		1" Steam Moisture Separator, Threaded (Spirax Sarco S1).....	757.31	73.27
23 22 16 00-0127	EA		1-1/2" Steam Moisture Separator, Threaded (Spirax Sarco S2).....	1,193.82	83.89
23 22 16 00-0128	EA		2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	1,465.45	128.52
23 22 16 00-0129	EA		2-1/2" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	2,201.91	139.80
23 22 16 00-0130	EA		3" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	2,520.80	163.91
23 22 16 00-0131	EA		4" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	3,477.10	274.79
23 22 16 00-0132	EA		6" Steam Moisture Separator, Flanged (Spirax Sarco S3).....	6,772.41	347.09
23 22 16 00-0133			Steam/Condensate Meter (23 22 16)		
			Note: Meter shall be of the rotary volumetric type and sized on the maximum estimated steam demand.		
23 22 16 00-0134	EA		1" Steam/Condensate Meter.....	4,975.74	79.88
			<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
			<i>For Contactor Used For Dial Counter, Add</i>	567.00	
			<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
			<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
			<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0135	EA		2" Steam/Condensate Meter.....	5,613.79	93.86
			<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
			<i>For Contactor Used For Dial Counter, Add</i>	567.00	
			<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
			<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
			<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0136	EA		2-1/2" Steam/Condensate Meter.....	5,953.67	116.49
			<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
			<i>For Contactor Used For Dial Counter, Add</i>	567.00	
			<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
			<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
			<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0137	EA		3" Steam/Condensate Meter.....	6,312.19	153.10
			<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
			<i>For Contactor Used For Dial Counter, Add</i>	567.00	
			<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
			<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
			<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0138	EA		4" Steam/Condensate Meter.....	7,113.14	237.87
			<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
			<i>For Contactor Used For Dial Counter, Add</i>	567.00	
			<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
			<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
			<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0139	EA		6" Steam/Condensate Meter.....	12,187.12	300.88
			<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
			<i>For Contactor Used For Dial Counter, Add</i>	567.00	
			<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
			<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
			<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0140	EA		8" Steam/Condensate Meter.....	12,619.66	379.87
			<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
			<i>For Contactor Used For Dial Counter, Add</i>	567.00	
			<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
			<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
			<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0141	EA		10" Steam/Condensate Meter.....	13,198.70	465.97
			<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
			<i>For Contactor Used For Dial Counter, Add</i>	567.00	
			<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
			<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
			<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	
23 22 16 00-0142	EA		12" Steam/Condensate Meter.....	13,830.80	565.81
			<i>For Steam Meter Pressure-Compensated Counter, Add</i>	1,220.00	
			<i>For Contactor Used For Dial Counter, Add</i>	567.00	
			<i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i>	905.00	
			<i>For Direct Reading Pressure Gauge, Add</i>	79.82	
			<i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	64.52	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 20 HVAC Piping And Pumps

23 22 Steam And Condensate Piping And Pumps



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 16 00-0143	EA	14" Steam/Condensate Meter <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	14,720.99 1,220.00 567.00 905.00 79.82 64.52	665.67
23 22 16 00-0144	EA	16" Steam/Condensate Meter <i>For Steam Meter Pressure-Compensated Counter, Add</i> <i>For Contactor Used For Dial Counter, Add</i> <i>For Wall Or Panel Mounted Remote Totalizer With Contactor, Add</i> <i>For Direct Reading Pressure Gauge, Add</i> <i>For Direct Reading Thermometer, Stainless Steel Case With Trim, Add</i>	15,239.89 1,220.00 567.00 905.00 79.82 64.52	732.24
23 22 23 Steam Condensate Pumps (23 22)				
23 22 23 13 Electric-Driven Steam Condensate Pumps (23 22 23)				
23 22 23 13-0001		Simplex Condensate Pumps And Motors (23 22 23 13) Note: Cast iron receiver, float switch.		
23 22 23 13-0002		20 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0003	EA	3 To 6 GPM Simplex Condensate Pump And 1/3 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	1,881.98	451.98
23 22 23 13-0004	EA	9 To 12 GPM Simplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,437.44	464.41
23 22 23 13-0005	EA	15 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,547.44	495.48
23 22 23 13-0006	EA	22.5 GPM Simplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	2,813.25	500.82
23 22 23 13-0007	EA	30 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	3,146.15	545.21
23 22 23 13-0008	EA	37.5 GPM Simplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,670.04	545.21
23 22 23 13-0009	EA	45 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	4,742.29	582.50
23 22 23 13-0010	EA	60 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	5,802.60	609.14
23 22 23 13-0011	EA	75 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure	5,858.30	635.78
23 22 23 13-0012		30 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0013	EA	3 To 6 GPM Simplex Condensate Pump And 1/2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,165.68	483.05
23 22 23 13-0014	EA	9 To 12 GPM Simplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,845.20	495.48
23 22 23 13-0015	EA	15 GPM Simplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	2,952.14	528.34
23 22 23 13-0016	EA	22.5 GPM Simplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	3,420.91	570.96
23 22 23 13-0017	EA	30 To 37.5 GPM Simplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,742.29	583.40
23 22 23 13-0018	EA	45 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	4,872.61	603.82
23 22 23 13-0019	EA	60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,018.28	635.78
23 22 23 13-0020	EA	75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure	5,832.10	676.62
23 22 23 13-0021		40 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0022	EA	3 To 6 GPM Simplex Condensate Pump And 1 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	2,411.44	554.09
23 22 23 13-0023	EA	9 To 15 GPM Simplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	3,072.80	598.48
23 22 23 13-0024	EA	22.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	3,611.77	591.39
23 22 23 13-0025	EA	30 To 37.5 GPM Simplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,848.40	603.82
23 22 23 13-0026	EA	45 GPM Simplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	4,948.88	629.57
23 22 23 13-0027	EA	60 GPM Simplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,858.30	635.78
23 22 23 13-0028	EA	75 GPM Simplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure	5,934.98	676.62
23 22 23 13-0029		50 PSI Discharge Pressure (23 22 23 13-0001)		
23 22 23 13-0030	EA	3 To 6 GPM Simplex Condensate Pump And 2 HP Motor With 6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	4,620.04	600.27
23 22 23 13-0031	EA	9 To 15 GPM Simplex Condensate Pump And 2 HP Motor With 13.6 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure	3,315.71	612.70



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 22 23 13-0032 EA 22.5 GPM Simplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	3,824.81	617.14
23 22 23 13-0033 EA 30 To 45 GPM Simplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	5,024.35	671.30
23 22 23 13-0034 EA 60 To 75 GPM Simplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	7,983.81	723.69
23 22 23 13-0035 Duplex Condensate Pumps And Motors <small>(23 22 23 13)</small> Note: Cast iron receiver, float switch, alternator assembly.		
23 22 23 13-0036 20 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>		
23 22 23 13-0037 EA 9 To 12 GPM Duplex Condensate Pump And 1/3 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,128.02	606.48
23 22 23 13-0038 EA 15 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,310.91	665.98
23 22 23 13-0039 EA 22.5 GPM Duplex Condensate Pump And 1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	3,627.55	671.30
23 22 23 13-0040 EA 30 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	4,056.71	731.68
23 22 23 13-0041 EA 37.5 GPM Duplex Condensate Pump And 3/4 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,701.65	731.68
23 22 23 13-0042 EA 45 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	5,803.51	788.51
23 22 23 13-0043 EA 60 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	6,892.90	823.14
23 22 23 13-0044 EA 75 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 20 PSI Discharge Pressure.....	7,060.35	863.99
23 22 23 13-0045 30 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>		
23 22 23 13-0046 EA 9 To 12 GPM Duplex Condensate Pump And 1/2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,075.38	653.54
23 22 23 13-0047 EA 15 GPM Duplex Condensate Pump And 3/4 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,262.15	713.92
23 22 23 13-0048 EA 22.5 GPM Duplex Condensate Pump And 1 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	4,719.39	696.16
23 22 23 13-0049 EA 30 To 37.5 GPM Duplex Condensate Pump And 1 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,803.51	788.51
23 22 23 13-0050 EA 45 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	5,967.74	817.82
23 22 23 13-0051 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	6,818.27	863.99
23 22 23 13-0052 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 30 PSI Discharge Pressure.....	7,153.58	926.15
23 22 23 13-0053 40 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>		
23 22 23 13-0054 EA 9 To 15 GPM Duplex Condensate Pump And 1 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	4,412.42	770.75
23 22 23 13-0055 EA 22.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	4,881.20	805.39
23 22 23 13-0056 EA 30 To 37.5 GPM Duplex Condensate Pump And 1-1/2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	5,982.27	817.82
23 22 23 13-0057 EA 45 GPM Duplex Condensate Pump And 2 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	6,150.94	858.66
23 22 23 13-0058 EA 60 GPM Duplex Condensate Pump And 2 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	7,061.56	863.99
23 22 23 13-0059 EA 75 GPM Duplex Condensate Pump And 3 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 40 PSI Discharge Pressure.....	7,182.63	926.15
23 22 23 13-0060 50 PSI Discharge Pressure <small>(23 22 23 13-0035)</small>		
23 22 23 13-0061 EA 9 To 15 GPM Duplex Condensate Pump And 2 HP Motor With 13.5 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,613.35	770.75
23 22 23 13-0062 EA 22.5 GPM Duplex Condensate Pump And 2 HP Motor With 21 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	4,977.25	847.12
23 22 23 13-0063 EA 30 To 45 GPM Duplex Condensate Pump And 3 HP Motor With 36 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	6,273.22	919.93
23 22 23 13-0064 EA 60 To 75 GPM Duplex Condensate Pump And 5 HP Motor With 50 Gallon Cast Iron Receiver, Float Switch, 50 PSI Discharge Pressure.....	11,006.33	996.30
23 23 Refrigerant Piping <small>(23 20)</small>		
23 23 13 Refrigerant Piping Valves <small>(23 23)</small>		
23 23 13 00-0001 Ball Valves <small>(23 23 13)</small>		
23 23 13 00-0002 Refrigeration Ball Valves, Sweat, 1400 Series <small>(23 23 13 00-0001)</small>		
23 23 13 00-0003 EA 3/8" Refrigeration Ball Valve, Sweated.....	37.01	9.63
23 23 13 00-0004 EA 1/2" Refrigeration Ball Valve, Sweated.....	38.56	9.63
23 23 13 00-0005 EA 5/8" Refrigeration Ball Valve, Sweated.....	49.48	9.63

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 23 Refrigerant Piping**

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 13 00-0006 EA 7/8" Refrigeration Ball Valve, Sweated.....	66.32	10.60
23 23 13 00-0007 EA 1-1/8" Refrigeration Ball Valve, Sweated.....	91.19	12.05
23 23 13 00-0008 EA 1-5/8" Refrigeration Ball Valve, Sweated.....	146.73	14.84
23 23 13 00-0009 Shut-Off Valves (23 23 13)		
23 23 13 00-0010 Packless (23 23 13 00-0009)		
23 23 13 00-0011 EA 1/2" Refrigeration Valve, Packless.....	45.24	10.03
23 23 13 00-0012 EA 5/8" Refrigeration Valve, Packless.....	55.88	11.00
23 23 13 00-0013 EA 7/8" Refrigeration Valve, Packless.....	111.43	15.04
23 23 13 00-0014 Packed (23 23 13 00-0009)		
23 23 13 00-0015 EA 1-1/8" Refrigeration Valve, Packed.....	195.91	21.88
23 23 13 00-0016 EA 1 3/8" Refrigeration Valve, Packed.....	260.84	26.80
23 23 13 00-0017 EA 1-5/8" Refrigeration Valve, Packed.....	316.70	30.18
23 23 13 00-0018 EA 2-1/8" Refrigeration Valve, Packed.....	448.84	34.42
23 23 13 00-0019 EA 2-5/8" Refrigeration Valve, Packed.....	761.41	96.41
23 23 13 00-0020 EA 3-1/8" Refrigeration Valve, Packed.....	996.60	120.52
23 23 13 00-0021 EA 4-1/8" Refrigeration Valve, Packed.....	1,412.65	160.73
23 23 13 00-0022 Check Valves (23 23 13)		
23 23 13 00-0023 EA 5/8" Check Valve, Refrigeration.....	58.39	9.64
23 23 13 00-0024 EA 7/8" Check Valve, Refrigeration.....	172.39	10.60
23 23 13 00-0025 EA 1-1/8" Check Valve, Refrigeration.....	200.39	12.05
23 23 13 00-0026 EA 1 3/8" Check Valve, Refrigeration.....	269.01	12.83
23 23 13 00-0027 EA 1-5/8" Check Valve, Refrigeration.....	351.94	14.85
23 23 13 00-0028 EA 2-1/8" Check Valve, Refrigeration.....	517.10	17.55
23 23 13 00-0029 EA 2-5/8" Check Valve, Refrigeration.....	724.32	25.75
23 23 13 00-0030 EA 3-1/8" Check Valve, Refrigeration.....	953.73	33.74
23 23 13 00-0031 Solenoid Valves (23 23 13)		
23 23 13 00-0032 Solenoid Valve, 24 Volt Coil (23 23 13 00-0031)		
23 23 13 00-0033 EA 1/2" Solenoid Valve, Refrigeration.....	196.80	9.64
23 23 13 00-0034 EA 5/8" Solenoid Valve, Refrigeration.....	201.61	9.64
23 23 13 00-0035 EA 3/4" Solenoid Valve, Refrigeration.....	248.88	10.60
23 23 13 00-0036 EA 7/8" Solenoid Valve, Refrigeration.....	248.88	10.60
23 23 13 00-0037 EA 1-1/8" Solenoid Valve, Refrigeration.....	349.36	12.05
23 23 13 00-0038 EA 1 3/8" Solenoid Valve, Refrigeration.....	562.74	12.83
23 23 13 00-0039 EA 1-5/8" Solenoid Valve, Refrigeration.....	1,040.99	14.85
23 23 13 00-0040 EA 2-1/8" Solenoid Valve, Refrigeration.....	1,054.47	17.55
23 23 16 Refrigerant Piping Specialties (23 23)		
23 23 16 00-0001 Soft Refrigeration Copper Tubing (23 23 16)		
Note: Based on outside diameter. Nitrogenized.		
23 23 16 00-0002 LF 1/8" Outside Diameter Soft Refrigeration Copper Tubing.....	4.18	2.61
23 23 16 00-0003 LF 3/16" Outside Diameter Soft Refrigeration Copper Tubing.....	4.23	2.61
23 23 16 00-0004 LF 1/4" Outside Diameter Soft Refrigeration Copper Tubing.....	4.29	2.61
23 23 16 00-0005 LF 5/16" Outside Diameter Soft Refrigeration Copper Tubing.....	4.52	2.61
23 23 16 00-0006 LF 3/8" Outside Diameter Soft Refrigeration Copper Tubing.....	4.65	2.70
23 23 16 00-0007 LF 1/2" Outside Diameter Soft Refrigeration Copper Tubing.....	5.24	2.90
23 23 16 00-0008 LF 5/8" Outside Diameter Soft Refrigeration Copper Tubing.....	5.54	2.90
23 23 16 00-0009 LF 3/4" Outside Diameter Soft Refrigeration Copper Tubing.....	6.45	3.37
23 23 16 00-0010 LF 7/8" Outside Diameter Soft Refrigeration Copper Tubing.....	7.54	3.57
23 23 16 00-0011 LF 1-1/8" Outside Diameter Soft Refrigeration Copper Tubing.....	9.59	4.34
23 23 16 00-0012 LF 1-3/8" Outside Diameter Soft Refrigeration Copper Tubing.....	12.92	5.01
23 23 16 00-0013 LF 1-5/8" Outside Diameter Soft Refrigeration Copper Tubing.....	14.85	5.40
23 23 16 00-0014 Type L Drawn, ACR Copper Tubing (23 23 16)		
Note: Nitrogenized.		
23 23 16 00-0015 LF 3/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	4.87	2.70
For Medical Applications "Oxygen Clean", Add	0.45	
23 23 16 00-0016 LF 1/2" Outside Diameter Type L Drawn, ACR Copper Tubing.....	5.26	2.70
For Medical Applications "Oxygen Clean", Add	0.47	
23 23 16 00-0017 LF 5/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	5.51	2.70
For Medical Applications "Oxygen Clean", Add	0.48	
23 23 16 00-0018 LF 3/4" Outside Diameter Type L Drawn, ACR Copper Tubing.....	7.99	4.04
For Medical Applications "Oxygen Clean", Add	0.70	
23 23 16 00-0019 LF 7/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	8.70	4.34
For Medical Applications "Oxygen Clean", Add	0.76	
23 23 16 00-0020 LF 1-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	9.69	4.34
For Medical Applications "Oxygen Clean", Add	0.81	
23 23 16 00-0021 LF 1-3/8" Outside Diameter Type L Drawn, ACR Copper Tubing.....	11.85	5.01
For Medical Applications "Oxygen Clean", Add	0.97	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0022 LF 1-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	14.12 1.14	5.78
23 23 16 00-0023 LF 2-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	19.40 1.51	7.23
23 23 16 00-0024 LF 2-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	29.15 2.28	10.90
23 23 16 00-0025 LF 3-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	37.31 2.88	13.50
23 23 16 00-0026 LF 3-5/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	46.37 3.52	16.00
23 23 16 00-0027 LF 4-1/8" Outside Diameter Type L Drawn, ACR Copper Tubing <i>For Medical Applications "Oxygen Clean", Add</i>	56.98 4.30	19.29
23 23 16 00-0028 Refrigeration Fittings (23 23 16)		
23 23 16 00-0029 Brass Flare Fittings (23 23 16 00-0028)		
23 23 16 00-0030 Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0031 EA 3/8" Brass Flare Union.....	19.86	10.41
23 23 16 00-0032 EA 1/2" Brass Flare Union.....	19.86	10.41
23 23 16 00-0033 EA 5/8" Brass Flare Union.....	20.97	10.41
23 23 16 00-0034 90 Degree Elbow Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0035 EA 3/8" 90 Degree Brass Flare Elbow Union.....	20.53	10.41
23 23 16 00-0036 EA 1/2" 90 Degree Brass Flare Elbow Union.....	20.53	10.41
23 23 16 00-0037 EA 5/8" 90 Degree Brass Flare Elbow Union.....	24.24	10.41
23 23 16 00-0038 Brass Flare Tees (23 23 16 00-0029)		
23 23 16 00-0039 EA 3/8" Brass Flare Tee.....	32.37	17.35
23 23 16 00-0040 EA 1/2" Brass Flare Tee.....	34.03	17.35
23 23 16 00-0041 EA 5/8" Brass Flare Tee.....	43.04	17.35
23 23 16 00-0042 Male Connector, Half Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0043 EA 3/8" Brass Flare Male Connector, Half Union.....	16.81	10.41
23 23 16 00-0044 EA 1/2" Brass Flare Male Connector, Half Union.....	17.92	10.41
23 23 16 00-0045 EA 5/8" Brass Flare Male Connector, Half Union.....	19.50	10.41
23 23 16 00-0046 Female Connector, Half Brass Flare Unions (23 23 16 00-0029)		
23 23 16 00-0047 EA 3/8" Brass Flare Female Connector, Half Union.....	18.24	10.41
23 23 16 00-0048 EA 1/2" Brass Flare Female Connector, Half Union.....	19.74	10.41
23 23 16 00-0049 EA 5/8" Brass Flare Female Connector, Half Union.....	19.74	10.41
23 23 16 00-0050 Long Forged Nuts (23 23 16 00-0029)		
23 23 16 00-0051 EA 3/8" Brass Long Forged Nut.....	17.49	10.41
23 23 16 00-0052 EA 1/2" Brass Long Forged Nut.....	17.92	10.41
23 23 16 00-0053 EA 5/8" Brass Long Forged Nut.....	22.74	10.41
23 23 16 00-0054 Short Forged Nuts (23 23 16 00-0029)		
23 23 16 00-0055 EA 3/8" Brass Short Forged Nut.....	16.86	10.41
23 23 16 00-0056 EA 1/2" Brass Short Forged Nut.....	17.86	10.41
23 23 16 00-0057 EA 5/8" Brass Short Forged Nut.....	18.07	10.41
23 23 16 00-0058 ACR Wrought Copper Fittings (23 23 16 00-0028) Note: Soldered.		
23 23 16 00-0059 ACR Wrought Copper Coupling (23 23 16 00-0058) Note: C x C		
23 23 16 00-0060 EA 1/4" ACR Wrought Copper Coupling.....	16.56	10.41
23 23 16 00-0061 EA 3/8" ACR Wrought Copper Coupling.....	16.38	10.41
23 23 16 00-0062 EA 1/2" ACR Wrought Copper Coupling.....	16.64	10.41
23 23 16 00-0063 EA 5/8" ACR Wrought Copper Coupling.....	17.27	10.90
23 23 16 00-0064 EA 3/4" ACR Wrought Copper Coupling.....	23.97	14.37
23 23 16 00-0065 EA 7/8" ACR Wrought Copper Coupling.....	23.90	14.75
23 23 16 00-0066 EA 1-1/8" ACR Wrought Copper Coupling.....	31.05	18.32
23 23 16 00-0067 EA 1-3/8" ACR Wrought Copper Coupling.....	43.94	25.07
23 23 16 00-0068 EA 1-5/8" ACR Wrought Copper Coupling.....	52.53	29.41
23 23 16 00-0069 EA 2-1/8" ACR Wrought Copper Coupling.....	67.45	35.67
23 23 16 00-0070 EA 2-5/8" ACR Wrought Copper Coupling.....	112.76	54.19
23 23 16 00-0071 EA 3-1/8" ACR Wrought Copper Coupling.....	149.84	71.25
23 23 16 00-0072 EA 4-1/8" ACR Wrought Copper Coupling.....	224.67	84.65

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 23 Refrigerant Piping**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

23 23 16 00-0073		ACR Wrought Copper Short Radius 90 Degree Elbows (23 23 16 00-0058)		
		Note: C x C		
23 23 16 00-0074	EA	1/4" ACR Wrought Copper Short Radius 90 Degree Elbow	18.94	10.41
23 23 16 00-0075	EA	3/8" ACR Wrought Copper Short Radius 90 Degree Elbow	19.11	10.41
23 23 16 00-0076	EA	1/2" ACR Wrought Copper Short Radius 90 Degree Elbow	18.94	10.41
23 23 16 00-0077	EA	5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	20.36	10.90
23 23 16 00-0078	EA	3/4" ACR Wrought Copper Short Radius 90 Degree Elbow	28.83	14.37
23 23 16 00-0079	EA	7/8" ACR Wrought Copper Short Radius 90 Degree Elbow	29.29	14.75
23 23 16 00-0080	EA	1-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	37.06	18.32
23 23 16 00-0081	EA	1 3/8" ACR Wrought Copper Short Radius 90 Degree Elbow	47.42	25.07
23 23 16 00-0082	EA	1-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	59.44	29.41
23 23 16 00-0083	EA	2-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	81.32	35.67
23 23 16 00-0084	EA	2-5/8" ACR Wrought Copper Short Radius 90 Degree Elbow	137.01	54.19
23 23 16 00-0085	EA	3-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	176.97	71.25
23 23 16 00-0086	EA	4-1/8" ACR Wrought Copper Short Radius 90 Degree Elbow	306.38	84.65
23 23 16 00-0087		ACR Wrought Copper Long Radius 90 Degree Elbows (23 23 16 00-0058)		
		Note: C x C		
23 23 16 00-0088	EA	1/4" ACR Wrought Copper Long Radius 90 Degree Elbow	21.91	10.41
23 23 16 00-0089	EA	3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	20.34	10.41
23 23 16 00-0090	EA	1/2" ACR Wrought Copper Long Radius 90 Degree Elbow	21.58	10.41
23 23 16 00-0091	EA	5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	21.79	10.90
23 23 16 00-0092	EA	3/4" ACR Wrought Copper Long Radius 90 Degree Elbow	27.07	14.37
23 23 16 00-0093	EA	7/8" ACR Wrought Copper Long Radius 90 Degree Elbow	29.10	14.75
23 23 16 00-0094	EA	1-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	38.71	18.32
23 23 16 00-0095	EA	1-3/8" ACR Wrought Copper Long Radius 90 Degree Elbow	55.90	25.07
23 23 16 00-0096	EA	1-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	68.70	29.41
23 23 16 00-0097	EA	2-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	118.05	35.67
23 23 16 00-0098	EA	2-5/8" ACR Wrought Copper Long Radius 90 Degree Elbow	183.51	54.19
23 23 16 00-0099	EA	3-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	242.31	71.25
23 23 16 00-0100	EA	4-1/8" ACR Wrought Copper Long Radius 90 Degree Elbow	489.78	84.65
23 23 16 00-0101		ACR Wrought Copper 45 Degree Elbow (23 23 16 00-0058)		
		Note: C x C		
23 23 16 00-0102	EA	1/4" ACR Wrought Copper 45 Degree Elbow	24.07	10.41
23 23 16 00-0103	EA	3/8" ACR Wrought Copper 45 Degree Elbow	21.91	10.41
23 23 16 00-0104	EA	1/2" ACR Wrought Copper 45 Degree Elbow	20.99	10.41
23 23 16 00-0105	EA	5/8" ACR Wrought Copper 45 Degree Elbow	18.56	10.90
23 23 16 00-0106	EA	3/4" ACR Wrought Copper 45 Degree Elbow	31.13	14.37
23 23 16 00-0107	EA	7/8" ACR Wrought Copper 45 Degree Elbow	25.92	14.75
23 23 16 00-0108	EA	1-1/8" ACR Wrought Copper 45 Degree Elbow	37.04	18.32
23 23 16 00-0109	EA	1-3/8" ACR Wrought Copper 45 Degree Elbow	50.47	25.07
23 23 16 00-0110	EA	1-5/8" ACR Wrought Copper 45 Degree Elbow	59.63	29.41
23 23 16 00-0111	EA	2-1/8" ACR Wrought Copper 45 Degree Elbow	79.30	35.67
23 23 16 00-0112	EA	2-5/8" ACR Wrought Copper 45 Degree Elbow	136.34	54.19
23 23 16 00-0113	EA	3-1/8" ACR Wrought Copper 45 Degree Elbow	183.78	71.25
23 23 16 00-0114	EA	4-1/8" ACR Wrought Copper 45 Degree Elbow	290.81	84.65
23 23 16 00-0115		ACR Wrought Copper Tee (23 23 16 00-0058)		
		Note: C x C x C		
23 23 16 00-0116	EA	1/4" ACR Wrought Copper Tee	32.80	17.35
23 23 16 00-0117	EA	3/8" ACR Wrought Copper Tee	33.18	17.35
23 23 16 00-0118	EA	1/2" ACR Wrought Copper Tee	31.77	17.35
23 23 16 00-0119	EA	5/8" ACR Wrought Copper Tee	34.77	21.88
23 23 16 00-0120	EA	3/4" ACR Wrought Copper Tee	45.83	21.88
23 23 16 00-0121	EA	7/8" ACR Wrought Copper Tee	38.15	22.17
23 23 16 00-0122	EA	1-1/8" ACR Wrought Copper Tee	59.29	29.41
23 23 16 00-0123	EA	1-3/8" ACR Wrought Copper Tee	73.93	35.67
23 23 16 00-0124	EA	1-5/8" ACR Wrought Copper Tee	95.05	42.32
23 23 16 00-0125	EA	2-1/8" ACR Wrought Copper Tee	133.89	56.40
23 23 16 00-0126	EA	2-5/8" ACR Wrought Copper Tee	284.02	123.12
23 23 16 00-0127	EA	3-1/8" ACR Wrought Copper Tee	345.73	135.37
23 23 16 00-0128	EA	4-1/8" ACR Wrought Copper Tee	571.01	150.41
23 23 16 00-0129		ACR Wrought Copper Male Adapter (23 23 16 00-0058)		
		Note: C x M		
23 23 16 00-0130	EA	1/4" ACR Wrought Copper Male Adapter	26.22	10.41
23 23 16 00-0131	EA	3/8" ACR Wrought Copper Male Adapter	29.67	10.41
23 23 16 00-0132	EA	1/2" ACR Wrought Copper Male Adapter	23.93	10.41
23 23 16 00-0133		ACR Wrought Copper Female Adapter (23 23 16 00-0058)		
		Note: C x F		
23 23 16 00-0134	EA	1/4" ACR Wrought Copper Female Adapter	24.86	10.41
23 23 16 00-0135	EA	3/8" ACR Wrought Copper Female Adapter	22.88	10.41
23 23 16 00-0136	EA	1/2" ACR Wrought Copper Female Adapter	23.63	10.41



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 23 16 00-0137				ACR Wrought Copper Cap (23 23 16 00-0058) Note: C		
	EA			1/4" ACR Wrought Copper Cap	12.03	6.94
	EA			3/8" ACR Wrought Copper Cap	11.40	6.94
	EA			1/2" ACR Wrought Copper Cap	12.01	6.94
23 23 16 00-0141				ACR Wrought Copper P-Trap (23 23 16 00-0058)		
	EA			5/8" ACR Wrought Copper P-Trap	68.80	8.88
	EA			3/4" ACR Wrought Copper P-Trap	92.12	9.76
	EA			7/8" ACR Wrought Copper P-Trap	82.24	9.76
	EA			1-1/8" ACR Wrought Copper P-Trap	110.04	10.66
	EA			1-3/8" ACR Wrought Copper P-Trap	190.00	10.66
	EA			1-5/8" ACR Wrought Copper P-Trap	264.57	11.55
	EA			2-1/8" ACR Wrought Copper P-Trap	466.48	12.43
23 23 16 00-0149				Sight Glass With Moisture And Liquid Indicator, Solder Connection (23 23 16)		
	EA			1/4" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	42.90	13.32
	EA			3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	51.85	15.98
	EA			1/2" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	62.31	19.54
	EA			5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	69.06	22.20
	EA			7/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	91.92	28.42
	EA			1-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	107.47	34.63
	EA			1-3/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	159.00	40.85
	EA			1-5/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	199.25	55.95
	EA			2-1/8" Outside Diameter Sight Glass With Moisture And Liquid Indicator, Solder Connection	245.31	69.26
23 23 16 00-0159				Filter Driers, Solder Connections (23 23 16)		
23 23 16 00-0160				Replaceable Core Type Filter Driers, Solder Connections (23 23 16 00-0159)		
	EA			5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	337.35	7.99
	EA			7/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	347.89	9.76
	EA			1-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	446.22	9.76
	EA			1-3/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	453.23	10.66
	EA			1-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	511.89	11.55
	EA			2-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	589.46	12.43
	EA			2-5/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	691.44	13.32
	EA			3-1/8" Outside Diameter Replaceable Core Type Filter Drier, Solder Connections	863.38	13.32
23 23 16 00-0169				Sealed In-Line Filter Driers, Solder Connections (23 23 16 00-0159)		
	EA			1/4" Outside Diameter, 1/4 To 1 Ton, Sealed In-Line Filter Drier, Solder Connections	66.96	7.99
	EA			3/8" Outside Diameter, 1/2 To 2 Ton, Sealed In-Line Filter Drier, Solder Connections	85.59	7.99
	EA			1/2" Outside Diameter, 1 To 7 Ton, Sealed In-Line Filter Drier, Solder Connections	108.71	8.88
	EA			1/2" Outside Diameter, 2 To 7-1/2 Ton, Sealed In-Line Filter Drier, Solder Connections	124.64	8.88
	EA			5/8" Outside Diameter, 2 To 10 Ton, Sealed In-Line Filter Drier, Solder Connections	137.80	8.88
	EA			5/8" Outside Diameter, 4 To 8 Ton, Sealed In-Line Filter Drier, Solder Connections	154.09	8.88
	EA			7/8" Outside Diameter, 5 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	173.98	9.76
	EA			7/8" Outside Diameter, 7-1/2 To 20 Ton, Sealed In-Line Filter Drier, Solder Connections	238.52	9.76
	EA			1-1/8" Outside Diameter, 15 To 25 Ton, Sealed In-Line Filter Drier, Solder Connections	262.52	9.76
23 23 16 00-0179				Bi-Flow Filter Driers, Solder Connections (23 23 16 00-0159)		
	EA			1/4" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	87.17	7.99
	EA			3/8" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	99.97	7.99
	EA			1/2" Outside Diameter, 1 To 3-1/2 Ton, Bi-Flow Filter Drier, Solder Connections	120.48	8.88
	EA			3/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	105.68	7.99
	EA			1/2" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	132.24	8.88
	EA			5/8" Outside Diameter, 1 To 8 Ton, Bi-Flow Filter Drier, Solder Connections	156.11	8.88
23 23 16 00-0186				Refrigerant Compressor Discharge Mufflers (23 23 16)		
	EA			3/8" Outside Diameter, 2 Ton, Refrigerant Compressor Discharge Muffler	82.07	7.99
	EA			1/2" Outside Diameter, 3 Ton, Refrigerant Compressor Discharge Muffler	90.75	7.99
	EA			5/8" Outside Diameter, 5 Ton, Refrigerant Compressor Discharge Muffler	108.91	7.99
	EA			7/8" Outside Diameter, 7-1/2 To 10 Ton, Refrigerant Compressor Discharge Muffler	146.82	9.76
	EA			1-1/8" Outside Diameter, 10 To 15 Ton, Refrigerant Compressor Discharge Muffler	192.53	9.76
	EA			1-3/8" Outside Diameter, 15 To 25 Ton, Refrigerant Compressor Discharge Muffler	229.26	10.66
	EA			1-5/8" Outside Diameter, 25 To 50 Ton, Refrigerant Compressor Discharge Muffler	289.62	11.55
	EA			2-1/8" Outside Diameter, 50 To 75 Ton, Refrigerant Compressor Discharge Muffler	500.09	12.43
	EA			2-5/8" Outside Diameter, 75 To 100 Ton, Refrigerant Compressor Discharge Muffler	566.24	13.32
	EA			3-1/8" Outside Diameter, 100 To 125 Ton, Refrigerant Compressor Discharge Muffler	702.08	13.32
23 23 16 00-0197				Expansion Valves And Vibration Absorbers (23 23 16)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 20 HVAC Piping And Pumps****23 23 Refrigerant Piping**

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 23 16 00-0198	Thermostatic Expansion Valves <small>(23 23 16 00-0197)</small>		
	Note: Outside diameter pipe sizes. Sporlan TP-S.		
23 23 16 00-0199	EA 3/8" In x 5/8" Out, 1/2 To 3 Ton, Thermostatic Expansion Valve.....	160.54	7.99
23 23 16 00-0200	EA 1/2" In x 7/8" Out, 4 To 5 Ton, Thermostatic Expansion Valve.....	223.14	8.88
23 23 16 00-0201	EA 5/8" In x 7/8" Out, 6 To 8 Ton, Thermostatic Expansion Valve.....	367.83	8.88
23 23 16 00-0202	EA 7/8" In x 1-1/8" Out, 7 To 12 Ton, Thermostatic Expansion Valve	436.65	9.76
23 23 16 00-0203	EA 7/8" In x 1-3/8" Out, 15 To 20 Ton, Thermostatic Expansion Valve	481.05	9.76
23 23 16 00-0204	Electric Expansion Valves <small>(23 23 16 00-0197)</small>		
	Note: Sporlan SEI or SEH.		
23 23 16 00-0205	EA 1/2 To 11 Ton Electric Expansion Valve	510.93	11.10
	Note: Sporlan SEI.		
23 23 16 00-0206	EA 25 Ton Electric Expansion Valve.....	592.95	11.55
	Note: Sporlan SEI.		
23 23 16 00-0207	EA 50 Ton Electric Expansion Valve.....	675.43	11.99
	Note: Sporlan SEI.		
23 23 16 00-0208	EA 100 Ton Electric Expansion Valve.....	791.23	11.99
	Note: Sporlan SEH.		
23 23 16 00-0209	EA 175 Ton Electric Expansion Valve.....	891.74	12.43
	Note: Sporlan SEH.		
23 23 16 00-0210	Braided Stainless Steel Over Copper Vibration Absorber <small>(23 23 16 00-0197)</small>		
23 23 16 00-0211	EA 1/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	42.82	11.55
23 23 16 00-0212	EA 3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	44.69	13.32
23 23 16 00-0213	EA 1/2" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	57.39	16.87
23 23 16 00-0214	EA 5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	62.88	20.42
23 23 16 00-0215	EA 3/4" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	74.59	24.86
23 23 16 00-0216	EA 7/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	85.86	28.42
23 23 16 00-0217	EA 1-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	122.51	10.66
23 23 16 00-0218	EA 1-3/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	168.26	11.55
23 23 16 00-0219	EA 1-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	206.98	11.55
23 23 16 00-0220	EA 2-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	275.96	12.43
23 23 16 00-0221	EA 2-5/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	459.23	13.32
23 23 16 00-0222	EA 3-1/8" Outside Diameter Braided Stainless Steel Over Copper Vibration Absorber.....	598.72	13.32
23 23 16 00-0223	Accumulator, Refrigerant Suction Line <small>(23 23 16)</small>		
23 23 16 00-0224	EA 3/4" Accumulator, Refrigeration Suction Line.....	139.28	40.40
23 23 16 00-0225	EA 7/8" Accumulator, Refrigeration Suction Line.....	189.20	55.49
23 23 16 00-0226	EA 1-1/8" Accumulator, Refrigeration Suction Line.....	229.85	73.96
23 23 16 00-0227	EA 1 3/8" Accumulator, Refrigeration Suction Line.....	315.49	88.80
23 23 16 00-0228	EA 1-5/8" Accumulator, Refrigeration Suction Line.....	428.68	111.00
23 23 16 00-0229	EA 2-1/8" Accumulator, Refrigeration Suction Line.....	640.66	148.03
23 23 16 00-0230	Special Chemicals/Component <small>(23 23 16)</small>		
23 23 16 00-0231	GAL Special Chemical, Inhibited Propylene Glycol, 100%.....	24.36	
23 23 16 00-0232	GAL Removal And Storage For Reuse Of Inhibited Propylene Glycol.....	6.89	
23 23 16 00-0233	GAL Special Chemical, Inhibited Ethylene Glycol, 100%.....	16.77	
23 23 16 00-0234	EA Internal Coil/Refrigerant Piping Flush.....	227.09	
	Note: Up to 10 ton AC system.		
23 23 23	Refrigerants <small>(23 23)</small>		
23 23 23 00-0001	Refrigerant <small>(23 23 23)</small>		
23 23 23 00-0002	LB R-113 Refrigerant.....	24.82	
23 23 23 00-0003	LB R-123 Refrigerant.....	18.21	
23 23 23 00-0004	LB R-134A Refrigerant.....	6.49	
23 23 23 00-0005	LB R-404A Refrigerant.....	11.61	
23 23 23 00-0006	LB R-407C Refrigerant.....	11.49	
23 23 23 00-0007	LB R-408A Refrigerant.....	26.19	
23 23 23 00-0008	LB R-410A Refrigerant.....	11.26	
23 23 23 00-0009	LB R-500 Refrigerant.....	22.25	
23 23 23 00-0010	LB R-507 Refrigerant.....	7.16	
23 25	HVAC Water Treatment <small>(23 20)</small>		
23 25 13	Water Treatment For Closed-Loop Hydronic Systems <small>(23 25)</small>		
23 25 13 00-0001	Polyethylene Chemical Storage Tanks <small>(23 25 13)</small>		
23 25 13 00-0002	EA 15 Gallon Chemical Storage Tank, Polyethylene.....	227.74	74.15
23 25 13 00-0003	Gas Chlorinator <small>(23 25 13)</small>		
23 25 13 00-0004	EA Gas Chlorinator, Wall Or Cylinder Mounted (10 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit	1,024.87	337.34
	For Booster Pump, Add	386.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 25 13 00-0005 EA Gas Chlorinator, Wall Or Cylinder Mounted (25 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit	1,170.77	385.53
<i>For Booster Pump, Add</i>	<i>441.58</i>	
23 25 13 00-0006 EA Gas Chlorinator, Wall Or Cylinder Mounted (50 PPD) With Metering Tube And Rate Valve Metering Tube Supply Indicator, Rate Valve, And Diffuser-Ejector Unit	1,649.33	292.04
<i>For Booster Pump, Add</i>	<i>546.34</i>	
23 25 13 00-0007 Bypass Shot Feeders <small>(23 25 13)</small> Note: Includes up to 4 ports (in, out, fill and drain). Excludes valves.		
23 25 13 00-0008 In Line Mount, 125 PSIG <small>(23 25 13 00-0007)</small>		
23 25 13 00-0009 EA 1.7 Gallon Bypass Shot Chemical Feeder In Line Mount, 125 PSIG	907.11	251.29
23 25 13 00-0010 Floor Mount, 175 PSIG <small>(23 25 13 00-0007)</small>		
23 25 13 00-0011 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG	1,329.83	378.27
23 25 13 00-0012 EA 12 Gallon Bypass Shot Chemical Feeder, Floor Mount, 175 PSIG	1,752.12	500.82
23 25 13 00-0013 Floor Mount, 150 LB ASME Code <small>(23 25 13 00-0007)</small>		
23 25 13 00-0014 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code	1,329.83	378.27
23 25 13 00-0015 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 150 LB ASME Code	1,752.12	500.82
23 25 13 00-0016 Floor Mount, 300 LB ASME Code <small>(23 25 13 00-0007)</small>		
23 25 13 00-0017 EA 5 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code	1,714.54	378.27
23 25 13 00-0018 EA 10 Gallon Bypass Shot Chemical Feeder, Floor Mount, 300 LB ASME Code	2,151.59	500.82
23 30 HVAC Air Distribution <small>(23)</small>		
23 31 HVAC Ducts And Casings <small>(23 30)</small> Note: Excludes angle iron, threaded rod, anchor bolts or other external supporting devices other than normal sheet metal straps. See CSI section 05 12 23 00-0409 for angle iron, 23 05 29 00-0001 for threaded rod.		
23 31 13 Metal Ducts <small>(23 31)</small>		
23 31 13 13 Rectangular Metal Ducts <small>(23 31 13)</small>		
23 31 13 13-0001 Steel Sheet Metal Duct <small>(23 31 13 13)</small> Note: Includes all fittings, transitions, collars, straps, support straps, fabrication, installation and sealing the joints by tape, mastic, or spray on sealer.		
23 31 13 13-0002 Galvanized Steel Sheet Metal Ductwork <small>(23 31 13 13-0001)</small> Note: SMACNA weight for galvanized steel ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.906 LB/SF; 24 gauge - 1.156 LB/SF; 22 gauge - 1.406 LB/SF; 20 gauge - 1.656 LB/SF; 18 gauge - 2.156 LB/SF; 16 gauge - 2.656 LB/SF		
23 31 13 13-0003 LB 2" WG And Less (Class C), Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork	9.21	2.48
<i>For Polyvinyl Chloride (PVC) Coated, Add</i>	<i>0.32</i>	
<i>For Up To 200, Add</i>	<i>3.24</i>	
<i>For >200 To 500, Add</i>	<i>2.06</i>	
<i>For >500 To 1,000, Add</i>	<i>1.40</i>	
<i>For >1,000 To 2,000, Add</i>	<i>0.78</i>	
<i>For >2,000 To 5,000, Add</i>	<i>0.35</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>2.29</i>	
<i>For Elevated Installation >10' To 15', Add</i>	<i>0.46</i>	
<i>For Elevated Installation >15' To 20', Add</i>	<i>0.91</i>	
<i>For Elevated Installation >20' To 25', Add</i>	<i>1.14</i>	
<i>For Elevated Installation >25' To 30', Add</i>	<i>1.60</i>	
<i>For Elevated Installation >30' To 35', Add</i>	<i>1.83</i>	
<i>For Elevated Installation >35' To 40', Add</i>	<i>2.29</i>	
<i>For Elevated Installation >40', Add</i>	<i>2.51</i>	
23 31 13 13-0004 LB 3" WG (Class B), Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork	10.35	2.48
<i>For Polyvinyl Chloride (PVC) Coated, Add</i>	<i>0.32</i>	
<i>For Up To 200, Add</i>	<i>3.58</i>	
<i>For >200 To 500, Add</i>	<i>2.26</i>	
<i>For >500 To 1,000, Add</i>	<i>1.56</i>	
<i>For >1,000 To 2,000, Add</i>	<i>0.88</i>	
<i>For >2,000 To 5,000, Add</i>	<i>0.40</i>	
<i>For Work In Restricted Working Space, Add</i>	<i>2.63</i>	
<i>For Elevated Installation >10' To 15', Add</i>	<i>0.53</i>	
<i>For Elevated Installation >15' To 20', Add</i>	<i>1.05</i>	
<i>For Elevated Installation >20' To 25', Add</i>	<i>1.31</i>	
<i>For Elevated Installation >25' To 30', Add</i>	<i>1.84</i>	
<i>For Elevated Installation >30' To 35', Add</i>	<i>2.10</i>	
<i>For Elevated Installation >35' To 40', Add</i>	<i>2.63</i>	
<i>For Elevated Installation >40', Add</i>	<i>2.89</i>	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0005	LB	4" Or 6" WG (Class A), Rectangular Or Square, Galvanized Steel Sheet Metal Ductwork	12.26	2.48
			<i>For Polyvinyl Chloride (PVC) Coated, Add</i>	0.32	
			<i>For Up To 200, Add</i>	4.16	
			<i>For >200 To 500, Add</i>	2.60	
			<i>For >500 To 1,000, Add</i>	1.83	
			<i>For >1,000 To 2,000, Add</i>	1.03	
			<i>For >2,000 To 5,000, Add</i>	0.47	
			<i>For Work In Restricted Working Space, Add</i>	3.20	
			<i>For Elevated Installation >10' To 15', Add</i>	0.64	
			<i>For Elevated Installation >15' To 20', Add</i>	1.28	
			<i>For Elevated Installation >20' To 25', Add</i>	1.60	
			<i>For Elevated Installation >25' To 30', Add</i>	2.24	
			<i>For Elevated Installation >30' To 35', Add</i>	2.56	
			<i>For Elevated Installation >35' To 40', Add</i>	3.20	
			<i>For Elevated Installation >40', Add</i>	3.52	
23 31 13	13-0006		Alloy 3003-H14, Aluminum Sheet Metal Ductwork <small>(23 31 13 13-0001)</small>		
			Note: SMACNA weight for aluminum ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.224 LB/SF; 24 gauge - 0.282 LB/SF; 22 gauge - 0.352 LB/SF; 20 gauge - 0.451 LB/SF; 18 gauge - 0.563 LB/SF; 16 gauge - 0.718 LB/SF; 14 gauge - 0.901 LB/SF; 12 gauge - 0.141 LB/SF		
23 31 13	13-0007	LB	2" WG And Less (Class C), Alloy 3003-H14, Aluminum Sheet Metal Ductwork	17.96	2.48
			<i>For Work In Restricted Working Space, Add</i>	4.52	
			<i>For Up To 200, Add</i>	6.26	
			<i>For >200 To 500, Add</i>	3.96	
			<i>For >500 To 1,000, Add</i>	2.72	
			<i>For >1,000 To 2,000, Add</i>	1.52	
			<i>For >2,000 To 5,000, Add</i>	0.69	
			<i>For Elevated Installation >10' To 15', Add</i>	0.90	
			<i>For Elevated Installation >15' To 20', Add</i>	1.81	
			<i>For Elevated Installation >20' To 25', Add</i>	2.26	
			<i>For Elevated Installation >25' To 30', Add</i>	3.16	
			<i>For Elevated Installation >30' To 35', Add</i>	3.61	
			<i>For Elevated Installation >35' To 40', Add</i>	4.52	
			<i>For Elevated Installation >40', Add</i>	4.97	
23 31 13	13-0008	LB	3" WG (Class B), Alloy 3003-H14, Aluminum Sheet Metal Ductwork	20.22	2.48
			<i>For Work In Restricted Working Space, Add</i>	5.20	
			<i>For Up To 200, Add</i>	6.94	
			<i>For >200 To 500, Add</i>	4.36	
			<i>For >500 To 1,000, Add</i>	3.03	
			<i>For >1,000 To 2,000, Add</i>	1.70	
			<i>For >2,000 To 5,000, Add</i>	0.78	
			<i>For Elevated Installation >10' To 15', Add</i>	1.04	
			<i>For Elevated Installation >15' To 20', Add</i>	2.08	
			<i>For Elevated Installation >20' To 25', Add</i>	2.60	
			<i>For Elevated Installation >25' To 30', Add</i>	3.64	
			<i>For Elevated Installation >30' To 35', Add</i>	4.16	
			<i>For Elevated Installation >35' To 40', Add</i>	5.20	
			<i>For Elevated Installation >40', Add</i>	5.72	
23 31 13	13-0009	LB	4" Or 6" WG (Class A), Alloy 3003-H14, Aluminum Sheet Metal Ductwork	23.99	2.48
			<i>For Work In Restricted Working Space, Add</i>	6.33	
			<i>For Up To 200, Add</i>	8.07	
			<i>For >200 To 500, Add</i>	5.04	
			<i>For >500 To 1,000, Add</i>	3.56	
			<i>For >1,000 To 2,000, Add</i>	2.01	
			<i>For >2,000 To 5,000, Add</i>	0.93	
			<i>For Elevated Installation >10' To 15', Add</i>	1.27	
			<i>For Elevated Installation >15' To 20', Add</i>	2.53	
			<i>For Elevated Installation >20' To 25', Add</i>	3.16	
			<i>For Elevated Installation >25' To 30', Add</i>	4.43	
			<i>For Elevated Installation >30' To 35', Add</i>	5.06	
			<i>For Elevated Installation >35' To 40', Add</i>	6.33	
			<i>For Elevated Installation >40', Add</i>	6.96	
23 31 13	13-0010		Type 304, Stainless Steel Sheet Metal Ductwork <small>(23 31 13 13-0001)</small>		
			Note: SMACNA weight for stainless steel ductwork LB/SF (surface areas) by gauge: 26 gauge - 0.748 LB/SF; 24 gauge - 0.987 LB/SF; 22 gauge - 1.231 LB/SF; 20 gauge - 1.491 LB/SF; 18 gauge - 2.016 LB/SF; 16 gauge - 2.499 LB/SF; 14 gauge - 3.154 LB/SF; 12 gauge - 4.427 LB/SF		
23 31 13	13-0011	LB	2" WG And Less (Class C), Type 304, Stainless Steel Sheet Metal Ductwork	12.97	3.30
			<i>For Work In Restricted Working Space, Add</i>	2.78	
			<i>For Welded Seams, Add</i>	4.82	
			<i>For Up To 200, Add</i>	5.00	
			<i>For >200 To 500, Add</i>	3.26	
			<i>For >500 To 1,000, Add</i>	2.08	
			<i>For >1,000 To 2,000, Add</i>	1.15	
			<i>For >2,000 To 5,000, Add</i>	0.48	
			<i>For Elevated Installation >10' To 15', Add</i>	0.56	
			<i>For Elevated Installation >15' To 20', Add</i>	1.11	
			<i>For Elevated Installation >20' To 25', Add</i>	1.39	
			<i>For Elevated Installation >25' To 30', Add</i>	1.94	
			<i>For Elevated Installation >30' To 35', Add</i>	2.22	
			<i>For Elevated Installation >35' To 40', Add</i>	2.78	
			<i>For Elevated Installation >40', Add</i>	3.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0012 LB 3" WG (Class B), Type 304, Stainless Steel Sheet Metal Ductwork	14.88	3.30
For Work In Restricted Working Space, Add	3.35	
For Welded Seams, Add	5.77	
For Up To 200, Add	5.58	
For >200 To 500, Add	3.61	
For >500 To 1,000, Add	2.34	
For >1,000 To 2,000, Add	1.30	
For >2,000 To 5,000, Add	0.56	
For Elevated Installation >10' To 15', Add	0.67	
For Elevated Installation >15' To 20', Add	1.34	
For Elevated Installation >20' To 25', Add	1.68	
For Elevated Installation >25' To 30', Add	2.35	
For Elevated Installation >30' To 35', Add	2.68	
For Elevated Installation >35' To 40', Add	3.35	
For Elevated Installation >40', Add	3.69	
23 31 13 13-0013 LB 4" Or 6" WG (Class A), Type 304, Stainless Steel Sheet Metal Ductwork	16.66	3.30
For Work In Restricted Working Space, Add	3.89	
For Welded Seams, Add	6.66	
For Up To 200, Add	6.11	
For >200 To 500, Add	3.93	
For >500 To 1,000, Add	2.59	
For >1,000 To 2,000, Add	1.44	
For >2,000 To 5,000, Add	0.63	
For Elevated Installation >10' To 15', Add	0.78	
For Elevated Installation >15' To 20', Add	1.55	
For Elevated Installation >20' To 25', Add	1.94	
For Elevated Installation >25' To 30', Add	2.72	
For Elevated Installation >30' To 35', Add	3.11	
For Elevated Installation >35' To 40', Add	3.89	
For Elevated Installation >40', Add	4.27	
23 31 13 13-0014 Galvanized Steel Sheet Metal Ductwork By LF <small>(23 31 13 13-0001)</small>		
Note: Ductwork includes collars, straps, support straps, etc. Shop fabricated ductwork is designed and fabricated in shop with machines, delivered to site and installed. For fittings add the following equivalent lengths: 0.75' for duct end cap; 1.5' for tap-in; 2.5' for 45 degree elbows; 3' for 90 degree elbows, transition, taper, register box; 4' for 45 degree reducing elbow, offset, turning vanes installed in elbows; 5' for 90 degree reducing elbow, 135 degree angle gooseneck, boots; and 6' for transition/reducer.		
23 31 13 13-0015 30 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0016 LF 4" x 4", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	5.62	2.38
For 3" WG (Class B), Add	0.60	
For 4" Or 6" WG (Class A), Add	1.27	
For 10" WG (Class A), Add	1.83	
For Work In Restricted Working Space, Add	1.19	
23 31 13 13-0017 LF 4" x 6", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	7.01	2.97
For 3" WG (Class B), Add	0.74	
For 4" Or 6" WG (Class A), Add	1.59	
For 10" WG (Class A), Add	2.28	
For Work In Restricted Working Space, Add	1.49	
23 31 13 13-0018 LF 4" x 8", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	8.42	3.58
For 3" WG (Class B), Add	0.89	
For 4" Or 6" WG (Class A), Add	1.90	
For 10" WG (Class A), Add	2.74	
For Work In Restricted Working Space, Add	1.79	
23 31 13 13-0019 LF 4" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	9.82	4.17
For 3" WG (Class B), Add	1.04	
For 4" Or 6" WG (Class A), Add	2.22	
For 10" WG (Class A), Add	3.19	
For Work In Restricted Working Space, Add	2.08	
23 31 13 13-0020 LF 4" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	11.24	4.76
For 3" WG (Class B), Add	1.19	
For 4" Or 6" WG (Class A), Add	2.54	
For 10" WG (Class A), Add	3.65	
For Work In Restricted Working Space, Add	2.38	
23 31 13 13-0021 LF 4" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	12.62	5.36
For 3" WG (Class B), Add	1.34	
For 4" Or 6" WG (Class A), Add	2.85	
For 10" WG (Class A), Add	4.10	
For Work In Restricted Working Space, Add	2.68	
23 31 13 13-0022 LF 4" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	14.02	5.95
For 3" WG (Class B), Add	1.49	
For 4" Or 6" WG (Class A), Add	3.17	
For 10" WG (Class A), Add	4.56	
For Work In Restricted Working Space, Add	2.98	
23 31 13 13-0023 LF 6" x 6", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	8.42	3.58
For 3" WG (Class B), Add	0.89	
For 4" Or 6" WG (Class A), Add	1.90	
For 10" WG (Class A), Add	2.74	
For Work In Restricted Working Space, Add	1.79	
23 31 13 13-0024 LF 6" x 8", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	9.82	4.17
For 3" WG (Class B), Add	1.04	
For 4" Or 6" WG (Class A), Add	2.22	
For 10" WG (Class A), Add	3.19	
For Work In Restricted Working Space, Add	2.08	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0025	LF	6" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	11.24	4.76
			For 3" WG (Class B), Add	1.19	
			For 4" Or 6" WG (Class A), Add	2.54	
			For 10" WG (Class A), Add	3.65	
			For Work In Restricted Working Space, Add	2.38	
23 31 13	13-0026	LF	6" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	12.62	5.36
			For 3" WG (Class B), Add	1.34	
			For 4" Or 6" WG (Class A), Add	2.85	
			For 10" WG (Class A), Add	4.10	
			For Work In Restricted Working Space, Add	2.68	
23 31 13	13-0027	LF	6" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	14.02	5.95
			For 3" WG (Class B), Add	1.49	
			For 4" Or 6" WG (Class A), Add	3.17	
			For 10" WG (Class A), Add	4.56	
			For Work In Restricted Working Space, Add	2.98	
23 31 13	13-0028	LF	6" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	15.44	6.55
			For 3" WG (Class B), Add	1.64	
			For 4" Or 6" WG (Class A), Add	3.49	
			For 10" WG (Class A), Add	5.02	
			For Work In Restricted Working Space, Add	3.27	
23 31 13	13-0029	LF	8" x 8", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	11.24	4.76
			For 3" WG (Class B), Add	1.19	
			For 4" Or 6" WG (Class A), Add	2.54	
			For 10" WG (Class A), Add	3.65	
			For Work In Restricted Working Space, Add	2.38	
23 31 13	13-0030	LF	8" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	12.62	5.36
			For 3" WG (Class B), Add	1.34	
			For 4" Or 6" WG (Class A), Add	2.85	
			For 10" WG (Class A), Add	4.10	
			For Work In Restricted Working Space, Add	2.68	
23 31 13	13-0031	LF	8" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	14.02	5.95
			For 3" WG (Class B), Add	1.49	
			For 4" Or 6" WG (Class A), Add	3.17	
			For 10" WG (Class A), Add	4.56	
			For Work In Restricted Working Space, Add	2.98	
23 31 13	13-0032	LF	8" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	15.44	6.55
			For 3" WG (Class B), Add	1.64	
			For 4" Or 6" WG (Class A), Add	3.49	
			For 10" WG (Class A), Add	5.02	
			For Work In Restricted Working Space, Add	3.27	
23 31 13	13-0033	LF	8" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	16.84	7.14
			For 3" WG (Class B), Add	1.79	
			For 4" Or 6" WG (Class A), Add	3.81	
			For 10" WG (Class A), Add	5.48	
			For Work In Restricted Working Space, Add	3.57	
23 31 13	13-0034	LF	8" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	18.24	7.74
			For 3" WG (Class B), Add	1.93	
			For 4" Or 6" WG (Class A), Add	4.12	
			For 10" WG (Class A), Add	5.93	
			For Work In Restricted Working Space, Add	3.87	
23 31 13	13-0035	LF	8" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	19.64	8.33
			For 3" WG (Class B), Add	2.08	
			For 4" Or 6" WG (Class A), Add	4.44	
			For 10" WG (Class A), Add	6.39	
			For Work In Restricted Working Space, Add	4.17	
23 31 13	13-0036	LF	8" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	21.05	8.92
			For 3" WG (Class B), Add	2.23	
			For 4" Or 6" WG (Class A), Add	4.76	
			For 10" WG (Class A), Add	6.84	
			For Work In Restricted Working Space, Add	4.46	
23 31 13	13-0037	LF	8" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	22.45	9.53
			For 3" WG (Class B), Add	2.38	
			For 4" Or 6" WG (Class A), Add	5.08	
			For 10" WG (Class A), Add	7.30	
			For Work In Restricted Working Space, Add	4.76	
23 31 13	13-0038	LF	10" x 10", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	14.02	5.95
			For 3" WG (Class B), Add	1.49	
			For 4" Or 6" WG (Class A), Add	3.17	
			For 10" WG (Class A), Add	4.56	
			For Work In Restricted Working Space, Add	2.98	
23 31 13	13-0039	LF	10" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	15.44	6.55
			For 3" WG (Class B), Add	1.64	
			For 4" Or 6" WG (Class A), Add	3.49	
			For 10" WG (Class A), Add	5.02	
			For Work In Restricted Working Space, Add	3.27	
23 31 13	13-0040	LF	10" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	16.84	7.14
			For 3" WG (Class B), Add	1.79	
			For 4" Or 6" WG (Class A), Add	3.81	
			For 10" WG (Class A), Add	5.48	
			For Work In Restricted Working Space, Add	3.57	
23 31 13	13-0041	LF	10" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork	18.24	7.74
			For 3" WG (Class B), Add	1.93	
			For 4" Or 6" WG (Class A), Add	4.12	
			For 10" WG (Class A), Add	5.93	
			For Work In Restricted Working Space, Add	3.87	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0042 LF 10" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	19.64 2.08 4.44 6.39 4.17	8.33
23 31 13 13-0043 LF 10" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	21.05 2.23 4.76 6.84 4.46	8.92
23 31 13 13-0044 LF 10" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	22.45 2.38 5.08 7.30 4.76	9.53
23 31 13 13-0045 LF 10" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	23.86 2.53 5.40 7.76 5.06	10.12
23 31 13 13-0046 LF 12" x 12", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	16.84 1.79 3.81 5.48 3.57	7.14
23 31 13 13-0047 LF 12" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	18.24 1.93 4.12 5.93 3.87	7.74
23 31 13 13-0048 LF 12" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	19.64 2.08 4.44 6.39 4.17	8.33
23 31 13 13-0049 LF 12" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	21.05 2.23 4.76 6.84 4.46	8.92
23 31 13 13-0050 LF 12" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	22.45 2.38 5.08 7.30 4.76	9.53
23 31 13 13-0051 LF 12" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	23.86 2.53 5.40 7.76 5.06	10.12
23 31 13 13-0052 LF 12" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	25.26 2.68 5.72 8.22 5.36	10.72
23 31 13 13-0053 LF 14" x 14", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	19.64 2.08 4.44 6.39 4.17	8.33
23 31 13 13-0054 LF 14" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	21.05 2.23 4.76 6.84 4.46	8.92
23 31 13 13-0055 LF 14" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	22.45 2.38 5.08 7.30 4.76	9.53
23 31 13 13-0056 LF 14" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	23.86 2.53 5.40 7.76 5.06	10.12
23 31 13 13-0057 LF 14" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	25.26 2.68 5.72 8.22 5.36	10.72
23 31 13 13-0058 LF 14" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	26.67 2.83 6.03 8.67 5.66	11.31

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0059	LF	16" x 16", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	22.45 2.38 5.08 7.30 4.76	9.53
23 31 13	13-0060	LF	16" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	23.86 2.53 5.40 7.76 5.06	10.12
23 31 13	13-0061	LF	16" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	25.26 2.68 5.72 8.22 5.36	10.72
23 31 13	13-0062	LF	16" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	26.67 2.83 6.03 8.67 5.66	11.31
23 31 13	13-0063	LF	16" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	28.07 2.98 6.35 9.13 5.95	11.91
23 31 13	13-0064	LF	18" x 18", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	25.26 2.68 5.72 8.22 5.36	10.72
23 31 13	13-0065	LF	18" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	26.67 2.83 6.03 8.67 5.66	11.31
23 31 13	13-0066	LF	18" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	28.07 2.98 6.35 9.13 5.95	11.91
23 31 13	13-0067	LF	18" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	29.46 3.12 6.67 9.58 6.25	12.50
23 31 13	13-0068	LF	20" x 20", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	28.07 2.98 6.35 9.13 5.95	11.91
23 31 13	13-0069	LF	20" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	29.46 3.12 6.67 9.58 6.25	12.50
23 31 13	13-0070	LF	20" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	30.88 3.27 6.99 10.04 6.55	13.09
23 31 13	13-0071	LF	22" x 22", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	30.88 3.27 6.99 10.04 6.55	13.09
23 31 13	13-0072	LF	22" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	32.26 3.42 7.30 10.49 6.84	13.69
23 31 13	13-0073	LF	24" x 24", Up To 2" WG (Class C), 30 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	33.69 3.57 7.62 10.95 7.14	14.28
23 31 13	13-0074		28 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13	13-0075	LF	4" x 4", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	6.67 0.71 1.51 2.17 1.42	2.83



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0076 LF 4" x 6", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	8.35	3.55
For 3" WG (Class B), Add	0.89	
For 4" Or 6" WG (Class A), Add	1.89	
For 10" WG (Class A), Add	2.71	
For Work In Restricted Working Space, Add	1.77	
23 31 13 13-0077 LF 4" x 8", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	10.03	4.25
For 3" WG (Class B), Add	1.06	
For 4" Or 6" WG (Class A), Add	2.27	
For 10" WG (Class A), Add	3.26	
For Work In Restricted Working Space, Add	2.13	
23 31 13 13-0078 LF 4" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	11.69	4.97
For 3" WG (Class B), Add	1.24	
For 4" Or 6" WG (Class A), Add	2.65	
For 10" WG (Class A), Add	3.80	
For Work In Restricted Working Space, Add	2.48	
23 31 13 13-0079 LF 4" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	13.37	5.67
For 3" WG (Class B), Add	1.42	
For 4" Or 6" WG (Class A), Add	3.02	
For 10" WG (Class A), Add	4.35	
For Work In Restricted Working Space, Add	2.84	
23 31 13 13-0080 LF 4" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	15.03	6.38
For 3" WG (Class B), Add	1.59	
For 4" Or 6" WG (Class A), Add	3.40	
For 10" WG (Class A), Add	4.89	
For Work In Restricted Working Space, Add	3.19	
23 31 13 13-0081 LF 4" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	16.70	7.09
For 3" WG (Class B), Add	1.77	
For 4" Or 6" WG (Class A), Add	3.78	
For 10" WG (Class A), Add	5.43	
For Work In Restricted Working Space, Add	3.54	
23 31 13 13-0082 LF 6" x 6", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	10.03	4.25
For 3" WG (Class B), Add	1.06	
For 4" Or 6" WG (Class A), Add	2.27	
For 10" WG (Class A), Add	3.26	
For Work In Restricted Working Space, Add	2.13	
23 31 13 13-0083 LF 6" x 8", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	11.69	4.97
For 3" WG (Class B), Add	1.24	
For 4" Or 6" WG (Class A), Add	2.65	
For 10" WG (Class A), Add	3.80	
For Work In Restricted Working Space, Add	2.48	
23 31 13 13-0084 LF 6" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	13.37	5.67
For 3" WG (Class B), Add	1.42	
For 4" Or 6" WG (Class A), Add	3.02	
For 10" WG (Class A), Add	4.35	
For Work In Restricted Working Space, Add	2.84	
23 31 13 13-0085 LF 6" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	15.03	6.38
For 3" WG (Class B), Add	1.59	
For 4" Or 6" WG (Class A), Add	3.40	
For 10" WG (Class A), Add	4.89	
For Work In Restricted Working Space, Add	3.19	
23 31 13 13-0086 LF 6" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	16.70	7.09
For 3" WG (Class B), Add	1.77	
For 4" Or 6" WG (Class A), Add	3.78	
For 10" WG (Class A), Add	5.43	
For Work In Restricted Working Space, Add	3.54	
23 31 13 13-0087 LF 6" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	18.38	7.80
For 3" WG (Class B), Add	1.95	
For 4" Or 6" WG (Class A), Add	4.16	
For 10" WG (Class A), Add	5.98	
For Work In Restricted Working Space, Add	3.90	
23 31 13 13-0088 LF 8" x 8", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	13.37	5.67
For 3" WG (Class B), Add	1.42	
For 4" Or 6" WG (Class A), Add	3.02	
For 10" WG (Class A), Add	4.35	
For Work In Restricted Working Space, Add	2.84	
23 31 13 13-0089 LF 8" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	15.03	6.38
For 3" WG (Class B), Add	1.59	
For 4" Or 6" WG (Class A), Add	3.40	
For 10" WG (Class A), Add	4.89	
For Work In Restricted Working Space, Add	3.19	
23 31 13 13-0090 LF 8" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	16.70	7.09
For 3" WG (Class B), Add	1.77	
For 4" Or 6" WG (Class A), Add	3.78	
For 10" WG (Class A), Add	5.43	
For Work In Restricted Working Space, Add	3.54	
23 31 13 13-0091 LF 8" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	18.38	7.80
For 3" WG (Class B), Add	1.95	
For 4" Or 6" WG (Class A), Add	4.16	
For 10" WG (Class A), Add	5.98	
For Work In Restricted Working Space, Add	3.90	
23 31 13 13-0092 LF 8" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork	20.04	8.50
For 3" WG (Class B), Add	2.13	
For 4" Or 6" WG (Class A), Add	4.53	
For 10" WG (Class A), Add	6.52	
For Work In Restricted Working Space, Add	4.25	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0093	LF	8" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	21.71 2.30 4.91 7.06 4.61	9.22
23 31 13	13-0094	LF	8" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	23.40 2.48 5.29 7.61 4.96	9.92
23 31 13	13-0095	LF	8" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	25.06 2.66 5.67 8.15 5.32	10.63
23 31 13	13-0096	LF	8" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	26.74 2.84 6.05 8.69 5.67	11.34
23 31 13	13-0097	LF	10" x 10", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	16.70 1.77 3.78 5.43 3.54	7.09
23 31 13	13-0098	LF	10" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	18.38 1.95 4.16 5.98 3.90	7.80
23 31 13	13-0099	LF	10" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	20.04 2.13 4.53 6.52 4.25	8.50
23 31 13	13-0100	LF	10" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	21.71 2.30 4.91 7.06 4.61	9.22
23 31 13	13-0101	LF	10" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	23.40 2.48 5.29 7.61 4.96	9.92
23 31 13	13-0102	LF	10" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	25.06 2.66 5.67 8.15 5.32	10.63
23 31 13	13-0103	LF	10" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	26.74 2.84 6.05 8.69 5.67	11.34
23 31 13	13-0104	LF	10" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	28.41 3.01 6.43 9.24 6.02	12.05
23 31 13	13-0105	LF	12" x 12", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	20.04 2.13 4.53 6.52 4.25	8.50
23 31 13	13-0106	LF	12" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	21.71 2.30 4.91 7.06 4.61	9.22
23 31 13	13-0107	LF	12" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	23.40 2.48 5.29 7.61 4.96	9.92
23 31 13	13-0108	LF	12" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	25.06 2.66 5.67 8.15 5.32	10.63
23 31 13	13-0109	LF	12" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	26.74 2.84 6.05 8.69 5.67	11.34



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0110 LF 12" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	28.41 3.01 6.43 9.24 6.02	12.05
23 31 13 13-0111 LF 12" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	30.07 3.19 6.80 9.78 6.38	12.75
23 31 13 13-0112 LF 14" x 14", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	23.40 2.48 5.29 7.61 4.96	9.92
23 31 13 13-0113 LF 14" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	25.06 2.66 5.67 8.15 5.32	10.63
23 31 13 13-0114 LF 14" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	26.74 2.84 6.05 8.69 5.67	11.34
23 31 13 13-0115 LF 14" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	28.41 3.01 6.43 9.24 6.02	12.05
23 31 13 13-0116 LF 14" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	30.07 3.19 6.80 9.78 6.38	12.75
23 31 13 13-0117 LF 14" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	31.75 3.37 7.18 10.32 6.73	13.47
23 31 13 13-0118 LF 16" x 16", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	26.74 2.84 6.05 8.69 5.67	11.34
23 31 13 13-0119 LF 16" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	28.41 3.01 6.43 9.24 6.02	12.05
23 31 13 13-0120 LF 16" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	30.07 3.19 6.80 9.78 6.38	12.75
23 31 13 13-0121 LF 16" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	31.75 3.37 7.18 10.32 6.73	13.47
23 31 13 13-0122 LF 16" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	33.41 3.54 7.56 10.87 7.09	14.17
23 31 13 13-0123 LF 18" x 18", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	30.07 3.19 6.80 9.78 6.38	12.75
23 31 13 13-0124 LF 18" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	31.75 3.37 7.18 10.32 6.73	13.47
23 31 13 13-0125 LF 18" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	33.41 3.54 7.56 10.87 7.09	14.17
23 31 13 13-0126 LF 18" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	35.09 3.72 7.94 11.41 7.44	14.89

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 31 13 13-0127	LF 20" x 20", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	33.41 3.54 7.56 10.87 7.09	14.17
23 31 13 13-0128	LF 20" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	35.09 3.72 7.94 11.41 7.44	14.89
23 31 13 13-0129	LF 20" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	36.77 3.90 8.32 11.96 7.80	15.59
23 31 13 13-0130	LF 22" x 22", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	36.77 3.90 8.32 11.96 7.80	15.59
23 31 13 13-0131	LF 22" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	38.43 4.08 8.69 12.50 8.15	16.30
23 31 13 13-0132	LF 24" x 24", Up To 2" WG (Class C), 28 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	40.09 4.25 9.07 13.04 8.50	17.01
23 31 13 13-0133	26 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0134	LF 4" x 4", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	7.75 0.82 1.75 2.52 1.64	3.29
23 31 13 13-0135	LF 4" x 6", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	9.70 1.03 2.20 3.16 2.06	4.11
23 31 13 13-0136	LF 4" x 8", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	11.64 1.23 2.63 3.79 2.47	4.94
23 31 13 13-0137	LF 4" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	13.57 1.44 3.07 4.41 2.88	5.76
23 31 13 13-0138	LF 4" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	15.50 1.64 3.51 5.04 3.29	6.58
23 31 13 13-0139	LF 4" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	17.44 1.85 3.95 5.67 3.70	7.40
23 31 13 13-0140	LF 4" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	19.37 2.06 4.38 6.30 4.11	8.22
23 31 13 13-0141	LF 6" x 6", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	11.64 1.23 2.63 3.79 2.47	4.94
23 31 13 13-0142	LF 6" x 8", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	13.57 1.44 3.07 4.41 2.88	5.76
23 31 13 13-0143	LF 6" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	15.50 1.64 3.51 5.04 3.29	6.58



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0144 LF 6" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	17.44	7.40
<i>For 3" WG (Class B), Add</i>	1.85	
<i>For 4" Or 6" WG (Class A), Add</i>	3.95	
<i>For 10" WG (Class A), Add</i>	5.67	
<i>For Work In Restricted Working Space, Add</i>	3.70	
23 31 13 13-0145 LF 6" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	19.37	8.22
<i>For 3" WG (Class B), Add</i>	2.06	
<i>For 4" Or 6" WG (Class A), Add</i>	4.38	
<i>For 10" WG (Class A), Add</i>	6.30	
<i>For Work In Restricted Working Space, Add</i>	4.11	
23 31 13 13-0146 LF 6" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	21.32	9.04
<i>For 3" WG (Class B), Add</i>	2.26	
<i>For 4" Or 6" WG (Class A), Add</i>	4.82	
<i>For 10" WG (Class A), Add</i>	6.93	
<i>For Work In Restricted Working Space, Add</i>	4.52	
23 31 13 13-0147 LF 8" x 8", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	15.50	6.58
<i>For 3" WG (Class B), Add</i>	1.64	
<i>For 4" Or 6" WG (Class A), Add</i>	3.51	
<i>For 10" WG (Class A), Add</i>	5.04	
<i>For Work In Restricted Working Space, Add</i>	3.29	
23 31 13 13-0148 LF 8" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	17.44	7.40
<i>For 3" WG (Class B), Add</i>	1.85	
<i>For 4" Or 6" WG (Class A), Add</i>	3.95	
<i>For 10" WG (Class A), Add</i>	5.67	
<i>For Work In Restricted Working Space, Add</i>	3.70	
23 31 13 13-0149 LF 8" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	19.38	8.23
<i>For 3" WG (Class B), Add</i>	2.06	
<i>For 4" Or 6" WG (Class A), Add</i>	4.38	
<i>For 10" WG (Class A), Add</i>	6.30	
<i>For Work In Restricted Working Space, Add</i>	4.11	
23 31 13 13-0150 LF 8" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	21.32	9.04
<i>For 3" WG (Class B), Add</i>	2.26	
<i>For 4" Or 6" WG (Class A), Add</i>	4.82	
<i>For 10" WG (Class A), Add</i>	6.93	
<i>For Work In Restricted Working Space, Add</i>	4.52	
23 31 13 13-0151 LF 8" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	23.26	9.86
<i>For 3" WG (Class B), Add</i>	2.47	
<i>For 4" Or 6" WG (Class A), Add</i>	5.26	
<i>For 10" WG (Class A), Add</i>	7.56	
<i>For Work In Restricted Working Space, Add</i>	4.93	
23 31 13 13-0152 LF 8" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	25.19	10.69
<i>For 3" WG (Class B), Add</i>	2.67	
<i>For 4" Or 6" WG (Class A), Add</i>	5.70	
<i>For 10" WG (Class A), Add</i>	8.19	
<i>For Work In Restricted Working Space, Add</i>	5.34	
23 31 13 13-0153 LF 8" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.12	11.51
<i>For 3" WG (Class B), Add</i>	2.88	
<i>For 4" Or 6" WG (Class A), Add</i>	6.14	
<i>For 10" WG (Class A), Add</i>	8.82	
<i>For Work In Restricted Working Space, Add</i>	5.75	
23 31 13 13-0154 LF 8" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	29.08	12.33
<i>For 3" WG (Class B), Add</i>	3.08	
<i>For 4" Or 6" WG (Class A), Add</i>	6.58	
<i>For 10" WG (Class A), Add</i>	9.45	
<i>For Work In Restricted Working Space, Add</i>	6.17	
23 31 13 13-0155 LF 8" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.02	13.15
<i>For 3" WG (Class B), Add</i>	3.29	
<i>For 4" Or 6" WG (Class A), Add</i>	7.02	
<i>For 10" WG (Class A), Add</i>	10.09	
<i>For Work In Restricted Working Space, Add</i>	6.58	
23 31 13 13-0156 LF 10" x 10", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	19.38	8.23
<i>For 3" WG (Class B), Add</i>	2.06	
<i>For 4" Or 6" WG (Class A), Add</i>	4.38	
<i>For 10" WG (Class A), Add</i>	6.30	
<i>For Work In Restricted Working Space, Add</i>	4.11	
23 31 13 13-0157 LF 10" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	21.32	9.04
<i>For 3" WG (Class B), Add</i>	2.26	
<i>For 4" Or 6" WG (Class A), Add</i>	4.82	
<i>For 10" WG (Class A), Add</i>	6.93	
<i>For Work In Restricted Working Space, Add</i>	4.52	
23 31 13 13-0158 LF 10" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	23.26	9.86
<i>For 3" WG (Class B), Add</i>	2.47	
<i>For 4" Or 6" WG (Class A), Add</i>	5.26	
<i>For 10" WG (Class A), Add</i>	7.56	
<i>For Work In Restricted Working Space, Add</i>	4.93	
23 31 13 13-0159 LF 10" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	25.19	10.69
<i>For 3" WG (Class B), Add</i>	2.67	
<i>For 4" Or 6" WG (Class A), Add</i>	5.70	
<i>For 10" WG (Class A), Add</i>	8.19	
<i>For Work In Restricted Working Space, Add</i>	5.34	
23 31 13 13-0160 LF 10" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork.....	27.12	11.51
<i>For 3" WG (Class B), Add</i>	2.88	
<i>For 4" Or 6" WG (Class A), Add</i>	6.14	
<i>For 10" WG (Class A), Add</i>	8.82	
<i>For Work In Restricted Working Space, Add</i>	5.75	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0161 LF 10" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	29.08	12.33
For 3" WG (Class B), Add	3.08	
For 4" Or 6" WG (Class A), Add	6.58	
For 10" WG (Class A), Add	9.45	
For Work In Restricted Working Space, Add	6.17	
23 31 13 13-0162 LF 10" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	31.02	13.15
For 3" WG (Class B), Add	3.29	
For 4" Or 6" WG (Class A), Add	7.02	
For 10" WG (Class A), Add	10.09	
For Work In Restricted Working Space, Add	6.58	
23 31 13 13-0163 LF 10" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	32.95	13.98
For 3" WG (Class B), Add	3.50	
For 4" Or 6" WG (Class A), Add	7.46	
For 10" WG (Class A), Add	10.72	
For Work In Restricted Working Space, Add	6.99	
23 31 13 13-0164 LF 12" x 12", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	23.26	9.87
For 3" WG (Class B), Add	2.47	
For 4" Or 6" WG (Class A), Add	5.26	
For 10" WG (Class A), Add	7.56	
For Work In Restricted Working Space, Add	4.93	
23 31 13 13-0165 LF 12" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	25.19	10.69
For 3" WG (Class B), Add	2.67	
For 4" Or 6" WG (Class A), Add	5.70	
For 10" WG (Class A), Add	8.19	
For Work In Restricted Working Space, Add	5.34	
23 31 13 13-0166 LF 12" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	27.12	11.51
For 3" WG (Class B), Add	2.88	
For 4" Or 6" WG (Class A), Add	6.14	
For 10" WG (Class A), Add	8.82	
For Work In Restricted Working Space, Add	5.75	
23 31 13 13-0167 LF 12" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	29.08	12.33
For 3" WG (Class B), Add	3.08	
For 4" Or 6" WG (Class A), Add	6.58	
For 10" WG (Class A), Add	9.45	
For Work In Restricted Working Space, Add	6.17	
23 31 13 13-0168 LF 12" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	31.02	13.15
For 3" WG (Class B), Add	3.29	
For 4" Or 6" WG (Class A), Add	7.02	
For 10" WG (Class A), Add	10.09	
For Work In Restricted Working Space, Add	6.58	
23 31 13 13-0169 LF 12" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	32.95	13.98
For 3" WG (Class B), Add	3.50	
For 4" Or 6" WG (Class A), Add	7.46	
For 10" WG (Class A), Add	10.72	
For Work In Restricted Working Space, Add	6.99	
23 31 13 13-0170 LF 12" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	34.89	14.80
For 3" WG (Class B), Add	3.70	
For 4" Or 6" WG (Class A), Add	7.89	
For 10" WG (Class A), Add	11.35	
For Work In Restricted Working Space, Add	7.40	
23 31 13 13-0171 LF 14" x 14", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	27.12	11.51
For 3" WG (Class B), Add	2.88	
For 4" Or 6" WG (Class A), Add	6.14	
For 10" WG (Class A), Add	8.82	
For Work In Restricted Working Space, Add	5.75	
23 31 13 13-0172 LF 14" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	29.08	12.33
For 3" WG (Class B), Add	3.08	
For 4" Or 6" WG (Class A), Add	6.58	
For 10" WG (Class A), Add	9.45	
For Work In Restricted Working Space, Add	6.17	
23 31 13 13-0173 LF 14" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	31.02	13.15
For 3" WG (Class B), Add	3.29	
For 4" Or 6" WG (Class A), Add	7.02	
For 10" WG (Class A), Add	10.09	
For Work In Restricted Working Space, Add	6.58	
23 31 13 13-0174 LF 14" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	32.95	13.98
For 3" WG (Class B), Add	3.50	
For 4" Or 6" WG (Class A), Add	7.46	
For 10" WG (Class A), Add	10.72	
For Work In Restricted Working Space, Add	6.99	
23 31 13 13-0175 LF 14" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	34.89	14.80
For 3" WG (Class B), Add	3.70	
For 4" Or 6" WG (Class A), Add	7.89	
For 10" WG (Class A), Add	11.35	
For Work In Restricted Working Space, Add	7.40	
23 31 13 13-0176 LF 14" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	36.84	15.62
For 3" WG (Class B), Add	3.91	
For 4" Or 6" WG (Class A), Add	8.33	
For 10" WG (Class A), Add	11.98	
For Work In Restricted Working Space, Add	7.81	
23 31 13 13-0177 LF 16" x 16", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	31.02	13.15
For 3" WG (Class B), Add	3.29	
For 4" Or 6" WG (Class A), Add	7.02	
For 10" WG (Class A), Add	10.09	
For Work In Restricted Working Space, Add	6.58	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0178 LF 16" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	32.95	13.98
<i>For 3" WG (Class B), Add</i>	3.50	
<i>For 4" Or 6" WG (Class A), Add</i>	7.46	
<i>For 10" WG (Class A), Add</i>	10.72	
<i>For Work In Restricted Working Space, Add</i>	6.99	
23 31 13 13-0179 LF 16" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	34.89	14.80
<i>For 3" WG (Class B), Add</i>	3.70	
<i>For 4" Or 6" WG (Class A), Add</i>	7.89	
<i>For 10" WG (Class A), Add</i>	11.35	
<i>For Work In Restricted Working Space, Add</i>	7.40	
23 31 13 13-0180 LF 16" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	36.84	15.62
<i>For 3" WG (Class B), Add</i>	3.91	
<i>For 4" Or 6" WG (Class A), Add</i>	8.33	
<i>For 10" WG (Class A), Add</i>	11.98	
<i>For Work In Restricted Working Space, Add</i>	7.81	
23 31 13 13-0181 LF 16" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	38.77	16.44
<i>For 3" WG (Class B), Add</i>	4.11	
<i>For 4" Or 6" WG (Class A), Add</i>	8.77	
<i>For 10" WG (Class A), Add</i>	12.61	
<i>For Work In Restricted Working Space, Add</i>	8.22	
23 31 13 13-0182 LF 18" x 18", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	34.89	14.80
<i>For 3" WG (Class B), Add</i>	3.70	
<i>For 4" Or 6" WG (Class A), Add</i>	7.89	
<i>For 10" WG (Class A), Add</i>	11.35	
<i>For Work In Restricted Working Space, Add</i>	7.40	
23 31 13 13-0183 LF 18" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	36.84	15.62
<i>For 3" WG (Class B), Add</i>	3.91	
<i>For 4" Or 6" WG (Class A), Add</i>	8.33	
<i>For 10" WG (Class A), Add</i>	11.98	
<i>For Work In Restricted Working Space, Add</i>	7.81	
23 31 13 13-0184 LF 18" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	38.77	16.44
<i>For 3" WG (Class B), Add</i>	4.11	
<i>For 4" Or 6" WG (Class A), Add</i>	8.77	
<i>For 10" WG (Class A), Add</i>	12.61	
<i>For Work In Restricted Working Space, Add</i>	8.22	
23 31 13 13-0185 LF 18" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	40.71	17.26
<i>For 3" WG (Class B), Add</i>	4.32	
<i>For 4" Or 6" WG (Class A), Add</i>	9.21	
<i>For 10" WG (Class A), Add</i>	13.24	
<i>For Work In Restricted Working Space, Add</i>	8.63	
23 31 13 13-0186 LF 20" x 20", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	38.77	16.44
<i>For 3" WG (Class B), Add</i>	4.11	
<i>For 4" Or 6" WG (Class A), Add</i>	8.77	
<i>For 10" WG (Class A), Add</i>	12.61	
<i>For Work In Restricted Working Space, Add</i>	8.22	
23 31 13 13-0187 LF 20" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	40.71	17.26
<i>For 3" WG (Class B), Add</i>	4.32	
<i>For 4" Or 6" WG (Class A), Add</i>	9.21	
<i>For 10" WG (Class A), Add</i>	13.24	
<i>For Work In Restricted Working Space, Add</i>	8.63	
23 31 13 13-0188 LF 20" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	42.64	18.09
<i>For 3" WG (Class B), Add</i>	4.52	
<i>For 4" Or 6" WG (Class A), Add</i>	9.65	
<i>For 10" WG (Class A), Add</i>	13.87	
<i>For Work In Restricted Working Space, Add</i>	9.05	
23 31 13 13-0189 LF 22" x 22", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	42.64	18.09
<i>For 3" WG (Class B), Add</i>	4.52	
<i>For 4" Or 6" WG (Class A), Add</i>	9.65	
<i>For 10" WG (Class A), Add</i>	13.87	
<i>For Work In Restricted Working Space, Add</i>	9.05	
23 31 13 13-0190 LF 22" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	44.59	18.91
<i>For 3" WG (Class B), Add</i>	4.73	
<i>For 4" Or 6" WG (Class A), Add</i>	10.09	
<i>For 10" WG (Class A), Add</i>	14.50	
<i>For Work In Restricted Working Space, Add</i>	9.46	
23 31 13 13-0191 LF 24" x 24", Up To 2" WG (Class C), 26 Gauge Galvanized Steel Sheet Metal Ductwork	46.53	19.73
<i>For 3" WG (Class B), Add</i>	4.93	
<i>For 4" Or 6" WG (Class A), Add</i>	10.52	
<i>For 10" WG (Class A), Add</i>	15.13	
<i>For Work In Restricted Working Space, Add</i>	9.87	
23 31 13 13-0192 24 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0193 LF 4" x 4", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	9.89	4.20
<i>For 3" WG (Class B), Add</i>	1.05	
<i>For 4" Or 6" WG (Class A), Add</i>	2.24	
<i>For 10" WG (Class A), Add</i>	3.22	
<i>For Work In Restricted Working Space, Add</i>	2.10	
23 31 13 13-0194 LF 4" x 6", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	12.36	5.25
<i>For 3" WG (Class B), Add</i>	1.31	
<i>For 4" Or 6" WG (Class A), Add</i>	2.80	
<i>For 10" WG (Class A), Add</i>	4.02	
<i>For Work In Restricted Working Space, Add</i>	2.62	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0195	LF	4" x 8", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	14.85 1.58 3.36 4.83 3.15	6.30
23 31 13	13-0196	LF	4" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	17.31 1.84 3.92 5.63 3.67	7.34
23 31 13	13-0197	LF	4" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	19.78 2.10 4.47 6.43 4.19	8.39
23 31 13	13-0198	LF	4" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	22.25 2.36 5.03 7.24 4.72	9.44
23 31 13	13-0199	LF	4" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	24.73 2.62 5.59 8.04 5.24	10.50
23 31 13	13-0200	LF	6" x 6", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	14.85 1.58 3.36 4.83 3.15	6.30
23 31 13	13-0201	LF	6" x 8", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	17.31 1.84 3.92 5.63 3.67	7.34
23 31 13	13-0202	LF	6" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	19.78 2.10 4.47 6.43 4.19	8.39
23 31 13	13-0203	LF	6" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	22.25 2.36 5.03 7.24 4.72	9.44
23 31 13	13-0204	LF	6" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	24.73 2.62 5.59 8.04 5.24	10.50
23 31 13	13-0205	LF	6" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	27.20 2.88 6.15 8.85 5.77	11.54
23 31 13	13-0206	LF	8" x 8", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	19.78 2.10 4.47 6.43 4.19	8.39
23 31 13	13-0207	LF	8" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	22.25 2.36 5.03 7.24 4.72	9.44
23 31 13	13-0208	LF	8" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	24.73 2.62 5.59 8.04 5.24	10.50
23 31 13	13-0209	LF	8" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	27.20 2.88 6.15 8.85 5.77	11.54
23 31 13	13-0210	LF	8" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	29.68 3.15 6.71 9.65 6.29	12.59
23 31 13	13-0211	LF	8" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	32.14 3.41 7.27 10.45 6.82	13.64



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0212 LF 8" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	34.63	14.69
<i>For 3" WG (Class B), Add</i>	3.67	
<i>For 4" Or 6" WG (Class A), Add</i>	7.83	
<i>For 10" WG (Class A), Add</i>	11.26	
<i>For Work In Restricted Working Space, Add</i>	7.34	
23 31 13 13-0213 LF 8" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	37.10	15.73
<i>For 3" WG (Class B), Add</i>	3.93	
<i>For 4" Or 6" WG (Class A), Add</i>	8.39	
<i>For 10" WG (Class A), Add</i>	12.07	
<i>For Work In Restricted Working Space, Add</i>	7.87	
23 31 13 13-0214 LF 8" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	39.57	16.79
<i>For 3" WG (Class B), Add</i>	4.20	
<i>For 4" Or 6" WG (Class A), Add</i>	8.95	
<i>For 10" WG (Class A), Add</i>	12.87	
<i>For Work In Restricted Working Space, Add</i>	8.39	
23 31 13 13-0215 LF 10" x 10", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	24.73	10.50
<i>For 3" WG (Class B), Add</i>	2.62	
<i>For 4" Or 6" WG (Class A), Add</i>	5.59	
<i>For 10" WG (Class A), Add</i>	8.04	
<i>For Work In Restricted Working Space, Add</i>	5.24	
23 31 13 13-0216 LF 10" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	27.20	11.54
<i>For 3" WG (Class B), Add</i>	2.88	
<i>For 4" Or 6" WG (Class A), Add</i>	6.15	
<i>For 10" WG (Class A), Add</i>	8.85	
<i>For Work In Restricted Working Space, Add</i>	5.77	
23 31 13 13-0217 LF 10" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	29.68	12.59
<i>For 3" WG (Class B), Add</i>	3.15	
<i>For 4" Or 6" WG (Class A), Add</i>	6.71	
<i>For 10" WG (Class A), Add</i>	9.65	
<i>For Work In Restricted Working Space, Add</i>	6.29	
23 31 13 13-0218 LF 10" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	32.14	13.64
<i>For 3" WG (Class B), Add</i>	3.41	
<i>For 4" Or 6" WG (Class A), Add</i>	7.27	
<i>For 10" WG (Class A), Add</i>	10.45	
<i>For Work In Restricted Working Space, Add</i>	6.82	
23 31 13 13-0219 LF 10" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	34.63	14.69
<i>For 3" WG (Class B), Add</i>	3.67	
<i>For 4" Or 6" WG (Class A), Add</i>	7.83	
<i>For 10" WG (Class A), Add</i>	11.26	
<i>For Work In Restricted Working Space, Add</i>	7.34	
23 31 13 13-0220 LF 10" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	37.10	15.73
<i>For 3" WG (Class B), Add</i>	3.93	
<i>For 4" Or 6" WG (Class A), Add</i>	8.39	
<i>For 10" WG (Class A), Add</i>	12.07	
<i>For Work In Restricted Working Space, Add</i>	7.87	
23 31 13 13-0221 LF 10" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	39.57	16.79
<i>For 3" WG (Class B), Add</i>	4.20	
<i>For 4" Or 6" WG (Class A), Add</i>	8.95	
<i>For 10" WG (Class A), Add</i>	12.87	
<i>For Work In Restricted Working Space, Add</i>	8.39	
23 31 13 13-0222 LF 10" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	42.04	17.84
<i>For 3" WG (Class B), Add</i>	4.46	
<i>For 4" Or 6" WG (Class A), Add</i>	9.51	
<i>For 10" WG (Class A), Add</i>	13.67	
<i>For Work In Restricted Working Space, Add</i>	8.92	
23 31 13 13-0223 LF 10" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	44.51	18.89
<i>For 3" WG (Class B), Add</i>	4.72	
<i>For 4" Or 6" WG (Class A), Add</i>	10.07	
<i>For 10" WG (Class A), Add</i>	14.48	
<i>For Work In Restricted Working Space, Add</i>	9.44	
23 31 13 13-0224 LF 10" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	46.99	19.93
<i>For 3" WG (Class B), Add</i>	4.98	
<i>For 4" Or 6" WG (Class A), Add</i>	10.63	
<i>For 10" WG (Class A), Add</i>	15.28	
<i>For Work In Restricted Working Space, Add</i>	9.97	
23 31 13 13-0225 LF 10" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	49.46	20.98
<i>For 3" WG (Class B), Add</i>	5.25	
<i>For 4" Or 6" WG (Class A), Add</i>	11.19	
<i>For 10" WG (Class A), Add</i>	16.09	
<i>For Work In Restricted Working Space, Add</i>	10.49	
23 31 13 13-0226 LF 12" x 12", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	29.68	12.59
<i>For 3" WG (Class B), Add</i>	3.15	
<i>For 4" Or 6" WG (Class A), Add</i>	6.71	
<i>For 10" WG (Class A), Add</i>	9.65	
<i>For Work In Restricted Working Space, Add</i>	6.29	
23 31 13 13-0227 LF 12" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	32.14	13.64
<i>For 3" WG (Class B), Add</i>	3.41	
<i>For 4" Or 6" WG (Class A), Add</i>	7.27	
<i>For 10" WG (Class A), Add</i>	10.45	
<i>For Work In Restricted Working Space, Add</i>	6.82	
23 31 13 13-0228 LF 12" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	34.63	14.69
<i>For 3" WG (Class B), Add</i>	3.67	
<i>For 4" Or 6" WG (Class A), Add</i>	7.83	
<i>For 10" WG (Class A), Add</i>	11.26	
<i>For Work In Restricted Working Space, Add</i>	7.34	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0229	LF	12" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	37.10	15.73
			For 3" WG (Class B), Add	3.93	
			For 4" Or 6" WG (Class A), Add	8.39	
			For 10" WG (Class A), Add	12.07	
			For Work In Restricted Working Space, Add	7.87	
23 31 13	13-0230	LF	12" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	39.57	16.79
			For 3" WG (Class B), Add	4.20	
			For 4" Or 6" WG (Class A), Add	8.95	
			For 10" WG (Class A), Add	12.87	
			For Work In Restricted Working Space, Add	8.39	
23 31 13	13-0231	LF	12" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	42.04	17.84
			For 3" WG (Class B), Add	4.46	
			For 4" Or 6" WG (Class A), Add	9.51	
			For 10" WG (Class A), Add	13.67	
			For Work In Restricted Working Space, Add	8.92	
23 31 13	13-0232	LF	12" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	44.51	18.89
			For 3" WG (Class B), Add	4.72	
			For 4" Or 6" WG (Class A), Add	10.07	
			For 10" WG (Class A), Add	14.48	
			For Work In Restricted Working Space, Add	9.44	
23 31 13	13-0233	LF	12" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	46.99	19.93
			For 3" WG (Class B), Add	4.98	
			For 4" Or 6" WG (Class A), Add	10.63	
			For 10" WG (Class A), Add	15.28	
			For Work In Restricted Working Space, Add	9.97	
23 31 13	13-0234	LF	12" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	49.46	20.98
			For 3" WG (Class B), Add	5.25	
			For 4" Or 6" WG (Class A), Add	11.19	
			For 10" WG (Class A), Add	16.09	
			For Work In Restricted Working Space, Add	10.49	
23 31 13	13-0235	LF	12" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	51.93	22.03
			For 3" WG (Class B), Add	5.51	
			For 4" Or 6" WG (Class A), Add	11.75	
			For 10" WG (Class A), Add	16.89	
			For Work In Restricted Working Space, Add	11.01	
23 31 13	13-0236	LF	14" x 14", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	34.63	14.69
			For 3" WG (Class B), Add	3.67	
			For 4" Or 6" WG (Class A), Add	7.83	
			For 10" WG (Class A), Add	11.26	
			For Work In Restricted Working Space, Add	7.34	
23 31 13	13-0237	LF	14" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	37.10	15.73
			For 3" WG (Class B), Add	3.93	
			For 4" Or 6" WG (Class A), Add	8.39	
			For 10" WG (Class A), Add	12.07	
			For Work In Restricted Working Space, Add	7.87	
23 31 13	13-0238	LF	14" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	39.57	16.79
			For 3" WG (Class B), Add	4.20	
			For 4" Or 6" WG (Class A), Add	8.95	
			For 10" WG (Class A), Add	12.87	
			For Work In Restricted Working Space, Add	8.39	
23 31 13	13-0239	LF	14" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	42.04	17.84
			For 3" WG (Class B), Add	4.46	
			For 4" Or 6" WG (Class A), Add	9.51	
			For 10" WG (Class A), Add	13.67	
			For Work In Restricted Working Space, Add	8.92	
23 31 13	13-0240	LF	14" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	44.51	18.89
			For 3" WG (Class B), Add	4.72	
			For 4" Or 6" WG (Class A), Add	10.07	
			For 10" WG (Class A), Add	14.48	
			For Work In Restricted Working Space, Add	9.44	
23 31 13	13-0241	LF	14" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	46.99	19.93
			For 3" WG (Class B), Add	4.98	
			For 4" Or 6" WG (Class A), Add	10.63	
			For 10" WG (Class A), Add	15.28	
			For Work In Restricted Working Space, Add	9.97	
23 31 13	13-0242	LF	14" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	49.46	20.98
			For 3" WG (Class B), Add	5.25	
			For 4" Or 6" WG (Class A), Add	11.19	
			For 10" WG (Class A), Add	16.09	
			For Work In Restricted Working Space, Add	10.49	
23 31 13	13-0243	LF	14" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	51.93	22.03
			For 3" WG (Class B), Add	5.51	
			For 4" Or 6" WG (Class A), Add	11.75	
			For 10" WG (Class A), Add	16.89	
			For Work In Restricted Working Space, Add	11.01	
23 31 13	13-0244	LF	14" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	54.41	23.09
			For 3" WG (Class B), Add	5.77	
			For 4" Or 6" WG (Class A), Add	12.31	
			For 10" WG (Class A), Add	17.70	
			For Work In Restricted Working Space, Add	11.54	
23 31 13	13-0245	LF	16" x 16", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	39.57	16.79
			For 3" WG (Class B), Add	4.20	
			For 4" Or 6" WG (Class A), Add	8.95	
			For 10" WG (Class A), Add	12.87	
			For Work In Restricted Working Space, Add	8.39	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0246 LF 16" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	42.04	17.84
For 3" WG (Class B), Add	4.46	
For 4" Or 6" WG (Class A), Add	9.51	
For 10" WG (Class A), Add	13.67	
For Work In Restricted Working Space, Add	8.92	
23 31 13 13-0247 LF 16" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	44.51	18.89
For 3" WG (Class B), Add	4.72	
For 4" Or 6" WG (Class A), Add	10.07	
For 10" WG (Class A), Add	14.48	
For Work In Restricted Working Space, Add	9.44	
23 31 13 13-0248 LF 16" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	46.99	19.93
For 3" WG (Class B), Add	4.98	
For 4" Or 6" WG (Class A), Add	10.63	
For 10" WG (Class A), Add	15.28	
For Work In Restricted Working Space, Add	9.97	
23 31 13 13-0249 LF 16" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	49.46	20.98
For 3" WG (Class B), Add	5.25	
For 4" Or 6" WG (Class A), Add	11.19	
For 10" WG (Class A), Add	16.09	
For Work In Restricted Working Space, Add	10.49	
23 31 13 13-0250 LF 16" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	51.93	22.03
For 3" WG (Class B), Add	5.51	
For 4" Or 6" WG (Class A), Add	11.75	
For 10" WG (Class A), Add	16.89	
For Work In Restricted Working Space, Add	11.01	
23 31 13 13-0251 LF 16" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	54.41	23.09
For 3" WG (Class B), Add	5.77	
For 4" Or 6" WG (Class A), Add	12.31	
For 10" WG (Class A), Add	17.70	
For Work In Restricted Working Space, Add	11.54	
23 31 13 13-0252 LF 16" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	56.88	24.13
For 3" WG (Class B), Add	6.03	
For 4" Or 6" WG (Class A), Add	12.87	
For 10" WG (Class A), Add	18.50	
For Work In Restricted Working Space, Add	12.06	
23 31 13 13-0253 LF 18" x 18", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	44.51	18.89
For 3" WG (Class B), Add	4.72	
For 4" Or 6" WG (Class A), Add	10.07	
For 10" WG (Class A), Add	14.48	
For Work In Restricted Working Space, Add	9.44	
23 31 13 13-0254 LF 18" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	46.99	19.93
For 3" WG (Class B), Add	4.98	
For 4" Or 6" WG (Class A), Add	10.63	
For 10" WG (Class A), Add	15.28	
For Work In Restricted Working Space, Add	9.97	
23 31 13 13-0255 LF 18" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	49.46	20.98
For 3" WG (Class B), Add	5.25	
For 4" Or 6" WG (Class A), Add	11.19	
For 10" WG (Class A), Add	16.09	
For Work In Restricted Working Space, Add	10.49	
23 31 13 13-0256 LF 18" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	51.93	22.03
For 3" WG (Class B), Add	5.51	
For 4" Or 6" WG (Class A), Add	11.75	
For 10" WG (Class A), Add	16.89	
For Work In Restricted Working Space, Add	11.01	
23 31 13 13-0257 LF 18" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	54.41	23.09
For 3" WG (Class B), Add	5.77	
For 4" Or 6" WG (Class A), Add	12.31	
For 10" WG (Class A), Add	17.70	
For Work In Restricted Working Space, Add	11.54	
23 31 13 13-0258 LF 18" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	56.88	24.13
For 3" WG (Class B), Add	6.03	
For 4" Or 6" WG (Class A), Add	12.87	
For 10" WG (Class A), Add	18.50	
For Work In Restricted Working Space, Add	12.06	
23 31 13 13-0259 LF 18" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	59.34	25.18
For 3" WG (Class B), Add	6.29	
For 4" Or 6" WG (Class A), Add	13.42	
For 10" WG (Class A), Add	19.30	
For Work In Restricted Working Space, Add	12.59	
23 31 13 13-0260 LF 20" x 20", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	49.46	20.98
For 3" WG (Class B), Add	5.25	
For 4" Or 6" WG (Class A), Add	11.19	
For 10" WG (Class A), Add	16.09	
For Work In Restricted Working Space, Add	10.49	
23 31 13 13-0261 LF 20" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	51.93	22.03
For 3" WG (Class B), Add	5.51	
For 4" Or 6" WG (Class A), Add	11.75	
For 10" WG (Class A), Add	16.89	
For Work In Restricted Working Space, Add	11.01	
23 31 13 13-0262 LF 20" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	54.41	23.09
For 3" WG (Class B), Add	5.77	
For 4" Or 6" WG (Class A), Add	12.31	
For 10" WG (Class A), Add	17.70	
For Work In Restricted Working Space, Add	11.54	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 31 13 13-0263	LF 20" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	56.88 6.03 12.87 18.50 12.06	24.13
23 31 13 13-0264	LF 22" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	59.34 6.29 13.42 19.30 12.59	25.18
23 31 13 13-0265	LF 20" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	61.82 6.56 13.98 20.10 13.11	26.23
23 31 13 13-0266	LF 22" x 22", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	54.41 5.77 12.31 17.70 11.54	23.09
23 31 13 13-0267	LF 22" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	56.88 6.03 12.87 18.50 12.06	24.13
23 31 13 13-0268	LF 22" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	59.34 6.29 13.42 19.30 12.59	25.18
23 31 13 13-0269	LF 22" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	61.82 6.56 13.98 20.10 13.11	26.23
23 31 13 13-0270	LF 22" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	64.30 6.82 14.55 20.91 13.64	27.28
23 31 13 13-0271	LF 24" x 24", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	59.34 6.29 13.42 19.30 12.59	25.18
23 31 13 13-0272	LF 24" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	61.82 6.56 13.98 20.10 13.11	26.23
23 31 13 13-0273	LF 24" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	64.30 6.82 14.55 20.91 13.64	27.28
23 31 13 13-0274	LF 24" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	66.77 7.08 15.10 21.71 14.16	28.32
23 31 13 13-0275	LF 26" x 26", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	64.30 6.82 14.55 20.91 13.64	27.28
23 31 13 13-0276	LF 26" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	66.77 7.08 15.10 21.71 14.16	28.32
23 31 13 13-0277	LF 26" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	69.24 7.34 15.66 22.52 14.69	29.37
23 31 13 13-0278	LF 28" x 28", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	69.24 7.34 15.66 22.52 14.69	29.37
23 31 13 13-0279	LF 28" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	71.71 7.60 16.22 23.32 15.21	30.42



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0280 LF 30" x 30", Up To 2" WG (Class C), 24 Gauge Galvanized Steel Sheet Metal Ductwork	74.19	31.47
<i>For 3" WG (Class B), Add</i>	7.87	
<i>For 4" Or 6" WG (Class A), Add</i>	16.78	
<i>For 10" WG (Class A), Add</i>	24.13	
<i>For Work In Restricted Working Space, Add</i>	15.74	
23 31 13 13-0281 22 Gauge Galvanized Steel Metal Ductwork <small>(23 31 13 13-0014)</small>		
23 31 13 13-0282 LF 4" x 4", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	12.03	5.11
<i>For 3" WG (Class B), Add</i>	1.28	
<i>For 4" Or 6" WG (Class A), Add</i>	2.72	
<i>For 10" WG (Class A), Add</i>	3.91	
<i>For Work In Restricted Working Space, Add</i>	2.55	
23 31 13 13-0283 LF 4" x 6", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	15.05	6.38
<i>For 3" WG (Class B), Add</i>	1.60	
<i>For 4" Or 6" WG (Class A), Add</i>	3.40	
<i>For 10" WG (Class A), Add</i>	4.89	
<i>For Work In Restricted Working Space, Add</i>	3.19	
23 31 13 13-0284 LF 4" x 8", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	18.05	7.66
<i>For 3" WG (Class B), Add</i>	1.91	
<i>For 4" Or 6" WG (Class A), Add</i>	4.08	
<i>For 10" WG (Class A), Add</i>	5.87	
<i>For Work In Restricted Working Space, Add</i>	3.83	
23 31 13 13-0285 LF 4" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	21.05	8.93
<i>For 3" WG (Class B), Add</i>	2.23	
<i>For 4" Or 6" WG (Class A), Add</i>	4.76	
<i>For 10" WG (Class A), Add</i>	6.84	
<i>For Work In Restricted Working Space, Add</i>	4.46	
23 31 13 13-0286 LF 4" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	24.06	10.20
<i>For 3" WG (Class B), Add</i>	2.55	
<i>For 4" Or 6" WG (Class A), Add</i>	5.44	
<i>For 10" WG (Class A), Add</i>	7.82	
<i>For Work In Restricted Working Space, Add</i>	5.10	
23 31 13 13-0287 LF 4" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	27.07	11.48
<i>For 3" WG (Class B), Add</i>	2.87	
<i>For 4" Or 6" WG (Class A), Add</i>	6.12	
<i>For 10" WG (Class A), Add</i>	8.80	
<i>For Work In Restricted Working Space, Add</i>	5.74	
23 31 13 13-0288 LF 4" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	30.07	12.76
<i>For 3" WG (Class B), Add</i>	3.19	
<i>For 4" Or 6" WG (Class A), Add</i>	6.80	
<i>For 10" WG (Class A), Add</i>	9.78	
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 31 13 13-0289 LF 6" x 6", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	18.05	7.66
<i>For 3" WG (Class B), Add</i>	1.91	
<i>For 4" Or 6" WG (Class A), Add</i>	4.08	
<i>For 10" WG (Class A), Add</i>	5.87	
<i>For Work In Restricted Working Space, Add</i>	3.83	
23 31 13 13-0290 LF 6" x 8", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	21.05	8.93
<i>For 3" WG (Class B), Add</i>	2.23	
<i>For 4" Or 6" WG (Class A), Add</i>	4.76	
<i>For 10" WG (Class A), Add</i>	6.84	
<i>For Work In Restricted Working Space, Add</i>	4.46	
23 31 13 13-0291 LF 6" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	24.06	10.20
<i>For 3" WG (Class B), Add</i>	2.55	
<i>For 4" Or 6" WG (Class A), Add</i>	5.44	
<i>For 10" WG (Class A), Add</i>	7.82	
<i>For Work In Restricted Working Space, Add</i>	5.10	
23 31 13 13-0292 LF 6" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	27.07	11.48
<i>For 3" WG (Class B), Add</i>	2.87	
<i>For 4" Or 6" WG (Class A), Add</i>	6.12	
<i>For 10" WG (Class A), Add</i>	8.80	
<i>For Work In Restricted Working Space, Add</i>	5.74	
23 31 13 13-0293 LF 6" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	30.07	12.76
<i>For 3" WG (Class B), Add</i>	3.19	
<i>For 4" Or 6" WG (Class A), Add</i>	6.80	
<i>For 10" WG (Class A), Add</i>	9.78	
<i>For Work In Restricted Working Space, Add</i>	6.38	
23 31 13 13-0294 LF 6" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	33.09	14.03
<i>For 3" WG (Class B), Add</i>	3.51	
<i>For 4" Or 6" WG (Class A), Add</i>	7.48	
<i>For 10" WG (Class A), Add</i>	10.76	
<i>For Work In Restricted Working Space, Add</i>	7.02	
23 31 13 13-0295 LF 8" x 8", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	24.06	10.20
<i>For 3" WG (Class B), Add</i>	2.55	
<i>For 4" Or 6" WG (Class A), Add</i>	5.44	
<i>For 10" WG (Class A), Add</i>	7.82	
<i>For Work In Restricted Working Space, Add</i>	5.10	
23 31 13 13-0296 LF 8" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	27.07	11.48
<i>For 3" WG (Class B), Add</i>	2.87	
<i>For 4" Or 6" WG (Class A), Add</i>	6.12	
<i>For 10" WG (Class A), Add</i>	8.80	
<i>For Work In Restricted Working Space, Add</i>	5.74	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0297	LF	8" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	30.07	12.76
			For 3" WG (Class B), Add	3.19	
			For 4" Or 6" WG (Class A), Add	6.80	
			For 10" WG (Class A), Add	9.78	
			For Work In Restricted Working Space, Add	6.38	
23 31 13	13-0298	LF	8" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	33.09	14.03
			For 3" WG (Class B), Add	3.51	
			For 4" Or 6" WG (Class A), Add	7.48	
			For 10" WG (Class A), Add	10.76	
			For Work In Restricted Working Space, Add	7.02	
23 31 13	13-0299	LF	8" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	36.09	15.31
			For 3" WG (Class B), Add	3.83	
			For 4" Or 6" WG (Class A), Add	8.16	
			For 10" WG (Class A), Add	11.73	
			For Work In Restricted Working Space, Add	7.65	
23 31 13	13-0300	LF	8" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	39.10	16.59
			For 3" WG (Class B), Add	4.15	
			For 4" Or 6" WG (Class A), Add	8.84	
			For 10" WG (Class A), Add	12.71	
			For Work In Restricted Working Space, Add	8.29	
23 31 13	13-0301	LF	8" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	42.11	17.86
			For 3" WG (Class B), Add	4.47	
			For 4" Or 6" WG (Class A), Add	9.53	
			For 10" WG (Class A), Add	13.69	
			For Work In Restricted Working Space, Add	8.93	
23 31 13	13-0302	LF	8" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	45.12	19.14
			For 3" WG (Class B), Add	4.79	
			For 4" Or 6" WG (Class A), Add	10.21	
			For 10" WG (Class A), Add	14.67	
			For Work In Restricted Working Space, Add	9.57	
23 31 13	13-0303	LF	8" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	48.11	20.42
			For 3" WG (Class B), Add	5.10	
			For 4" Or 6" WG (Class A), Add	10.88	
			For 10" WG (Class A), Add	15.64	
			For Work In Restricted Working Space, Add	10.20	
23 31 13	13-0304	LF	10" x 10", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	30.07	12.76
			For 3" WG (Class B), Add	3.19	
			For 4" Or 6" WG (Class A), Add	6.80	
			For 10" WG (Class A), Add	9.78	
			For Work In Restricted Working Space, Add	6.38	
23 31 13	13-0305	LF	10" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	33.09	14.03
			For 3" WG (Class B), Add	3.51	
			For 4" Or 6" WG (Class A), Add	7.48	
			For 10" WG (Class A), Add	10.76	
			For Work In Restricted Working Space, Add	7.02	
23 31 13	13-0306	LF	10" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	36.09	15.31
			For 3" WG (Class B), Add	3.83	
			For 4" Or 6" WG (Class A), Add	8.16	
			For 10" WG (Class A), Add	11.73	
			For Work In Restricted Working Space, Add	7.65	
23 31 13	13-0307	LF	10" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	39.10	16.59
			For 3" WG (Class B), Add	4.15	
			For 4" Or 6" WG (Class A), Add	8.84	
			For 10" WG (Class A), Add	12.71	
			For Work In Restricted Working Space, Add	8.29	
23 31 13	13-0308	LF	10" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	42.11	17.86
			For 3" WG (Class B), Add	4.47	
			For 4" Or 6" WG (Class A), Add	9.53	
			For 10" WG (Class A), Add	13.69	
			For Work In Restricted Working Space, Add	8.93	
23 31 13	13-0309	LF	10" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	45.12	19.14
			For 3" WG (Class B), Add	4.79	
			For 4" Or 6" WG (Class A), Add	10.21	
			For 10" WG (Class A), Add	14.67	
			For Work In Restricted Working Space, Add	9.57	
23 31 13	13-0310	LF	10" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	48.11	20.42
			For 3" WG (Class B), Add	5.10	
			For 4" Or 6" WG (Class A), Add	10.88	
			For 10" WG (Class A), Add	15.64	
			For Work In Restricted Working Space, Add	10.20	
23 31 13	13-0311	LF	10" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	51.13	21.69
			For 3" WG (Class B), Add	5.42	
			For 4" Or 6" WG (Class A), Add	11.57	
			For 10" WG (Class A), Add	16.63	
			For Work In Restricted Working Space, Add	10.85	
23 31 13	13-0312	LF	10" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	54.15	22.97
			For 3" WG (Class B), Add	5.74	
			For 4" Or 6" WG (Class A), Add	12.25	
			For 10" WG (Class A), Add	17.61	
			For Work In Restricted Working Space, Add	11.48	
23 31 13	13-0313	LF	10" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	57.15	24.24
			For 3" WG (Class B), Add	6.06	
			For 4" Or 6" WG (Class A), Add	12.93	
			For 10" WG (Class A), Add	18.58	
			For Work In Restricted Working Space, Add	12.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0314 LF 10" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	60.16	25.51
<i>For 3" WG (Class B), Add</i>	6.38	
<i>For 4" Or 6" WG (Class A), Add</i>	13.61	
<i>For 10" WG (Class A), Add</i>	19.56	
<i>For Work In Restricted Working Space, Add</i>	12.76	
23 31 13 13-0315 LF 10" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	63.16	26.79
<i>For 3" WG (Class B), Add</i>	6.70	
<i>For 4" Or 6" WG (Class A), Add</i>	14.29	
<i>For 10" WG (Class A), Add</i>	20.54	
<i>For Work In Restricted Working Space, Add</i>	13.40	
23 31 13 13-0316 LF 12" x 12", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	36.09	15.31
<i>For 3" WG (Class B), Add</i>	3.83	
<i>For 4" Or 6" WG (Class A), Add</i>	8.16	
<i>For 10" WG (Class A), Add</i>	11.73	
<i>For Work In Restricted Working Space, Add</i>	7.65	
23 31 13 13-0317 LF 12" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	39.10	16.59
<i>For 3" WG (Class B), Add</i>	4.15	
<i>For 4" Or 6" WG (Class A), Add</i>	8.84	
<i>For 10" WG (Class A), Add</i>	12.71	
<i>For Work In Restricted Working Space, Add</i>	8.29	
23 31 13 13-0318 LF 12" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	42.11	17.86
<i>For 3" WG (Class B), Add</i>	4.47	
<i>For 4" Or 6" WG (Class A), Add</i>	9.53	
<i>For 10" WG (Class A), Add</i>	13.69	
<i>For Work In Restricted Working Space, Add</i>	8.93	
23 31 13 13-0319 LF 12" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	45.12	19.14
<i>For 3" WG (Class B), Add</i>	4.79	
<i>For 4" Or 6" WG (Class A), Add</i>	10.21	
<i>For 10" WG (Class A), Add</i>	14.67	
<i>For Work In Restricted Working Space, Add</i>	9.57	
23 31 13 13-0320 LF 12" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	48.11	20.42
<i>For 3" WG (Class B), Add</i>	5.10	
<i>For 4" Or 6" WG (Class A), Add</i>	10.88	
<i>For 10" WG (Class A), Add</i>	15.64	
<i>For Work In Restricted Working Space, Add</i>	10.20	
23 31 13 13-0321 LF 12" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	51.13	21.69
<i>For 3" WG (Class B), Add</i>	5.42	
<i>For 4" Or 6" WG (Class A), Add</i>	11.57	
<i>For 10" WG (Class A), Add</i>	16.63	
<i>For Work In Restricted Working Space, Add</i>	10.85	
23 31 13 13-0322 LF 12" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	54.15	22.97
<i>For 3" WG (Class B), Add</i>	5.74	
<i>For 4" Or 6" WG (Class A), Add</i>	12.25	
<i>For 10" WG (Class A), Add</i>	17.61	
<i>For Work In Restricted Working Space, Add</i>	11.48	
23 31 13 13-0323 LF 12" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	57.15	24.24
<i>For 3" WG (Class B), Add</i>	6.06	
<i>For 4" Or 6" WG (Class A), Add</i>	12.93	
<i>For 10" WG (Class A), Add</i>	18.58	
<i>For Work In Restricted Working Space, Add</i>	12.12	
23 31 13 13-0324 LF 12" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	60.16	25.51
<i>For 3" WG (Class B), Add</i>	6.38	
<i>For 4" Or 6" WG (Class A), Add</i>	13.61	
<i>For 10" WG (Class A), Add</i>	19.56	
<i>For Work In Restricted Working Space, Add</i>	12.76	
23 31 13 13-0325 LF 12" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	63.16	26.79
<i>For 3" WG (Class B), Add</i>	6.70	
<i>For 4" Or 6" WG (Class A), Add</i>	14.29	
<i>For 10" WG (Class A), Add</i>	20.54	
<i>For Work In Restricted Working Space, Add</i>	13.40	
23 31 13 13-0326 LF 12" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	66.17	28.07
<i>For 3" WG (Class B), Add</i>	7.02	
<i>For 4" Or 6" WG (Class A), Add</i>	14.97	
<i>For 10" WG (Class A), Add</i>	21.52	
<i>For Work In Restricted Working Space, Add</i>	14.03	
23 31 13 13-0327 LF 12" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	69.18	29.34
<i>For 3" WG (Class B), Add</i>	7.34	
<i>For 4" Or 6" WG (Class A), Add</i>	15.65	
<i>For 10" WG (Class A), Add</i>	22.50	
<i>For Work In Restricted Working Space, Add</i>	14.67	
23 31 13 13-0328 LF 12" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	72.18	30.62
<i>For 3" WG (Class B), Add</i>	7.65	
<i>For 4" Or 6" WG (Class A), Add</i>	16.33	
<i>For 10" WG (Class A), Add</i>	23.47	
<i>For Work In Restricted Working Space, Add</i>	15.31	
23 31 13 13-0329 LF 14" x 14", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	42.11	17.86
<i>For 3" WG (Class B), Add</i>	4.47	
<i>For 4" Or 6" WG (Class A), Add</i>	9.53	
<i>For 10" WG (Class A), Add</i>	13.69	
<i>For Work In Restricted Working Space, Add</i>	8.93	
23 31 13 13-0330 LF 14" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	45.12	19.14
<i>For 3" WG (Class B), Add</i>	4.79	
<i>For 4" Or 6" WG (Class A), Add</i>	10.21	
<i>For 10" WG (Class A), Add</i>	14.67	
<i>For Work In Restricted Working Space, Add</i>	9.57	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0331	LF	14" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	48.11	20.42
			<i>For 3" WG (Class B), Add</i>	5.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	10.88	
			<i>For 10" WG (Class A), Add</i>	15.64	
			<i>For Work In Restricted Working Space, Add</i>	10.20	
23 31 13	13-0332	LF	14" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	51.13	21.69
			<i>For 3" WG (Class B), Add</i>	5.42	
			<i>For 4" Or 6" WG (Class A), Add</i>	11.57	
			<i>For 10" WG (Class A), Add</i>	16.63	
			<i>For Work In Restricted Working Space, Add</i>	10.85	
23 31 13	13-0333	LF	14" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	54.15	22.97
			<i>For 3" WG (Class B), Add</i>	5.74	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.25	
			<i>For 10" WG (Class A), Add</i>	17.61	
			<i>For Work In Restricted Working Space, Add</i>	11.48	
23 31 13	13-0334	LF	14" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	57.15	24.24
			<i>For 3" WG (Class B), Add</i>	6.06	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.93	
			<i>For 10" WG (Class A), Add</i>	18.58	
			<i>For Work In Restricted Working Space, Add</i>	12.12	
23 31 13	13-0335	LF	14" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	60.16	25.51
			<i>For 3" WG (Class B), Add</i>	6.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	13.61	
			<i>For 10" WG (Class A), Add</i>	19.56	
			<i>For Work In Restricted Working Space, Add</i>	12.76	
23 31 13	13-0336	LF	14" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	63.16	26.79
			<i>For 3" WG (Class B), Add</i>	6.70	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.29	
			<i>For 10" WG (Class A), Add</i>	20.54	
			<i>For Work In Restricted Working Space, Add</i>	13.40	
23 31 13	13-0337	LF	14" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	66.17	28.07
			<i>For 3" WG (Class B), Add</i>	7.02	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.97	
			<i>For 10" WG (Class A), Add</i>	21.52	
			<i>For Work In Restricted Working Space, Add</i>	14.03	
23 31 13	13-0338	LF	14" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	69.18	29.34
			<i>For 3" WG (Class B), Add</i>	7.34	
			<i>For 4" Or 6" WG (Class A), Add</i>	15.65	
			<i>For 10" WG (Class A), Add</i>	22.50	
			<i>For Work In Restricted Working Space, Add</i>	14.67	
23 31 13	13-0339	LF	14" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	72.18	30.62
			<i>For 3" WG (Class B), Add</i>	7.65	
			<i>For 4" Or 6" WG (Class A), Add</i>	16.33	
			<i>For 10" WG (Class A), Add</i>	23.47	
			<i>For Work In Restricted Working Space, Add</i>	15.31	
23 31 13	13-0340	LF	14" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	75.20	31.90
			<i>For 3" WG (Class B), Add</i>	7.97	
			<i>For 4" Or 6" WG (Class A), Add</i>	17.01	
			<i>For 10" WG (Class A), Add</i>	24.45	
			<i>For Work In Restricted Working Space, Add</i>	15.95	
23 31 13	13-0341	LF	16" x 16", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	48.11	20.42
			<i>For 3" WG (Class B), Add</i>	5.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	10.88	
			<i>For 10" WG (Class A), Add</i>	15.64	
			<i>For Work In Restricted Working Space, Add</i>	10.20	
23 31 13	13-0342	LF	16" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	51.13	21.69
			<i>For 3" WG (Class B), Add</i>	5.42	
			<i>For 4" Or 6" WG (Class A), Add</i>	11.57	
			<i>For 10" WG (Class A), Add</i>	16.63	
			<i>For Work In Restricted Working Space, Add</i>	10.85	
23 31 13	13-0343	LF	16" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	54.15	22.97
			<i>For 3" WG (Class B), Add</i>	5.74	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.25	
			<i>For 10" WG (Class A), Add</i>	17.61	
			<i>For Work In Restricted Working Space, Add</i>	11.48	
23 31 13	13-0344	LF	16" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	57.15	24.24
			<i>For 3" WG (Class B), Add</i>	6.06	
			<i>For 4" Or 6" WG (Class A), Add</i>	12.93	
			<i>For 10" WG (Class A), Add</i>	18.58	
			<i>For Work In Restricted Working Space, Add</i>	12.12	
23 31 13	13-0345	LF	16" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	60.16	25.51
			<i>For 3" WG (Class B), Add</i>	6.38	
			<i>For 4" Or 6" WG (Class A), Add</i>	13.61	
			<i>For 10" WG (Class A), Add</i>	19.56	
			<i>For Work In Restricted Working Space, Add</i>	12.76	
23 31 13	13-0346	LF	16" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	63.16	26.79
			<i>For 3" WG (Class B), Add</i>	6.70	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.29	
			<i>For 10" WG (Class A), Add</i>	20.54	
			<i>For Work In Restricted Working Space, Add</i>	13.40	
23 31 13	13-0347	LF	16" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	66.17	28.07
			<i>For 3" WG (Class B), Add</i>	7.02	
			<i>For 4" Or 6" WG (Class A), Add</i>	14.97	
			<i>For 10" WG (Class A), Add</i>	21.52	
			<i>For Work In Restricted Working Space, Add</i>	14.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0348 LF 16" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	69.18	29.34
<i>For 3" WG (Class B), Add</i>	7.34	
<i>For 4" Or 6" WG (Class A), Add</i>	15.65	
<i>For 10" WG (Class A), Add</i>	22.50	
<i>For Work In Restricted Working Space, Add</i>	14.67	
23 31 13 13-0349 LF 16" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	72.18	30.62
<i>For 3" WG (Class B), Add</i>	7.65	
<i>For 4" Or 6" WG (Class A), Add</i>	16.33	
<i>For 10" WG (Class A), Add</i>	23.47	
<i>For Work In Restricted Working Space, Add</i>	15.31	
23 31 13 13-0350 LF 16" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	75.20	31.90
<i>For 3" WG (Class B), Add</i>	7.97	
<i>For 4" Or 6" WG (Class A), Add</i>	17.01	
<i>For 10" WG (Class A), Add</i>	24.45	
<i>For Work In Restricted Working Space, Add</i>	15.95	
23 31 13 13-0351 LF 16" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	78.21	33.17
<i>For 3" WG (Class B), Add</i>	8.29	
<i>For 4" Or 6" WG (Class A), Add</i>	17.69	
<i>For 10" WG (Class A), Add</i>	25.43	
<i>For Work In Restricted Working Space, Add</i>	16.59	
23 31 13 13-0352 LF 16" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	81.21	34.45
<i>For 3" WG (Class B), Add</i>	8.61	
<i>For 4" Or 6" WG (Class A), Add</i>	18.37	
<i>For 10" WG (Class A), Add</i>	26.41	
<i>For Work In Restricted Working Space, Add</i>	17.22	
23 31 13 13-0353 LF 16" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	84.22	35.72
<i>For 3" WG (Class B), Add</i>	8.93	
<i>For 4" Or 6" WG (Class A), Add</i>	19.05	
<i>For 10" WG (Class A), Add</i>	27.39	
<i>For Work In Restricted Working Space, Add</i>	17.86	
23 31 13 13-0354 LF 16" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	87.22	37.00
<i>For 3" WG (Class B), Add</i>	9.25	
<i>For 4" Or 6" WG (Class A), Add</i>	19.73	
<i>For 10" WG (Class A), Add</i>	28.36	
<i>For Work In Restricted Working Space, Add</i>	18.50	
23 31 13 13-0355 LF 16" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	90.23	38.28
<i>For 3" WG (Class B), Add</i>	9.57	
<i>For 4" Or 6" WG (Class A), Add</i>	20.41	
<i>For 10" WG (Class A), Add</i>	29.34	
<i>For Work In Restricted Working Space, Add</i>	19.14	
23 31 13 13-0356 LF 18" x 18", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	54.15	22.97
<i>For 3" WG (Class B), Add</i>	5.74	
<i>For 4" Or 6" WG (Class A), Add</i>	12.25	
<i>For 10" WG (Class A), Add</i>	17.61	
<i>For Work In Restricted Working Space, Add</i>	11.48	
23 31 13 13-0357 LF 18" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	57.15	24.24
<i>For 3" WG (Class B), Add</i>	6.06	
<i>For 4" Or 6" WG (Class A), Add</i>	12.93	
<i>For 10" WG (Class A), Add</i>	18.58	
<i>For Work In Restricted Working Space, Add</i>	12.12	
23 31 13 13-0358 LF 18" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	60.16	25.51
<i>For 3" WG (Class B), Add</i>	6.38	
<i>For 4" Or 6" WG (Class A), Add</i>	13.61	
<i>For 10" WG (Class A), Add</i>	19.56	
<i>For Work In Restricted Working Space, Add</i>	12.76	
23 31 13 13-0359 LF 18" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	63.16	26.79
<i>For 3" WG (Class B), Add</i>	6.70	
<i>For 4" Or 6" WG (Class A), Add</i>	14.29	
<i>For 10" WG (Class A), Add</i>	20.54	
<i>For Work In Restricted Working Space, Add</i>	13.40	
23 31 13 13-0360 LF 18" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	66.17	28.07
<i>For 3" WG (Class B), Add</i>	7.02	
<i>For 4" Or 6" WG (Class A), Add</i>	14.97	
<i>For 10" WG (Class A), Add</i>	21.52	
<i>For Work In Restricted Working Space, Add</i>	14.03	
23 31 13 13-0361 LF 18" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	69.18	29.34
<i>For 3" WG (Class B), Add</i>	7.34	
<i>For 4" Or 6" WG (Class A), Add</i>	15.65	
<i>For 10" WG (Class A), Add</i>	22.50	
<i>For Work In Restricted Working Space, Add</i>	14.67	
23 31 13 13-0362 LF 18" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	72.18	30.62
<i>For 3" WG (Class B), Add</i>	7.65	
<i>For 4" Or 6" WG (Class A), Add</i>	16.33	
<i>For 10" WG (Class A), Add</i>	23.47	
<i>For Work In Restricted Working Space, Add</i>	15.31	
23 31 13 13-0363 LF 18" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	75.20	31.90
<i>For 3" WG (Class B), Add</i>	7.97	
<i>For 4" Or 6" WG (Class A), Add</i>	17.01	
<i>For 10" WG (Class A), Add</i>	24.45	
<i>For Work In Restricted Working Space, Add</i>	15.95	
23 31 13 13-0364 LF 18" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	78.21	33.17
<i>For 3" WG (Class B), Add</i>	8.29	
<i>For 4" Or 6" WG (Class A), Add</i>	17.69	
<i>For 10" WG (Class A), Add</i>	25.43	
<i>For Work In Restricted Working Space, Add</i>	16.59	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0365	LF	18" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	81.21	34.45
			For 3" WG (Class B), Add	8.61	
			For 4" Or 6" WG (Class A), Add	18.37	
			For 10" WG (Class A), Add	26.41	
			For Work In Restricted Working Space, Add	17.22	
23 31 13	13-0366	LF	18" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	84.22	35.72
			For 3" WG (Class B), Add	8.93	
			For 4" Or 6" WG (Class A), Add	19.05	
			For 10" WG (Class A), Add	27.39	
			For Work In Restricted Working Space, Add	17.86	
23 31 13	13-0367	LF	18" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	87.22	37.00
			For 3" WG (Class B), Add	9.25	
			For 4" Or 6" WG (Class A), Add	19.73	
			For 10" WG (Class A), Add	28.36	
			For Work In Restricted Working Space, Add	18.50	
23 31 13	13-0368	LF	18" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	90.23	38.28
			For 3" WG (Class B), Add	9.57	
			For 4" Or 6" WG (Class A), Add	20.41	
			For 10" WG (Class A), Add	29.34	
			For Work In Restricted Working Space, Add	19.14	
23 31 13	13-0369	LF	18" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	93.24	39.54
			For 3" WG (Class B), Add	9.89	
			For 4" Or 6" WG (Class A), Add	21.09	
			For 10" WG (Class A), Add	30.32	
			For Work In Restricted Working Space, Add	19.78	
23 31 13	13-0370	LF	18" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	96.26	40.82
			For 3" WG (Class B), Add	10.21	
			For 4" Or 6" WG (Class A), Add	21.78	
			For 10" WG (Class A), Add	31.30	
			For Work In Restricted Working Space, Add	20.42	
23 31 13	13-0371	LF	20" x 20", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	60.16	25.51
			For 3" WG (Class B), Add	6.38	
			For 4" Or 6" WG (Class A), Add	13.61	
			For 10" WG (Class A), Add	19.56	
			For Work In Restricted Working Space, Add	12.76	
23 31 13	13-0372	LF	20" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	63.16	26.79
			For 3" WG (Class B), Add	6.70	
			For 4" Or 6" WG (Class A), Add	14.29	
			For 10" WG (Class A), Add	20.54	
			For Work In Restricted Working Space, Add	13.40	
23 31 13	13-0373	LF	20" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	66.17	28.07
			For 3" WG (Class B), Add	7.02	
			For 4" Or 6" WG (Class A), Add	14.97	
			For 10" WG (Class A), Add	21.52	
			For Work In Restricted Working Space, Add	14.03	
23 31 13	13-0374	LF	20" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	69.18	29.34
			For 3" WG (Class B), Add	7.34	
			For 4" Or 6" WG (Class A), Add	15.65	
			For 10" WG (Class A), Add	22.50	
			For Work In Restricted Working Space, Add	14.67	
23 31 13	13-0375	LF	20" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	72.18	30.62
			For 3" WG (Class B), Add	7.65	
			For 4" Or 6" WG (Class A), Add	16.33	
			For 10" WG (Class A), Add	23.47	
			For Work In Restricted Working Space, Add	15.31	
23 31 13	13-0376	LF	20" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	75.20	31.90
			For 3" WG (Class B), Add	7.97	
			For 4" Or 6" WG (Class A), Add	17.01	
			For 10" WG (Class A), Add	24.45	
			For Work In Restricted Working Space, Add	15.95	
23 31 13	13-0377	LF	20" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	78.21	33.17
			For 3" WG (Class B), Add	8.29	
			For 4" Or 6" WG (Class A), Add	17.69	
			For 10" WG (Class A), Add	25.43	
			For Work In Restricted Working Space, Add	16.59	
23 31 13	13-0378	LF	20" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	81.21	34.45
			For 3" WG (Class B), Add	8.61	
			For 4" Or 6" WG (Class A), Add	18.37	
			For 10" WG (Class A), Add	26.41	
			For Work In Restricted Working Space, Add	17.22	
23 31 13	13-0379	LF	20" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	84.22	35.72
			For 3" WG (Class B), Add	8.93	
			For 4" Or 6" WG (Class A), Add	19.05	
			For 10" WG (Class A), Add	27.39	
			For Work In Restricted Working Space, Add	17.86	
23 31 13	13-0380	LF	20" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	87.22	37.00
			For 3" WG (Class B), Add	9.25	
			For 4" Or 6" WG (Class A), Add	19.73	
			For 10" WG (Class A), Add	28.36	
			For Work In Restricted Working Space, Add	18.50	
23 31 13	13-0381	LF	20" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	90.23	38.28
			For 3" WG (Class B), Add	9.57	
			For 4" Or 6" WG (Class A), Add	20.41	
			For 10" WG (Class A), Add	29.34	
			For Work In Restricted Working Space, Add	19.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0382 LF 20" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	93.24	39.54
For 3" WG (Class B), Add	9.89	
For 4" Or 6" WG (Class A), Add	21.09	
For 10" WG (Class A), Add	30.32	
For Work In Restricted Working Space, Add	19.78	
23 31 13 13-0383 LF 20" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	96.26	40.82
For 3" WG (Class B), Add	10.21	
For 4" Or 6" WG (Class A), Add	21.78	
For 10" WG (Class A), Add	31.30	
For Work In Restricted Working Space, Add	20.42	
23 31 13 13-0384 LF 20" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	99.25	42.10
For 3" WG (Class B), Add	10.52	
For 4" Or 6" WG (Class A), Add	22.45	
For 10" WG (Class A), Add	32.27	
For Work In Restricted Working Space, Add	21.05	
23 31 13 13-0385 LF 20" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	102.27	43.37
For 3" WG (Class B), Add	10.85	
For 4" Or 6" WG (Class A), Add	23.14	
For 10" WG (Class A), Add	33.26	
For Work In Restricted Working Space, Add	21.69	
23 31 13 13-0386 LF 22" x 22", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	66.17	28.07
For 3" WG (Class B), Add	7.02	
For 4" Or 6" WG (Class A), Add	14.97	
For 10" WG (Class A), Add	21.52	
For Work In Restricted Working Space, Add	14.03	
23 31 13 13-0387 LF 22" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	69.18	29.34
For 3" WG (Class B), Add	7.34	
For 4" Or 6" WG (Class A), Add	15.65	
For 10" WG (Class A), Add	22.50	
For Work In Restricted Working Space, Add	14.67	
23 31 13 13-0388 LF 22" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	72.18	30.62
For 3" WG (Class B), Add	7.65	
For 4" Or 6" WG (Class A), Add	16.33	
For 10" WG (Class A), Add	23.47	
For Work In Restricted Working Space, Add	15.31	
23 31 13 13-0389 LF 22" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	75.20	31.90
For 3" WG (Class B), Add	7.97	
For 4" Or 6" WG (Class A), Add	17.01	
For 10" WG (Class A), Add	24.45	
For Work In Restricted Working Space, Add	15.95	
23 31 13 13-0390 LF 22" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	78.21	33.17
For 3" WG (Class B), Add	8.29	
For 4" Or 6" WG (Class A), Add	17.69	
For 10" WG (Class A), Add	25.43	
For Work In Restricted Working Space, Add	16.59	
23 31 13 13-0391 LF 22" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	81.21	34.45
For 3" WG (Class B), Add	8.61	
For 4" Or 6" WG (Class A), Add	18.37	
For 10" WG (Class A), Add	26.41	
For Work In Restricted Working Space, Add	17.22	
23 31 13 13-0392 LF 22" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	84.22	35.72
For 3" WG (Class B), Add	8.93	
For 4" Or 6" WG (Class A), Add	19.05	
For 10" WG (Class A), Add	27.39	
For Work In Restricted Working Space, Add	17.86	
23 31 13 13-0393 LF 22" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	87.22	37.00
For 3" WG (Class B), Add	9.25	
For 4" Or 6" WG (Class A), Add	19.73	
For 10" WG (Class A), Add	28.36	
For Work In Restricted Working Space, Add	18.50	
23 31 13 13-0394 LF 22" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	90.23	38.28
For 3" WG (Class B), Add	9.57	
For 4" Or 6" WG (Class A), Add	20.41	
For 10" WG (Class A), Add	29.34	
For Work In Restricted Working Space, Add	19.14	
23 31 13 13-0395 LF 22" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	93.24	39.54
For 3" WG (Class B), Add	9.89	
For 4" Or 6" WG (Class A), Add	21.09	
For 10" WG (Class A), Add	30.32	
For Work In Restricted Working Space, Add	19.78	
23 31 13 13-0396 LF 22" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	96.26	40.82
For 3" WG (Class B), Add	10.21	
For 4" Or 6" WG (Class A), Add	21.78	
For 10" WG (Class A), Add	31.30	
For Work In Restricted Working Space, Add	20.42	
23 31 13 13-0397 LF 22" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	99.25	42.10
For 3" WG (Class B), Add	10.52	
For 4" Or 6" WG (Class A), Add	22.45	
For 10" WG (Class A), Add	32.27	
For Work In Restricted Working Space, Add	21.05	
23 31 13 13-0398 LF 22" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	102.27	43.37
For 3" WG (Class B), Add	10.85	
For 4" Or 6" WG (Class A), Add	23.14	
For 10" WG (Class A), Add	33.26	
For Work In Restricted Working Space, Add	21.69	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0399	LF	22" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	105.28	44.65
			For 3" WG (Class B), Add	11.16	
			For 4" Or 6" WG (Class A), Add	23.82	
			For 10" WG (Class A), Add	34.24	
			For Work In Restricted Working Space, Add	22.33	
23 31 13	13-0400	LF	24" x 24", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	72.18	30.62
			For 3" WG (Class B), Add	7.65	
			For 4" Or 6" WG (Class A), Add	16.33	
			For 10" WG (Class A), Add	23.47	
			For Work In Restricted Working Space, Add	15.31	
23 31 13	13-0401	LF	24" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	75.20	31.90
			For 3" WG (Class B), Add	7.97	
			For 4" Or 6" WG (Class A), Add	17.01	
			For 10" WG (Class A), Add	24.45	
			For Work In Restricted Working Space, Add	15.95	
23 31 13	13-0402	LF	24" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	78.21	33.17
			For 3" WG (Class B), Add	8.29	
			For 4" Or 6" WG (Class A), Add	17.69	
			For 10" WG (Class A), Add	25.43	
			For Work In Restricted Working Space, Add	16.59	
23 31 13	13-0403	LF	24" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	81.21	34.45
			For 3" WG (Class B), Add	8.61	
			For 4" Or 6" WG (Class A), Add	18.37	
			For 10" WG (Class A), Add	26.41	
			For Work In Restricted Working Space, Add	17.22	
23 31 13	13-0404	LF	24" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	84.22	35.72
			For 3" WG (Class B), Add	8.93	
			For 4" Or 6" WG (Class A), Add	19.05	
			For 10" WG (Class A), Add	27.39	
			For Work In Restricted Working Space, Add	17.86	
23 31 13	13-0405	LF	24" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	87.22	37.00
			For 3" WG (Class B), Add	9.25	
			For 4" Or 6" WG (Class A), Add	19.73	
			For 10" WG (Class A), Add	28.36	
			For Work In Restricted Working Space, Add	18.50	
23 31 13	13-0406	LF	24" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	90.23	38.28
			For 3" WG (Class B), Add	9.57	
			For 4" Or 6" WG (Class A), Add	20.41	
			For 10" WG (Class A), Add	29.34	
			For Work In Restricted Working Space, Add	19.14	
23 31 13	13-0407	LF	24" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	93.24	39.54
			For 3" WG (Class B), Add	9.89	
			For 4" Or 6" WG (Class A), Add	21.09	
			For 10" WG (Class A), Add	30.32	
			For Work In Restricted Working Space, Add	19.78	
23 31 13	13-0408	LF	24" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	96.26	40.82
			For 3" WG (Class B), Add	10.21	
			For 4" Or 6" WG (Class A), Add	21.78	
			For 10" WG (Class A), Add	31.30	
			For Work In Restricted Working Space, Add	20.42	
23 31 13	13-0409	LF	24" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	99.25	42.10
			For 3" WG (Class B), Add	10.52	
			For 4" Or 6" WG (Class A), Add	22.45	
			For 10" WG (Class A), Add	32.27	
			For Work In Restricted Working Space, Add	21.05	
23 31 13	13-0410	LF	24" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	102.27	43.37
			For 3" WG (Class B), Add	10.85	
			For 4" Or 6" WG (Class A), Add	23.14	
			For 10" WG (Class A), Add	33.26	
			For Work In Restricted Working Space, Add	21.69	
23 31 13	13-0411	LF	24" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	105.28	44.65
			For 3" WG (Class B), Add	11.16	
			For 4" Or 6" WG (Class A), Add	23.82	
			For 10" WG (Class A), Add	34.24	
			For Work In Restricted Working Space, Add	22.33	
23 31 13	13-0412	LF	24" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	108.28	45.93
			For 3" WG (Class B), Add	11.48	
			For 4" Or 6" WG (Class A), Add	24.50	
			For 10" WG (Class A), Add	35.21	
			For Work In Restricted Working Space, Add	22.97	
23 31 13	13-0413	LF	26" x 26", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	78.21	33.17
			For 3" WG (Class B), Add	8.29	
			For 4" Or 6" WG (Class A), Add	17.69	
			For 10" WG (Class A), Add	25.43	
			For Work In Restricted Working Space, Add	16.59	
23 31 13	13-0414	LF	26" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	81.21	34.45
			For 3" WG (Class B), Add	8.61	
			For 4" Or 6" WG (Class A), Add	18.37	
			For 10" WG (Class A), Add	26.41	
			For Work In Restricted Working Space, Add	17.22	
23 31 13	13-0415	LF	26" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	84.22	35.72
			For 3" WG (Class B), Add	8.93	
			For 4" Or 6" WG (Class A), Add	19.05	
			For 10" WG (Class A), Add	27.39	
			For Work In Restricted Working Space, Add	17.86	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0416 LF 26" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	87.22	37.00
For 3" WG (Class B), Add	9.25	
For 4" Or 6" WG (Class A), Add	19.73	
For 10" WG (Class A), Add	28.36	
For Work In Restricted Working Space, Add	18.50	
23 31 13 13-0417 LF 26" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	90.23	38.28
For 3" WG (Class B), Add	9.57	
For 4" Or 6" WG (Class A), Add	20.41	
For 10" WG (Class A), Add	29.34	
For Work In Restricted Working Space, Add	19.14	
23 31 13 13-0418 LF 26" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	93.24	39.54
For 3" WG (Class B), Add	9.89	
For 4" Or 6" WG (Class A), Add	21.09	
For 10" WG (Class A), Add	30.32	
For Work In Restricted Working Space, Add	19.78	
23 31 13 13-0419 LF 26" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	96.26	40.82
For 3" WG (Class B), Add	10.21	
For 4" Or 6" WG (Class A), Add	21.78	
For 10" WG (Class A), Add	31.30	
For Work In Restricted Working Space, Add	20.42	
23 31 13 13-0420 LF 26" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	99.25	42.10
For 3" WG (Class B), Add	10.52	
For 4" Or 6" WG (Class A), Add	22.45	
For 10" WG (Class A), Add	32.27	
For Work In Restricted Working Space, Add	21.05	
23 31 13 13-0421 LF 26" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	102.27	43.37
For 3" WG (Class B), Add	10.85	
For 4" Or 6" WG (Class A), Add	23.14	
For 10" WG (Class A), Add	33.26	
For Work In Restricted Working Space, Add	21.69	
23 31 13 13-0422 LF 26" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	105.28	44.65
For 3" WG (Class B), Add	11.16	
For 4" Or 6" WG (Class A), Add	23.82	
For 10" WG (Class A), Add	34.24	
For Work In Restricted Working Space, Add	22.33	
23 31 13 13-0423 LF 26" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	108.28	45.93
For 3" WG (Class B), Add	11.48	
For 4" Or 6" WG (Class A), Add	24.50	
For 10" WG (Class A), Add	35.21	
For Work In Restricted Working Space, Add	22.97	
23 31 13 13-0424 LF 26" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	111.29	47.20
For 3" WG (Class B), Add	11.80	
For 4" Or 6" WG (Class A), Add	25.18	
For 10" WG (Class A), Add	36.19	
For Work In Restricted Working Space, Add	23.60	
23 31 13 13-0425 LF 28" x 28", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	84.22	35.72
For 3" WG (Class B), Add	8.93	
For 4" Or 6" WG (Class A), Add	19.05	
For 10" WG (Class A), Add	27.39	
For Work In Restricted Working Space, Add	17.86	
23 31 13 13-0426 LF 28" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	87.22	37.00
For 3" WG (Class B), Add	9.25	
For 4" Or 6" WG (Class A), Add	19.73	
For 10" WG (Class A), Add	28.36	
For Work In Restricted Working Space, Add	18.50	
23 31 13 13-0427 LF 28" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	90.23	38.28
For 3" WG (Class B), Add	9.57	
For 4" Or 6" WG (Class A), Add	20.41	
For 10" WG (Class A), Add	29.34	
For Work In Restricted Working Space, Add	19.14	
23 31 13 13-0428 LF 28" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	93.24	39.54
For 3" WG (Class B), Add	9.89	
For 4" Or 6" WG (Class A), Add	21.09	
For 10" WG (Class A), Add	30.32	
For Work In Restricted Working Space, Add	19.78	
23 31 13 13-0429 LF 28" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	96.26	40.82
For 3" WG (Class B), Add	10.21	
For 4" Or 6" WG (Class A), Add	21.78	
For 10" WG (Class A), Add	31.30	
For Work In Restricted Working Space, Add	20.42	
23 31 13 13-0430 LF 28" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	99.25	42.10
For 3" WG (Class B), Add	10.52	
For 4" Or 6" WG (Class A), Add	22.45	
For 10" WG (Class A), Add	32.27	
For Work In Restricted Working Space, Add	21.05	
23 31 13 13-0431 LF 28" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	102.27	43.37
For 3" WG (Class B), Add	10.85	
For 4" Or 6" WG (Class A), Add	23.14	
For 10" WG (Class A), Add	33.26	
For Work In Restricted Working Space, Add	21.69	
23 31 13 13-0432 LF 28" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	105.28	44.65
For 3" WG (Class B), Add	11.16	
For 4" Or 6" WG (Class A), Add	23.82	
For 10" WG (Class A), Add	34.24	
For Work In Restricted Working Space, Add	22.33	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0433	LF	28" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	108.28	45.93
			<i>For 3" WG (Class B), Add</i>	11.48	
			<i>For 4" Or 6" WG (Class A), Add</i>	24.50	
			<i>For 10" WG (Class A), Add</i>	35.21	
			<i>For Work In Restricted Working Space, Add</i>	22.97	
23 31 13	13-0434	LF	28" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	111.29	47.20
			<i>For 3" WG (Class B), Add</i>	11.80	
			<i>For 4" Or 6" WG (Class A), Add</i>	25.18	
			<i>For 10" WG (Class A), Add</i>	36.19	
			<i>For Work In Restricted Working Space, Add</i>	23.60	
23 31 13	13-0435	LF	28" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	114.29	48.48
			<i>For 3" WG (Class B), Add</i>	12.12	
			<i>For 4" Or 6" WG (Class A), Add</i>	25.86	
			<i>For 10" WG (Class A), Add</i>	37.17	
			<i>For Work In Restricted Working Space, Add</i>	24.24	
23 31 13	13-0436	LF	30" x 30", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	90.23	38.28
			<i>For 3" WG (Class B), Add</i>	9.57	
			<i>For 4" Or 6" WG (Class A), Add</i>	20.41	
			<i>For 10" WG (Class A), Add</i>	29.34	
			<i>For Work In Restricted Working Space, Add</i>	19.14	
23 31 13	13-0437	LF	30" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	93.24	39.54
			<i>For 3" WG (Class B), Add</i>	9.89	
			<i>For 4" Or 6" WG (Class A), Add</i>	21.09	
			<i>For 10" WG (Class A), Add</i>	30.32	
			<i>For Work In Restricted Working Space, Add</i>	19.78	
23 31 13	13-0438	LF	30" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	96.26	40.82
			<i>For 3" WG (Class B), Add</i>	10.21	
			<i>For 4" Or 6" WG (Class A), Add</i>	21.78	
			<i>For 10" WG (Class A), Add</i>	31.30	
			<i>For Work In Restricted Working Space, Add</i>	20.42	
23 31 13	13-0439	LF	30" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	99.25	42.10
			<i>For 3" WG (Class B), Add</i>	10.52	
			<i>For 4" Or 6" WG (Class A), Add</i>	22.45	
			<i>For 10" WG (Class A), Add</i>	32.27	
			<i>For Work In Restricted Working Space, Add</i>	21.05	
23 31 13	13-0440	LF	30" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	102.27	43.37
			<i>For 3" WG (Class B), Add</i>	10.85	
			<i>For 4" Or 6" WG (Class A), Add</i>	23.14	
			<i>For 10" WG (Class A), Add</i>	33.26	
			<i>For Work In Restricted Working Space, Add</i>	21.69	
23 31 13	13-0441	LF	30" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	105.28	44.65
			<i>For 3" WG (Class B), Add</i>	11.16	
			<i>For 4" Or 6" WG (Class A), Add</i>	23.82	
			<i>For 10" WG (Class A), Add</i>	34.24	
			<i>For Work In Restricted Working Space, Add</i>	22.33	
23 31 13	13-0442	LF	30" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	108.28	45.93
			<i>For 3" WG (Class B), Add</i>	11.48	
			<i>For 4" Or 6" WG (Class A), Add</i>	24.50	
			<i>For 10" WG (Class A), Add</i>	35.21	
			<i>For Work In Restricted Working Space, Add</i>	22.97	
23 31 13	13-0443	LF	30" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	111.29	47.20
			<i>For 3" WG (Class B), Add</i>	11.80	
			<i>For 4" Or 6" WG (Class A), Add</i>	25.18	
			<i>For 10" WG (Class A), Add</i>	36.19	
			<i>For Work In Restricted Working Space, Add</i>	23.60	
23 31 13	13-0444	LF	30" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	114.29	48.48
			<i>For 3" WG (Class B), Add</i>	12.12	
			<i>For 4" Or 6" WG (Class A), Add</i>	25.86	
			<i>For 10" WG (Class A), Add</i>	37.17	
			<i>For Work In Restricted Working Space, Add</i>	24.24	
23 31 13	13-0445	LF	30" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	117.31	49.76
			<i>For 3" WG (Class B), Add</i>	12.44	
			<i>For 4" Or 6" WG (Class A), Add</i>	26.54	
			<i>For 10" WG (Class A), Add</i>	38.15	
			<i>For Work In Restricted Working Space, Add</i>	24.88	
23 31 13	13-0446	LF	32" x 32", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	96.26	40.82
			<i>For 3" WG (Class B), Add</i>	10.21	
			<i>For 4" Or 6" WG (Class A), Add</i>	21.78	
			<i>For 10" WG (Class A), Add</i>	31.30	
			<i>For Work In Restricted Working Space, Add</i>	20.42	
23 31 13	13-0447	LF	32" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	99.25	42.10
			<i>For 3" WG (Class B), Add</i>	10.52	
			<i>For 4" Or 6" WG (Class A), Add</i>	22.45	
			<i>For 10" WG (Class A), Add</i>	32.27	
			<i>For Work In Restricted Working Space, Add</i>	21.05	
23 31 13	13-0448	LF	32" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	102.27	43.37
			<i>For 3" WG (Class B), Add</i>	10.85	
			<i>For 4" Or 6" WG (Class A), Add</i>	23.14	
			<i>For 10" WG (Class A), Add</i>	33.26	
			<i>For Work In Restricted Working Space, Add</i>	21.69	
23 31 13	13-0449	LF	32" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	105.28	44.65
			<i>For 3" WG (Class B), Add</i>	11.16	
			<i>For 4" Or 6" WG (Class A), Add</i>	23.82	
			<i>For 10" WG (Class A), Add</i>	34.24	
			<i>For Work In Restricted Working Space, Add</i>	22.33	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0450 LF 32" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	108.28 11.48 24.50 35.21 22.97	45.93
23 31 13 13-0451 LF 32" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	111.29 11.80 25.18 36.19 23.60	47.20
23 31 13 13-0452 LF 32" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	114.29 12.12 25.86 37.17 24.24	48.48
23 31 13 13-0453 LF 32" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	117.31 12.44 26.54 38.15 24.88	49.76
23 31 13 13-0454 LF 32" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	120.32 12.76 27.22 39.13 25.52	51.03
23 31 13 13-0455 LF 34" x 34", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	102.27 10.85 23.14 33.26 21.69	43.37
23 31 13 13-0456 LF 34" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	105.28 11.16 23.82 34.24 22.33	44.65
23 31 13 13-0457 LF 34" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	108.28 11.48 24.50 35.21 22.97	45.93
23 31 13 13-0458 LF 34" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	111.29 11.80 25.18 36.19 23.60	47.20
23 31 13 13-0459 LF 34" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	114.29 12.12 25.86 37.17 24.24	48.48
23 31 13 13-0460 LF 34" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	117.31 12.44 26.54 38.15 24.88	49.76
23 31 13 13-0461 LF 34" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	120.32 12.76 27.22 39.13 25.52	51.03
23 31 13 13-0462 LF 34" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	123.32 13.08 27.90 40.10 26.15	52.31
23 31 13 13-0463 LF 36" x 36", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	108.28 11.48 24.50 35.21 22.97	45.93
23 31 13 13-0464 LF 36" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	111.29 11.80 25.18 36.19 23.60	47.20
23 31 13 13-0465 LF 36" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	114.29 12.12 25.86 37.17 24.24	48.48
23 31 13 13-0466 LF 36" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	117.31 12.44 26.54 38.15 24.88	49.76

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13	13-0467	LF 36" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	120.32 12.76 27.22 39.13 25.52	51.03
23 31 13	13	13-0468	LF 36" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	123.32 13.08 27.90 40.10 26.15	52.31
23 31 13	13	13-0469	LF 36" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	126.32 13.40 28.58 41.08 26.79	53.59
23 31 13	13	13-0470	LF 38" x 38", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	114.29 12.12 25.86 37.17 24.24	48.48
23 31 13	13	13-0471	LF 38" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	117.31 12.44 26.54 38.15 24.88	49.76
23 31 13	13	13-0472	LF 38" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	120.32 12.76 27.22 39.13 25.52	51.03
23 31 13	13	13-0473	LF 38" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	123.32 13.08 27.90 40.10 26.15	52.31
23 31 13	13	13-0474	LF 38" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	126.32 13.40 28.58 41.08 26.79	53.59
23 31 13	13	13-0475	LF 38" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	129.34 13.72 29.26 42.06 27.43	54.85
23 31 13	13	13-0476	LF 38" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	132.34 14.03 29.94 43.04 28.07	56.13
23 31 13	13	13-0477	LF 40" x 40", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	120.32 12.76 27.22 39.13 25.52	51.03
23 31 13	13	13-0478	LF 40" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	123.32 13.08 27.90 40.10 26.15	52.31
23 31 13	13	13-0479	LF 40" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	126.32 13.40 28.58 41.08 26.79	53.59
23 31 13	13	13-0480	LF 40" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	129.34 13.72 29.26 42.06 27.43	54.85
23 31 13	13	13-0481	LF 40" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	132.34 14.03 29.94 43.04 28.07	56.13
23 31 13	13	13-0482	LF 40" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	135.35 14.35 30.62 44.02 28.71	57.41
23 31 13	13	13-0483	LF 40" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	138.36 14.67 31.30 44.99 29.34	58.68



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0484 LF 40" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	141.37	59.96
<i>For 3" WG (Class B), Add</i>	14.99	
<i>For 4" Or 6" WG (Class A), Add</i>	31.98	
<i>For 10" WG (Class A), Add</i>	45.97	
<i>For Work In Restricted Working Space, Add</i>	29.98	
23 31 13 13-0485 LF 42" x 42", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	126.32	53.59
<i>For 3" WG (Class B), Add</i>	13.40	
<i>For 4" Or 6" WG (Class A), Add</i>	28.58	
<i>For 10" WG (Class A), Add</i>	41.08	
<i>For Work In Restricted Working Space, Add</i>	26.79	
23 31 13 13-0486 LF 42" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	129.34	54.85
<i>For 3" WG (Class B), Add</i>	13.72	
<i>For 4" Or 6" WG (Class A), Add</i>	29.26	
<i>For 10" WG (Class A), Add</i>	42.06	
<i>For Work In Restricted Working Space, Add</i>	27.43	
23 31 13 13-0487 LF 42" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	132.34	56.13
<i>For 3" WG (Class B), Add</i>	14.03	
<i>For 4" Or 6" WG (Class A), Add</i>	29.94	
<i>For 10" WG (Class A), Add</i>	43.04	
<i>For Work In Restricted Working Space, Add</i>	28.07	
23 31 13 13-0488 LF 42" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	135.35	57.41
<i>For 3" WG (Class B), Add</i>	14.35	
<i>For 4" Or 6" WG (Class A), Add</i>	30.62	
<i>For 10" WG (Class A), Add</i>	44.02	
<i>For Work In Restricted Working Space, Add</i>	28.71	
23 31 13 13-0489 LF 42" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	138.36	58.68
<i>For 3" WG (Class B), Add</i>	14.67	
<i>For 4" Or 6" WG (Class A), Add</i>	31.30	
<i>For 10" WG (Class A), Add</i>	44.99	
<i>For Work In Restricted Working Space, Add</i>	29.34	
23 31 13 13-0490 LF 42" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	141.37	59.96
<i>For 3" WG (Class B), Add</i>	14.99	
<i>For 4" Or 6" WG (Class A), Add</i>	31.98	
<i>For 10" WG (Class A), Add</i>	45.97	
<i>For Work In Restricted Working Space, Add</i>	29.98	
23 31 13 13-0491 LF 42" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	144.37	61.24
<i>For 3" WG (Class B), Add</i>	15.31	
<i>For 4" Or 6" WG (Class A), Add</i>	32.66	
<i>For 10" WG (Class A), Add</i>	46.95	
<i>For Work In Restricted Working Space, Add</i>	30.62	
23 31 13 13-0492 LF 44" x 44", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	132.34	56.13
<i>For 3" WG (Class B), Add</i>	14.03	
<i>For 4" Or 6" WG (Class A), Add</i>	29.94	
<i>For 10" WG (Class A), Add</i>	43.04	
<i>For Work In Restricted Working Space, Add</i>	28.07	
23 31 13 13-0493 LF 44" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	135.35	57.41
<i>For 3" WG (Class B), Add</i>	14.35	
<i>For 4" Or 6" WG (Class A), Add</i>	30.62	
<i>For 10" WG (Class A), Add</i>	44.02	
<i>For Work In Restricted Working Space, Add</i>	28.71	
23 31 13 13-0494 LF 44" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	138.36	58.68
<i>For 3" WG (Class B), Add</i>	14.67	
<i>For 4" Or 6" WG (Class A), Add</i>	31.30	
<i>For 10" WG (Class A), Add</i>	44.99	
<i>For Work In Restricted Working Space, Add</i>	29.34	
23 31 13 13-0495 LF 44" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	141.37	59.96
<i>For 3" WG (Class B), Add</i>	14.99	
<i>For 4" Or 6" WG (Class A), Add</i>	31.98	
<i>For 10" WG (Class A), Add</i>	45.97	
<i>For Work In Restricted Working Space, Add</i>	29.98	
23 31 13 13-0496 LF 44" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	144.37	61.24
<i>For 3" WG (Class B), Add</i>	15.31	
<i>For 4" Or 6" WG (Class A), Add</i>	32.66	
<i>For 10" WG (Class A), Add</i>	46.95	
<i>For Work In Restricted Working Space, Add</i>	30.62	
23 31 13 13-0497 LF 44" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	147.39	62.51
<i>For 3" WG (Class B), Add</i>	15.63	
<i>For 4" Or 6" WG (Class A), Add</i>	33.34	
<i>For 10" WG (Class A), Add</i>	47.93	
<i>For Work In Restricted Working Space, Add</i>	31.26	
23 31 13 13-0498 LF 46" x 46", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	138.36	58.68
<i>For 3" WG (Class B), Add</i>	14.67	
<i>For 4" Or 6" WG (Class A), Add</i>	31.30	
<i>For 10" WG (Class A), Add</i>	44.99	
<i>For Work In Restricted Working Space, Add</i>	29.34	
23 31 13 13-0499 LF 46" x 48", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	141.37	59.96
<i>For 3" WG (Class B), Add</i>	14.99	
<i>For 4" Or 6" WG (Class A), Add</i>	31.98	
<i>For 10" WG (Class A), Add</i>	45.97	
<i>For Work In Restricted Working Space, Add</i>	29.98	
23 31 13 13-0500 LF 46" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork	144.37	61.24
<i>For 3" WG (Class B), Add</i>	15.31	
<i>For 4" Or 6" WG (Class A), Add</i>	32.66	
<i>For 10" WG (Class A), Add</i>	46.95	
<i>For Work In Restricted Working Space, Add</i>	30.62	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13	13-0501	LF 46" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	147.39 15.63 33.34 47.93 31.26	62.51
23 31 13	13	13-0502	LF 48" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	150.38 15.95 34.02 48.90 31.89	63.79
23 31 13	13	13-0503	LF 48" x 58", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	144.37 15.31 32.66 46.95 30.62	61.24
23 31 13	13	13-0504	LF 48" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	147.39 15.63 33.34 47.93 31.26	62.51
23 31 13	13	13-0505	LF 48" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	150.38 15.95 34.02 48.90 31.89	63.79
23 31 13	13	13-0506	LF 48" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	153.39 16.27 34.70 49.88 32.53	65.07
23 31 13	13	13-0507	LF 50" x 50", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	150.38 15.95 34.02 48.90 31.89	63.79
23 31 13	13	13-0508	LF 50" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	153.39 16.27 34.70 49.88 32.53	65.07
23 31 13	13	13-0509	LF 50" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	156.41 16.59 35.39 50.87 33.17	66.34
23 31 13	13	13-0510	LF 52" x 52", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	156.41 16.59 35.39 50.87 33.17	66.34
23 31 13	13	13-0511	LF 52" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	159.42 16.91 36.06 51.84 33.81	67.62
23 31 13	13	13-0512	LF 54" x 54", Up To 2" WG (Class C), 22 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	162.42 17.22 36.74 52.82 34.45	68.90
23 31 13	13	13-0513	20 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)		
23 31 13	13	13-0514	LF 4" x 4", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	14.16 1.50 3.21 4.61 3.01	6.01
23 31 13	13	13-0515	LF 4" x 6", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	17.71 1.88 4.01 5.76 3.76	7.51
23 31 13	13	13-0516	LF 4" x 8", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	21.26 2.25 4.81 6.91 4.51	9.01
23 31 13	13	13-0517	LF 4" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	24.80 2.63 5.61 8.07 5.26	10.52



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0518 LF 4" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	28.34	12.02
<i>For 3" WG (Class B), Add</i>	3.00	
<i>For 4" Or 6" WG (Class A), Add</i>	6.41	
<i>For 10" WG (Class A), Add</i>	9.21	
<i>For Work In Restricted Working Space, Add</i>	6.01	
23 31 13 13-0519 LF 4" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.89	13.53
<i>For 3" WG (Class B), Add</i>	3.38	
<i>For 4" Or 6" WG (Class A), Add</i>	7.21	
<i>For 10" WG (Class A), Add</i>	10.37	
<i>For Work In Restricted Working Space, Add</i>	6.76	
23 31 13 13-0520 LF 4" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.42	15.03
<i>For 3" WG (Class B), Add</i>	3.76	
<i>For 4" Or 6" WG (Class A), Add</i>	8.01	
<i>For 10" WG (Class A), Add</i>	11.52	
<i>For Work In Restricted Working Space, Add</i>	7.51	
23 31 13 13-0521 LF 6" x 6", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	21.26	9.01
<i>For 3" WG (Class B), Add</i>	2.25	
<i>For 4" Or 6" WG (Class A), Add</i>	4.81	
<i>For 10" WG (Class A), Add</i>	6.91	
<i>For Work In Restricted Working Space, Add</i>	4.51	
23 31 13 13-0522 LF 6" x 8", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	24.80	10.52
<i>For 3" WG (Class B), Add</i>	2.63	
<i>For 4" Or 6" WG (Class A), Add</i>	5.61	
<i>For 10" WG (Class A), Add</i>	8.07	
<i>For Work In Restricted Working Space, Add</i>	5.26	
23 31 13 13-0523 LF 6" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	28.34	12.02
<i>For 3" WG (Class B), Add</i>	3.00	
<i>For 4" Or 6" WG (Class A), Add</i>	6.41	
<i>For 10" WG (Class A), Add</i>	9.21	
<i>For Work In Restricted Working Space, Add</i>	6.01	
23 31 13 13-0524 LF 6" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.89	13.53
<i>For 3" WG (Class B), Add</i>	3.38	
<i>For 4" Or 6" WG (Class A), Add</i>	7.21	
<i>For 10" WG (Class A), Add</i>	10.37	
<i>For Work In Restricted Working Space, Add</i>	6.76	
23 31 13 13-0525 LF 6" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.42	15.03
<i>For 3" WG (Class B), Add</i>	3.76	
<i>For 4" Or 6" WG (Class A), Add</i>	8.01	
<i>For 10" WG (Class A), Add</i>	11.52	
<i>For Work In Restricted Working Space, Add</i>	7.51	
23 31 13 13-0526 LF 6" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	38.97	16.53
<i>For 3" WG (Class B), Add</i>	4.13	
<i>For 4" Or 6" WG (Class A), Add</i>	8.82	
<i>For 10" WG (Class A), Add</i>	12.67	
<i>For Work In Restricted Working Space, Add</i>	8.27	
23 31 13 13-0527 LF 8" x 8", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	28.34	12.02
<i>For 3" WG (Class B), Add</i>	3.00	
<i>For 4" Or 6" WG (Class A), Add</i>	6.41	
<i>For 10" WG (Class A), Add</i>	9.21	
<i>For Work In Restricted Working Space, Add</i>	6.01	
23 31 13 13-0528 LF 8" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	31.89	13.53
<i>For 3" WG (Class B), Add</i>	3.38	
<i>For 4" Or 6" WG (Class A), Add</i>	7.21	
<i>For 10" WG (Class A), Add</i>	10.37	
<i>For Work In Restricted Working Space, Add</i>	6.76	
23 31 13 13-0529 LF 8" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	35.42	15.03
<i>For 3" WG (Class B), Add</i>	3.76	
<i>For 4" Or 6" WG (Class A), Add</i>	8.01	
<i>For 10" WG (Class A), Add</i>	11.52	
<i>For Work In Restricted Working Space, Add</i>	7.51	
23 31 13 13-0530 LF 8" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	38.97	16.53
<i>For 3" WG (Class B), Add</i>	4.13	
<i>For 4" Or 6" WG (Class A), Add</i>	8.82	
<i>For 10" WG (Class A), Add</i>	12.67	
<i>For Work In Restricted Working Space, Add</i>	8.27	
23 31 13 13-0531 LF 8" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	42.51	18.03
<i>For 3" WG (Class B), Add</i>	4.51	
<i>For 4" Or 6" WG (Class A), Add</i>	9.62	
<i>For 10" WG (Class A), Add</i>	13.83	
<i>For Work In Restricted Working Space, Add</i>	9.02	
23 31 13 13-0532 LF 8" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	46.05	19.53
<i>For 3" WG (Class B), Add</i>	4.88	
<i>For 4" Or 6" WG (Class A), Add</i>	10.42	
<i>For 10" WG (Class A), Add</i>	14.97	
<i>For Work In Restricted Working Space, Add</i>	9.77	
23 31 13 13-0533 LF 8" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	49.60	21.04
<i>For 3" WG (Class B), Add</i>	5.26	
<i>For 4" Or 6" WG (Class A), Add</i>	11.22	
<i>For 10" WG (Class A), Add</i>	16.13	
<i>For Work In Restricted Working Space, Add</i>	10.52	
23 31 13 13-0534 LF 8" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork.....	53.14	22.54
<i>For 3" WG (Class B), Add</i>	5.64	
<i>For 4" Or 6" WG (Class A), Add</i>	12.02	
<i>For 10" WG (Class A), Add</i>	17.28	
<i>For Work In Restricted Working Space, Add</i>	11.27	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0535	LF	8" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	56.68	24.04
			For 3" WG (Class B), Add	6.01	
			For 4" Or 6" WG (Class A), Add	12.82	
			For 10" WG (Class A), Add	18.43	
			For Work In Restricted Working Space, Add	12.02	
23 31 13	13-0536	LF	10" x 10", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	35.42	15.03
			For 3" WG (Class B), Add	3.76	
			For 4" Or 6" WG (Class A), Add	8.01	
			For 10" WG (Class A), Add	11.52	
			For Work In Restricted Working Space, Add	7.51	
23 31 13	13-0537	LF	10" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	38.97	16.53
			For 3" WG (Class B), Add	4.13	
			For 4" Or 6" WG (Class A), Add	8.82	
			For 10" WG (Class A), Add	12.67	
			For Work In Restricted Working Space, Add	8.27	
23 31 13	13-0538	LF	10" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	42.51	18.03
			For 3" WG (Class B), Add	4.51	
			For 4" Or 6" WG (Class A), Add	9.62	
			For 10" WG (Class A), Add	13.83	
			For Work In Restricted Working Space, Add	9.02	
23 31 13	13-0539	LF	10" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	46.05	19.53
			For 3" WG (Class B), Add	4.88	
			For 4" Or 6" WG (Class A), Add	10.42	
			For 10" WG (Class A), Add	14.97	
			For Work In Restricted Working Space, Add	9.77	
23 31 13	13-0540	LF	10" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	49.60	21.04
			For 3" WG (Class B), Add	5.26	
			For 4" Or 6" WG (Class A), Add	11.22	
			For 10" WG (Class A), Add	16.13	
			For Work In Restricted Working Space, Add	10.52	
23 31 13	13-0541	LF	10" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	53.14	22.54
			For 3" WG (Class B), Add	5.64	
			For 4" Or 6" WG (Class A), Add	12.02	
			For 10" WG (Class A), Add	17.28	
			For Work In Restricted Working Space, Add	11.27	
23 31 13	13-0542	LF	10" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	56.68	24.04
			For 3" WG (Class B), Add	6.01	
			For 4" Or 6" WG (Class A), Add	12.82	
			For 10" WG (Class A), Add	18.43	
			For Work In Restricted Working Space, Add	12.02	
23 31 13	13-0543	LF	10" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	60.24	25.54
			For 3" WG (Class B), Add	6.39	
			For 4" Or 6" WG (Class A), Add	13.63	
			For 10" WG (Class A), Add	19.59	
			For Work In Restricted Working Space, Add	12.77	
23 31 13	13-0544	LF	10" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	63.76	27.04
			For 3" WG (Class B), Add	6.76	
			For 4" Or 6" WG (Class A), Add	14.43	
			For 10" WG (Class A), Add	20.74	
			For Work In Restricted Working Space, Add	13.52	
23 31 13	13-0545	LF	10" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	67.31	28.56
			For 3" WG (Class B), Add	7.14	
			For 4" Or 6" WG (Class A), Add	15.23	
			For 10" WG (Class A), Add	21.89	
			For Work In Restricted Working Space, Add	14.27	
23 31 13	13-0546	LF	10" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	70.85	30.06
			For 3" WG (Class B), Add	7.51	
			For 4" Or 6" WG (Class A), Add	16.03	
			For 10" WG (Class A), Add	23.04	
			For Work In Restricted Working Space, Add	15.03	
23 31 13	13-0547	LF	10" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	74.40	31.56
			For 3" WG (Class B), Add	7.89	
			For 4" Or 6" WG (Class A), Add	16.83	
			For 10" WG (Class A), Add	24.20	
			For Work In Restricted Working Space, Add	15.78	
23 31 13	13-0548	LF	12" x 12", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	42.51	18.03
			For 3" WG (Class B), Add	4.51	
			For 4" Or 6" WG (Class A), Add	9.62	
			For 10" WG (Class A), Add	13.83	
			For Work In Restricted Working Space, Add	9.02	
23 31 13	13-0549	LF	12" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	46.05	19.53
			For 3" WG (Class B), Add	4.88	
			For 4" Or 6" WG (Class A), Add	10.42	
			For 10" WG (Class A), Add	14.97	
			For Work In Restricted Working Space, Add	9.77	
23 31 13	13-0550	LF	12" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	49.60	21.04
			For 3" WG (Class B), Add	5.26	
			For 4" Or 6" WG (Class A), Add	11.22	
			For 10" WG (Class A), Add	16.13	
			For Work In Restricted Working Space, Add	10.52	
23 31 13	13-0551	LF	12" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	53.14	22.54
			For 3" WG (Class B), Add	5.64	
			For 4" Or 6" WG (Class A), Add	12.02	
			For 10" WG (Class A), Add	17.28	
			For Work In Restricted Working Space, Add	11.27	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0552 LF 12" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	56.68	24.04
<i>For 3" WG (Class B), Add</i>	6.01	
<i>For 4" Or 6" WG (Class A), Add</i>	12.82	
<i>For 10" WG (Class A), Add</i>	18.43	
<i>For Work In Restricted Working Space, Add</i>	12.02	
23 31 13 13-0553 LF 12" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	60.24	25.54
<i>For 3" WG (Class B), Add</i>	6.39	
<i>For 4" Or 6" WG (Class A), Add</i>	13.63	
<i>For 10" WG (Class A), Add</i>	19.59	
<i>For Work In Restricted Working Space, Add</i>	12.77	
23 31 13 13-0554 LF 12" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	63.76	27.04
<i>For 3" WG (Class B), Add</i>	6.76	
<i>For 4" Or 6" WG (Class A), Add</i>	14.43	
<i>For 10" WG (Class A), Add</i>	20.74	
<i>For Work In Restricted Working Space, Add</i>	13.52	
23 31 13 13-0555 LF 12" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	67.31	28.56
<i>For 3" WG (Class B), Add</i>	7.14	
<i>For 4" Or 6" WG (Class A), Add</i>	15.23	
<i>For 10" WG (Class A), Add</i>	21.89	
<i>For Work In Restricted Working Space, Add</i>	14.27	
23 31 13 13-0556 LF 12" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	70.85	30.06
<i>For 3" WG (Class B), Add</i>	7.51	
<i>For 4" Or 6" WG (Class A), Add</i>	16.03	
<i>For 10" WG (Class A), Add</i>	23.04	
<i>For Work In Restricted Working Space, Add</i>	15.03	
23 31 13 13-0557 LF 12" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	74.40	31.56
<i>For 3" WG (Class B), Add</i>	7.89	
<i>For 4" Or 6" WG (Class A), Add</i>	16.83	
<i>For 10" WG (Class A), Add</i>	24.20	
<i>For Work In Restricted Working Space, Add</i>	15.78	
23 31 13 13-0558 LF 12" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	77.95	33.06
<i>For 3" WG (Class B), Add</i>	8.27	
<i>For 4" Or 6" WG (Class A), Add</i>	17.63	
<i>For 10" WG (Class A), Add</i>	25.35	
<i>For Work In Restricted Working Space, Add</i>	16.63	
23 31 13 13-0559 LF 12" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	81.47	34.56
<i>For 3" WG (Class B), Add</i>	8.64	
<i>For 4" Or 6" WG (Class A), Add</i>	18.43	
<i>For 10" WG (Class A), Add</i>	26.50	
<i>For Work In Restricted Working Space, Add</i>	17.28	
23 31 13 13-0560 LF 12" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	85.02	36.06
<i>For 3" WG (Class B), Add</i>	9.02	
<i>For 4" Or 6" WG (Class A), Add</i>	19.23	
<i>For 10" WG (Class A), Add</i>	27.65	
<i>For Work In Restricted Working Space, Add</i>	18.03	
23 31 13 13-0561 LF 14" x 14", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	49.60	21.04
<i>For 3" WG (Class B), Add</i>	5.26	
<i>For 4" Or 6" WG (Class A), Add</i>	11.22	
<i>For 10" WG (Class A), Add</i>	16.13	
<i>For Work In Restricted Working Space, Add</i>	10.52	
23 31 13 13-0562 LF 14" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	53.14	22.54
<i>For 3" WG (Class B), Add</i>	5.64	
<i>For 4" Or 6" WG (Class A), Add</i>	12.02	
<i>For 10" WG (Class A), Add</i>	17.28	
<i>For Work In Restricted Working Space, Add</i>	11.27	
23 31 13 13-0563 LF 14" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	56.68	24.04
<i>For 3" WG (Class B), Add</i>	6.01	
<i>For 4" Or 6" WG (Class A), Add</i>	12.82	
<i>For 10" WG (Class A), Add</i>	18.43	
<i>For Work In Restricted Working Space, Add</i>	12.02	
23 31 13 13-0564 LF 14" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	60.24	25.54
<i>For 3" WG (Class B), Add</i>	6.39	
<i>For 4" Or 6" WG (Class A), Add</i>	13.63	
<i>For 10" WG (Class A), Add</i>	19.59	
<i>For Work In Restricted Working Space, Add</i>	12.77	
23 31 13 13-0565 LF 14" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	63.76	27.04
<i>For 3" WG (Class B), Add</i>	6.76	
<i>For 4" Or 6" WG (Class A), Add</i>	14.43	
<i>For 10" WG (Class A), Add</i>	20.74	
<i>For Work In Restricted Working Space, Add</i>	13.52	
23 31 13 13-0566 LF 14" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	67.31	28.56
<i>For 3" WG (Class B), Add</i>	7.14	
<i>For 4" Or 6" WG (Class A), Add</i>	15.23	
<i>For 10" WG (Class A), Add</i>	21.89	
<i>For Work In Restricted Working Space, Add</i>	14.27	
23 31 13 13-0567 LF 14" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	70.85	30.06
<i>For 3" WG (Class B), Add</i>	7.51	
<i>For 4" Or 6" WG (Class A), Add</i>	16.03	
<i>For 10" WG (Class A), Add</i>	23.04	
<i>For Work In Restricted Working Space, Add</i>	15.03	
23 31 13 13-0568 LF 14" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	74.40	31.56
<i>For 3" WG (Class B), Add</i>	7.89	
<i>For 4" Or 6" WG (Class A), Add</i>	16.83	
<i>For 10" WG (Class A), Add</i>	24.20	
<i>For Work In Restricted Working Space, Add</i>	15.78	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 31 13 13-0569	LF 14" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	77.95 8.27 17.63 25.35 16.53	33.06
23 31 13 13-0570	LF 14" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	81.47 8.64 18.43 26.50 17.28	34.56
23 31 13 13-0571	LF 14" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	85.02 9.02 19.23 27.65 18.03	36.06
23 31 13 13-0572	LF 14" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	88.55 9.39 20.04 28.80 18.78	37.57
23 31 13 13-0573	LF 16" x 16", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	56.68 6.01 12.82 18.43 12.02	24.04
23 31 13 13-0574	LF 16" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	60.24 6.39 13.63 19.59 12.77	25.54
23 31 13 13-0575	LF 16" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	63.76 6.76 14.43 20.74 13.52	27.04
23 31 13 13-0576	LF 16" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	67.31 7.14 15.23 21.89 14.27	28.56
23 31 13 13-0577	LF 16" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	70.85 7.51 16.03 23.04 15.03	30.06
23 31 13 13-0578	LF 16" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	74.40 7.89 16.83 24.20 15.78	31.56
23 31 13 13-0579	LF 16" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	77.95 8.27 17.63 25.35 16.53	33.06
23 31 13 13-0580	LF 16" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	81.47 8.64 18.43 26.50 17.28	34.56
23 31 13 13-0581	LF 16" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	85.02 9.02 19.23 27.65 18.03	36.06
23 31 13 13-0582	LF 16" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	88.55 9.39 20.04 28.80 18.78	37.57
23 31 13 13-0583	LF 16" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	92.11 9.77 20.84 29.96 19.54	39.07
23 31 13 13-0584	LF 16" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	95.66 10.14 21.64 31.11 20.29	40.57
23 31 13 13-0585	LF 16" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	99.18 10.52 22.44 32.26 21.04	42.07



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0586 LF 16" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	102.74	43.57
For 3" WG (Class B), Add	10.89	
For 4" Or 6" WG (Class A), Add	23.24	
For 10" WG (Class A), Add	33.41	
For Work In Restricted Working Space, Add	21.79	
23 31 13 13-0587 LF 18" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	106.28	45.08
For 3" WG (Class B), Add	11.27	
For 4" Or 6" WG (Class A), Add	24.04	
For 10" WG (Class A), Add	34.56	
For Work In Restricted Working Space, Add	22.54	
23 31 13 13-0588 LF 18" x 18", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	63.76	27.04
For 3" WG (Class B), Add	6.76	
For 4" Or 6" WG (Class A), Add	14.43	
For 10" WG (Class A), Add	20.74	
For Work In Restricted Working Space, Add	13.52	
23 31 13 13-0589 LF 18" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	67.31	28.56
For 3" WG (Class B), Add	7.14	
For 4" Or 6" WG (Class A), Add	15.23	
For 10" WG (Class A), Add	21.89	
For Work In Restricted Working Space, Add	14.27	
23 31 13 13-0590 LF 18" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	70.85	30.06
For 3" WG (Class B), Add	7.51	
For 4" Or 6" WG (Class A), Add	16.03	
For 10" WG (Class A), Add	23.04	
For Work In Restricted Working Space, Add	15.03	
23 31 13 13-0591 LF 18" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	74.40	31.56
For 3" WG (Class B), Add	7.89	
For 4" Or 6" WG (Class A), Add	16.83	
For 10" WG (Class A), Add	24.20	
For Work In Restricted Working Space, Add	15.78	
23 31 13 13-0592 LF 18" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	77.95	33.06
For 3" WG (Class B), Add	8.27	
For 4" Or 6" WG (Class A), Add	17.63	
For 10" WG (Class A), Add	25.35	
For Work In Restricted Working Space, Add	16.63	
23 31 13 13-0593 LF 18" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	81.47	34.56
For 3" WG (Class B), Add	8.64	
For 4" Or 6" WG (Class A), Add	18.43	
For 10" WG (Class A), Add	26.50	
For Work In Restricted Working Space, Add	17.28	
23 31 13 13-0594 LF 18" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	85.02	36.06
For 3" WG (Class B), Add	9.02	
For 4" Or 6" WG (Class A), Add	19.23	
For 10" WG (Class A), Add	27.65	
For Work In Restricted Working Space, Add	18.03	
23 31 13 13-0595 LF 18" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	88.55	37.57
For 3" WG (Class B), Add	9.39	
For 4" Or 6" WG (Class A), Add	20.04	
For 10" WG (Class A), Add	28.80	
For Work In Restricted Working Space, Add	18.78	
23 31 13 13-0596 LF 18" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	92.11	39.07
For 3" WG (Class B), Add	9.77	
For 4" Or 6" WG (Class A), Add	20.84	
For 10" WG (Class A), Add	29.96	
For Work In Restricted Working Space, Add	19.54	
23 31 13 13-0597 LF 18" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	95.66	40.57
For 3" WG (Class B), Add	10.14	
For 4" Or 6" WG (Class A), Add	21.64	
For 10" WG (Class A), Add	31.11	
For Work In Restricted Working Space, Add	20.29	
23 31 13 13-0598 LF 18" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	99.18	42.07
For 3" WG (Class B), Add	10.52	
For 4" Or 6" WG (Class A), Add	22.44	
For 10" WG (Class A), Add	32.26	
For Work In Restricted Working Space, Add	21.04	
23 31 13 13-0599 LF 18" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	102.74	43.57
For 3" WG (Class B), Add	10.89	
For 4" Or 6" WG (Class A), Add	23.24	
For 10" WG (Class A), Add	33.41	
For Work In Restricted Working Space, Add	21.79	
23 31 13 13-0600 LF 18" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	106.28	45.08
For 3" WG (Class B), Add	11.27	
For 4" Or 6" WG (Class A), Add	24.04	
For 10" WG (Class A), Add	34.56	
For Work In Restricted Working Space, Add	22.54	
23 31 13 13-0601 LF 18" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	109.82	46.59
For 3" WG (Class B), Add	11.65	
For 4" Or 6" WG (Class A), Add	24.84	
For 10" WG (Class A), Add	35.71	
For Work In Restricted Working Space, Add	23.29	
23 31 13 13-0602 LF 18" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	113.37	48.09
For 3" WG (Class B), Add	12.02	
For 4" Or 6" WG (Class A), Add	25.65	
For 10" WG (Class A), Add	36.87	
For Work In Restricted Working Space, Add	24.05	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13	13-0603	LF 20" x 20", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	70.85 7.51 16.03 23.04 15.03	30.06
23 31 13	13	13-0604	LF 20" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	74.40 7.89 16.83 24.20 15.78	31.56
23 31 13	13	13-0605	LF 20" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	77.95 8.27 17.63 25.35 16.53	33.06
23 31 13	13	13-0606	LF 20" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	81.47 8.64 18.43 26.50 17.28	34.56
23 31 13	13	13-0607	LF 20" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	85.02 9.02 19.23 27.65 18.03	36.06
23 31 13	13	13-0608	LF 20" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	88.55 9.39 20.04 28.80 18.78	37.57
23 31 13	13	13-0609	LF 20" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	92.11 9.77 20.84 29.96 19.54	39.07
23 31 13	13	13-0610	LF 20" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	95.66 10.14 21.64 31.11 20.29	40.57
23 31 13	13	13-0611	LF 20" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	99.18 10.52 22.44 32.26 21.04	42.07
23 31 13	13	13-0612	LF 20" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	102.74 10.89 23.24 33.41 21.79	43.57
23 31 13	13	13-0613	LF 20" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	106.28 11.27 24.04 34.56 22.54	45.08
23 31 13	13	13-0614	LF 20" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	109.82 11.65 24.84 35.71 23.29	46.59
23 31 13	13	13-0615	LF 20" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	113.37 12.02 25.65 36.87 24.05	48.09
23 31 13	13	13-0616	LF 20" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	116.89 12.40 26.44 38.01 24.79	49.59
23 31 13	13	13-0617	LF 20" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	120.45 12.77 27.25 39.17 25.55	51.09
23 31 13	13	13-0618	LF 22" x 22", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	77.95 8.27 17.63 25.35 16.53	33.06
23 31 13	13	13-0619	LF 22" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	81.47 8.64 18.43 26.50 17.28	34.56



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0620 LF 22" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	85.02 9.02 19.23 27.65 18.03	36.06
23 31 13 13-0621 LF 22" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	88.55 9.39 20.04 28.80 18.78	37.57
23 31 13 13-0622 LF 22" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	92.11 9.77 20.84 29.96 19.54	39.07
23 31 13 13-0623 LF 22" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	95.66 10.14 21.64 31.11 20.29	40.57
23 31 13 13-0624 LF 22" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	99.18 10.52 22.44 32.26 21.04	42.07
23 31 13 13-0625 LF 22" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	102.74 10.89 23.24 33.41 21.79	43.57
23 31 13 13-0626 LF 22" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	106.28 11.27 24.04 34.56 22.54	45.08
23 31 13 13-0627 LF 22" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	109.82 11.65 24.84 35.71 23.29	46.59
23 31 13 13-0628 LF 22" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	113.37 12.02 25.65 36.87 24.05	48.09
23 31 13 13-0629 LF 22" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	116.89 12.40 26.44 38.01 24.79	49.59
23 31 13 13-0630 LF 22" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	120.45 12.77 27.25 39.17 25.55	51.09
23 31 13 13-0631 LF 22" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	124.00 13.15 28.05 40.32 26.30	52.60
23 31 13 13-0632 LF 24" x 24", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	85.02 9.02 19.23 27.65 18.03	36.06
23 31 13 13-0633 LF 24" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	88.55 9.39 20.04 28.80 18.78	37.57
23 31 13 13-0634 LF 24" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	92.11 9.77 20.84 29.96 19.54	39.07
23 31 13 13-0635 LF 24" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	95.66 10.14 21.64 31.11 20.29	40.57
23 31 13 13-0636 LF 24" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	99.18 10.52 22.44 32.26 21.04	42.07

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0637	LF	24" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	102.74	43.57
			For 3" WG (Class B), Add	10.89	
			For 4" Or 6" WG (Class A), Add	23.24	
			For 10" WG (Class A), Add	33.41	
			For Work In Restricted Working Space, Add	21.79	
23 31 13	13-0638	LF	24" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	106.28	45.08
			For 3" WG (Class B), Add	11.27	
			For 4" Or 6" WG (Class A), Add	24.04	
			For 10" WG (Class A), Add	34.56	
			For Work In Restricted Working Space, Add	22.54	
23 31 13	13-0639	LF	24" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	109.82	46.59
			For 3" WG (Class B), Add	11.65	
			For 4" Or 6" WG (Class A), Add	24.84	
			For 10" WG (Class A), Add	35.71	
			For Work In Restricted Working Space, Add	23.29	
23 31 13	13-0640	LF	24" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	113.37	48.09
			For 3" WG (Class B), Add	12.02	
			For 4" Or 6" WG (Class A), Add	25.65	
			For 10" WG (Class A), Add	36.87	
			For Work In Restricted Working Space, Add	24.05	
23 31 13	13-0641	LF	24" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	116.89	49.59
			For 3" WG (Class B), Add	12.40	
			For 4" Or 6" WG (Class A), Add	26.44	
			For 10" WG (Class A), Add	38.01	
			For Work In Restricted Working Space, Add	24.79	
23 31 13	13-0642	LF	24" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	120.45	51.09
			For 3" WG (Class B), Add	12.77	
			For 4" Or 6" WG (Class A), Add	27.25	
			For 10" WG (Class A), Add	39.17	
			For Work In Restricted Working Space, Add	25.55	
23 31 13	13-0643	LF	24" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	124.00	52.60
			For 3" WG (Class B), Add	13.15	
			For 4" Or 6" WG (Class A), Add	28.05	
			For 10" WG (Class A), Add	40.32	
			For Work In Restricted Working Space, Add	26.30	
23 31 13	13-0644	LF	24" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	127.53	54.10
			For 3" WG (Class B), Add	13.52	
			For 4" Or 6" WG (Class A), Add	28.85	
			For 10" WG (Class A), Add	41.47	
			For Work In Restricted Working Space, Add	27.05	
23 31 13	13-0645	LF	26" x 26", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	92.11	39.07
			For 3" WG (Class B), Add	9.77	
			For 4" Or 6" WG (Class A), Add	20.84	
			For 10" WG (Class A), Add	29.96	
			For Work In Restricted Working Space, Add	19.54	
23 31 13	13-0646	LF	26" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	95.66	40.57
			For 3" WG (Class B), Add	10.14	
			For 4" Or 6" WG (Class A), Add	21.64	
			For 10" WG (Class A), Add	31.11	
			For Work In Restricted Working Space, Add	20.29	
23 31 13	13-0647	LF	26" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	99.18	42.07
			For 3" WG (Class B), Add	10.52	
			For 4" Or 6" WG (Class A), Add	22.44	
			For 10" WG (Class A), Add	32.26	
			For Work In Restricted Working Space, Add	21.04	
23 31 13	13-0648	LF	26" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	102.74	43.57
			For 3" WG (Class B), Add	10.89	
			For 4" Or 6" WG (Class A), Add	23.24	
			For 10" WG (Class A), Add	33.41	
			For Work In Restricted Working Space, Add	21.79	
23 31 13	13-0649	LF	26" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	106.28	45.08
			For 3" WG (Class B), Add	11.27	
			For 4" Or 6" WG (Class A), Add	24.04	
			For 10" WG (Class A), Add	34.56	
			For Work In Restricted Working Space, Add	22.54	
23 31 13	13-0650	LF	26" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	109.82	46.59
			For 3" WG (Class B), Add	11.65	
			For 4" Or 6" WG (Class A), Add	24.84	
			For 10" WG (Class A), Add	35.71	
			For Work In Restricted Working Space, Add	23.29	
23 31 13	13-0651	LF	26" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	113.37	48.09
			For 3" WG (Class B), Add	12.02	
			For 4" Or 6" WG (Class A), Add	25.65	
			For 10" WG (Class A), Add	36.87	
			For Work In Restricted Working Space, Add	24.05	
23 31 13	13-0652	LF	26" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	116.89	49.59
			For 3" WG (Class B), Add	12.40	
			For 4" Or 6" WG (Class A), Add	26.44	
			For 10" WG (Class A), Add	38.01	
			For Work In Restricted Working Space, Add	24.79	
23 31 13	13-0653	LF	26" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	120.45	51.09
			For 3" WG (Class B), Add	12.77	
			For 4" Or 6" WG (Class A), Add	27.25	
			For 10" WG (Class A), Add	39.17	
			For Work In Restricted Working Space, Add	25.55	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0654 LF 26" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	124.00	52.60
<i>For 3" WG (Class B), Add</i>	13.15	
<i>For 4" Or 6" WG (Class A), Add</i>	28.05	
<i>For 10" WG (Class A), Add</i>	40.32	
<i>For Work In Restricted Working Space, Add</i>	26.30	
23 31 13 13-0655 LF 26" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	127.53	54.10
<i>For 3" WG (Class B), Add</i>	13.52	
<i>For 4" Or 6" WG (Class A), Add</i>	28.85	
<i>For 10" WG (Class A), Add</i>	41.47	
<i>For Work In Restricted Working Space, Add</i>	27.05	
23 31 13 13-0656 LF 26" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	131.08	55.60
<i>For 3" WG (Class B), Add</i>	13.90	
<i>For 4" Or 6" WG (Class A), Add</i>	29.65	
<i>For 10" WG (Class A), Add</i>	42.63	
<i>For Work In Restricted Working Space, Add</i>	27.80	
23 31 13 13-0657 LF 28" x 28", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	99.18	42.07
<i>For 3" WG (Class B), Add</i>	10.52	
<i>For 4" Or 6" WG (Class A), Add</i>	22.44	
<i>For 10" WG (Class A), Add</i>	32.26	
<i>For Work In Restricted Working Space, Add</i>	21.04	
23 31 13 13-0658 LF 28" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	102.74	43.57
<i>For 3" WG (Class B), Add</i>	10.89	
<i>For 4" Or 6" WG (Class A), Add</i>	23.24	
<i>For 10" WG (Class A), Add</i>	33.41	
<i>For Work In Restricted Working Space, Add</i>	21.79	
23 31 13 13-0659 LF 28" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	106.28	45.08
<i>For 3" WG (Class B), Add</i>	11.27	
<i>For 4" Or 6" WG (Class A), Add</i>	24.04	
<i>For 10" WG (Class A), Add</i>	34.56	
<i>For Work In Restricted Working Space, Add</i>	22.54	
23 31 13 13-0660 LF 28" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	109.82	46.59
<i>For 3" WG (Class B), Add</i>	11.65	
<i>For 4" Or 6" WG (Class A), Add</i>	24.84	
<i>For 10" WG (Class A), Add</i>	35.71	
<i>For Work In Restricted Working Space, Add</i>	23.29	
23 31 13 13-0661 LF 28" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	113.37	48.09
<i>For 3" WG (Class B), Add</i>	12.02	
<i>For 4" Or 6" WG (Class A), Add</i>	25.65	
<i>For 10" WG (Class A), Add</i>	36.87	
<i>For Work In Restricted Working Space, Add</i>	24.05	
23 31 13 13-0662 LF 28" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	116.89	49.59
<i>For 3" WG (Class B), Add</i>	12.40	
<i>For 4" Or 6" WG (Class A), Add</i>	26.44	
<i>For 10" WG (Class A), Add</i>	38.01	
<i>For Work In Restricted Working Space, Add</i>	24.79	
23 31 13 13-0663 LF 28" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	120.45	51.09
<i>For 3" WG (Class B), Add</i>	12.77	
<i>For 4" Or 6" WG (Class A), Add</i>	27.25	
<i>For 10" WG (Class A), Add</i>	39.17	
<i>For Work In Restricted Working Space, Add</i>	25.55	
23 31 13 13-0664 LF 28" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	124.00	52.60
<i>For 3" WG (Class B), Add</i>	13.15	
<i>For 4" Or 6" WG (Class A), Add</i>	28.05	
<i>For 10" WG (Class A), Add</i>	40.32	
<i>For Work In Restricted Working Space, Add</i>	26.30	
23 31 13 13-0665 LF 28" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	127.53	54.10
<i>For 3" WG (Class B), Add</i>	13.52	
<i>For 4" Or 6" WG (Class A), Add</i>	28.85	
<i>For 10" WG (Class A), Add</i>	41.47	
<i>For Work In Restricted Working Space, Add</i>	27.05	
23 31 13 13-0666 LF 28" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	131.08	55.60
<i>For 3" WG (Class B), Add</i>	13.90	
<i>For 4" Or 6" WG (Class A), Add</i>	29.65	
<i>For 10" WG (Class A), Add</i>	42.63	
<i>For Work In Restricted Working Space, Add</i>	27.80	
23 31 13 13-0667 LF 28" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	134.60	57.10
<i>For 3" WG (Class B), Add</i>	14.27	
<i>For 4" Or 6" WG (Class A), Add</i>	30.45	
<i>For 10" WG (Class A), Add</i>	43.77	
<i>For Work In Restricted Working Space, Add</i>	28.55	
23 31 13 13-0668 LF 30" x 30", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	106.28	45.08
<i>For 3" WG (Class B), Add</i>	11.27	
<i>For 4" Or 6" WG (Class A), Add</i>	24.04	
<i>For 10" WG (Class A), Add</i>	34.56	
<i>For Work In Restricted Working Space, Add</i>	22.54	
23 31 13 13-0669 LF 30" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	109.82	46.59
<i>For 3" WG (Class B), Add</i>	11.65	
<i>For 4" Or 6" WG (Class A), Add</i>	24.84	
<i>For 10" WG (Class A), Add</i>	35.71	
<i>For Work In Restricted Working Space, Add</i>	23.29	
23 31 13 13-0670 LF 30" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	113.37	48.09
<i>For 3" WG (Class B), Add</i>	12.02	
<i>For 4" Or 6" WG (Class A), Add</i>	25.65	
<i>For 10" WG (Class A), Add</i>	36.87	
<i>For Work In Restricted Working Space, Add</i>	24.05	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13	13-0671	LF 30" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	116.89 12.40 26.44 38.01 24.79	49.59
23 31 13	13	13-0672	LF 30" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	120.45 12.77 27.25 39.17 25.55	51.09
23 31 13	13	13-0673	LF 30" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	124.00 13.15 28.05 40.32 26.30	52.60
23 31 13	13	13-0674	LF 30" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	127.53 13.52 28.85 41.47 27.05	54.10
23 31 13	13	13-0675	LF 30" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	131.08 13.90 29.65 42.63 27.80	55.60
23 31 13	13	13-0676	LF 30" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	134.60 14.27 30.45 43.77 28.55	57.10
23 31 13	13	13-0677	LF 30" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	138.16 14.65 31.25 44.93 29.30	58.60
23 31 13	13	13-0678	LF 32" x 32", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	113.37 12.02 25.65 36.87 24.05	48.09
23 31 13	13	13-0679	LF 32" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	116.89 12.40 26.44 38.01 24.79	49.59
23 31 13	13	13-0680	LF 32" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	120.45 12.77 27.25 39.17 25.55	51.09
23 31 13	13	13-0681	LF 32" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	124.00 13.15 28.05 40.32 26.30	52.60
23 31 13	13	13-0682	LF 32" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	127.53 13.52 28.85 41.47 27.05	54.10
23 31 13	13	13-0683	LF 32" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	131.08 13.90 29.65 42.63 27.80	55.60
23 31 13	13	13-0684	LF 32" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	134.60 14.27 30.45 43.77 28.55	57.10
23 31 13	13	13-0685	LF 32" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	138.16 14.65 31.25 44.93 29.30	58.60
23 31 13	13	13-0686	LF 32" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	141.71 15.03 32.06 46.08 30.05	60.10
23 31 13	13	13-0687	LF 34" x 34", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	120.45 12.77 27.25 39.17 25.55	51.09



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0688 LF 34" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	124.00	52.60
For 3" WG (Class B), Add	13.15	
For 4" Or 6" WG (Class A), Add	28.05	
For 10" WG (Class A), Add	40.32	
For Work In Restricted Working Space, Add	26.30	
23 31 13 13-0689 LF 34" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	127.53	54.10
For 3" WG (Class B), Add	13.52	
For 4" Or 6" WG (Class A), Add	28.85	
For 10" WG (Class A), Add	41.47	
For Work In Restricted Working Space, Add	27.05	
23 31 13 13-0690 LF 34" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	131.08	55.60
For 3" WG (Class B), Add	13.90	
For 4" Or 6" WG (Class A), Add	29.65	
For 10" WG (Class A), Add	42.63	
For Work In Restricted Working Space, Add	27.80	
23 31 13 13-0691 LF 34" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	134.60	57.10
For 3" WG (Class B), Add	14.27	
For 4" Or 6" WG (Class A), Add	30.45	
For 10" WG (Class A), Add	43.77	
For Work In Restricted Working Space, Add	28.55	
23 31 13 13-0692 LF 34" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	138.16	58.60
For 3" WG (Class B), Add	14.65	
For 4" Or 6" WG (Class A), Add	31.25	
For 10" WG (Class A), Add	44.93	
For Work In Restricted Working Space, Add	29.30	
23 31 13 13-0693 LF 34" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	141.71	60.10
For 3" WG (Class B), Add	15.03	
For 4" Or 6" WG (Class A), Add	32.06	
For 10" WG (Class A), Add	46.08	
For Work In Restricted Working Space, Add	30.05	
23 31 13 13-0694 LF 34" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	145.24	61.61
For 3" WG (Class B), Add	15.40	
For 4" Or 6" WG (Class A), Add	32.86	
For 10" WG (Class A), Add	47.23	
For Work In Restricted Working Space, Add	30.80	
23 31 13 13-0695 LF 36" x 36", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	127.53	54.10
For 3" WG (Class B), Add	13.52	
For 4" Or 6" WG (Class A), Add	28.85	
For 10" WG (Class A), Add	41.47	
For Work In Restricted Working Space, Add	27.05	
23 31 13 13-0696 LF 36" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	131.08	55.60
For 3" WG (Class B), Add	13.90	
For 4" Or 6" WG (Class A), Add	29.65	
For 10" WG (Class A), Add	42.63	
For Work In Restricted Working Space, Add	27.80	
23 31 13 13-0697 LF 36" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	134.60	57.10
For 3" WG (Class B), Add	14.27	
For 4" Or 6" WG (Class A), Add	30.45	
For 10" WG (Class A), Add	43.77	
For Work In Restricted Working Space, Add	28.55	
23 31 13 13-0698 LF 36" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	138.16	58.60
For 3" WG (Class B), Add	14.65	
For 4" Or 6" WG (Class A), Add	31.25	
For 10" WG (Class A), Add	44.93	
For Work In Restricted Working Space, Add	29.30	
23 31 13 13-0699 LF 36" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	141.71	60.10
For 3" WG (Class B), Add	15.03	
For 4" Or 6" WG (Class A), Add	32.06	
For 10" WG (Class A), Add	46.08	
For Work In Restricted Working Space, Add	30.05	
23 31 13 13-0700 LF 36" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	145.24	61.61
For 3" WG (Class B), Add	15.40	
For 4" Or 6" WG (Class A), Add	32.86	
For 10" WG (Class A), Add	47.23	
For Work In Restricted Working Space, Add	30.80	
23 31 13 13-0701 LF 36" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	148.79	63.11
For 3" WG (Class B), Add	15.78	
For 4" Or 6" WG (Class A), Add	33.66	
For 10" WG (Class A), Add	48.39	
For Work In Restricted Working Space, Add	31.56	
23 31 13 13-0702 LF 38" x 38", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	134.60	57.10
For 3" WG (Class B), Add	14.27	
For 4" Or 6" WG (Class A), Add	30.45	
For 10" WG (Class A), Add	43.77	
For Work In Restricted Working Space, Add	28.55	
23 31 13 13-0703 LF 38" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	138.16	58.60
For 3" WG (Class B), Add	14.65	
For 4" Or 6" WG (Class A), Add	31.25	
For 10" WG (Class A), Add	44.93	
For Work In Restricted Working Space, Add	29.30	
23 31 13 13-0704 LF 38" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	141.71	60.10
For 3" WG (Class B), Add	15.03	
For 4" Or 6" WG (Class A), Add	32.06	
For 10" WG (Class A), Add	46.08	
For Work In Restricted Working Space, Add	30.05	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0705	LF	38" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	145.24	61.61
			For 3" WG (Class B), Add	15.40	
			For 4" Or 6" WG (Class A), Add	32.86	
			For 10" WG (Class A), Add	47.23	
			For Work In Restricted Working Space, Add	30.80	
23 31 13	13-0706	LF	38" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	148.79	63.11
			For 3" WG (Class B), Add	15.78	
			For 4" Or 6" WG (Class A), Add	33.66	
			For 10" WG (Class A), Add	48.39	
			For Work In Restricted Working Space, Add	31.56	
23 31 13	13-0707	LF	38" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	152.34	64.61
			For 3" WG (Class B), Add	16.15	
			For 4" Or 6" WG (Class A), Add	34.46	
			For 10" WG (Class A), Add	49.54	
			For Work In Restricted Working Space, Add	32.31	
23 31 13	13-0708	LF	38" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	155.86	66.12
			For 3" WG (Class B), Add	16.53	
			For 4" Or 6" WG (Class A), Add	35.26	
			For 10" WG (Class A), Add	50.69	
			For Work In Restricted Working Space, Add	33.06	
23 31 13	13-0709	LF	40" x 40", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	141.71	60.10
			For 3" WG (Class B), Add	15.03	
			For 4" Or 6" WG (Class A), Add	32.06	
			For 10" WG (Class A), Add	46.08	
			For Work In Restricted Working Space, Add	30.05	
23 31 13	13-0710	LF	40" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	145.24	61.61
			For 3" WG (Class B), Add	15.40	
			For 4" Or 6" WG (Class A), Add	32.86	
			For 10" WG (Class A), Add	47.23	
			For Work In Restricted Working Space, Add	30.80	
23 31 13	13-0711	LF	40" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	148.79	63.11
			For 3" WG (Class B), Add	15.78	
			For 4" Or 6" WG (Class A), Add	33.66	
			For 10" WG (Class A), Add	48.39	
			For Work In Restricted Working Space, Add	31.56	
23 31 13	13-0712	LF	40" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	152.34	64.61
			For 3" WG (Class B), Add	16.15	
			For 4" Or 6" WG (Class A), Add	34.46	
			For 10" WG (Class A), Add	49.54	
			For Work In Restricted Working Space, Add	32.31	
23 31 13	13-0713	LF	40" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	155.86	66.12
			For 3" WG (Class B), Add	16.53	
			For 4" Or 6" WG (Class A), Add	35.26	
			For 10" WG (Class A), Add	50.69	
			For Work In Restricted Working Space, Add	33.06	
23 31 13	13-0714	LF	40" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	159.42	67.62
			For 3" WG (Class B), Add	16.91	
			For 4" Or 6" WG (Class A), Add	36.06	
			For 10" WG (Class A), Add	51.84	
			For Work In Restricted Working Space, Add	33.81	
23 31 13	13-0715	LF	40" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	162.96	69.13
			For 3" WG (Class B), Add	17.28	
			For 4" Or 6" WG (Class A), Add	36.87	
			For 10" WG (Class A), Add	53.00	
			For Work In Restricted Working Space, Add	34.56	
23 31 13	13-0716	LF	40" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	166.50	70.63
			For 3" WG (Class B), Add	17.66	
			For 4" Or 6" WG (Class A), Add	37.67	
			For 10" WG (Class A), Add	54.15	
			For Work In Restricted Working Space, Add	35.31	
23 31 13	13-0717	LF	40" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	170.05	72.13
			For 3" WG (Class B), Add	18.03	
			For 4" Or 6" WG (Class A), Add	38.47	
			For 10" WG (Class A), Add	55.30	
			For Work In Restricted Working Space, Add	36.06	
23 31 13	13-0718	LF	42" x 42", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	148.79	63.11
			For 3" WG (Class B), Add	15.78	
			For 4" Or 6" WG (Class A), Add	33.66	
			For 10" WG (Class A), Add	48.39	
			For Work In Restricted Working Space, Add	31.56	
23 31 13	13-0719	LF	42" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	152.34	64.61
			For 3" WG (Class B), Add	16.15	
			For 4" Or 6" WG (Class A), Add	34.46	
			For 10" WG (Class A), Add	49.54	
			For Work In Restricted Working Space, Add	32.31	
23 31 13	13-0720	LF	42" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	155.86	66.12
			For 3" WG (Class B), Add	16.53	
			For 4" Or 6" WG (Class A), Add	35.26	
			For 10" WG (Class A), Add	50.69	
			For Work In Restricted Working Space, Add	33.06	
23 31 13	13-0721	LF	42" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	159.42	67.62
			For 3" WG (Class B), Add	16.91	
			For 4" Or 6" WG (Class A), Add	36.06	
			For 10" WG (Class A), Add	51.84	
			For Work In Restricted Working Space, Add	33.81	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0722 LF 42" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	162.96	69.13
<i>For 3" WG (Class B), Add</i>	17.28	
<i>For 4" Or 6" WG (Class A), Add</i>	36.87	
<i>For 10" WG (Class A), Add</i>	53.00	
<i>For Work In Restricted Working Space, Add</i>	34.56	
23 31 13 13-0723 LF 42" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	166.50	70.63
<i>For 3" WG (Class B), Add</i>	17.66	
<i>For 4" Or 6" WG (Class A), Add</i>	37.67	
<i>For 10" WG (Class A), Add</i>	54.15	
<i>For Work In Restricted Working Space, Add</i>	35.31	
23 31 13 13-0724 LF 42" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	170.05	72.13
<i>For 3" WG (Class B), Add</i>	18.03	
<i>For 4" Or 6" WG (Class A), Add</i>	38.47	
<i>For 10" WG (Class A), Add</i>	55.30	
<i>For Work In Restricted Working Space, Add</i>	36.06	
23 31 13 13-0725 LF 42" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	173.58	73.63
<i>For 3" WG (Class B), Add</i>	18.41	
<i>For 4" Or 6" WG (Class A), Add</i>	39.27	
<i>For 10" WG (Class A), Add</i>	56.45	
<i>For Work In Restricted Working Space, Add</i>	36.82	
23 31 13 13-0726 LF 44" x 44", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	155.86	66.12
<i>For 3" WG (Class B), Add</i>	16.53	
<i>For 4" Or 6" WG (Class A), Add</i>	35.26	
<i>For 10" WG (Class A), Add</i>	50.69	
<i>For Work In Restricted Working Space, Add</i>	33.06	
23 31 13 13-0727 LF 44" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	159.42	67.62
<i>For 3" WG (Class B), Add</i>	16.91	
<i>For 4" Or 6" WG (Class A), Add</i>	36.06	
<i>For 10" WG (Class A), Add</i>	51.84	
<i>For Work In Restricted Working Space, Add</i>	33.81	
23 31 13 13-0728 LF 44" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	162.96	69.13
<i>For 3" WG (Class B), Add</i>	17.28	
<i>For 4" Or 6" WG (Class A), Add</i>	36.87	
<i>For 10" WG (Class A), Add</i>	53.00	
<i>For Work In Restricted Working Space, Add</i>	34.56	
23 31 13 13-0729 LF 44" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	166.50	70.63
<i>For 3" WG (Class B), Add</i>	17.66	
<i>For 4" Or 6" WG (Class A), Add</i>	37.67	
<i>For 10" WG (Class A), Add</i>	54.15	
<i>For Work In Restricted Working Space, Add</i>	35.31	
23 31 13 13-0730 LF 44" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	170.05	72.13
<i>For 3" WG (Class B), Add</i>	18.03	
<i>For 4" Or 6" WG (Class A), Add</i>	38.47	
<i>For 10" WG (Class A), Add</i>	55.30	
<i>For Work In Restricted Working Space, Add</i>	36.06	
23 31 13 13-0731 LF 44" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	173.58	73.63
<i>For 3" WG (Class B), Add</i>	18.41	
<i>For 4" Or 6" WG (Class A), Add</i>	39.27	
<i>For 10" WG (Class A), Add</i>	56.45	
<i>For Work In Restricted Working Space, Add</i>	36.82	
23 31 13 13-0732 LF 44" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	177.13	75.13
<i>For 3" WG (Class B), Add</i>	18.78	
<i>For 4" Or 6" WG (Class A), Add</i>	40.07	
<i>For 10" WG (Class A), Add</i>	57.60	
<i>For Work In Restricted Working Space, Add</i>	37.57	
23 31 13 13-0733 LF 46" x 46", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	162.96	69.13
<i>For 3" WG (Class B), Add</i>	17.28	
<i>For 4" Or 6" WG (Class A), Add</i>	36.87	
<i>For 10" WG (Class A), Add</i>	53.00	
<i>For Work In Restricted Working Space, Add</i>	34.56	
23 31 13 13-0734 LF 46" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	166.50	70.63
<i>For 3" WG (Class B), Add</i>	17.66	
<i>For 4" Or 6" WG (Class A), Add</i>	37.67	
<i>For 10" WG (Class A), Add</i>	54.15	
<i>For Work In Restricted Working Space, Add</i>	35.31	
23 31 13 13-0735 LF 46" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	170.05	72.13
<i>For 3" WG (Class B), Add</i>	18.03	
<i>For 4" Or 6" WG (Class A), Add</i>	38.47	
<i>For 10" WG (Class A), Add</i>	55.30	
<i>For Work In Restricted Working Space, Add</i>	36.06	
23 31 13 13-0736 LF 46" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	173.58	73.63
<i>For 3" WG (Class B), Add</i>	18.41	
<i>For 4" Or 6" WG (Class A), Add</i>	39.27	
<i>For 10" WG (Class A), Add</i>	56.45	
<i>For Work In Restricted Working Space, Add</i>	36.82	
23 31 13 13-0737 LF 46" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	177.13	75.13
<i>For 3" WG (Class B), Add</i>	18.78	
<i>For 4" Or 6" WG (Class A), Add</i>	40.07	
<i>For 10" WG (Class A), Add</i>	57.60	
<i>For Work In Restricted Working Space, Add</i>	37.57	
23 31 13 13-0738 LF 46" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	180.68	76.63
<i>For 3" WG (Class B), Add</i>	19.16	
<i>For 4" Or 6" WG (Class A), Add</i>	40.87	
<i>For 10" WG (Class A), Add</i>	58.76	
<i>For Work In Restricted Working Space, Add</i>	38.32	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0739	LF	46" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	184.21 19.53 41.67 59.91 39.07	78.14
23 31 13	13-0740	LF	48" x 48", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	173.05 18.03 38.47 55.30 36.06	72.13
23 31 13	13-0741	LF	48" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	173.58 18.41 39.27 56.45 36.82	73.63
23 31 13	13-0742	LF	48" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	177.13 18.78 40.07 57.60 37.57	75.13
23 31 13	13-0743	LF	48" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	180.68 19.16 40.87 58.76 38.32	76.63
23 31 13	13-0744	LF	48" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	184.21 19.53 41.67 59.91 39.07	78.14
23 31 13	13-0745	LF	48" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	187.76 19.91 42.47 61.06 39.82	79.64
23 31 13	13-0746	LF	48" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	191.29 20.29 43.28 62.21 40.57	81.14
23 31 13	13-0747	LF	50" x 50", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	177.13 18.78 40.07 57.60 37.57	75.13
23 31 13	13-0748	LF	50" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	180.68 19.16 40.87 58.76 38.32	76.63
23 31 13	13-0749	LF	50" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	184.21 19.53 41.67 59.91 39.07	78.14
23 31 13	13-0750	LF	50" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	187.76 19.91 42.47 61.06 39.82	79.64
23 31 13	13-0751	LF	50" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	191.29 20.29 43.28 62.21 40.57	81.14
23 31 13	13-0752	LF	50" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	194.84 20.66 44.08 63.36 41.32	82.64
23 31 13	13-0753	LF	52" x 52", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	184.21 19.53 41.67 59.91 39.07	78.14
23 31 13	13-0754	LF	52" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	187.76 19.91 42.47 61.06 39.82	79.64
23 31 13	13-0755	LF	52" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	191.29 20.29 43.28 62.21 40.57	81.14



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0756 LF 52" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	194.84 20.66 44.08 63.36 41.32	82.64
23 31 13 13-0757 LF 52" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	198.39 21.04 44.88 64.52 42.08	84.15
23 31 13 13-0758 LF 54" x 54", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	191.29 20.29 43.28 62.21 40.57	81.14
23 31 13 13-0759 LF 54" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	194.84 20.66 44.08 63.36 41.32	82.64
23 31 13 13-0760 LF 54" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	198.39 21.04 44.88 64.52 42.08	84.15
23 31 13 13-0761 LF 54" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	201.93 21.41 45.68 65.67 42.83	85.66
23 31 13 13-0762 LF 54" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	205.47 21.79 46.48 66.82 43.58	87.16
23 31 13 13-0763 LF 54" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	209.00 22.16 47.28 67.97 44.33	88.66
23 31 13 13-0764 LF 56" x 56", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	198.39 21.04 44.88 64.52 42.08	84.15
23 31 13 13-0765 LF 56" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	201.93 21.41 45.68 65.67 42.83	85.66
23 31 13 13-0766 LF 56" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	205.47 21.79 46.48 66.82 43.58	87.16
23 31 13 13-0767 LF 56" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	209.00 22.16 47.28 67.97 44.33	88.66
23 31 13 13-0768 LF 56" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	212.56 22.54 48.09 69.12 45.08	90.16
23 31 13 13-0769 LF 58" x 58", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	205.47 21.79 46.48 66.82 43.58	87.16
23 31 13 13-0770 LF 58" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	209.00 22.16 47.28 67.97 44.33	88.66
23 31 13 13-0771 LF 58" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	212.56 22.54 48.09 69.12 45.08	90.16
23 31 13 13-0772 LF 58" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	216.10 22.92 48.89 70.27 45.83	91.66

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-0773	LF 58" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	219.64 23.29 49.69 71.43 46.58	93.17
23 31	13	13-0774	LF 60" x 60", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	212.56 22.54 48.09 69.12 45.08	90.16
23 31	13	13-0775	LF 60" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	216.10 22.92 48.89 70.27 45.83	91.66
23 31	13	13-0776	LF 60" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	219.64 23.29 49.69 71.43 46.58	93.17
23 31	13	13-0777	LF 60" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	223.18 23.67 50.49 72.58 47.33	94.67
23 31	13	13-0778	LF 60" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	226.73 24.04 51.29 73.73 48.08	96.17
23 31	13	13-0779	LF 62" x 62", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	219.64 23.29 49.69 71.43 46.58	93.17
23 31	13	13-0780	LF 62" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	223.18 23.67 50.49 72.58 47.33	94.67
23 31	13	13-0781	LF 62" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	226.73 24.04 51.29 73.73 48.08	96.17
23 31	13	13-0782	LF 62" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	230.27 24.42 52.09 74.88 48.84	97.67
23 31	13	13-0783	LF 62" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	233.81 24.79 52.89 76.03 49.59	99.17
23 31	13	13-0784	LF 64" x 64", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	226.73 24.04 51.29 73.73 48.08	96.17
23 31	13	13-0785	LF 64" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	230.27 24.42 52.09 74.88 48.84	97.67
23 31	13	13-0786	LF 64" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	233.81 24.79 52.89 76.03 49.59	99.17
23 31	13	13-0787	LF 64" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	237.35 25.17 53.70 77.19 50.34	100.67
23 31	13	13-0788	LF 66" x 66", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	233.81 24.79 52.89 76.03 49.59	99.17
23 31	13	13-0789	LF 66" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	237.35 25.17 53.70 77.19 50.34	100.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0790 LF 66" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	240.89 25.55 54.50 78.34 51.09	102.19
23 31 13 13-0791 LF 68" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	244.44 25.92 55.30 79.49 51.84	103.69
23 31 13 13-0792 LF 68" x 68", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	240.89 25.55 54.50 78.34 51.09	102.19
23 31 13 13-0793 LF 68" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	244.44 25.92 55.30 79.49 51.84	103.69
23 31 13 13-0794 LF 68" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	247.97 26.30 56.10 80.64 52.59	105.19
23 31 13 13-0795 LF 68" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	251.53 26.67 56.90 81.80 53.35	106.69
23 31 13 13-0796 LF 70" x 70", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	247.97 26.30 56.10 80.64 52.59	105.19
23 31 13 13-0797 LF 70" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	251.53 26.67 56.90 81.80 53.35	106.69
23 31 13 13-0798 LF 70" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	255.08 27.05 57.70 82.95 54.10	108.19
23 31 13 13-0799 LF 70" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	258.61 27.42 58.51 84.10 54.85	109.70
23 31 13 13-0800 LF 70" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	262.16 27.80 59.31 85.25 55.60	111.20
23 31 13 13-0801 LF 70" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	265.68 28.17 60.11 86.40 56.35	112.70
23 31 13 13-0802 LF 70" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	269.24 28.55 60.91 87.56 57.10	114.20
23 31 13 13-0803 LF 70" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	272.80 28.93 61.71 88.71 57.86	115.70
23 31 13 13-0804 LF 72" x 72", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	255.08 27.05 57.70 82.95 54.10	108.19
23 31 13 13-0805 LF 72" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	258.61 27.42 58.51 84.10 54.85	109.70
23 31 13 13-0806 LF 72" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	262.16 27.80 59.31 85.25 55.60	111.20

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0807	LF	72" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	265.68 28.17 60.11 86.40 56.35	112.70
23 31 13	13-0808	LF	72" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	269.24 28.55 60.91 87.56 57.10	114.20
23 31 13	13-0809	LF	72" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	272.80 28.93 61.71 88.71 57.86	115.70
23 31 13	13-0810	LF	72" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	276.32 29.30 62.51 89.86 58.61	117.21
23 31 13	13-0811	LF	74" x 74", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	262.16 27.80 59.31 85.25 55.60	111.20
23 31 13	13-0812	LF	74" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	265.68 28.17 60.11 86.40 56.35	112.70
23 31 13	13-0813	LF	74" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	269.24 28.55 60.91 87.56 57.10	114.20
23 31 13	13-0814	LF	74" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	272.80 28.93 61.71 88.71 57.86	115.70
23 31 13	13-0815	LF	74" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	276.32 29.30 62.51 89.86 58.61	117.21
23 31 13	13-0816	LF	74" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	279.87 29.68 63.31 91.01 59.36	118.71
23 31 13	13-0817	LF	76" x 76", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	269.24 28.55 60.91 87.56 57.10	114.20
23 31 13	13-0818	LF	76" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	272.80 28.93 61.71 88.71 57.86	115.70
23 31 13	13-0819	LF	76" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	276.32 29.30 62.51 89.86 58.61	117.21
23 31 13	13-0820	LF	76" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	279.87 29.68 63.31 91.01 59.36	118.71
23 31 13	13-0821	LF	76" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	283.40 30.05 64.12 92.17 60.11	120.21
23 31 13	13-0822	LF	78" x 78", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	276.32 29.30 62.51 89.86 58.61	117.21
23 31 13	13-0823	LF	78" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	279.87 29.68 63.31 91.01 59.36	118.71



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0824 LF 78" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	283.40	120.21
For 3" WG (Class B), Add	30.05	
For 4" Or 6" WG (Class A), Add	64.12	
For 10" WG (Class A), Add	92.17	
For Work In Restricted Working Space, Add	60.11	
23 31 13 13-0825 LF 78" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	286.95	121.72
For 3" WG (Class B), Add	30.43	
For 4" Or 6" WG (Class A), Add	64.92	
For 10" WG (Class A), Add	93.32	
For Work In Restricted Working Space, Add	60.86	
23 31 13 13-0826 LF 80" x 80", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	283.40	120.21
For 3" WG (Class B), Add	30.05	
For 4" Or 6" WG (Class A), Add	64.12	
For 10" WG (Class A), Add	92.17	
For Work In Restricted Working Space, Add	60.11	
23 31 13 13-0827 LF 80" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	286.95	121.72
For 3" WG (Class B), Add	30.43	
For 4" Or 6" WG (Class A), Add	64.92	
For 10" WG (Class A), Add	93.32	
For Work In Restricted Working Space, Add	60.86	
23 31 13 13-0828 LF 80" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	290.50	123.22
For 3" WG (Class B), Add	30.81	
For 4" Or 6" WG (Class A), Add	65.72	
For 10" WG (Class A), Add	94.47	
For Work In Restricted Working Space, Add	61.61	
23 31 13 13-0829 LF 82" x 82", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	290.50	123.22
For 3" WG (Class B), Add	30.81	
For 4" Or 6" WG (Class A), Add	65.72	
For 10" WG (Class A), Add	94.47	
For Work In Restricted Working Space, Add	61.61	
23 31 13 13-0830 LF 82" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	294.03	124.72
For 3" WG (Class B), Add	31.18	
For 4" Or 6" WG (Class A), Add	66.52	
For 10" WG (Class A), Add	95.62	
For Work In Restricted Working Space, Add	62.36	
23 31 13 13-0831 LF 84" x 84", Up To 2" WG (Class C), 20 Gauge Galvanized Steel Sheet Metal Ductwork	297.58	126.23
For 3" WG (Class B), Add	31.56	
For 4" Or 6" WG (Class A), Add	67.32	
For 10" WG (Class A), Add	96.77	
For Work In Restricted Working Space, Add	63.11	
23 31 13 13-0832 18 Gauge Galvanized Steel Metal Ductwork (23 31 13 13-0014)		
23 31 13 13-0833 LF 4" x 4", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	18.45	7.83
For 3" WG (Class B), Add	1.96	
For 4" Or 6" WG (Class A), Add	4.17	
For 10" WG (Class A), Add	6.00	
For Work In Restricted Working Space, Add	3.91	
23 31 13 13-0834 LF 4" x 6", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	23.07	9.78
For 3" WG (Class B), Add	2.45	
For 4" Or 6" WG (Class A), Add	5.22	
For 10" WG (Class A), Add	7.50	
For Work In Restricted Working Space, Add	4.89	
23 31 13 13-0835 LF 4" x 8", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	27.67	11.73
For 3" WG (Class B), Add	2.93	
For 4" Or 6" WG (Class A), Add	6.26	
For 10" WG (Class A), Add	9.00	
For Work In Restricted Working Space, Add	5.87	
23 31 13 13-0836 LF 4" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	32.27	13.70
For 3" WG (Class B), Add	3.42	
For 4" Or 6" WG (Class A), Add	7.30	
For 10" WG (Class A), Add	10.50	
For Work In Restricted Working Space, Add	6.85	
23 31 13 13-0837 LF 4" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	36.91	15.65
For 3" WG (Class B), Add	3.91	
For 4" Or 6" WG (Class A), Add	8.35	
For 10" WG (Class A), Add	12.00	
For Work In Restricted Working Space, Add	7.83	
23 31 13 13-0838 LF 4" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	41.51	17.61
For 3" WG (Class B), Add	4.40	
For 4" Or 6" WG (Class A), Add	9.39	
For 10" WG (Class A), Add	13.50	
For Work In Restricted Working Space, Add	8.80	
23 31 13 13-0839 LF 4" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	46.12	19.56
For 3" WG (Class B), Add	4.89	
For 4" Or 6" WG (Class A), Add	10.43	
For 10" WG (Class A), Add	15.00	
For Work In Restricted Working Space, Add	9.78	
23 31 13 13-0840 LF 6" x 6", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	27.67	11.73
For 3" WG (Class B), Add	2.93	
For 4" Or 6" WG (Class A), Add	6.26	
For 10" WG (Class A), Add	9.00	
For Work In Restricted Working Space, Add	5.87	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0841	LF	6" x 8", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	32.27	13.70
			For 3" WG (Class B), Add	3.42	
			For 4" Or 6" WG (Class A), Add	7.30	
			For 10" WG (Class A), Add	10.50	
			For Work In Restricted Working Space, Add	6.85	
23 31 13	13-0842	LF	6" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	36.91	15.65
			For 3" WG (Class B), Add	3.91	
			For 4" Or 6" WG (Class A), Add	8.35	
			For 10" WG (Class A), Add	12.00	
			For Work In Restricted Working Space, Add	7.83	
23 31 13	13-0843	LF	6" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	41.51	17.61
			For 3" WG (Class B), Add	4.40	
			For 4" Or 6" WG (Class A), Add	9.39	
			For 10" WG (Class A), Add	13.50	
			For Work In Restricted Working Space, Add	8.80	
23 31 13	13-0844	LF	6" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	46.12	19.56
			For 3" WG (Class B), Add	4.89	
			For 4" Or 6" WG (Class A), Add	10.43	
			For 10" WG (Class A), Add	15.00	
			For Work In Restricted Working Space, Add	9.78	
23 31 13	13-0845	LF	6" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	50.73	21.52
			For 3" WG (Class B), Add	5.38	
			For 4" Or 6" WG (Class A), Add	11.48	
			For 10" WG (Class A), Add	16.50	
			For Work In Restricted Working Space, Add	10.76	
23 31 13	13-0846	LF	8" x 8", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	36.91	15.65
			For 3" WG (Class B), Add	3.91	
			For 4" Or 6" WG (Class A), Add	8.35	
			For 10" WG (Class A), Add	12.00	
			For Work In Restricted Working Space, Add	7.83	
23 31 13	13-0847	LF	8" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	41.51	17.61
			For 3" WG (Class B), Add	4.40	
			For 4" Or 6" WG (Class A), Add	9.39	
			For 10" WG (Class A), Add	13.50	
			For Work In Restricted Working Space, Add	8.80	
23 31 13	13-0848	LF	8" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	46.12	19.56
			For 3" WG (Class B), Add	4.89	
			For 4" Or 6" WG (Class A), Add	10.43	
			For 10" WG (Class A), Add	15.00	
			For Work In Restricted Working Space, Add	9.78	
23 31 13	13-0849	LF	8" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	50.73	21.52
			For 3" WG (Class B), Add	5.38	
			For 4" Or 6" WG (Class A), Add	11.48	
			For 10" WG (Class A), Add	16.50	
			For Work In Restricted Working Space, Add	10.76	
23 31 13	13-0850	LF	8" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	55.34	23.48
			For 3" WG (Class B), Add	5.87	
			For 4" Or 6" WG (Class A), Add	12.52	
			For 10" WG (Class A), Add	18.00	
			For Work In Restricted Working Space, Add	11.74	
23 31 13	13-0851	LF	8" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	59.96	25.43
			For 3" WG (Class B), Add	6.36	
			For 4" Or 6" WG (Class A), Add	13.56	
			For 10" WG (Class A), Add	19.49	
			For Work In Restricted Working Space, Add	12.71	
23 31 13	13-0852	LF	8" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	64.58	27.39
			For 3" WG (Class B), Add	6.85	
			For 4" Or 6" WG (Class A), Add	14.61	
			For 10" WG (Class A), Add	21.00	
			For Work In Restricted Working Space, Add	13.70	
23 31 13	13-0853	LF	8" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	69.18	29.34
			For 3" WG (Class B), Add	7.34	
			For 4" Or 6" WG (Class A), Add	15.65	
			For 10" WG (Class A), Add	22.50	
			For Work In Restricted Working Space, Add	14.67	
23 31 13	13-0854	LF	8" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	73.79	31.31
			For 3" WG (Class B), Add	7.83	
			For 4" Or 6" WG (Class A), Add	16.69	
			For 10" WG (Class A), Add	24.00	
			For Work In Restricted Working Space, Add	15.65	
23 31 13	13-0855	LF	10" x 10", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	46.12	19.56
			For 3" WG (Class B), Add	4.89	
			For 4" Or 6" WG (Class A), Add	10.43	
			For 10" WG (Class A), Add	15.00	
			For Work In Restricted Working Space, Add	9.78	
23 31 13	13-0856	LF	10" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	50.73	21.52
			For 3" WG (Class B), Add	5.38	
			For 4" Or 6" WG (Class A), Add	11.48	
			For 10" WG (Class A), Add	16.50	
			For Work In Restricted Working Space, Add	10.76	
23 31 13	13-0857	LF	10" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	55.34	23.48
			For 3" WG (Class B), Add	5.87	
			For 4" Or 6" WG (Class A), Add	12.52	
			For 10" WG (Class A), Add	18.00	
			For Work In Restricted Working Space, Add	11.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0858 LF 10" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	59.96	25.43
For 3" WG (Class B), Add	6.36	
For 4" Or 6" WG (Class A), Add	13.56	
For 10" WG (Class A), Add	19.49	
For Work In Restricted Working Space, Add	12.71	
23 31 13 13-0859 LF 10" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	64.58	27.39
For 3" WG (Class B), Add	6.85	
For 4" Or 6" WG (Class A), Add	14.61	
For 10" WG (Class A), Add	21.00	
For Work In Restricted Working Space, Add	13.70	
23 31 13 13-0860 LF 10" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	69.18	29.34
For 3" WG (Class B), Add	7.34	
For 4" Or 6" WG (Class A), Add	15.65	
For 10" WG (Class A), Add	22.50	
For Work In Restricted Working Space, Add	14.67	
23 31 13 13-0861 LF 10" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	73.79	31.31
For 3" WG (Class B), Add	7.83	
For 4" Or 6" WG (Class A), Add	16.69	
For 10" WG (Class A), Add	24.00	
For Work In Restricted Working Space, Add	15.65	
23 31 13 13-0862 LF 10" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	78.40	33.26
For 3" WG (Class B), Add	8.31	
For 4" Or 6" WG (Class A), Add	17.74	
For 10" WG (Class A), Add	25.50	
For Work In Restricted Working Space, Add	16.63	
23 31 13 13-0863 LF 10" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	83.03	35.21
For 3" WG (Class B), Add	8.80	
For 4" Or 6" WG (Class A), Add	18.78	
For 10" WG (Class A), Add	27.00	
For Work In Restricted Working Space, Add	17.61	
23 31 13 13-0864 LF 10" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	87.64	37.17
For 3" WG (Class B), Add	9.29	
For 4" Or 6" WG (Class A), Add	19.83	
For 10" WG (Class A), Add	28.50	
For Work In Restricted Working Space, Add	18.59	
23 31 13 13-0865 LF 10" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	92.24	39.13
For 3" WG (Class B), Add	9.78	
For 4" Or 6" WG (Class A), Add	20.87	
For 10" WG (Class A), Add	30.00	
For Work In Restricted Working Space, Add	19.56	
23 31 13 13-0866 LF 10" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	96.85	41.09
For 3" WG (Class B), Add	10.27	
For 4" Or 6" WG (Class A), Add	21.91	
For 10" WG (Class A), Add	31.50	
For Work In Restricted Working Space, Add	20.54	
23 31 13 13-0867 LF 12" x 12", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	55.34	23.48
For 3" WG (Class B), Add	5.87	
For 4" Or 6" WG (Class A), Add	12.52	
For 10" WG (Class A), Add	18.00	
For Work In Restricted Working Space, Add	11.74	
23 31 13 13-0868 LF 12" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	59.96	25.43
For 3" WG (Class B), Add	6.36	
For 4" Or 6" WG (Class A), Add	13.56	
For 10" WG (Class A), Add	19.49	
For Work In Restricted Working Space, Add	12.71	
23 31 13 13-0869 LF 12" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	64.58	27.39
For 3" WG (Class B), Add	6.85	
For 4" Or 6" WG (Class A), Add	14.61	
For 10" WG (Class A), Add	21.00	
For Work In Restricted Working Space, Add	13.70	
23 31 13 13-0870 LF 12" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	69.18	29.34
For 3" WG (Class B), Add	7.34	
For 4" Or 6" WG (Class A), Add	15.65	
For 10" WG (Class A), Add	22.50	
For Work In Restricted Working Space, Add	14.67	
23 31 13 13-0871 LF 12" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	73.79	31.31
For 3" WG (Class B), Add	7.83	
For 4" Or 6" WG (Class A), Add	16.69	
For 10" WG (Class A), Add	24.00	
For Work In Restricted Working Space, Add	15.65	
23 31 13 13-0872 LF 12" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	78.40	33.26
For 3" WG (Class B), Add	8.31	
For 4" Or 6" WG (Class A), Add	17.74	
For 10" WG (Class A), Add	25.50	
For Work In Restricted Working Space, Add	16.63	
23 31 13 13-0873 LF 12" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	83.03	35.21
For 3" WG (Class B), Add	8.80	
For 4" Or 6" WG (Class A), Add	18.78	
For 10" WG (Class A), Add	27.00	
For Work In Restricted Working Space, Add	17.61	
23 31 13 13-0874 LF 12" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	87.64	37.17
For 3" WG (Class B), Add	9.29	
For 4" Or 6" WG (Class A), Add	19.83	
For 10" WG (Class A), Add	28.50	
For Work In Restricted Working Space, Add	18.59	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0875	LF	12" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	92.24	39.13
			For 3" WG (Class B), Add	9.78	
			For 4" Or 6" WG (Class A), Add	20.87	
			For 10" WG (Class A), Add	30.00	
			For Work In Restricted Working Space, Add	19.56	
23 31 13	13-0876	LF	12" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	96.85	41.09
			For 3" WG (Class B), Add	10.27	
			For 4" Or 6" WG (Class A), Add	21.91	
			For 10" WG (Class A), Add	31.50	
			For Work In Restricted Working Space, Add	20.54	
23 31 13	13-0877	LF	12" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	101.47	43.04
			For 3" WG (Class B), Add	10.76	
			For 4" Or 6" WG (Class A), Add	22.96	
			For 10" WG (Class A), Add	33.00	
			For Work In Restricted Working Space, Add	21.52	
23 31 13	13-0878	LF	12" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	106.09	44.99
			For 3" WG (Class B), Add	11.25	
			For 4" Or 6" WG (Class A), Add	24.00	
			For 10" WG (Class A), Add	34.50	
			For Work In Restricted Working Space, Add	22.50	
23 31 13	13-0879	LF	12" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	110.69	46.96
			For 3" WG (Class B), Add	11.74	
			For 4" Or 6" WG (Class A), Add	25.04	
			For 10" WG (Class A), Add	36.00	
			For Work In Restricted Working Space, Add	23.48	
23 31 13	13-0880	LF	14" x 14", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	64.58	27.39
			For 3" WG (Class B), Add	6.85	
			For 4" Or 6" WG (Class A), Add	14.61	
			For 10" WG (Class A), Add	21.00	
			For Work In Restricted Working Space, Add	13.70	
23 31 13	13-0881	LF	14" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	69.18	29.34
			For 3" WG (Class B), Add	7.34	
			For 4" Or 6" WG (Class A), Add	15.65	
			For 10" WG (Class A), Add	22.50	
			For Work In Restricted Working Space, Add	14.67	
23 31 13	13-0882	LF	14" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	73.79	31.31
			For 3" WG (Class B), Add	7.83	
			For 4" Or 6" WG (Class A), Add	16.69	
			For 10" WG (Class A), Add	24.00	
			For Work In Restricted Working Space, Add	15.65	
23 31 13	13-0883	LF	14" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	78.40	33.26
			For 3" WG (Class B), Add	8.31	
			For 4" Or 6" WG (Class A), Add	17.74	
			For 10" WG (Class A), Add	25.50	
			For Work In Restricted Working Space, Add	16.63	
23 31 13	13-0884	LF	14" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	83.03	35.21
			For 3" WG (Class B), Add	8.80	
			For 4" Or 6" WG (Class A), Add	18.78	
			For 10" WG (Class A), Add	27.00	
			For Work In Restricted Working Space, Add	17.61	
23 31 13	13-0885	LF	14" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	87.64	37.17
			For 3" WG (Class B), Add	9.29	
			For 4" Or 6" WG (Class A), Add	19.83	
			For 10" WG (Class A), Add	28.50	
			For Work In Restricted Working Space, Add	18.59	
23 31 13	13-0886	LF	14" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	92.24	39.13
			For 3" WG (Class B), Add	9.78	
			For 4" Or 6" WG (Class A), Add	20.87	
			For 10" WG (Class A), Add	30.00	
			For Work In Restricted Working Space, Add	19.56	
23 31 13	13-0887	LF	14" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	96.85	41.09
			For 3" WG (Class B), Add	10.27	
			For 4" Or 6" WG (Class A), Add	21.91	
			For 10" WG (Class A), Add	31.50	
			For Work In Restricted Working Space, Add	20.54	
23 31 13	13-0888	LF	14" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	101.47	43.04
			For 3" WG (Class B), Add	10.76	
			For 4" Or 6" WG (Class A), Add	22.96	
			For 10" WG (Class A), Add	33.00	
			For Work In Restricted Working Space, Add	21.52	
23 31 13	13-0889	LF	14" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	106.09	44.99
			For 3" WG (Class B), Add	11.25	
			For 4" Or 6" WG (Class A), Add	24.00	
			For 10" WG (Class A), Add	34.50	
			For Work In Restricted Working Space, Add	22.50	
23 31 13	13-0890	LF	14" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	110.69	46.96
			For 3" WG (Class B), Add	11.74	
			For 4" Or 6" WG (Class A), Add	25.04	
			For 10" WG (Class A), Add	36.00	
			For Work In Restricted Working Space, Add	23.48	
23 31 13	13-0891	LF	14" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	115.31	48.91
			For 3" WG (Class B), Add	12.23	
			For 4" Or 6" WG (Class A), Add	26.09	
			For 10" WG (Class A), Add	37.50	
			For Work In Restricted Working Space, Add	24.46	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0892 LF 16" x 16", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	73.79	31.31
<i>For 3" WG (Class B), Add</i>	7.83	
<i>For 4" Or 6" WG (Class A), Add</i>	16.69	
<i>For 10" WG (Class A), Add</i>	24.00	
<i>For Work In Restricted Working Space, Add</i>	15.65	
23 31 13 13-0893 LF 16" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	78.40	33.26
<i>For 3" WG (Class B), Add</i>	8.31	
<i>For 4" Or 6" WG (Class A), Add</i>	17.74	
<i>For 10" WG (Class A), Add</i>	25.50	
<i>For Work In Restricted Working Space, Add</i>	16.63	
23 31 13 13-0894 LF 16" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	83.03	35.21
<i>For 3" WG (Class B), Add</i>	8.80	
<i>For 4" Or 6" WG (Class A), Add</i>	18.78	
<i>For 10" WG (Class A), Add</i>	27.00	
<i>For Work In Restricted Working Space, Add</i>	17.61	
23 31 13 13-0895 LF 16" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	87.64	37.17
<i>For 3" WG (Class B), Add</i>	9.29	
<i>For 4" Or 6" WG (Class A), Add</i>	19.83	
<i>For 10" WG (Class A), Add</i>	28.50	
<i>For Work In Restricted Working Space, Add</i>	18.59	
23 31 13 13-0896 LF 16" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	92.24	39.13
<i>For 3" WG (Class B), Add</i>	9.78	
<i>For 4" Or 6" WG (Class A), Add</i>	20.87	
<i>For 10" WG (Class A), Add</i>	30.00	
<i>For Work In Restricted Working Space, Add</i>	19.56	
23 31 13 13-0897 LF 16" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	96.85	41.09
<i>For 3" WG (Class B), Add</i>	10.27	
<i>For 4" Or 6" WG (Class A), Add</i>	21.91	
<i>For 10" WG (Class A), Add</i>	31.50	
<i>For Work In Restricted Working Space, Add</i>	20.54	
23 31 13 13-0898 LF 16" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	101.47	43.04
<i>For 3" WG (Class B), Add</i>	10.76	
<i>For 4" Or 6" WG (Class A), Add</i>	22.96	
<i>For 10" WG (Class A), Add</i>	33.00	
<i>For Work In Restricted Working Space, Add</i>	21.52	
23 31 13 13-0899 LF 16" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	106.09	44.99
<i>For 3" WG (Class B), Add</i>	11.25	
<i>For 4" Or 6" WG (Class A), Add</i>	24.00	
<i>For 10" WG (Class A), Add</i>	34.50	
<i>For Work In Restricted Working Space, Add</i>	22.50	
23 31 13 13-0900 LF 16" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	110.69	46.96
<i>For 3" WG (Class B), Add</i>	11.74	
<i>For 4" Or 6" WG (Class A), Add</i>	25.04	
<i>For 10" WG (Class A), Add</i>	36.00	
<i>For Work In Restricted Working Space, Add</i>	23.48	
23 31 13 13-0901 LF 16" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	115.31	48.91
<i>For 3" WG (Class B), Add</i>	12.23	
<i>For 4" Or 6" WG (Class A), Add</i>	26.09	
<i>For 10" WG (Class A), Add</i>	37.50	
<i>For Work In Restricted Working Space, Add</i>	24.46	
23 31 13 13-0902 LF 16" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	119.92	50.87
<i>For 3" WG (Class B), Add</i>	12.72	
<i>For 4" Or 6" WG (Class A), Add</i>	27.13	
<i>For 10" WG (Class A), Add</i>	39.00	
<i>For Work In Restricted Working Space, Add</i>	25.43	
23 31 13 13-0903 LF 16" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	124.51	52.82
<i>For 3" WG (Class B), Add</i>	13.20	
<i>For 4" Or 6" WG (Class A), Add</i>	28.17	
<i>For 10" WG (Class A), Add</i>	40.49	
<i>For Work In Restricted Working Space, Add</i>	26.41	
23 31 13 13-0904 LF 16" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	129.15	54.77
<i>For 3" WG (Class B), Add</i>	13.70	
<i>For 4" Or 6" WG (Class A), Add</i>	29.22	
<i>For 10" WG (Class A), Add</i>	42.00	
<i>For Work In Restricted Working Space, Add</i>	27.39	
23 31 13 13-0905 LF 16" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	133.76	56.74
<i>For 3" WG (Class B), Add</i>	14.18	
<i>For 4" Or 6" WG (Class A), Add</i>	30.26	
<i>For 10" WG (Class A), Add</i>	43.50	
<i>For Work In Restricted Working Space, Add</i>	28.37	
23 31 13 13-0906 LF 16" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	138.37	58.69
<i>For 3" WG (Class B), Add</i>	14.67	
<i>For 4" Or 6" WG (Class A), Add</i>	31.30	
<i>For 10" WG (Class A), Add</i>	45.00	
<i>For Work In Restricted Working Space, Add</i>	29.35	
23 31 13 13-0907 LF 18" x 18", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	83.03	35.21
<i>For 3" WG (Class B), Add</i>	8.80	
<i>For 4" Or 6" WG (Class A), Add</i>	18.78	
<i>For 10" WG (Class A), Add</i>	27.00	
<i>For Work In Restricted Working Space, Add</i>	17.61	
23 31 13 13-0908 LF 18" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	87.64	37.17
<i>For 3" WG (Class B), Add</i>	9.29	
<i>For 4" Or 6" WG (Class A), Add</i>	19.83	
<i>For 10" WG (Class A), Add</i>	28.50	
<i>For Work In Restricted Working Space, Add</i>	18.59	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0909	LF	18" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	92.24	39.13
			For 3" WG (Class B), Add	9.78	
			For 4" Or 6" WG (Class A), Add	20.87	
			For 10" WG (Class A), Add	30.00	
			For Work In Restricted Working Space, Add	19.56	
23 31 13	13-0910	LF	18" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	96.85	41.09
			For 3" WG (Class B), Add	10.27	
			For 4" Or 6" WG (Class A), Add	21.91	
			For 10" WG (Class A), Add	31.50	
			For Work In Restricted Working Space, Add	20.54	
23 31 13	13-0911	LF	18" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	101.47	43.04
			For 3" WG (Class B), Add	10.76	
			For 4" Or 6" WG (Class A), Add	22.96	
			For 10" WG (Class A), Add	33.00	
			For Work In Restricted Working Space, Add	21.52	
23 31 13	13-0912	LF	18" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	106.09	44.99
			For 3" WG (Class B), Add	11.25	
			For 4" Or 6" WG (Class A), Add	24.00	
			For 10" WG (Class A), Add	34.50	
			For Work In Restricted Working Space, Add	22.50	
23 31 13	13-0913	LF	18" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	110.69	46.96
			For 3" WG (Class B), Add	11.74	
			For 4" Or 6" WG (Class A), Add	25.04	
			For 10" WG (Class A), Add	36.00	
			For Work In Restricted Working Space, Add	23.48	
23 31 13	13-0914	LF	18" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	115.31	48.91
			For 3" WG (Class B), Add	12.23	
			For 4" Or 6" WG (Class A), Add	26.09	
			For 10" WG (Class A), Add	37.50	
			For Work In Restricted Working Space, Add	24.46	
23 31 13	13-0915	LF	18" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	119.92	50.87
			For 3" WG (Class B), Add	12.72	
			For 4" Or 6" WG (Class A), Add	27.13	
			For 10" WG (Class A), Add	39.00	
			For Work In Restricted Working Space, Add	25.43	
23 31 13	13-0916	LF	18" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	124.51	52.82
			For 3" WG (Class B), Add	13.20	
			For 4" Or 6" WG (Class A), Add	28.17	
			For 10" WG (Class A), Add	40.49	
			For Work In Restricted Working Space, Add	26.41	
23 31 13	13-0917	LF	18" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	129.15	54.77
			For 3" WG (Class B), Add	13.70	
			For 4" Or 6" WG (Class A), Add	29.22	
			For 10" WG (Class A), Add	42.00	
			For Work In Restricted Working Space, Add	27.39	
23 31 13	13-0918	LF	18" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	133.76	56.74
			For 3" WG (Class B), Add	14.18	
			For 4" Or 6" WG (Class A), Add	30.26	
			For 10" WG (Class A), Add	43.50	
			For Work In Restricted Working Space, Add	28.37	
23 31 13	13-0919	LF	18" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	138.37	58.69
			For 3" WG (Class B), Add	14.67	
			For 4" Or 6" WG (Class A), Add	31.30	
			For 10" WG (Class A), Add	45.00	
			For Work In Restricted Working Space, Add	29.35	
23 31 13	13-0920	LF	18" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	142.97	60.65
			For 3" WG (Class B), Add	15.16	
			For 4" Or 6" WG (Class A), Add	32.35	
			For 10" WG (Class A), Add	46.50	
			For Work In Restricted Working Space, Add	30.32	
23 31 13	13-0921	LF	18" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	147.60	62.60
			For 3" WG (Class B), Add	15.65	
			For 4" Or 6" WG (Class A), Add	33.39	
			For 10" WG (Class A), Add	48.00	
			For Work In Restricted Working Space, Add	31.30	
23 31 13	13-0922	LF	20" x 20", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	92.24	39.13
			For 3" WG (Class B), Add	9.78	
			For 4" Or 6" WG (Class A), Add	20.87	
			For 10" WG (Class A), Add	30.00	
			For Work In Restricted Working Space, Add	19.56	
23 31 13	13-0923	LF	20" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	96.85	41.09
			For 3" WG (Class B), Add	10.27	
			For 4" Or 6" WG (Class A), Add	21.91	
			For 10" WG (Class A), Add	31.50	
			For Work In Restricted Working Space, Add	20.54	
23 31 13	13-0924	LF	20" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	101.47	43.04
			For 3" WG (Class B), Add	10.76	
			For 4" Or 6" WG (Class A), Add	22.96	
			For 10" WG (Class A), Add	33.00	
			For Work In Restricted Working Space, Add	21.52	
23 31 13	13-0925	LF	20" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	106.09	44.99
			For 3" WG (Class B), Add	11.25	
			For 4" Or 6" WG (Class A), Add	24.00	
			For 10" WG (Class A), Add	34.50	
			For Work In Restricted Working Space, Add	22.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0926 LF 20" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	110.69	46.96
For 3" WG (Class B), Add	11.74	
For 4" Or 6" WG (Class A), Add	25.04	
For 10" WG (Class A), Add	36.00	
For Work In Restricted Working Space, Add	23.48	
23 31 13 13-0927 LF 20" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	115.31	48.91
For 3" WG (Class B), Add	12.23	
For 4" Or 6" WG (Class A), Add	26.09	
For 10" WG (Class A), Add	37.50	
For Work In Restricted Working Space, Add	24.46	
23 31 13 13-0928 LF 20" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	119.92	50.87
For 3" WG (Class B), Add	12.72	
For 4" Or 6" WG (Class A), Add	27.13	
For 10" WG (Class A), Add	39.00	
For Work In Restricted Working Space, Add	25.43	
23 31 13 13-0929 LF 20" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	124.51	52.82
For 3" WG (Class B), Add	13.20	
For 4" Or 6" WG (Class A), Add	28.17	
For 10" WG (Class A), Add	40.49	
For Work In Restricted Working Space, Add	26.41	
23 31 13 13-0930 LF 20" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	129.15	54.77
For 3" WG (Class B), Add	13.70	
For 4" Or 6" WG (Class A), Add	29.22	
For 10" WG (Class A), Add	42.00	
For Work In Restricted Working Space, Add	27.39	
23 31 13 13-0931 LF 20" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	133.76	56.74
For 3" WG (Class B), Add	14.18	
For 4" Or 6" WG (Class A), Add	30.26	
For 10" WG (Class A), Add	43.50	
For Work In Restricted Working Space, Add	28.37	
23 31 13 13-0932 LF 20" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	138.37	58.69
For 3" WG (Class B), Add	14.67	
For 4" Or 6" WG (Class A), Add	31.30	
For 10" WG (Class A), Add	45.00	
For Work In Restricted Working Space, Add	29.35	
23 31 13 13-0933 LF 20" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	142.97	60.65
For 3" WG (Class B), Add	15.16	
For 4" Or 6" WG (Class A), Add	32.35	
For 10" WG (Class A), Add	46.50	
For Work In Restricted Working Space, Add	30.32	
23 31 13 13-0934 LF 20" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	147.60	62.60
For 3" WG (Class B), Add	15.65	
For 4" Or 6" WG (Class A), Add	33.39	
For 10" WG (Class A), Add	48.00	
For Work In Restricted Working Space, Add	31.30	
23 31 13 13-0935 LF 20" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	152.21	64.56
For 3" WG (Class B), Add	16.14	
For 4" Or 6" WG (Class A), Add	34.43	
For 10" WG (Class A), Add	49.50	
For Work In Restricted Working Space, Add	32.28	
23 31 13 13-0936 LF 20" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	156.82	66.52
For 3" WG (Class B), Add	16.63	
For 4" Or 6" WG (Class A), Add	35.48	
For 10" WG (Class A), Add	51.00	
For Work In Restricted Working Space, Add	33.26	
23 31 13 13-0937 LF 22" x 22", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	101.47	43.04
For 3" WG (Class B), Add	10.76	
For 4" Or 6" WG (Class A), Add	22.96	
For 10" WG (Class A), Add	33.00	
For Work In Restricted Working Space, Add	21.52	
23 31 13 13-0938 LF 22" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	106.09	44.99
For 3" WG (Class B), Add	11.25	
For 4" Or 6" WG (Class A), Add	24.00	
For 10" WG (Class A), Add	34.50	
For Work In Restricted Working Space, Add	22.50	
23 31 13 13-0939 LF 22" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	110.69	46.96
For 3" WG (Class B), Add	11.74	
For 4" Or 6" WG (Class A), Add	25.04	
For 10" WG (Class A), Add	36.00	
For Work In Restricted Working Space, Add	23.48	
23 31 13 13-0940 LF 22" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	115.31	48.91
For 3" WG (Class B), Add	12.23	
For 4" Or 6" WG (Class A), Add	26.09	
For 10" WG (Class A), Add	37.50	
For Work In Restricted Working Space, Add	24.46	
23 31 13 13-0941 LF 22" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	119.92	50.87
For 3" WG (Class B), Add	12.72	
For 4" Or 6" WG (Class A), Add	27.13	
For 10" WG (Class A), Add	39.00	
For Work In Restricted Working Space, Add	25.43	
23 31 13 13-0942 LF 22" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	124.51	52.82
For 3" WG (Class B), Add	13.20	
For 4" Or 6" WG (Class A), Add	28.17	
For 10" WG (Class A), Add	40.49	
For Work In Restricted Working Space, Add	26.41	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0943	LF	22" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	129.15	54.77
			For 3" WG (Class B), Add	13.70	
			For 4" Or 6" WG (Class A), Add	29.22	
			For 10" WG (Class A), Add	42.00	
			For Work In Restricted Working Space, Add	27.39	
23 31 13	13-0944	LF	22" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	133.76	56.74
			For 3" WG (Class B), Add	14.18	
			For 4" Or 6" WG (Class A), Add	30.26	
			For 10" WG (Class A), Add	43.50	
			For Work In Restricted Working Space, Add	28.37	
23 31 13	13-0945	LF	22" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	138.37	58.69
			For 3" WG (Class B), Add	14.67	
			For 4" Or 6" WG (Class A), Add	31.30	
			For 10" WG (Class A), Add	45.00	
			For Work In Restricted Working Space, Add	29.35	
23 31 13	13-0946	LF	22" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	142.97	60.65
			For 3" WG (Class B), Add	15.16	
			For 4" Or 6" WG (Class A), Add	32.35	
			For 10" WG (Class A), Add	46.50	
			For Work In Restricted Working Space, Add	30.32	
23 31 13	13-0947	LF	22" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	147.60	62.60
			For 3" WG (Class B), Add	15.65	
			For 4" Or 6" WG (Class A), Add	33.39	
			For 10" WG (Class A), Add	48.00	
			For Work In Restricted Working Space, Add	31.30	
23 31 13	13-0948	LF	22" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	152.21	64.56
			For 3" WG (Class B), Add	16.14	
			For 4" Or 6" WG (Class A), Add	34.43	
			For 10" WG (Class A), Add	49.50	
			For Work In Restricted Working Space, Add	32.28	
23 31 13	13-0949	LF	22" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	156.82	66.52
			For 3" WG (Class B), Add	16.63	
			For 4" Or 6" WG (Class A), Add	35.48	
			For 10" WG (Class A), Add	51.00	
			For Work In Restricted Working Space, Add	33.26	
23 31 13	13-0950	LF	22" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	161.42	68.47
			For 3" WG (Class B), Add	17.12	
			For 4" Or 6" WG (Class A), Add	36.52	
			For 10" WG (Class A), Add	52.50	
			For Work In Restricted Working Space, Add	34.24	
23 31 13	13-0951	LF	24" x 24", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	110.69	46.96
			For 3" WG (Class B), Add	11.74	
			For 4" Or 6" WG (Class A), Add	25.04	
			For 10" WG (Class A), Add	36.00	
			For Work In Restricted Working Space, Add	23.48	
23 31 13	13-0952	LF	24" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	115.31	48.91
			For 3" WG (Class B), Add	12.23	
			For 4" Or 6" WG (Class A), Add	26.09	
			For 10" WG (Class A), Add	37.50	
			For Work In Restricted Working Space, Add	24.46	
23 31 13	13-0953	LF	24" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	119.92	50.87
			For 3" WG (Class B), Add	12.72	
			For 4" Or 6" WG (Class A), Add	27.13	
			For 10" WG (Class A), Add	39.00	
			For Work In Restricted Working Space, Add	25.43	
23 31 13	13-0954	LF	24" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	124.51	52.82
			For 3" WG (Class B), Add	13.20	
			For 4" Or 6" WG (Class A), Add	28.17	
			For 10" WG (Class A), Add	40.49	
			For Work In Restricted Working Space, Add	26.41	
23 31 13	13-0955	LF	24" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	129.15	54.77
			For 3" WG (Class B), Add	13.70	
			For 4" Or 6" WG (Class A), Add	29.22	
			For 10" WG (Class A), Add	42.00	
			For Work In Restricted Working Space, Add	27.39	
23 31 13	13-0956	LF	24" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	133.76	56.74
			For 3" WG (Class B), Add	14.18	
			For 4" Or 6" WG (Class A), Add	30.26	
			For 10" WG (Class A), Add	43.50	
			For Work In Restricted Working Space, Add	28.37	
23 31 13	13-0957	LF	24" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	138.37	58.69
			For 3" WG (Class B), Add	14.67	
			For 4" Or 6" WG (Class A), Add	31.30	
			For 10" WG (Class A), Add	45.00	
			For Work In Restricted Working Space, Add	29.35	
23 31 13	13-0958	LF	24" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	142.97	60.65
			For 3" WG (Class B), Add	15.16	
			For 4" Or 6" WG (Class A), Add	32.35	
			For 10" WG (Class A), Add	46.50	
			For Work In Restricted Working Space, Add	30.32	
23 31 13	13-0959	LF	24" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	147.60	62.60
			For 3" WG (Class B), Add	15.65	
			For 4" Or 6" WG (Class A), Add	33.39	
			For 10" WG (Class A), Add	48.00	
			For Work In Restricted Working Space, Add	31.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0960 LF 24" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	152.21 16.14 34.43 49.50 32.28	64.56
23 31 13 13-0961 LF 24" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	156.82 16.63 35.48 51.00 33.26	66.52
23 31 13 13-0962 LF 24" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	161.42 17.12 36.52 52.50 34.24	68.47
23 31 13 13-0963 LF 24" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	166.03 17.61 37.56 53.99 35.21	70.43
23 31 13 13-0964 LF 26" x 26", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	119.92 12.72 27.13 39.00 25.43	50.87
23 31 13 13-0965 LF 26" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	124.51 13.20 28.17 40.49 26.41	52.82
23 31 13 13-0966 LF 26" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	129.15 13.70 29.22 42.00 27.39	54.77
23 31 13 13-0967 LF 26" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	133.76 14.18 30.26 43.50 28.37	56.74
23 31 13 13-0968 LF 26" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	138.37 14.67 31.30 45.00 29.35	58.69
23 31 13 13-0969 LF 26" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	142.97 15.16 32.35 46.50 30.32	60.65
23 31 13 13-0970 LF 26" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	147.60 15.65 33.39 48.00 31.30	62.60
23 31 13 13-0971 LF 26" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	152.21 16.14 34.43 49.50 32.28	64.56
23 31 13 13-0972 LF 26" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	156.82 16.63 35.48 51.00 33.26	66.52
23 31 13 13-0973 LF 26" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	161.42 17.12 36.52 52.50 34.24	68.47
23 31 13 13-0974 LF 26" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	166.03 17.61 37.56 53.99 35.21	70.43
23 31 13 13-0975 LF 26" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	170.67 18.10 38.61 55.50 36.20	72.39
23 31 13 13-0976 LF 28" x 28", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	129.15 13.70 29.22 42.00 27.39	54.77

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13	13-0977	LF	28" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	133.76	56.74
			<i>For 3" WG (Class B), Add</i>	14.18	
			<i>For 4" Or 6" WG (Class A), Add</i>	30.26	
			<i>For 10" WG (Class A), Add</i>	43.50	
			<i>For Work In Restricted Working Space, Add</i>	28.37	
23 31 13	13-0978	LF	28" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	138.37	58.69
			<i>For 3" WG (Class B), Add</i>	14.67	
			<i>For 4" Or 6" WG (Class A), Add</i>	31.30	
			<i>For 10" WG (Class A), Add</i>	45.00	
			<i>For Work In Restricted Working Space, Add</i>	29.35	
23 31 13	13-0979	LF	28" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	142.97	60.65
			<i>For 3" WG (Class B), Add</i>	15.16	
			<i>For 4" Or 6" WG (Class A), Add</i>	32.35	
			<i>For 10" WG (Class A), Add</i>	46.50	
			<i>For Work In Restricted Working Space, Add</i>	30.32	
23 31 13	13-0980	LF	28" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	147.60	62.60
			<i>For 3" WG (Class B), Add</i>	15.65	
			<i>For 4" Or 6" WG (Class A), Add</i>	33.39	
			<i>For 10" WG (Class A), Add</i>	48.00	
			<i>For Work In Restricted Working Space, Add</i>	31.30	
23 31 13	13-0981	LF	28" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	152.21	64.56
			<i>For 3" WG (Class B), Add</i>	16.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
			<i>For 10" WG (Class A), Add</i>	49.50	
			<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13	13-0982	LF	28" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	156.82	66.52
			<i>For 3" WG (Class B), Add</i>	16.63	
			<i>For 4" Or 6" WG (Class A), Add</i>	35.48	
			<i>For 10" WG (Class A), Add</i>	51.00	
			<i>For Work In Restricted Working Space, Add</i>	33.26	
23 31 13	13-0983	LF	28" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	161.42	68.47
			<i>For 3" WG (Class B), Add</i>	17.12	
			<i>For 4" Or 6" WG (Class A), Add</i>	36.52	
			<i>For 10" WG (Class A), Add</i>	52.50	
			<i>For Work In Restricted Working Space, Add</i>	34.24	
23 31 13	13-0984	LF	28" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	166.03	70.43
			<i>For 3" WG (Class B), Add</i>	17.61	
			<i>For 4" Or 6" WG (Class A), Add</i>	37.56	
			<i>For 10" WG (Class A), Add</i>	53.99	
			<i>For Work In Restricted Working Space, Add</i>	35.21	
23 31 13	13-0985	LF	28" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	170.67	72.39
			<i>For 3" WG (Class B), Add</i>	18.10	
			<i>For 4" Or 6" WG (Class A), Add</i>	38.61	
			<i>For 10" WG (Class A), Add</i>	55.50	
			<i>For Work In Restricted Working Space, Add</i>	36.20	
23 31 13	13-0986	LF	28" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	175.27	74.34
			<i>For 3" WG (Class B), Add</i>	18.59	
			<i>For 4" Or 6" WG (Class A), Add</i>	39.65	
			<i>For 10" WG (Class A), Add</i>	56.99	
			<i>For Work In Restricted Working Space, Add</i>	37.17	
23 31 13	13-0987	LF	30" x 30", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	138.37	58.69
			<i>For 3" WG (Class B), Add</i>	14.67	
			<i>For 4" Or 6" WG (Class A), Add</i>	31.30	
			<i>For 10" WG (Class A), Add</i>	45.00	
			<i>For Work In Restricted Working Space, Add</i>	29.35	
23 31 13	13-0988	LF	30" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	142.97	60.65
			<i>For 3" WG (Class B), Add</i>	15.16	
			<i>For 4" Or 6" WG (Class A), Add</i>	32.35	
			<i>For 10" WG (Class A), Add</i>	46.50	
			<i>For Work In Restricted Working Space, Add</i>	30.32	
23 31 13	13-0989	LF	30" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	147.60	62.60
			<i>For 3" WG (Class B), Add</i>	15.65	
			<i>For 4" Or 6" WG (Class A), Add</i>	33.39	
			<i>For 10" WG (Class A), Add</i>	48.00	
			<i>For Work In Restricted Working Space, Add</i>	31.30	
23 31 13	13-0990	LF	30" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	152.21	64.56
			<i>For 3" WG (Class B), Add</i>	16.14	
			<i>For 4" Or 6" WG (Class A), Add</i>	34.43	
			<i>For 10" WG (Class A), Add</i>	49.50	
			<i>For Work In Restricted Working Space, Add</i>	32.28	
23 31 13	13-0991	LF	30" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	156.82	66.52
			<i>For 3" WG (Class B), Add</i>	16.63	
			<i>For 4" Or 6" WG (Class A), Add</i>	35.48	
			<i>For 10" WG (Class A), Add</i>	51.00	
			<i>For Work In Restricted Working Space, Add</i>	33.26	
23 31 13	13-0992	LF	30" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	161.42	68.47
			<i>For 3" WG (Class B), Add</i>	17.12	
			<i>For 4" Or 6" WG (Class A), Add</i>	36.52	
			<i>For 10" WG (Class A), Add</i>	52.50	
			<i>For Work In Restricted Working Space, Add</i>	34.24	
23 31 13	13-0993	LF	30" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	166.03	70.43
			<i>For 3" WG (Class B), Add</i>	17.61	
			<i>For 4" Or 6" WG (Class A), Add</i>	37.56	
			<i>For 10" WG (Class A), Add</i>	53.99	
			<i>For Work In Restricted Working Space, Add</i>	35.21	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-0994 LF 30" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	170.67 18.10 38.61 55.50 36.20	72.39
23 31 13 13-0995 LF 30" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	175.27 18.59 39.65 56.99 37.17	74.34
23 31 13 13-0996 LF 30" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	179.87 19.07 40.69 58.49 38.15	76.30
23 31 13 13-0997 LF 32" x 32", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	147.60 15.65 33.39 48.00 31.30	62.60
23 31 13 13-0998 LF 32" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	152.21 16.14 34.43 49.50 32.28	64.56
23 31 13 13-0999 LF 32" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	156.82 16.63 35.48 51.00 33.26	66.52
23 31 13 13-1000 LF 32" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	161.42 17.12 36.52 52.50 34.24	68.47
23 31 13 13-1001 LF 32" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	166.03 17.61 37.56 53.99 35.21	70.43
23 31 13 13-1002 LF 32" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	170.67 18.10 38.61 55.50 36.20	72.39
23 31 13 13-1003 LF 32" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	175.27 18.59 39.65 56.99 37.17	74.34
23 31 13 13-1004 LF 32" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	179.87 19.07 40.69 58.49 38.15	76.30
23 31 13 13-1005 LF 32" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	184.49 19.56 41.74 60.00 39.13	78.25
23 31 13 13-1006 LF 34" x 34", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	156.82 16.63 35.48 51.00 33.26	66.52
23 31 13 13-1007 LF 34" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	161.42 17.12 36.52 52.50 34.24	68.47
23 31 13 13-1008 LF 34" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	166.03 17.61 37.56 53.99 35.21	70.43
23 31 13 13-1009 LF 34" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	170.67 18.10 38.61 55.50 36.20	72.39
23 31 13 13-1010 LF 34" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	175.27 18.59 39.65 56.99 37.17	74.34

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-1011	LF 34" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	179.87 19.07 40.69 58.49 38.15	76.30
23 31	13	13-1012	LF 34" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	184.49 19.56 41.74 60.00 39.13	78.25
23 31	13	13-1013	LF 34" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	189.09 20.05 42.78 61.49 40.10	80.21
23 31	13	13-1014	LF 36" x 36", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	166.03 17.61 37.56 53.99 35.21	70.43
23 31	13	13-1015	LF 36" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	170.67 18.10 38.61 55.50 36.20	72.39
23 31	13	13-1016	LF 36" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	175.27 18.59 39.65 56.99 37.17	74.34
23 31	13	13-1017	LF 36" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	179.87 19.07 40.69 58.49 38.15	76.30
23 31	13	13-1018	LF 36" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	184.49 19.56 41.74 60.00 39.13	78.25
23 31	13	13-1019	LF 36" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	189.09 20.05 42.78 61.49 40.10	80.21
23 31	13	13-1020	LF 36" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	193.73 20.54 43.82 63.00 41.09	82.17
23 31	13	13-1021	LF 38" x 38", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	175.27 18.59 39.65 56.99 37.17	74.34
23 31	13	13-1022	LF 38" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	179.87 19.07 40.69 58.49 38.15	76.30
23 31	13	13-1023	LF 38" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	184.49 19.56 41.74 60.00 39.13	78.25
23 31	13	13-1024	LF 38" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	189.09 20.05 42.78 61.49 40.10	80.21
23 31	13	13-1025	LF 38" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	193.73 20.54 43.82 63.00 41.09	82.17
23 31	13	13-1026	LF 38" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	198.33 21.03 44.87 64.50 42.06	84.13
23 31	13	13-1027	LF 38" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	202.94 21.52 45.91 66.00 43.04	86.08



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1028 LF 40" x 40", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	184.49	78.25
<i>For 3" WG (Class B), Add</i>	19.56	
<i>For 4" Or 6" WG (Class A), Add</i>	41.74	
<i>For 10" WG (Class A), Add</i>	60.00	
<i>For Work In Restricted Working Space, Add</i>	39.13	
23 31 13 13-1029 LF 40" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	189.09	80.21
<i>For 3" WG (Class B), Add</i>	20.05	
<i>For 4" Or 6" WG (Class A), Add</i>	42.78	
<i>For 10" WG (Class A), Add</i>	61.49	
<i>For Work In Restricted Working Space, Add</i>	40.10	
23 31 13 13-1030 LF 40" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	193.73	82.17
<i>For 3" WG (Class B), Add</i>	20.54	
<i>For 4" Or 6" WG (Class A), Add</i>	43.82	
<i>For 10" WG (Class A), Add</i>	63.00	
<i>For Work In Restricted Working Space, Add</i>	41.09	
23 31 13 13-1031 LF 40" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	198.33	84.13
<i>For 3" WG (Class B), Add</i>	21.03	
<i>For 4" Or 6" WG (Class A), Add</i>	44.87	
<i>For 10" WG (Class A), Add</i>	64.50	
<i>For Work In Restricted Working Space, Add</i>	42.06	
23 31 13 13-1032 LF 40" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	202.94	86.08
<i>For 3" WG (Class B), Add</i>	21.52	
<i>For 4" Or 6" WG (Class A), Add</i>	45.91	
<i>For 10" WG (Class A), Add</i>	66.00	
<i>For Work In Restricted Working Space, Add</i>	43.04	
23 31 13 13-1033 LF 40" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	207.55	88.03
<i>For 3" WG (Class B), Add</i>	22.01	
<i>For 4" Or 6" WG (Class A), Add</i>	46.95	
<i>For 10" WG (Class A), Add</i>	67.50	
<i>For Work In Restricted Working Space, Add</i>	44.02	
23 31 13 13-1034 LF 40" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	212.16	90.00
<i>For 3" WG (Class B), Add</i>	22.50	
<i>For 4" Or 6" WG (Class A), Add</i>	48.00	
<i>For 10" WG (Class A), Add</i>	69.00	
<i>For Work In Restricted Working Space, Add</i>	45.00	
23 31 13 13-1035 LF 40" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	216.78	91.95
<i>For 3" WG (Class B), Add</i>	22.99	
<i>For 4" Or 6" WG (Class A), Add</i>	49.04	
<i>For 10" WG (Class A), Add</i>	70.50	
<i>For Work In Restricted Working Space, Add</i>	45.98	
23 31 13 13-1036 LF 40" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	221.39	93.91
<i>For 3" WG (Class B), Add</i>	23.48	
<i>For 4" Or 6" WG (Class A), Add</i>	50.08	
<i>For 10" WG (Class A), Add</i>	71.99	
<i>For Work In Restricted Working Space, Add</i>	46.95	
23 31 13 13-1037 LF 42" x 42", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	193.73	82.17
<i>For 3" WG (Class B), Add</i>	20.54	
<i>For 4" Or 6" WG (Class A), Add</i>	43.82	
<i>For 10" WG (Class A), Add</i>	63.00	
<i>For Work In Restricted Working Space, Add</i>	41.09	
23 31 13 13-1038 LF 42" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	198.33	84.13
<i>For 3" WG (Class B), Add</i>	21.03	
<i>For 4" Or 6" WG (Class A), Add</i>	44.87	
<i>For 10" WG (Class A), Add</i>	64.50	
<i>For Work In Restricted Working Space, Add</i>	42.06	
23 31 13 13-1039 LF 42" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	202.94	86.08
<i>For 3" WG (Class B), Add</i>	21.52	
<i>For 4" Or 6" WG (Class A), Add</i>	45.91	
<i>For 10" WG (Class A), Add</i>	66.00	
<i>For Work In Restricted Working Space, Add</i>	43.04	
23 31 13 13-1040 LF 42" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	207.55	88.03
<i>For 3" WG (Class B), Add</i>	22.01	
<i>For 4" Or 6" WG (Class A), Add</i>	46.95	
<i>For 10" WG (Class A), Add</i>	67.50	
<i>For Work In Restricted Working Space, Add</i>	44.02	
23 31 13 13-1041 LF 42" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	212.16	90.00
<i>For 3" WG (Class B), Add</i>	22.50	
<i>For 4" Or 6" WG (Class A), Add</i>	48.00	
<i>For 10" WG (Class A), Add</i>	69.00	
<i>For Work In Restricted Working Space, Add</i>	45.00	
23 31 13 13-1042 LF 42" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	216.78	91.95
<i>For 3" WG (Class B), Add</i>	22.99	
<i>For 4" Or 6" WG (Class A), Add</i>	49.04	
<i>For 10" WG (Class A), Add</i>	70.50	
<i>For Work In Restricted Working Space, Add</i>	45.98	
23 31 13 13-1043 LF 42" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	221.39	93.91
<i>For 3" WG (Class B), Add</i>	23.48	
<i>For 4" Or 6" WG (Class A), Add</i>	50.08	
<i>For 10" WG (Class A), Add</i>	71.99	
<i>For Work In Restricted Working Space, Add</i>	46.95	
23 31 13 13-1044 LF 42" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	226.00	95.86
<i>For 3" WG (Class B), Add</i>	23.97	
<i>For 4" Or 6" WG (Class A), Add</i>	51.13	
<i>For 10" WG (Class A), Add</i>	73.49	
<i>For Work In Restricted Working Space, Add</i>	47.93	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-1045	LF 44" x 44", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	202.94 21.52 45.91 66.00 43.04	86.08
23 31	13	13-1046	LF 44" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	207.55 22.01 46.95 67.50 44.02	88.03
23 31	13	13-1047	LF 44" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	212.16 22.50 48.00 69.00 45.00	90.00
23 31	13	13-1048	LF 44" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	216.78 22.99 49.04 70.50 45.98	91.95
23 31	13	13-1049	LF 44" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	221.39 23.48 50.08 71.99 46.95	93.91
23 31	13	13-1050	LF 44" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	226.00 23.97 51.13 73.49 47.93	95.86
23 31	13	13-1051	LF 44" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	230.61 24.45 52.17 74.99 48.91	97.82
23 31	13	13-1052	LF 46" x 46", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	212.16 22.50 48.00 69.00 45.00	90.00
23 31	13	13-1053	LF 46" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	216.78 22.99 49.04 70.50 45.98	91.95
23 31	13	13-1054	LF 46" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	221.39 23.48 50.08 71.99 46.95	93.91
23 31	13	13-1055	LF 46" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	226.00 23.97 51.13 73.49 47.93	95.86
23 31	13	13-1056	LF 46" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	230.61 24.45 52.17 74.99 48.91	97.82
23 31	13	13-1057	LF 46" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	235.22 24.95 53.22 76.50 49.89	99.78
23 31	13	13-1058	LF 46" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	239.84 25.43 54.26 77.99 50.87	101.73
23 31	13	13-1059	LF 48" x 48", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	221.39 23.48 50.08 71.99 46.95	93.91
23 31	13	13-1060	LF 48" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	226.00 23.97 51.13 73.49 47.93	95.86
23 31	13	13-1061	LF 48" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	230.61 24.45 52.17 74.99 48.91	97.82



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1062 LF 48" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	235.22 24.95 53.22 76.50 49.89	99.78
23 31 13 13-1063 LF 48" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	239.84 25.43 54.26 77.99 50.87	101.73
23 31 13 13-1064 LF 48" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	244.45 25.92 55.30 79.49 51.84	103.69
23 31 13 13-1065 LF 48" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	249.07 26.41 56.35 81.00 52.82	105.64
23 31 13 13-1066 LF 50" x 50", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	230.61 24.45 52.17 74.99 48.91	97.82
23 31 13 13-1067 LF 50" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	235.22 24.95 53.22 76.50 49.89	99.78
23 31 13 13-1068 LF 50" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	239.84 25.43 54.26 77.99 50.87	101.73
23 31 13 13-1069 LF 50" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	244.45 25.92 55.30 79.49 51.84	103.69
23 31 13 13-1070 LF 50" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	249.07 26.41 56.35 81.00 52.82	105.64
23 31 13 13-1071 LF 50" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	253.66 26.90 57.39 82.49 53.80	107.60
23 31 13 13-1072 LF 52" x 52", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	239.84 25.43 54.26 77.99 50.87	101.73
23 31 13 13-1073 LF 52" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	244.45 25.92 55.30 79.49 51.84	103.69
23 31 13 13-1074 LF 52" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	249.07 26.41 56.35 81.00 52.82	105.64
23 31 13 13-1075 LF 52" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	253.66 26.90 57.39 82.49 53.80	107.60
23 31 13 13-1076 LF 52" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	258.27 27.39 58.43 83.99 54.78	109.56
23 31 13 13-1077 LF 54" x 54", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	249.07 26.41 56.35 81.00 52.82	105.64
23 31 13 13-1078 LF 54" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	253.66 26.90 57.39 82.49 53.80	107.60

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13	13-1079	LF 54" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	258.27 27.39 58.43 83.99 54.78	109.56
23 31	13	13-1080	LF 54" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	262.91 27.88 59.48 85.50 55.76	111.51
23 31	13	13-1081	LF 54" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	267.52 28.37 60.52 87.00 56.74	113.47
23 31	13	13-1082	LF 54" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	272.11 28.86 61.56 88.49 57.71	115.43
23 31	13	13-1083	LF 56" x 56", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	258.27 27.39 58.43 83.99 54.78	109.56
23 31	13	13-1084	LF 56" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	262.91 27.88 59.48 85.50 55.76	111.51
23 31	13	13-1085	LF 56" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	267.52 28.37 60.52 87.00 56.74	113.47
23 31	13	13-1086	LF 56" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	272.11 28.86 61.56 88.49 57.71	115.43
23 31	13	13-1087	LF 56" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	276.73 29.35 62.60 89.99 58.69	117.38
23 31	13	13-1088	LF 58" x 58", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	267.52 28.37 60.52 87.00 56.74	113.47
23 31	13	13-1089	LF 58" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	272.11 28.86 61.56 88.49 57.71	115.43
23 31	13	13-1090	LF 58" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	276.73 29.35 62.60 89.99 58.69	117.38
23 31	13	13-1091	LF 58" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	281.34 29.84 63.65 91.49 59.67	119.34
23 31	13	13-1092	LF 58" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	285.96 30.32 64.69 92.99 60.65	121.29
23 31	13	13-1093	LF 60" x 60", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	276.73 29.35 62.60 89.99 58.69	117.38
23 31	13	13-1094	LF 60" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	281.34 29.84 63.65 91.49 59.67	119.34
23 31	13	13-1095	LF 60" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork For 3" WG (Class B), Add For 4" Or 6" WG (Class A), Add For 10" WG (Class A), Add For Work In Restricted Working Space, Add	285.96 30.32 64.69 92.99 60.65	121.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1096 LF 60" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	290.57 30.81 65.73 94.49 61.63	123.26
23 31 13 13-1097 LF 60" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	295.18 31.30 66.78 95.99 62.60	125.21
23 31 13 13-1098 LF 62" x 62", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	285.96 30.32 64.69 92.99 60.65	121.29
23 31 13 13-1099 LF 62" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	290.57 30.81 65.73 94.49 61.63	123.26
23 31 13 13-1100 LF 62" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	295.18 31.30 66.78 95.99 62.60	125.21
23 31 13 13-1101 LF 62" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	299.79 31.79 67.82 97.49 63.58	127.16
23 31 13 13-1102 LF 62" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	304.40 32.28 68.86 98.99 64.56	129.12
23 31 13 13-1103 LF 64" x 64", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	295.18 31.30 66.78 95.99 62.60	125.21
23 31 13 13-1104 LF 64" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	299.79 31.79 67.82 97.49 63.58	127.16
23 31 13 13-1105 LF 64" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	304.40 32.28 68.86 98.99 64.56	129.12
23 31 13 13-1106 LF 64" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	309.02 32.77 69.91 100.49 65.54	131.07
23 31 13 13-1107 LF 66" x 66", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	304.40 32.28 68.86 98.99 64.56	129.12
23 31 13 13-1108 LF 66" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	309.02 32.77 69.91 100.49 65.54	131.07
23 31 13 13-1109 LF 66" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	313.63 33.26 70.95 101.99 66.52	133.04
23 31 13 13-1110 LF 66" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	318.25 33.75 72.00 103.50 67.50	134.99
23 31 13 13-1111 LF 68" x 68", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	313.63 33.26 70.95 101.99 66.52	133.04
23 31 13 13-1112 LF 68" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	318.25 33.75 72.00 103.50 67.50	134.99

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1113	LF	68" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	322.85	136.95
		For 3" WG (Class B), Add		34.24	
		For 4" Or 6" WG (Class A), Add		73.04	
		For 10" WG (Class A), Add		104.99	
		For Work In Restricted Working Space, Add		68.47	
23 31 13 13-1114	LF	68" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	327.46	138.90
		For 3" WG (Class B), Add		34.73	
		For 4" Or 6" WG (Class A), Add		74.08	
		For 10" WG (Class A), Add		106.49	
		For Work In Restricted Working Space, Add		69.45	
23 31 13 13-1115	LF	70" x 70", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	322.85	136.95
		For 3" WG (Class B), Add		34.24	
		For 4" Or 6" WG (Class A), Add		73.04	
		For 10" WG (Class A), Add		104.99	
		For Work In Restricted Working Space, Add		68.47	
23 31 13 13-1116	LF	70" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	327.46	138.90
		For 3" WG (Class B), Add		34.73	
		For 4" Or 6" WG (Class A), Add		74.08	
		For 10" WG (Class A), Add		106.49	
		For Work In Restricted Working Space, Add		69.45	
23 31 13 13-1117	LF	70" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	332.09	140.86
		For 3" WG (Class B), Add		35.22	
		For 4" Or 6" WG (Class A), Add		75.13	
		For 10" WG (Class A), Add		107.99	
		For Work In Restricted Working Space, Add		70.43	
23 31 13 13-1118	LF	70" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	336.69	142.82
		For 3" WG (Class B), Add		35.70	
		For 4" Or 6" WG (Class A), Add		76.17	
		For 10" WG (Class A), Add		109.49	
		For Work In Restricted Working Space, Add		71.41	
23 31 13 13-1119	LF	70" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	341.31	144.77
		For 3" WG (Class B), Add		36.19	
		For 4" Or 6" WG (Class A), Add		77.21	
		For 10" WG (Class A), Add		110.99	
		For Work In Restricted Working Space, Add		72.39	
23 31 13 13-1120	LF	70" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	345.91	146.73
		For 3" WG (Class B), Add		36.68	
		For 4" Or 6" WG (Class A), Add		78.26	
		For 10" WG (Class A), Add		112.49	
		For Work In Restricted Working Space, Add		73.37	
23 31 13 13-1121	LF	70" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	350.52	148.69
		For 3" WG (Class B), Add		37.17	
		For 4" Or 6" WG (Class A), Add		79.30	
		For 10" WG (Class A), Add		113.99	
		For Work In Restricted Working Space, Add		74.34	
23 31 13 13-1122	LF	70" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	355.15	150.64
		For 3" WG (Class B), Add		37.66	
		For 4" Or 6" WG (Class A), Add		80.34	
		For 10" WG (Class A), Add		115.49	
		For Work In Restricted Working Space, Add		75.32	
23 31 13 13-1123	LF	70" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	359.76	152.60
		For 3" WG (Class B), Add		38.15	
		For 4" Or 6" WG (Class A), Add		81.39	
		For 10" WG (Class A), Add		116.99	
		For Work In Restricted Working Space, Add		76.30	
23 31 13 13-1124	LF	72" x 72", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	332.09	140.86
		For 3" WG (Class B), Add		35.22	
		For 4" Or 6" WG (Class A), Add		75.13	
		For 10" WG (Class A), Add		107.99	
		For Work In Restricted Working Space, Add		70.43	
23 31 13 13-1125	LF	72" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	336.69	142.82
		For 3" WG (Class B), Add		35.70	
		For 4" Or 6" WG (Class A), Add		76.17	
		For 10" WG (Class A), Add		109.49	
		For Work In Restricted Working Space, Add		71.41	
23 31 13 13-1126	LF	72" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	341.31	144.77
		For 3" WG (Class B), Add		36.19	
		For 4" Or 6" WG (Class A), Add		77.21	
		For 10" WG (Class A), Add		110.99	
		For Work In Restricted Working Space, Add		72.39	
23 31 13 13-1127	LF	72" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	345.91	146.73
		For 3" WG (Class B), Add		36.68	
		For 4" Or 6" WG (Class A), Add		78.26	
		For 10" WG (Class A), Add		112.49	
		For Work In Restricted Working Space, Add		73.37	
23 31 13 13-1128	LF	72" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	350.52	148.69
		For 3" WG (Class B), Add		37.17	
		For 4" Or 6" WG (Class A), Add		79.30	
		For 10" WG (Class A), Add		113.99	
		For Work In Restricted Working Space, Add		74.34	
23 31 13 13-1129	LF	72" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork	.....	355.15	150.64
		For 3" WG (Class B), Add		37.66	
		For 4" Or 6" WG (Class A), Add		80.34	
		For 10" WG (Class A), Add		115.49	
		For Work In Restricted Working Space, Add		75.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 13-1130 LF 72" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	359.76 38.15 81.39 116.99 76.30	152.60
23 31 13 13-1131 LF 72" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	364.36 38.64 82.43 118.49 77.28	154.55
23 31 13 13-1132 LF 74" x 74", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	341.31 36.19 77.21 110.99 72.39	144.77
23 31 13 13-1133 LF 74" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	345.91 36.68 78.26 112.49 73.37	146.73
23 31 13 13-1134 LF 74" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	350.52 37.17 79.30 113.99 74.34	148.69
23 31 13 13-1135 LF 74" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	355.15 37.66 80.34 115.49 75.32	150.64
23 31 13 13-1136 LF 74" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	359.76 38.15 81.39 116.99 76.30	152.60
23 31 13 13-1137 LF 74" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	364.36 38.64 82.43 118.49 77.28	154.55
23 31 13 13-1138 LF 74" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	368.97 39.13 83.47 119.99 78.26	156.51
23 31 13 13-1139 LF 76" x 76", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	350.52 37.17 79.30 113.99 74.34	148.69
23 31 13 13-1140 LF 76" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	355.15 37.66 80.34 115.49 75.32	150.64
23 31 13 13-1141 LF 76" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	359.76 38.15 81.39 116.99 76.30	152.60
23 31 13 13-1142 LF 76" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	364.36 38.64 82.43 118.49 77.28	154.55
23 31 13 13-1143 LF 76" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	368.97 39.13 83.47 119.99 78.26	156.51
23 31 13 13-1144 LF 76" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	373.58 39.62 84.52 121.49 79.23	158.47
23 31 13 13-1145 LF 78" x 78", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	359.76 38.15 81.39 116.99 76.30	152.60
23 31 13 13-1146 LF 78" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	364.36 38.64 82.43 118.49 77.28	154.55

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 31 13 13-1147	LF 78" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	368.97 39.13 83.47 119.99 78.26	156.51
23 31 13 13-1148	LF 78" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	373.58 39.62 84.52 121.49 79.23	158.47
23 31 13 13-1149	LF 80" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	378.21 40.11 85.56 122.99 80.21	160.42
23 31 13 13-1150	LF 80" x 80", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	368.97 39.13 83.47 119.99 78.26	156.51
23 31 13 13-1151	LF 80" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	373.58 39.62 84.52 121.49 79.23	158.47
23 31 13 13-1152	LF 80" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	378.21 40.11 85.56 122.99 80.21	160.42
23 31 13 13-1153	LF 80" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	382.82 40.60 86.60 124.49 81.19	162.38
23 31 13 13-1154	LF 82" x 82", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	378.21 40.11 85.56 122.99 80.21	160.42
23 31 13 13-1155	LF 82" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	382.82 40.60 86.60 124.49 81.19	162.38
23 31 13 13-1156	LF 82" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	387.42 41.08 87.64 125.99 82.17	164.33
23 31 13 13-1157	LF 84" x 84", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	387.42 41.08 87.64 125.99 82.17	164.33
23 31 13 13-1158	LF 84" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	392.03 41.57 88.69 127.49 83.15	166.30
23 31 13 13-1159	LF 86" x 86", Up To 2" WG (Class C), 18 Gauge Galvanized Steel Sheet Metal Ductwork <i>For 3" WG (Class B), Add</i> <i>For 4" Or 6" WG (Class A), Add</i> <i>For 10" WG (Class A), Add</i> <i>For Work In Restricted Working Space, Add</i>	396.65 42.06 89.73 128.99 84.13	168.25
23 31 13 13-1160	Rework Sheet Metal Ductwork <small>(23 31 13 13)</small> Note: Includes removal of existing ductwork and reinstallation of ductwork. Excludes new ductwork.		
23 31 13 13-1161	LF Up To 1 SF Cross Section, Rework Existing Ductwork	24.75	
23 31 13 13-1162	LF >1 To 2 SF Cross Section, Rework Existing Ductwork	48.26	
23 31 13 13-1163	LF >2 To 4 SF Cross Section, Rework Existing Ductwork	63.77	
23 31 13 13-1164	LF >4 To 6 SF Cross Section, Rework Existing Ductwork	79.85	
23 31 13 13-1165	LF >6 To 8 SF Cross Section, Rework Existing Ductwork	111.36	
23 31 13 13-1166	LF >8 To 10 SF Cross Section, Rework Existing Ductwork	129.92	
23 31 13 13-1167	LF >10 To 12 SF Cross Section, Rework Existing Ductwork	148.49	
23 31 13 13-1168	LF >12 To 14 SF Cross Section, Rework Existing Ductwork	167.04	

23 31 13 16 Round And Flat-Oval Spiral Ducts (23 31 13)



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0001 Low Pressure Round And Flat-Oval Duct <small>(23 31 13 16)</small> Note: 7" diameter round = 4" x 11.85" flat oval. 8" diameter round = 4" x 15" flat oval. 10" diameter round = 4" x 25.99" or 6" x 15.42" or 8" x 11.14" flat oval. 12" diameter round = 6" x 23.28" or 8" x 15.85" flat oval. 14" diameter round = 6" x 32.70" or 8" x 22.14" or 10" x 17.85 or 12" x 15.14" flat oval. 16" diameter round = 6" x 43.70" or 8" x 29.99" or 10" x 24.14" or 12" x 19.85" or 14" x 17.14" flat oval. 18" diameter round = 6" x 59.41" or 8" x 39.42" or 10" x 30.42" or 12" x 24.57" or 14" x 21.85" or 16" x 19.14" flat oval. 20" diameter round = 8" x 51.98" or 10" x 38.27" or 12" x 30.85" or 14" x 26.57" or 16" x 23.85" or 18" x 21.14" flat oval. Includes sealing the joints by tape, mastic, or spray on sealer.		
23 31 13 16-0002 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Ducts <small>(23 31 13 16-0001)</small> Note: Includes straps and supports.		
23 31 13 16-0003 LF 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	4.83	2.01
For 3" WG (Class B), Add	0.62	
For 4" Or 6" WG (Class A), Add	1.64	
For 28 Gauge, Deduct	-0.10	
For 24 Gauge, Add	0.10	
For 22 Gauge, Add	0.20	
For 20 Gauge, Add	0.30	
For 18 Gauge, Add	0.40	
For 16 Gauge, Add	0.49	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	0.53	
For Work In Restricted Working Space, Add	1.23	
For Elevated Installation >10' To 15', Add	0.41	
For Elevated Installation >15' To 20', Add	0.82	
For Elevated Installation >20' To 25', Add	1.03	
For Elevated Installation >25' To 30', Add	1.44	
For Elevated Installation >30' To 35', Add	1.64	
For Elevated Installation >35' To 40', Add	2.06	
For Elevated Installation >40', Add	2.26	
23 31 13 16-0004 LF 5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	5.50	2.28
For 3" WG (Class B), Add	0.69	
For 4" Or 6" WG (Class A), Add	1.83	
For 28 Gauge, Deduct	-0.13	
For 24 Gauge, Add	0.13	
For 22 Gauge, Add	0.26	
For 20 Gauge, Add	0.39	
For 18 Gauge, Add	0.51	
For 16 Gauge, Add	0.63	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	0.69	
For Work In Restricted Working Space, Add	1.37	
For Elevated Installation >10' To 15', Add	0.46	
For Elevated Installation >15' To 20', Add	0.91	
For Elevated Installation >20' To 25', Add	1.14	
For Elevated Installation >25' To 30', Add	1.60	
For Elevated Installation >30' To 35', Add	1.83	
For Elevated Installation >35' To 40', Add	2.29	
For Elevated Installation >40', Add	2.51	
23 31 13 16-0005 LF 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	6.19	2.74
For 3" WG (Class B), Add	0.77	
For 4" Or 6" WG (Class A), Add	2.05	
For 28 Gauge, Deduct	-0.15	
For 24 Gauge, Add	0.15	
For 22 Gauge, Add	0.29	
For 20 Gauge, Add	0.44	
For 18 Gauge, Add	0.58	
For 16 Gauge, Add	0.72	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	0.78	
For Work In Restricted Working Space, Add	1.54	
For Elevated Installation >10' To 15', Add	0.51	
For Elevated Installation >15' To 20', Add	1.03	
For Elevated Installation >20' To 25', Add	1.28	
For Elevated Installation >25' To 30', Add	1.80	
For Elevated Installation >30' To 35', Add	2.05	
For Elevated Installation >35' To 40', Add	2.57	
For Elevated Installation >40', Add	2.82	
23 31 13 16-0006 LF 7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	7.12	3.20
For 3" WG (Class B), Add	0.88	
For 4" Or 6" WG (Class A), Add	2.35	
For 28 Gauge, Deduct	-0.17	
For 24 Gauge, Add	0.17	
For 22 Gauge, Add	0.34	
For 20 Gauge, Add	0.52	
For 18 Gauge, Add	0.69	
For 16 Gauge, Add	0.84	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	0.93	
For Work In Restricted Working Space, Add	1.76	
For Elevated Installation >10' To 15', Add	0.59	
For Elevated Installation >15' To 20', Add	1.17	
For Elevated Installation >20' To 25', Add	1.47	
For Elevated Installation >25' To 30', Add	2.05	
For Elevated Installation >30' To 35', Add	2.35	
For Elevated Installation >35' To 40', Add	2.94	
For Elevated Installation >40', Add	3.23	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 31 13 16-0007	LF 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	8.24	3.65
	For 3" WG (Class B), Add	1.03	
	For 4" Or 6" WG (Class A), Add	2.74	
	For 28 Gauge, Deduct	-0.19	
	For 24 Gauge, Add	0.19	
	For 22 Gauge, Add	0.38	
	For 20 Gauge, Add	0.58	
	For 18 Gauge, Add	0.76	
	For 16 Gauge, Add	0.94	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.03	
	For Work In Restricted Working Space, Add	2.06	
	For Elevated Installation >10' To 15', Add	0.69	
	For Elevated Installation >15' To 20', Add	1.37	
	For Elevated Installation >20' To 25', Add	1.71	
	For Elevated Installation >25' To 30', Add	2.40	
	For Elevated Installation >30' To 35', Add	2.74	
	For Elevated Installation >35' To 40', Add	3.43	
	For Elevated Installation >40', Add	3.77	
23 31 13 16-0008	LF 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	9.93	4.57
	For 3" WG (Class B), Add	1.23	
	For 4" Or 6" WG (Class A), Add	3.29	
	For 28 Gauge, Deduct	-0.24	
	For 24 Gauge, Add	0.24	
	For 22 Gauge, Add	0.47	
	For 20 Gauge, Add	0.71	
	For 18 Gauge, Add	0.94	
	For 16 Gauge, Add	1.15	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.27	
	For Work In Restricted Working Space, Add	2.47	
	For Elevated Installation >10' To 15', Add	0.82	
	For Elevated Installation >15' To 20', Add	1.64	
	For Elevated Installation >20' To 25', Add	2.06	
	For Elevated Installation >25' To 30', Add	2.88	
	For Elevated Installation >30' To 35', Add	3.29	
	For Elevated Installation >35' To 40', Add	4.11	
	For Elevated Installation >40', Add	4.52	
23 31 13 16-0009	LF 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	12.37	6.12
	For 3" WG (Class B), Add	1.54	
	For 4" Or 6" WG (Class A), Add	4.11	
	For 28 Gauge, Deduct	-0.29	
	For 24 Gauge, Add	0.29	
	For 22 Gauge, Add	0.58	
	For 20 Gauge, Add	0.87	
	For 18 Gauge, Add	1.16	
	For 16 Gauge, Add	1.42	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.55	
	For Work In Restricted Working Space, Add	3.08	
	For Elevated Installation >10' To 15', Add	1.03	
	For Elevated Installation >15' To 20', Add	2.05	
	For Elevated Installation >20' To 25', Add	2.57	
	For Elevated Installation >25' To 30', Add	3.59	
	For Elevated Installation >30' To 35', Add	4.11	
	For Elevated Installation >35' To 40', Add	5.14	
	For Elevated Installation >40', Add	5.65	
23 31 13 16-0010	LF 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	15.28	9.13
	For 3" WG (Class B), Add	1.93	
	For 4" Or 6" WG (Class A), Add	5.14	
	For 28 Gauge, Deduct	-0.34	
	For 24 Gauge, Add	0.34	
	For 22 Gauge, Add	0.67	
	For 20 Gauge, Add	1.01	
	For 18 Gauge, Add	1.34	
	For 16 Gauge, Add	1.65	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.81	
	For Work In Restricted Working Space, Add	3.85	
	For Elevated Installation >10' To 15', Add	1.28	
	For Elevated Installation >15' To 20', Add	2.57	
	For Elevated Installation >20' To 25', Add	3.21	
	For Elevated Installation >25' To 30', Add	4.49	
	For Elevated Installation >30' To 35', Add	5.14	
	For Elevated Installation >35' To 40', Add	6.42	
	For Elevated Installation >40', Add	7.06	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0011 LF 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	20.74	12.24
For 3" WG (Class B), Add	2.57	
For 4" Or 6" WG (Class A), Add	6.85	
For 28 Gauge, Deduct	-0.50	
For 24 Gauge, Add	0.50	
For 22 Gauge, Add	1.00	
For 20 Gauge, Add	1.50	
For 18 Gauge, Add	1.99	
For 16 Gauge, Add	2.44	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.68	
For Work In Restricted Working Space, Add	5.14	
For Elevated Installation >10' To 15', Add	1.71	
For Elevated Installation >15' To 20', Add	3.42	
For Elevated Installation >20' To 25', Add	4.28	
For Elevated Installation >25' To 30', Add	5.99	
For Elevated Installation >30' To 35', Add	6.85	
For Elevated Installation >35' To 40', Add	8.56	
For Elevated Installation >40', Add	9.42	
23 31 13 16-0012 LF 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	24.57	14.70
For 28 Gauge, Deduct	-0.56	
For 24 Gauge, Add	0.55	
For 22 Gauge, Add	1.11	
For 20 Gauge, Add	1.66	
For 18 Gauge, Add	2.21	
For 16 Gauge, Add	2.71	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.97	
For Work In Restricted Working Space, Add	6.17	
For Elevated Installation >10' To 15', Add	2.06	
For Elevated Installation >15' To 20', Add	4.11	
For Elevated Installation >20' To 25', Add	5.14	
For Elevated Installation >25' To 30', Add	7.19	
For Elevated Installation >30' To 35', Add	8.22	
For Elevated Installation >35' To 40', Add	10.28	
For Elevated Installation >40', Add	11.30	
23 31 13 16-0013 LF 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Duct.....	28.22	16.99
For 28 Gauge, Deduct	-0.62	
For 24 Gauge, Add	0.62	
For 22 Gauge, Add	1.23	
For 20 Gauge, Add	1.85	
For 18 Gauge, Add	2.46	
For 16 Gauge, Add	3.02	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.32	
For Work In Restricted Working Space, Add	7.12	
For Elevated Installation >10' To 15', Add	2.37	
For Elevated Installation >15' To 20', Add	4.75	
For Elevated Installation >20' To 25', Add	5.94	
For Elevated Installation >25' To 30', Add	8.31	
For Elevated Installation >30' To 35', Add	9.50	
For Elevated Installation >35' To 40', Add	11.87	
For Elevated Installation >40', Add	13.06	
23 31 13 16-0014 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbows (23 31 13 16-0001)		
Note: Up to 90 degree.		
23 31 13 16-0015 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow.....	27.79	12.19
For 3" WG (Class B), Add	3.66	
For 4" Or 6" WG (Class A), Add	9.75	
For 28 Gauge, Deduct	-0.47	
For 24 Gauge, Add	0.47	
For 22 Gauge, Add	0.94	
For 20 Gauge, Add	1.41	
For 18 Gauge, Add	1.88	
For 16 Gauge, Add	2.30	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.52	
For Work In Restricted Working Space, Add	7.31	
For Elevated Installation >10' To 15', Add	2.44	
For Elevated Installation >15' To 20', Add	4.88	
For Elevated Installation >20' To 25', Add	6.10	
For Elevated Installation >25' To 30', Add	8.53	
For Elevated Installation >30' To 35', Add	9.75	
For Elevated Installation >35' To 40', Add	12.19	
For Elevated Installation >40', Add	13.41	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

23 31 13 16-0016	EA	5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	31.84	14.06
		For 3" WG (Class B), Add	4.22	
		For 4" Or 6" WG (Class A), Add	11.25	
		For 28 Gauge, Deduct	-0.51	
		For 24 Gauge, Add	0.51	
		For 22 Gauge, Add	1.02	
		For 20 Gauge, Add	1.54	
		For 18 Gauge, Add	2.04	
		For 16 Gauge, Add	2.50	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.75	
		For Work In Restricted Working Space, Add	8.44	
		For Elevated Installation >10' To 15', Add	2.81	
		For Elevated Installation >15' To 20', Add	5.63	
		For Elevated Installation >20' To 25', Add	7.03	
		For Elevated Installation >25' To 30', Add	9.85	
		For Elevated Installation >30' To 35', Add	11.25	
		For Elevated Installation >35' To 40', Add	14.07	
		For Elevated Installation >40', Add	15.47	
23 31 13 16-0017	EA	6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	37.41	16.62
		For 3" WG (Class B), Add	4.99	
		For 4" Or 6" WG (Class A), Add	13.30	
		For 28 Gauge, Deduct	-0.58	
		For 24 Gauge, Add	0.58	
		For 22 Gauge, Add	1.15	
		For 20 Gauge, Add	1.73	
		For 18 Gauge, Add	2.29	
		For 16 Gauge, Add	2.81	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.09	
		For Work In Restricted Working Space, Add	9.97	
		For Elevated Installation >10' To 15', Add	3.32	
		For Elevated Installation >15' To 20', Add	6.65	
		For Elevated Installation >20' To 25', Add	8.31	
		For Elevated Installation >25' To 30', Add	11.63	
		For Elevated Installation >30' To 35', Add	13.30	
		For Elevated Installation >35' To 40', Add	16.62	
		For Elevated Installation >40', Add	18.28	
23 31 13 16-0018	EA	7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	47.87	21.36
		For 3" WG (Class B), Add	6.41	
		For 4" Or 6" WG (Class A), Add	17.10	
		For 28 Gauge, Deduct	-0.71	
		For 24 Gauge, Add	0.71	
		For 22 Gauge, Add	1.41	
		For 20 Gauge, Add	2.12	
		For 18 Gauge, Add	2.82	
		For 16 Gauge, Add	3.46	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.80	
		For Work In Restricted Working Space, Add	12.82	
		For Elevated Installation >10' To 15', Add	4.27	
		For Elevated Installation >15' To 20', Add	8.55	
		For Elevated Installation >20' To 25', Add	10.69	
		For Elevated Installation >25' To 30', Add	14.96	
		For Elevated Installation >30' To 35', Add	17.10	
		For Elevated Installation >35' To 40', Add	21.37	
		For Elevated Installation >40', Add	23.51	
23 31 13 16-0019	EA	8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	57.59	26.02
		For 3" WG (Class B), Add	7.81	
		For 4" Or 6" WG (Class A), Add	20.82	
		For 28 Gauge, Deduct	-0.77	
		For 24 Gauge, Add	0.76	
		For 22 Gauge, Add	1.53	
		For 20 Gauge, Add	2.29	
		For 18 Gauge, Add	3.05	
		For 16 Gauge, Add	3.74	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.10	
		For Work In Restricted Working Space, Add	15.62	
		For Elevated Installation >10' To 15', Add	5.21	
		For Elevated Installation >15' To 20', Add	10.41	
		For Elevated Installation >20' To 25', Add	13.01	
		For Elevated Installation >25' To 30', Add	18.22	
		For Elevated Installation >30' To 35', Add	20.82	
		For Elevated Installation >35' To 40', Add	26.03	
		For Elevated Installation >40', Add	28.63	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0020 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable		
Elbow	88.58	40.64
For 3" WG (Class B), Add	12.19	
For 4" Or 6" WG (Class A), Add	32.51	
For 28 Gauge, Deduct	-1.01	
For 24 Gauge, Add	1.01	
For 22 Gauge, Add	2.01	
For 20 Gauge, Add	3.03	
For 18 Gauge, Add	4.02	
For 16 Gauge, Add	4.93	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.41	
For Work In Restricted Working Space, Add	24.38	
For Elevated Installation >10' To 15', Add	8.13	
For Elevated Installation >15' To 20', Add	16.25	
For Elevated Installation >20' To 25', Add	20.32	
For Elevated Installation >25' To 30', Add	28.44	
For Elevated Installation >30' To 35', Add	32.51	
For Elevated Installation >35' To 40', Add	40.64	
For Elevated Installation >40', Add	44.70	
23 31 13 16-0021 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable		
Elbow	122.24	56.16
For 3" WG (Class B), Add	16.85	
For 4" Or 6" WG (Class A), Add	44.93	
For 28 Gauge, Deduct	-1.37	
For 24 Gauge, Add	1.37	
For 22 Gauge, Add	2.73	
For 20 Gauge, Add	4.10	
For 18 Gauge, Add	5.45	
For 16 Gauge, Add	6.69	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.33	
For Work In Restricted Working Space, Add	33.70	
For Elevated Installation >10' To 15', Add	11.23	
For Elevated Installation >15' To 20', Add	22.47	
For Elevated Installation >20' To 25', Add	28.08	
For Elevated Installation >25' To 30', Add	39.32	
For Elevated Installation >30' To 35', Add	44.93	
For Elevated Installation >35' To 40', Add	56.17	
For Elevated Installation >40', Add	61.78	
23 31 13 16-0022 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable		
Elbow	148.04	66.44
For 3" WG (Class B), Add	19.93	
For 4" Or 6" WG (Class A), Add	53.14	
For 28 Gauge, Deduct	-2.10	
For 24 Gauge, Add	2.09	
For 22 Gauge, Add	4.18	
For 20 Gauge, Add	6.28	
For 18 Gauge, Add	8.35	
For 16 Gauge, Add	10.25	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.23	
For Work In Restricted Working Space, Add	39.86	
For Elevated Installation >10' To 15', Add	13.29	
For Elevated Installation >15' To 20', Add	26.57	
For Elevated Installation >20' To 25', Add	33.22	
For Elevated Installation >25' To 30', Add	46.50	
For Elevated Installation >30' To 35', Add	53.14	
For Elevated Installation >35' To 40', Add	66.43	
For Elevated Installation >40', Add	73.07	
23 31 13 16-0023 EA 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable		
Elbow	167.87	73.06
For 3" WG (Class B), Add	21.92	
For 4" Or 6" WG (Class A), Add	58.44	
For 28 Gauge, Deduct	-3.01	
For 24 Gauge, Add	3.00	
For 22 Gauge, Add	5.99	
For 20 Gauge, Add	9.01	
For 18 Gauge, Add	11.97	
For 16 Gauge, Add	14.69	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.10	
For Work In Restricted Working Space, Add	43.83	
For Elevated Installation >10' To 15', Add	14.61	
For Elevated Installation >15' To 20', Add	29.22	
For Elevated Installation >20' To 25', Add	36.53	
For Elevated Installation >25' To 30', Add	51.14	
For Elevated Installation >30' To 35', Add	58.44	
For Elevated Installation >35' To 40', Add	73.06	
For Elevated Installation >40', Add	80.36	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0024	EA		18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	184.62	76.03
			For 3" WG (Class B), Add	22.81	
			For 4" Or 6" WG (Class A), Add	60.82	
			For 28 Gauge, Deduct	-4.51	
			For 24 Gauge, Add	4.50	
			For 22 Gauge, Add	8.98	
			For 20 Gauge, Add	13.49	
			For 18 Gauge, Add	17.92	
			For 16 Gauge, Add	21.99	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	24.11	
			For Work In Restricted Working Space, Add	45.61	
			For Elevated Installation >10' To 15', Add	15.20	
			For Elevated Installation >15' To 20', Add	30.41	
			For Elevated Installation >20' To 25', Add	38.01	
			For Elevated Installation >25' To 30', Add	53.21	
			For Elevated Installation >30' To 35', Add	60.82	
			For Elevated Installation >35' To 40', Add	76.02	
			For Elevated Installation >40', Add	83.62	
			For 10" WG (Class A), Add	69.94	
23 31 13 16-0025	EA		20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Adjustable Elbow	200.51	78.53
			For 3" WG (Class B), Add	23.56	
			For 4" Or 6" WG (Class A), Add	62.83	
			For 28 Gauge, Deduct	-6.02	
			For 24 Gauge, Add	5.99	
			For 22 Gauge, Add	11.97	
			For 20 Gauge, Add	17.98	
			For 18 Gauge, Add	23.89	
			For 16 Gauge, Add	29.32	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	32.15	
			For Work In Restricted Working Space, Add	47.12	
			For Elevated Installation >10' To 15', Add	15.71	
			For Elevated Installation >15' To 20', Add	31.41	
			For Elevated Installation >20' To 25', Add	39.27	
			For Elevated Installation >25' To 30', Add	54.97	
			For Elevated Installation >30' To 35', Add	62.83	
			For Elevated Installation >35' To 40', Add	78.54	
			For Elevated Installation >40', Add	86.39	
			For 10" WG (Class A), Add	72.25	
23 31 13 16-0026			2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbows <small>(23 31 13 16-0001)</small>		
23 31 13 16-0027	EA		4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	23.42	8.22
			For 3" WG (Class B), Add	3.08	
			For 4" Or 6" WG (Class A), Add	8.22	
			For 28 Gauge, Deduct	-0.40	
			For 24 Gauge, Add	0.40	
			For 22 Gauge, Add	0.79	
			For 20 Gauge, Add	1.19	
			For 18 Gauge, Add	1.58	
			For 16 Gauge, Add	1.94	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.12	
			For Work In Restricted Working Space, Add	6.17	
			For Elevated Installation >10' To 15', Add	2.06	
			For Elevated Installation >15' To 20', Add	4.11	
			For Elevated Installation >20' To 25', Add	5.14	
			For Elevated Installation >25' To 30', Add	7.19	
			For Elevated Installation >30' To 35', Add	8.22	
			For Elevated Installation >35' To 40', Add	10.28	
			For Elevated Installation >40', Add	11.30	
23 31 13 16-0028	EA		5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	26.75	9.41
			For 3" WG (Class B), Add	3.52	
			For 4" Or 6" WG (Class A), Add	9.39	
			For 28 Gauge, Deduct	-0.45	
			For 24 Gauge, Add	0.45	
			For 22 Gauge, Add	0.90	
			For 20 Gauge, Add	1.35	
			For 18 Gauge, Add	1.80	
			For 16 Gauge, Add	2.21	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.42	
			For Work In Restricted Working Space, Add	7.04	
			For Elevated Installation >10' To 15', Add	2.35	
			For Elevated Installation >15' To 20', Add	4.70	
			For Elevated Installation >20' To 25', Add	5.87	
			For Elevated Installation >25' To 30', Add	8.22	
			For Elevated Installation >30' To 35', Add	9.39	
			For Elevated Installation >35' To 40', Add	11.74	
			For Elevated Installation >40', Add	12.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0029 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	31.11	10.96
For 3" WG (Class B), Add	4.11	
For 4" Or 6" WG (Class A), Add	10.96	
For 28 Gauge, Deduct	-0.52	
For 24 Gauge, Add	0.51	
For 22 Gauge, Add	1.02	
For 20 Gauge, Add	1.54	
For 18 Gauge, Add	2.05	
For 16 Gauge, Add	2.51	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.75	
For Work In Restricted Working Space, Add	8.22	
For Elevated Installation >10' To 15', Add	2.74	
For Elevated Installation >15' To 20', Add	5.48	
For Elevated Installation >20' To 25', Add	6.85	
For Elevated Installation >25' To 30', Add	9.59	
For Elevated Installation >30' To 35', Add	10.96	
For Elevated Installation >35' To 40', Add	13.70	
For Elevated Installation >40', Add	15.06	
23 31 13 16-0030 EA 7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	36.82	13.15
For 3" WG (Class B), Add	4.93	
For 4" Or 6" WG (Class A), Add	13.15	
For 28 Gauge, Deduct	-0.55	
For 24 Gauge, Add	0.54	
For 22 Gauge, Add	1.09	
For 20 Gauge, Add	1.63	
For 18 Gauge, Add	2.17	
For 16 Gauge, Add	2.66	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.92	
For Work In Restricted Working Space, Add	9.86	
For Elevated Installation >10' To 15', Add	3.29	
For Elevated Installation >15' To 20', Add	6.58	
For Elevated Installation >20' To 25', Add	8.22	
For Elevated Installation >25' To 30', Add	11.51	
For Elevated Installation >30' To 35', Add	13.15	
For Elevated Installation >35' To 40', Add	16.44	
For Elevated Installation >40', Add	18.08	
23 31 13 16-0031 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	45.68	16.43
For 3" WG (Class B), Add	6.17	
For 4" Or 6" WG (Class A), Add	16.44	
For 28 Gauge, Deduct	-0.63	
For 24 Gauge, Add	0.63	
For 22 Gauge, Add	1.26	
For 20 Gauge, Add	1.90	
For 18 Gauge, Add	2.52	
For 16 Gauge, Add	3.09	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.39	
For Work In Restricted Working Space, Add	12.33	
For Elevated Installation >10' To 15', Add	4.11	
For Elevated Installation >15' To 20', Add	8.22	
For Elevated Installation >20' To 25', Add	10.28	
For Elevated Installation >25' To 30', Add	14.39	
For Elevated Installation >30' To 35', Add	16.44	
For Elevated Installation >35' To 40', Add	20.55	
For Elevated Installation >40', Add	22.61	
23 31 13 16-0032 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	61.33	21.92
For 3" WG (Class B), Add	8.22	
For 4" Or 6" WG (Class A), Add	21.92	
For 28 Gauge, Deduct	-0.91	
For 24 Gauge, Add	0.90	
For 22 Gauge, Add	1.80	
For 20 Gauge, Add	2.71	
For 18 Gauge, Add	3.60	
For 16 Gauge, Add	4.41	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.84	
For Work In Restricted Working Space, Add	16.44	
For Elevated Installation >10' To 15', Add	5.48	
For Elevated Installation >15' To 20', Add	10.96	
For Elevated Installation >20' To 25', Add	13.70	
For Elevated Installation >25' To 30', Add	19.18	
For Elevated Installation >30' To 35', Add	21.92	
For Elevated Installation >35' To 40', Add	27.40	
For Elevated Installation >40', Add	30.13	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31	13 16-0033	EA	12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	90.84	32.88
			For 3" WG (Class B), Add	12.33	
			For 4" Or 6" WG (Class A), Add	32.88	
			For 28 Gauge, Deduct	-1.20	
			For 24 Gauge, Add	1.19	
			For 22 Gauge, Add	2.38	
			For 20 Gauge, Add	3.58	
			For 18 Gauge, Add	4.76	
			For 16 Gauge, Add	5.84	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.40	
			For Work In Restricted Working Space, Add	24.66	
			For Elevated Installation >10' To 15', Add	8.22	
			For Elevated Installation >15' To 20', Add	16.44	
			For Elevated Installation >20' To 25', Add	20.55	
			For Elevated Installation >25' To 30', Add	28.77	
			For Elevated Installation >30' To 35', Add	32.88	
			For Elevated Installation >35' To 40', Add	41.10	
			For Elevated Installation >40', Add	45.20	
23 31	13 16-0034	EA	14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	121.21	42.00
			For 3" WG (Class B), Add	15.75	
			For 4" Or 6" WG (Class A), Add	42.01	
			For 28 Gauge, Deduct	-2.24	
			For 24 Gauge, Add	2.23	
			For 22 Gauge, Add	4.46	
			For 20 Gauge, Add	6.70	
			For 18 Gauge, Add	8.90	
			For 16 Gauge, Add	10.93	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	11.98	
			For Work In Restricted Working Space, Add	31.51	
			For Elevated Installation >10' To 15', Add	10.50	
			For Elevated Installation >15' To 20', Add	21.00	
			For Elevated Installation >20' To 25', Add	26.26	
			For Elevated Installation >25' To 30', Add	36.76	
			For Elevated Installation >30' To 35', Add	42.01	
			For Elevated Installation >35' To 40', Add	52.51	
			For Elevated Installation >40', Add	57.76	
23 31	13 16-0035	EA	16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	152.22	52.96
			For 3" WG (Class B), Add	19.86	
			For 4" Or 6" WG (Class A), Add	52.96	
			For 28 Gauge, Deduct	-2.74	
			For 24 Gauge, Add	2.73	
			For 22 Gauge, Add	5.46	
			For 20 Gauge, Add	8.20	
			For 18 Gauge, Add	10.90	
			For 16 Gauge, Add	13.37	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.66	
			For Work In Restricted Working Space, Add	39.72	
			For Elevated Installation >10' To 15', Add	13.24	
			For Elevated Installation >15' To 20', Add	26.48	
			For Elevated Installation >20' To 25', Add	33.10	
			For Elevated Installation >25' To 30', Add	46.34	
			For Elevated Installation >30' To 35', Add	52.96	
			For Elevated Installation >35' To 40', Add	66.21	
			For Elevated Installation >40', Add	72.83	
23 31	13 16-0036	EA	18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow	168.67	55.25
			For 3" WG (Class B), Add	20.69	
			For 4" Or 6" WG (Class A), Add	55.16	
			For 28 Gauge, Deduct	-4.26	
			For 24 Gauge, Add	4.25	
			For 22 Gauge, Add	8.48	
			For 20 Gauge, Add	12.74	
			For 18 Gauge, Add	16.92	
			For 16 Gauge, Add	20.77	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	22.77	
			For Work In Restricted Working Space, Add	41.37	
			For Elevated Installation >10' To 15', Add	13.79	
			For Elevated Installation >15' To 20', Add	27.58	
			For Elevated Installation >20' To 25', Add	34.48	
			For Elevated Installation >25' To 30', Add	48.27	
			For Elevated Installation >30' To 35', Add	55.16	
			For Elevated Installation >35' To 40', Add	68.95	
			For Elevated Installation >40', Add	75.85	
			For 10" WG (Class A), Add	63.43	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0037 EA 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 90 Degree Elbow.....	182.58	56.62
For 3" WG (Class B), Add	21.23	
For 4" Or 6" WG (Class A), Add	56.62	
For 28 Gauge, Deduct	-5.68	
For 24 Gauge, Add	5.66	
For 22 Gauge, Add	11.30	
For 20 Gauge, Add	16.99	
For 18 Gauge, Add	22.57	
For 16 Gauge, Add	27.70	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	30.36	
For Work In Restricted Working Space, Add	42.47	
For Elevated Installation >10' To 15', Add	14.16	
For Elevated Installation >15' To 20', Add	28.31	
For Elevated Installation >20' To 25', Add	35.39	
For Elevated Installation >25' To 30', Add	49.54	
For Elevated Installation >30' To 35', Add	56.62	
For Elevated Installation >35' To 40', Add	70.78	
For Elevated Installation >40', Add	77.85	
For 10" WG (Class A), Add	65.11	
23 31 13 16-0038 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbows (23 31 13 16-0001)		
23 31 13 16-0039 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	22.35	8.22
For 3" WG (Class B), Add	3.08	
For 4" Or 6" WG (Class A), Add	8.22	
For 28 Gauge, Deduct	-0.25	
For 24 Gauge, Add	0.25	
For 22 Gauge, Add	0.50	
For 20 Gauge, Add	0.75	
For 18 Gauge, Add	0.99	
For 16 Gauge, Add	1.22	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.33	
For Work In Restricted Working Space, Add	6.17	
For Elevated Installation >10' To 15', Add	2.06	
For Elevated Installation >15' To 20', Add	4.11	
For Elevated Installation >20' To 25', Add	5.14	
For Elevated Installation >25' To 30', Add	7.19	
For Elevated Installation >30' To 35', Add	8.22	
For Elevated Installation >35' To 40', Add	10.28	
For Elevated Installation >40', Add	11.30	
23 31 13 16-0040 EA 5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	25.79	9.41
For 3" WG (Class B), Add	3.52	
For 4" Or 6" WG (Class A), Add	9.39	
For 28 Gauge, Deduct	-0.32	
For 24 Gauge, Add	0.32	
For 22 Gauge, Add	0.64	
For 20 Gauge, Add	0.96	
For 18 Gauge, Add	1.27	
For 16 Gauge, Add	1.56	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.71	
For Work In Restricted Working Space, Add	7.04	
For Elevated Installation >10' To 15', Add	2.35	
For Elevated Installation >15' To 20', Add	4.70	
For Elevated Installation >20' To 25', Add	5.87	
For Elevated Installation >25' To 30', Add	8.22	
For Elevated Installation >30' To 35', Add	9.39	
For Elevated Installation >35' To 40', Add	11.74	
For Elevated Installation >40', Add	12.91	
23 31 13 16-0041 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow.....	29.91	10.96
For 3" WG (Class B), Add	4.11	
For 4" Or 6" WG (Class A), Add	10.96	
For 28 Gauge, Deduct	-0.35	
For 24 Gauge, Add	0.35	
For 22 Gauge, Add	0.69	
For 20 Gauge, Add	1.04	
For 18 Gauge, Add	1.39	
For 16 Gauge, Add	1.70	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.86	
For Work In Restricted Working Space, Add	8.22	
For Elevated Installation >10' To 15', Add	2.74	
For Elevated Installation >15' To 20', Add	5.48	
For Elevated Installation >20' To 25', Add	6.85	
For Elevated Installation >25' To 30', Add	9.59	
For Elevated Installation >30' To 35', Add	10.96	
For Elevated Installation >35' To 40', Add	13.70	
For Elevated Installation >40', Add	15.06	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**
 MINOR
 CSI UOM DESCRIPTION

 TOTAL DIRECT DEMOLITION
 UNIT COST UNIT COST

23 31 13 16-0042	EA	7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	35.81	13.15
		For 3" WG (Class B), Add	4.93	
		For 4" Or 6" WG (Class A), Add	13.15	
		For 28 Gauge, Deduct	-0.41	
		For 24 Gauge, Add	0.40	
		For 22 Gauge, Add	0.81	
		For 20 Gauge, Add	1.21	
		For 18 Gauge, Add	1.61	
		For 16 Gauge, Add	1.98	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.17	
		For Work In Restricted Working Space, Add	9.86	
		For Elevated Installation >10' To 15', Add	3.29	
		For Elevated Installation >15' To 20', Add	6.58	
		For Elevated Installation >20' To 25', Add	8.22	
		For Elevated Installation >25' To 30', Add	11.51	
		For Elevated Installation >30' To 35', Add	13.15	
		For Elevated Installation >35' To 40', Add	16.44	
		For Elevated Installation >40', Add	18.08	
23 31 13 16-0043	EA	8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	44.43	16.43
		For 3" WG (Class B), Add	6.17	
		For 4" Or 6" WG (Class A), Add	16.44	
		For 28 Gauge, Deduct	-0.46	
		For 24 Gauge, Add	0.46	
		For 22 Gauge, Add	0.92	
		For 20 Gauge, Add	1.38	
		For 18 Gauge, Add	1.83	
		For 16 Gauge, Add	2.25	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.46	
		For Work In Restricted Working Space, Add	12.33	
		For Elevated Installation >10' To 15', Add	4.11	
		For Elevated Installation >15' To 20', Add	8.22	
		For Elevated Installation >20' To 25', Add	10.28	
		For Elevated Installation >25' To 30', Add	14.39	
		For Elevated Installation >30' To 35', Add	16.44	
		For Elevated Installation >35' To 40', Add	20.55	
		For Elevated Installation >40', Add	22.61	
23 31 13 16-0044	EA	10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	59.87	21.92
		For 3" WG (Class B), Add	8.22	
		For 4" Or 6" WG (Class A), Add	21.92	
		For 28 Gauge, Deduct	-0.70	
		For 24 Gauge, Add	0.70	
		For 22 Gauge, Add	1.40	
		For 20 Gauge, Add	2.10	
		For 18 Gauge, Add	2.79	
		For 16 Gauge, Add	3.43	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.76	
		For Work In Restricted Working Space, Add	16.44	
		For Elevated Installation >10' To 15', Add	5.48	
		For Elevated Installation >15' To 20', Add	10.96	
		For Elevated Installation >20' To 25', Add	13.70	
		For Elevated Installation >25' To 30', Add	19.18	
		For Elevated Installation >30' To 35', Add	21.92	
		For Elevated Installation >35' To 40', Add	27.40	
		For Elevated Installation >40', Add	30.13	
23 31 13 16-0045	EA	12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	88.73	32.88
		For 3" WG (Class B), Add	12.33	
		For 4" Or 6" WG (Class A), Add	32.88	
		For 28 Gauge, Deduct	-0.91	
		For 24 Gauge, Add	0.90	
		For 22 Gauge, Add	1.80	
		For 20 Gauge, Add	2.71	
		For 18 Gauge, Add	3.60	
		For 16 Gauge, Add	4.41	
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.84	
		For Work In Restricted Working Space, Add	24.66	
		For Elevated Installation >10' To 15', Add	8.22	
		For Elevated Installation >15' To 20', Add	16.44	
		For Elevated Installation >20' To 25', Add	20.55	
		For Elevated Installation >25' To 30', Add	28.77	
		For Elevated Installation >30' To 35', Add	32.88	
		For Elevated Installation >35' To 40', Add	41.10	
		For Elevated Installation >40', Add	45.20	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0046 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	116.33	42.00
For 3" WG (Class B), Add	15.75	
For 4" Or 6" WG (Class A), Add	42.01	
For 28 Gauge, Deduct	-1.57	
For 24 Gauge, Add	1.56	
For 22 Gauge, Add	3.12	
For 20 Gauge, Add	4.68	
For 18 Gauge, Add	6.22	
For 16 Gauge, Add	7.63	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.37	
For Work In Restricted Working Space, Add	31.51	
For Elevated Installation >10' To 15', Add	10.50	
For Elevated Installation >15' To 20', Add	21.00	
For Elevated Installation >20' To 25', Add	26.26	
For Elevated Installation >25' To 30', Add	36.76	
For Elevated Installation >30' To 35', Add	42.01	
For Elevated Installation >35' To 40', Add	52.51	
For Elevated Installation >40', Add	57.76	
23 31 13 16-0047 EA 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	150.96	52.96
For 3" WG (Class B), Add	19.86	
For 4" Or 6" WG (Class A), Add	52.96	
For 28 Gauge, Deduct	-2.57	
For 24 Gauge, Add	2.56	
For 22 Gauge, Add	5.11	
For 20 Gauge, Add	7.68	
For 18 Gauge, Add	10.20	
For 16 Gauge, Add	12.52	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.73	
For Work In Restricted Working Space, Add	39.72	
For Elevated Installation >10' To 15', Add	13.24	
For Elevated Installation >15' To 20', Add	26.48	
For Elevated Installation >20' To 25', Add	33.10	
For Elevated Installation >25' To 30', Add	46.34	
For Elevated Installation >30' To 35', Add	52.96	
For Elevated Installation >35' To 40', Add	66.21	
For Elevated Installation >40', Add	72.83	
23 31 13 16-0048 EA 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	160.32	55.25
For 3" WG (Class B), Add	20.69	
For 4" Or 6" WG (Class A), Add	55.16	
For 28 Gauge, Deduct	-3.11	
For 24 Gauge, Add	3.09	
For 22 Gauge, Add	6.18	
For 20 Gauge, Add	9.28	
For 18 Gauge, Add	12.33	
For 16 Gauge, Add	15.13	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.59	
For Work In Restricted Working Space, Add	41.37	
For Elevated Installation >10' To 15', Add	13.79	
For Elevated Installation >15' To 20', Add	27.58	
For Elevated Installation >20' To 25', Add	34.48	
For Elevated Installation >25' To 30', Add	48.27	
For Elevated Installation >30' To 35', Add	55.16	
For Elevated Installation >35' To 40', Add	68.95	
For Elevated Installation >40', Add	75.85	
For 10" WG (Class A), Add	63.43	
23 31 13 16-0049 EA 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval 45 Degree Elbow	170.28	56.62
For 3" WG (Class B), Add	21.23	
For 4" Or 6" WG (Class A), Add	56.62	
For 28 Gauge, Deduct	-3.98	
For 24 Gauge, Add	3.96	
For 22 Gauge, Add	7.92	
For 20 Gauge, Add	11.89	
For 18 Gauge, Add	15.80	
For 16 Gauge, Add	19.39	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	21.26	
For Work In Restricted Working Space, Add	42.47	
For Elevated Installation >10' To 15', Add	14.16	
For Elevated Installation >15' To 20', Add	28.31	
For Elevated Installation >20' To 25', Add	35.39	
For Elevated Installation >25' To 30', Add	49.54	
For Elevated Installation >30' To 35', Add	56.62	
For Elevated Installation >35' To 40', Add	70.78	
For Elevated Installation >40', Add	77.85	
For 10" WG (Class A), Add	65.11	
23 31 13 16-0050 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tees		
<small>(23 31 13 16-0001)</small>		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 31 13 16-0051	EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee	34.82	12.33
	For 3" WG (Class B), Add	4.62	
	For 4" Or 6" WG (Class A), Add	12.32	
	For 28 Gauge, Deduct	-0.56	
	For 24 Gauge, Add	0.55	
	For 22 Gauge, Add	1.10	
	For 20 Gauge, Add	1.66	
	For 18 Gauge, Add	2.21	
	For 16 Gauge, Add	2.71	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.97	
	For Work In Restricted Working Space, Add	9.24	
	For Elevated Installation >10' To 15', Add	3.08	
	For Elevated Installation >15' To 20', Add	6.16	
	For Elevated Installation >20' To 25', Add	7.70	
	For Elevated Installation >25' To 30', Add	10.78	
	For Elevated Installation >30' To 35', Add	12.32	
	For Elevated Installation >35' To 40', Add	15.41	
	For Elevated Installation >40', Add	16.95	
23 31 13 16-0052	EA 5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee	40.55	14.06
	For 3" WG (Class B), Add	5.28	
	For 4" Or 6" WG (Class A), Add	14.09	
	For 28 Gauge, Deduct	-0.74	
	For 24 Gauge, Add	0.74	
	For 22 Gauge, Add	1.47	
	For 20 Gauge, Add	2.21	
	For 18 Gauge, Add	2.93	
	For 16 Gauge, Add	3.60	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.94	
	For Work In Restricted Working Space, Add	10.57	
	For Elevated Installation >10' To 15', Add	3.52	
	For Elevated Installation >15' To 20', Add	7.04	
	For Elevated Installation >20' To 25', Add	8.81	
	For Elevated Installation >25' To 30', Add	12.33	
	For Elevated Installation >30' To 35', Add	14.09	
	For Elevated Installation >35' To 40', Add	17.61	
	For Elevated Installation >40', Add	19.37	
23 31 13 16-0053	EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee	46.88	16.43
	For 3" WG (Class B), Add	6.17	
	For 4" Or 6" WG (Class A), Add	16.44	
	For 28 Gauge, Deduct	-0.80	
	For 24 Gauge, Add	0.80	
	For 22 Gauge, Add	1.59	
	For 20 Gauge, Add	2.39	
	For 18 Gauge, Add	3.18	
	For 16 Gauge, Add	3.90	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.28	
	For Work In Restricted Working Space, Add	12.33	
	For Elevated Installation >10' To 15', Add	4.11	
	For Elevated Installation >15' To 20', Add	8.22	
	For Elevated Installation >20' To 25', Add	10.28	
	For Elevated Installation >25' To 30', Add	14.39	
	For Elevated Installation >30' To 35', Add	16.44	
	For Elevated Installation >35' To 40', Add	20.55	
	For Elevated Installation >40', Add	22.61	
23 31 13 16-0054	EA 7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee	55.97	19.72
	For 3" WG (Class B), Add	7.40	
	For 4" Or 6" WG (Class A), Add	19.72	
	For 28 Gauge, Deduct	-0.92	
	For 24 Gauge, Add	0.92	
	For 22 Gauge, Add	1.83	
	For 20 Gauge, Add	2.76	
	For 18 Gauge, Add	3.66	
	For 16 Gauge, Add	4.50	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.93	
	For Work In Restricted Working Space, Add	14.79	
	For Elevated Installation >10' To 15', Add	4.93	
	For Elevated Installation >15' To 20', Add	9.86	
	For Elevated Installation >20' To 25', Add	12.33	
	For Elevated Installation >25' To 30', Add	17.26	
	For Elevated Installation >30' To 35', Add	19.72	
	For Elevated Installation >35' To 40', Add	24.66	
	For Elevated Installation >40', Add	27.12	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0055 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	72.41	24.65
For 3" WG (Class B), Add	9.25	
For 4" Or 6" WG (Class A), Add	24.66	
For 28 Gauge, Deduct	-1.49	
For 24 Gauge, Add	1.48	
For 22 Gauge, Add	2.96	
For 20 Gauge, Add	4.45	
For 18 Gauge, Add	5.92	
For 16 Gauge, Add	7.26	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.96	
For Work In Restricted Working Space, Add	18.50	
For Elevated Installation >10' To 15', Add	6.17	
For Elevated Installation >15' To 20', Add	12.33	
For Elevated Installation >20' To 25', Add	15.41	
For Elevated Installation >25' To 30', Add	21.58	
For Elevated Installation >30' To 35', Add	24.66	
For Elevated Installation >35' To 40', Add	30.83	
For Elevated Installation >40', Add	33.91	
23 31 13 16-0056 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	95.92	32.88
For 3" WG (Class B), Add	12.33	
For 4" Or 6" WG (Class A), Add	32.88	
For 28 Gauge, Deduct	-1.90	
For 24 Gauge, Add	1.89	
For 22 Gauge, Add	3.78	
For 20 Gauge, Add	5.68	
For 18 Gauge, Add	7.55	
For 16 Gauge, Add	9.27	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.16	
For Work In Restricted Working Space, Add	24.66	
For Elevated Installation >10' To 15', Add	8.22	
For Elevated Installation >15' To 20', Add	16.44	
For Elevated Installation >20' To 25', Add	20.55	
For Elevated Installation >25' To 30', Add	28.77	
For Elevated Installation >30' To 35', Add	32.88	
For Elevated Installation >35' To 40', Add	41.10	
For Elevated Installation >40', Add	45.20	
23 31 13 16-0057 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	136.98	49.31
For 3" WG (Class B), Add	18.49	
For 4" Or 6" WG (Class A), Add	49.30	
For 28 Gauge, Deduct	-1.90	
For 24 Gauge, Add	1.89	
For 22 Gauge, Add	3.78	
For 20 Gauge, Add	5.68	
For 18 Gauge, Add	7.55	
For 16 Gauge, Add	9.27	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	10.16	
For Work In Restricted Working Space, Add	36.98	
For Elevated Installation >10' To 15', Add	12.33	
For Elevated Installation >15' To 20', Add	24.65	
For Elevated Installation >20' To 25', Add	30.81	
For Elevated Installation >25' To 30', Add	43.14	
For Elevated Installation >30' To 35', Add	49.30	
For Elevated Installation >35' To 40', Add	61.63	
For Elevated Installation >40', Add	67.79	
23 31 13 16-0058 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee.....	183.60	62.82
For 3" WG (Class B), Add	23.62	
For 4" Or 6" WG (Class A), Add	62.98	
For 28 Gauge, Deduct	-3.62	
For 24 Gauge, Add	3.61	
For 22 Gauge, Add	7.20	
For 20 Gauge, Add	10.83	
For 18 Gauge, Add	14.38	
For 16 Gauge, Add	17.65	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.35	
For Work In Restricted Working Space, Add	47.24	
For Elevated Installation >10' To 15', Add	15.75	
For Elevated Installation >15' To 20', Add	31.49	
For Elevated Installation >20' To 25', Add	39.36	
For Elevated Installation >25' To 30', Add	55.11	
For Elevated Installation >30' To 35', Add	62.98	
For Elevated Installation >35' To 40', Add	78.73	
For Elevated Installation >40', Add	86.60	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0059	EA		16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee	235.22	79.63
			For 3" WG (Class B), Add	29.78	
			For 4" Or 6" WG (Class A), Add	79.41	
			For 28 Gauge, Deduct	-5.08	
			For 24 Gauge, Add	5.06	
			For 22 Gauge, Add	10.11	
			For 20 Gauge, Add	15.19	
			For 18 Gauge, Add	20.19	
			For 16 Gauge, Add	24.77	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	27.16	
			For Work In Restricted Working Space, Add	59.56	
			For Elevated Installation >10' To 15', Add	19.85	
			For Elevated Installation >15' To 20', Add	39.70	
			For Elevated Installation >20' To 25', Add	49.63	
			For Elevated Installation >25' To 30', Add	69.48	
			For Elevated Installation >30' To 35', Add	79.41	
			For Elevated Installation >35' To 40', Add	99.26	
			For Elevated Installation >40', Add	109.19	
23 31 13 16-0060	EA		18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee	268.66	88.58
			For 3" WG (Class B), Add	33.29	
			For 4" Or 6" WG (Class A), Add	88.76	
			For 28 Gauge, Deduct	-6.48	
			For 24 Gauge, Add	6.45	
			For 22 Gauge, Add	12.88	
			For 20 Gauge, Add	19.36	
			For 18 Gauge, Add	25.72	
			For 16 Gauge, Add	31.56	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	34.60	
			For Work In Restricted Working Space, Add	66.57	
			For Elevated Installation >10' To 15', Add	22.19	
			For Elevated Installation >15' To 20', Add	44.38	
			For Elevated Installation >20' To 25', Add	55.48	
			For Elevated Installation >25' To 30', Add	77.67	
			For Elevated Installation >30' To 35', Add	88.76	
			For Elevated Installation >35' To 40', Add	110.95	
			For Elevated Installation >40', Add	122.05	
			For 10" WG (Class A), Add	102.07	
23 31 13 16-0061	EA		20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Tee	281.10	91.78
			For 3" WG (Class B), Add	34.38	
			For 4" Or 6" WG (Class A), Add	91.68	
			For 28 Gauge, Deduct	-7.19	
			For 24 Gauge, Add	7.16	
			For 22 Gauge, Add	14.30	
			For 20 Gauge, Add	21.48	
			For 18 Gauge, Add	28.54	
			For 16 Gauge, Add	35.03	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	38.40	
			For Work In Restricted Working Space, Add	68.76	
			For Elevated Installation >10' To 15', Add	22.92	
			For Elevated Installation >15' To 20', Add	45.84	
			For Elevated Installation >20' To 25', Add	57.30	
			For Elevated Installation >25' To 30', Add	80.22	
			For Elevated Installation >30' To 35', Add	91.68	
			For Elevated Installation >35' To 40', Add	114.61	
			For Elevated Installation >40', Add	126.07	
			For 10" WG (Class A), Add	105.44	
23 31 13 16-0062			2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connectors <small>(23 31 13 16-0001)</small>		
23 31 13 16-0063	EA		4" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	15.96	
			For 3" WG (Class B), Add	2.19	
			For 4" Or 6" WG (Class A), Add	5.84	
			For Work In Restricted Working Space, Add	4.38	
			For Elevated Installation >10' To 15', Add	1.46	
			For Elevated Installation >15' To 20', Add	2.92	
			For Elevated Installation >20' To 25', Add	3.65	
			For Elevated Installation >25' To 30', Add	5.11	
			For Elevated Installation >30' To 35', Add	5.84	
			For Elevated Installation >35' To 40', Add	7.31	
			For Elevated Installation >40', Add	8.04	
23 31 13 16-0064	EA		5" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector	16.81	
			For 3" WG (Class B), Add	2.30	
			For 4" Or 6" WG (Class A), Add	6.14	
			For Work In Restricted Working Space, Add	4.61	
			For Elevated Installation >10' To 15', Add	1.54	
			For Elevated Installation >15' To 20', Add	3.07	
			For Elevated Installation >20' To 25', Add	3.84	
			For Elevated Installation >25' To 30', Add	5.38	
			For Elevated Installation >30' To 35', Add	6.14	
			For Elevated Installation >35' To 40', Add	7.68	
			For Elevated Installation >40', Add	8.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0065 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector.....	17.99	
For 3" WG (Class B), Add	2.46	
For 4" Or 6" WG (Class A), Add	6.57	
For Work In Restricted Working Space, Add	4.93	
For Elevated Installation >10' To 15', Add	1.64	
For Elevated Installation >15' To 20', Add	3.29	
For Elevated Installation >20' To 25', Add	4.11	
For Elevated Installation >25' To 30', Add	5.75	
For Elevated Installation >30' To 35', Add	6.57	
For Elevated Installation >35' To 40', Add	8.22	
For Elevated Installation >40', Add	9.04	
23 31 13 16-0066 EA 7" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector.....	19.13	
For 3" WG (Class B), Add	2.60	
For 4" Or 6" WG (Class A), Add	6.94	
For Work In Restricted Working Space, Add	5.21	
For Elevated Installation >10' To 15', Add	1.74	
For Elevated Installation >15' To 20', Add	3.47	
For Elevated Installation >20' To 25', Add	4.34	
For Elevated Installation >25' To 30', Add	6.07	
For Elevated Installation >30' To 35', Add	6.94	
For Elevated Installation >35' To 40', Add	8.68	
For Elevated Installation >40', Add	9.54	
23 31 13 16-0067 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector.....	20.73	
For 3" WG (Class B), Add	2.81	
For 4" Or 6" WG (Class A), Add	7.49	
For Work In Restricted Working Space, Add	5.62	
For Elevated Installation >10' To 15', Add	1.87	
For Elevated Installation >15' To 20', Add	3.74	
For Elevated Installation >20' To 25', Add	4.68	
For Elevated Installation >25' To 30', Add	6.55	
For Elevated Installation >30' To 35', Add	7.49	
For Elevated Installation >35' To 40', Add	9.36	
For Elevated Installation >40', Add	10.30	
23 31 13 16-0068 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector.....	24.08	
For 3" WG (Class B), Add	3.14	
For 4" Or 6" WG (Class A), Add	8.36	
For Work In Restricted Working Space, Add	6.27	
For Elevated Installation >10' To 15', Add	2.09	
For Elevated Installation >15' To 20', Add	4.18	
For Elevated Installation >20' To 25', Add	5.23	
For Elevated Installation >25' To 30', Add	7.32	
For Elevated Installation >30' To 35', Add	8.36	
For Elevated Installation >35' To 40', Add	10.46	
For Elevated Installation >40', Add	11.50	
23 31 13 16-0069 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector.....	33.04	
For 3" WG (Class B), Add	4.38	
For 4" Or 6" WG (Class A), Add	11.69	
For Work In Restricted Working Space, Add	8.77	
For Elevated Installation >10' To 15', Add	2.92	
For Elevated Installation >15' To 20', Add	5.84	
For Elevated Installation >20' To 25', Add	7.31	
For Elevated Installation >25' To 30', Add	10.23	
For Elevated Installation >30' To 35', Add	11.69	
For Elevated Installation >35' To 40', Add	14.61	
For Elevated Installation >40', Add	16.07	
23 31 13 16-0070 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector.....	37.69	
For 3" WG (Class B), Add	4.99	
For 4" Or 6" WG (Class A), Add	13.30	
For Work In Restricted Working Space, Add	9.98	
For Elevated Installation >10' To 15', Add	3.33	
For Elevated Installation >15' To 20', Add	6.65	
For Elevated Installation >20' To 25', Add	8.31	
For Elevated Installation >25' To 30', Add	11.64	
For Elevated Installation >30' To 35', Add	13.30	
For Elevated Installation >35' To 40', Add	16.63	
For Elevated Installation >40', Add	18.29	
23 31 13 16-0071 EA 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector.....	41.42	
For 3" WG (Class B), Add	5.47	
For 4" Or 6" WG (Class A), Add	14.58	
For Work In Restricted Working Space, Add	10.93	
For Elevated Installation >10' To 15', Add	3.64	
For Elevated Installation >15' To 20', Add	7.29	
For Elevated Installation >20' To 25', Add	9.11	
For Elevated Installation >25' To 30', Add	12.75	
For Elevated Installation >30' To 35', Add	14.58	
For Elevated Installation >35' To 40', Add	18.22	
For Elevated Installation >40', Add	20.04	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 31 13 16-0072	EA 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector.....	45.01	
	For 3" WG (Class B), Add	5.92	
	For 4" Or 6" WG (Class A), Add	15.78	
	For Work In Restricted Working Space, Add	11.84	
	For Elevated Installation >10' To 15', Add	3.95	
	For Elevated Installation >15' To 20', Add	7.89	
	For Elevated Installation >20' To 25', Add	9.86	
	For Elevated Installation >25' To 30', Add	13.81	
	For Elevated Installation >30' To 35', Add	15.78	
	For Elevated Installation >35' To 40', Add	19.73	
	For Elevated Installation >40', Add	21.70	
	For 10" WG (Class A), Add	18.15	
23 31 13 16-0073	EA 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Galvanized Sheet Metal Round And Flat-Oval Connector.....	49.04	
	For 3" WG (Class B), Add	6.45	
	For 4" Or 6" WG (Class A), Add	17.20	
	For Work In Restricted Working Space, Add	12.90	
	For Elevated Installation >10' To 15', Add	4.30	
	For Elevated Installation >15' To 20', Add	8.60	
	For Elevated Installation >20' To 25', Add	10.75	
	For Elevated Installation >25' To 30', Add	15.05	
	For Elevated Installation >30' To 35', Add	17.20	
	For Elevated Installation >35' To 40', Add	21.51	
	For Elevated Installation >40', Add	23.66	
	For 10" WG (Class A), Add	19.78	
23 31 13 16-0074	Slip Joint, Galvanized, Spiral Duct And Fittings (23 31 13 16)		
23 31 13 16-0075	Slip Joint, Galvanized, Spiral Duct (23 31 13 16-0074)		
23 31 13 16-0076	LF 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	5.90	0.85
	For 3" WG (Class B), Add	0.68	
	For 4" Or 6" WG (Class A), Add	1.81	
	For 24 Gauge, Add	0.28	
	For 22 Gauge, Add	0.63	
	For 20 Gauge, Add	1.04	
	For 18 Gauge, Add	1.59	
	For 16 Gauge, Add	1.93	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.02	
	For Work In Restricted Working Space, Add	1.36	
23 31 13 16-0077	LF 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	7.43	1.69
	For 3" WG (Class B), Add	0.81	
	For 4" Or 6" WG (Class A), Add	2.17	
	For 24 Gauge, Add	0.40	
	For 22 Gauge, Add	0.92	
	For 20 Gauge, Add	1.50	
	For 18 Gauge, Add	2.30	
	For 16 Gauge, Add	2.80	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.48	
	For Work In Restricted Working Space, Add	1.63	
23 31 13 16-0078	LF 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	9.35	1.69
	For 3" WG (Class B), Add	1.01	
	For 4" Or 6" WG (Class A), Add	2.69	
	For 24 Gauge, Add	0.53	
	For 22 Gauge, Add	1.21	
	For 20 Gauge, Add	1.97	
	For 18 Gauge, Add	3.02	
	For 16 Gauge, Add	3.68	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	1.95	
	For Work In Restricted Working Space, Add	2.02	
23 31 13 16-0079	LF 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	11.33	1.69
	For 3" WG (Class B), Add	1.21	
	For 4" Or 6" WG (Class A), Add	3.23	
	For 24 Gauge, Add	0.65	
	For 22 Gauge, Add	1.50	
	For 20 Gauge, Add	2.44	
	For 18 Gauge, Add	3.74	
	For 16 Gauge, Add	4.55	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.41	
	For Work In Restricted Working Space, Add	2.42	
23 31 13 16-0080	LF 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	14.12	2.53
	For 3" WG (Class B), Add	1.52	
	For 4" Or 6" WG (Class A), Add	4.05	
	For 24 Gauge, Add	0.80	
	For 22 Gauge, Add	1.84	
	For 20 Gauge, Add	3.00	
	For 18 Gauge, Add	4.60	
	For 16 Gauge, Add	5.60	
	For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.96	
	For Work In Restricted Working Space, Add	3.04	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0081 LF 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	17.28	2.53
For 3" WG (Class B), Add	1.90	
For 4" Or 6" WG (Class A), Add	5.06	
For 24 Gauge, Add	0.93	
For 22 Gauge, Add	2.13	
For 20 Gauge, Add	3.47	
For 18 Gauge, Add	5.32	
For 16 Gauge, Add	6.48	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.43	
For Work In Restricted Working Space, Add	3.80	
23 31 13 16-0082 LF 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	23.58	2.53
For 3" WG (Class B), Add	2.53	
For 4" Or 6" WG (Class A), Add	6.74	
For 24 Gauge, Add	1.35	
For 22 Gauge, Add	3.10	
For 20 Gauge, Add	5.05	
For 18 Gauge, Add	7.74	
For 16 Gauge, Add	9.42	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.98	
For Work In Restricted Working Space, Add	5.06	
23 31 13 16-0083 LF 18" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	27.09	3.37
For 3" WG (Class B), Add	2.94	
For 4" Or 6" WG (Class A), Add	7.85	
For 24 Gauge, Add	1.49	
For 22 Gauge, Add	3.43	
For 20 Gauge, Add	5.60	
For 18 Gauge, Add	8.58	
For 16 Gauge, Add	10.44	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.52	
For Work In Restricted Working Space, Add	5.89	
23 31 13 16-0084 LF 20" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	30.62	3.37
For 3" WG (Class B), Add	3.35	
For 4" Or 6" WG (Class A), Add	8.92	
For 24 Gauge, Add	1.66	
For 22 Gauge, Add	3.83	
For 20 Gauge, Add	6.24	
For 18 Gauge, Add	9.57	
For 16 Gauge, Add	11.65	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.16	
For Work In Restricted Working Space, Add	6.69	
23 31 13 16-0085 LF 22" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	34.31	4.22
For 3" WG (Class B), Add	3.77	
For 4" Or 6" WG (Class A), Add	10.05	
For 24 Gauge, Add	1.84	
For 22 Gauge, Add	4.23	
For 20 Gauge, Add	6.89	
For 18 Gauge, Add	10.57	
For 16 Gauge, Add	12.87	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.80	
For Work In Restricted Working Space, Add	7.54	
23 31 13 16-0086 LF 24" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct.....	38.10	5.06
For 3" WG (Class B), Add	4.22	
For 4" Or 6" WG (Class A), Add	11.24	
For 24 Gauge, Add	2.00	
For 22 Gauge, Add	4.60	
For 20 Gauge, Add	7.49	
For 18 Gauge, Add	11.49	
For 16 Gauge, Add	13.99	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.39	
For Work In Restricted Working Space, Add	8.43	
23 31 13 16-0087 Slip Joint, Galvanized, Spiral 90 Degree Elbows (23 31 13 16-0074)		
23 31 13 16-0088 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	54.10	11.81
For 3" WG (Class B), Add	6.84	
For 4" Or 6" WG (Class A), Add	18.24	
For 24 Gauge, Add	1.70	
For 22 Gauge, Add	3.91	
For 20 Gauge, Add	6.38	
For 18 Gauge, Add	9.79	
For 16 Gauge, Add	11.91	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.30	
For Work In Restricted Working Space, Add	13.68	
23 31 13 16-0089 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	79.55	16.87
For 3" WG (Class B), Add	10.12	
For 4" Or 6" WG (Class A), Add	26.99	
For 24 Gauge, Add	2.42	
For 22 Gauge, Add	5.56	
For 20 Gauge, Add	9.06	
For 18 Gauge, Add	13.89	
For 16 Gauge, Add	16.91	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	8.94	
For Work In Restricted Working Space, Add	20.24	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR		TOTAL DIRECT		DEMOLITION
CSI	UOM	DESCRIPTION	UNIT COST	UNIT COST
23 31 13 16-0090	EA	8" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	111.82	21.92
		<i>For 3" WG (Class B), Add</i>	13.32	
		<i>For 4" Or 6" WG (Class A), Add</i>	35.51	
		<i>For 24 Gauge, Add</i>	4.61	
		<i>For 22 Gauge, Add</i>	10.60	
		<i>For 20 Gauge, Add</i>	17.28	
		<i>For 18 Gauge, Add</i>	26.50	
		<i>For 16 Gauge, Add</i>	32.26	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	17.05	
		<i>For Work In Restricted Working Space, Add</i>	26.63	
23 31 13 16-0091	EA	10" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	139.58	27.83
		<i>For 3" WG (Class B), Add</i>	16.87	
		<i>For 4" Or 6" WG (Class A), Add</i>	44.98	
		<i>For 24 Gauge, Add</i>	5.43	
		<i>For 22 Gauge, Add</i>	12.48	
		<i>For 20 Gauge, Add</i>	20.35	
		<i>For 18 Gauge, Add</i>	31.20	
		<i>For 16 Gauge, Add</i>	37.98	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	20.08	
		<i>For Work In Restricted Working Space, Add</i>	33.74	
23 31 13 16-0092	EA	12" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	172.42	35.42
		<i>For 3" WG (Class B), Add</i>	21.08	
		<i>For 4" Or 6" WG (Class A), Add</i>	56.22	
		<i>For 24 Gauge, Add</i>	6.37	
		<i>For 22 Gauge, Add</i>	14.66	
		<i>For 20 Gauge, Add</i>	23.90	
		<i>For 18 Gauge, Add</i>	36.64	
		<i>For 16 Gauge, Add</i>	44.60	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	23.58	
		<i>For Work In Restricted Working Space, Add</i>	42.17	
23 31 13 16-0093	EA	14" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	188.80	38.80
		<i>For 3" WG (Class B), Add</i>	23.00	
		<i>For 4" Or 6" WG (Class A), Add</i>	61.34	
		<i>For 24 Gauge, Add</i>	7.09	
		<i>For 22 Gauge, Add</i>	16.31	
		<i>For 20 Gauge, Add</i>	26.60	
		<i>For 18 Gauge, Add</i>	40.78	
		<i>For 16 Gauge, Add</i>	49.64	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	26.24	
		<i>For Work In Restricted Working Space, Add</i>	46.00	
23 31 13 16-0094	EA	16" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	222.87	45.54
		<i>For 3" WG (Class B), Add</i>	27.21	
		<i>For 4" Or 6" WG (Class A), Add</i>	72.55	
		<i>For 24 Gauge, Add</i>	8.30	
		<i>For 22 Gauge, Add</i>	19.09	
		<i>For 20 Gauge, Add</i>	31.13	
		<i>For 18 Gauge, Add</i>	47.73	
		<i>For 16 Gauge, Add</i>	58.10	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	30.71	
		<i>For Work In Restricted Working Space, Add</i>	54.41	
23 31 13 16-0095	EA	18" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	272.65	56.50
		<i>For 3" WG (Class B), Add</i>	33.73	
		<i>For 4" Or 6" WG (Class A), Add</i>	89.96	
		<i>For 24 Gauge, Add</i>	9.55	
		<i>For 22 Gauge, Add</i>	21.97	
		<i>For 20 Gauge, Add</i>	35.82	
		<i>For 18 Gauge, Add</i>	54.92	
		<i>For 16 Gauge, Add</i>	66.86	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	35.34	
		<i>For Work In Restricted Working Space, Add</i>	67.47	
23 31 13 16-0096	EA	20" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	328.43	68.31
		<i>For 3" WG (Class B), Add</i>	40.81	
		<i>For 4" Or 6" WG (Class A), Add</i>	108.82	
		<i>For 24 Gauge, Add</i>	11.27	
		<i>For 22 Gauge, Add</i>	25.93	
		<i>For 20 Gauge, Add</i>	42.28	
		<i>For 18 Gauge, Add</i>	64.83	
		<i>For 16 Gauge, Add</i>	78.92	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	41.71	
		<i>For Work In Restricted Working Space, Add</i>	81.62	
23 31 13 16-0097	EA	22" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	382.23	79.27
		<i>For 3" WG (Class B), Add</i>	47.74	
		<i>For 4" Or 6" WG (Class A), Add</i>	127.30	
		<i>For 24 Gauge, Add</i>	12.80	
		<i>For 22 Gauge, Add</i>	29.43	
		<i>For 20 Gauge, Add</i>	47.99	
		<i>For 18 Gauge, Add</i>	73.58	
		<i>For 16 Gauge, Add</i>	89.57	
		<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	47.35	
		<i>For Work In Restricted Working Space, Add</i>	95.48	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0098 EA 24" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 90 Degree Elbow	437.84	90.24
<i>For 3" WG (Class B), Add</i>	53.83	
<i>For 4" Or 6" WG (Class A), Add</i>	143.55	
<i>For 24 Gauge, Add</i>	15.79	
<i>For 22 Gauge, Add</i>	36.32	
<i>For 20 Gauge, Add</i>	59.22	
<i>For 18 Gauge, Add</i>	90.80	
<i>For 16 Gauge, Add</i>	110.54	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	58.43	
<i>For Work In Restricted Working Space, Add</i>	107.66	
23 31 13 16-0099 Slip Joint, Galvanized, Spiral Duct 45 Degree Elbows <small>(23 31 13 16-0074)</small>		
23 31 13 16-0100 EA 4" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	54.50	11.81
<i>For 3" WG (Class B), Add</i>	6.84	
<i>For 4" Or 6" WG (Class A), Add</i>	18.24	
<i>For 24 Gauge, Add</i>	1.78	
<i>For 22 Gauge, Add</i>	4.10	
<i>For 20 Gauge, Add</i>	6.68	
<i>For 18 Gauge, Add</i>	10.25	
<i>For 16 Gauge, Add</i>	12.47	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	6.59	
<i>For Work In Restricted Working Space, Add</i>	13.68	
23 31 13 16-0101 EA 6" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	77.48	16.87
<i>For 3" WG (Class B), Add</i>	10.12	
<i>For 4" Or 6" WG (Class A), Add</i>	26.99	
<i>For 24 Gauge, Add</i>	2.00	
<i>For 22 Gauge, Add</i>	4.60	
<i>For 20 Gauge, Add</i>	7.51	
<i>For 18 Gauge, Add</i>	11.51	
<i>For 16 Gauge, Add</i>	14.01	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	7.41	
<i>For Work In Restricted Working Space, Add</i>	20.24	
23 31 13 16-0102 EA 8" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	102.20	21.92
<i>For 3" WG (Class B), Add</i>	13.32	
<i>For 4" Or 6" WG (Class A), Add</i>	35.51	
<i>For 24 Gauge, Add</i>	2.68	
<i>For 22 Gauge, Add</i>	6.17	
<i>For 20 Gauge, Add</i>	10.07	
<i>For 18 Gauge, Add</i>	15.43	
<i>For 16 Gauge, Add</i>	18.79	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	9.93	
<i>For Work In Restricted Working Space, Add</i>	26.63	
23 31 13 16-0103 EA 10" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	129.23	27.83
<i>For 3" WG (Class B), Add</i>	16.87	
<i>For 4" Or 6" WG (Class A), Add</i>	44.98	
<i>For 24 Gauge, Add</i>	3.36	
<i>For 22 Gauge, Add</i>	7.72	
<i>For 20 Gauge, Add</i>	12.59	
<i>For 18 Gauge, Add</i>	19.30	
<i>For 16 Gauge, Add</i>	23.49	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	12.42	
<i>For Work In Restricted Working Space, Add</i>	33.74	
23 31 13 16-0104 EA 12" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	160.06	35.42
<i>For 3" WG (Class B), Add</i>	21.08	
<i>For 4" Or 6" WG (Class A), Add</i>	56.22	
<i>For 24 Gauge, Add</i>	3.90	
<i>For 22 Gauge, Add</i>	8.97	
<i>For 20 Gauge, Add</i>	14.63	
<i>For 18 Gauge, Add</i>	22.43	
<i>For 16 Gauge, Add</i>	27.30	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	14.43	
<i>For Work In Restricted Working Space, Add</i>	42.17	
23 31 13 16-0105 EA 14" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	175.02	38.80
<i>For 3" WG (Class B), Add</i>	23.00	
<i>For 4" Or 6" WG (Class A), Add</i>	61.34	
<i>For 24 Gauge, Add</i>	4.34	
<i>For 22 Gauge, Add</i>	9.97	
<i>For 20 Gauge, Add</i>	16.26	
<i>For 18 Gauge, Add</i>	24.93	
<i>For 16 Gauge, Add</i>	30.35	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	16.04	
<i>For Work In Restricted Working Space, Add</i>	46.00	
23 31 13 16-0106 EA 16" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	216.90	45.54
<i>For 3" WG (Class B), Add</i>	27.21	
<i>For 4" Or 6" WG (Class A), Add</i>	72.55	
<i>For 24 Gauge, Add</i>	7.11	
<i>For 22 Gauge, Add</i>	16.34	
<i>For 20 Gauge, Add</i>	26.65	
<i>For 18 Gauge, Add</i>	40.86	
<i>For 16 Gauge, Add</i>	49.74	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	26.29	
<i>For Work In Restricted Working Space, Add</i>	54.41	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0107	EA		18" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	268.42	56.50
			<i>For 3" WG (Class B), Add</i>	33.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	89.96	
			<i>For 24 Gauge, Add</i>	8.71	
			<i>For 22 Gauge, Add</i>	20.02	
			<i>For 20 Gauge, Add</i>	32.65	
			<i>For 18 Gauge, Add</i>	50.06	
			<i>For 16 Gauge, Add</i>	60.94	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	32.21	
			<i>For Work In Restricted Working Space, Add</i>	67.47	
23 31 13 16-0108	EA		20" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	327.14	68.31
			<i>For 3" WG (Class B), Add</i>	40.81	
			<i>For 4" Or 6" WG (Class A), Add</i>	108.82	
			<i>For 24 Gauge, Add</i>	11.02	
			<i>For 22 Gauge, Add</i>	25.34	
			<i>For 20 Gauge, Add</i>	41.31	
			<i>For 18 Gauge, Add</i>	63.34	
			<i>For 16 Gauge, Add</i>	77.11	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	40.76	
			<i>For Work In Restricted Working Space, Add</i>	81.62	
23 31 13 16-0109	EA		22" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	367.55	79.27
			<i>For 3" WG (Class B), Add</i>	47.74	
			<i>For 4" Or 6" WG (Class A), Add</i>	127.30	
			<i>For 24 Gauge, Add</i>	9.86	
			<i>For 22 Gauge, Add</i>	22.68	
			<i>For 20 Gauge, Add</i>	36.98	
			<i>For 18 Gauge, Add</i>	56.70	
			<i>For 16 Gauge, Add</i>	69.02	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	36.48	
			<i>For Work In Restricted Working Space, Add</i>	95.48	
23 31 13 16-0110	EA		24" Diameter, 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Elbow	432.61	90.24
			<i>For 3" WG (Class B), Add</i>	53.83	
			<i>For 4" Or 6" WG (Class A), Add</i>	143.55	
			<i>For 24 Gauge, Add</i>	14.75	
			<i>For 22 Gauge, Add</i>	33.92	
			<i>For 20 Gauge, Add</i>	55.30	
			<i>For 18 Gauge, Add</i>	84.79	
			<i>For 16 Gauge, Add</i>	103.22	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	54.56	
			<i>For Work In Restricted Working Space, Add</i>	107.66	
23 31 13 16-0111			Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Laterals <small>(23 31 13 16-0074)</small>		
23 31 13 16-0112	EA		6" x 6" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	107.93	21.92
			<i>For 3" WG (Class B), Add</i>	13.32	
			<i>For 4" Or 6" WG (Class A), Add</i>	35.51	
			<i>For 24 Gauge, Add</i>	3.83	
			<i>For 22 Gauge, Add</i>	8.81	
			<i>For 20 Gauge, Add</i>	14.36	
			<i>For 18 Gauge, Add</i>	22.02	
			<i>For 16 Gauge, Add</i>	26.81	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	14.17	
			<i>For Work In Restricted Working Space, Add</i>	26.63	
23 31 13 16-0113	EA		8" x 8" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	160.64	35.42
			<i>For 3" WG (Class B), Add</i>	21.08	
			<i>For 4" Or 6" WG (Class A), Add</i>	56.22	
			<i>For 24 Gauge, Add</i>	4.02	
			<i>For 22 Gauge, Add</i>	9.24	
			<i>For 20 Gauge, Add</i>	15.06	
			<i>For 18 Gauge, Add</i>	23.09	
			<i>For 16 Gauge, Add</i>	28.11	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	14.86	
			<i>For Work In Restricted Working Space, Add</i>	42.17	
23 31 13 16-0114	EA		10" x 10" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	203.41	45.54
			<i>For 3" WG (Class B), Add</i>	27.21	
			<i>For 4" Or 6" WG (Class A), Add</i>	72.55	
			<i>For 24 Gauge, Add</i>	4.41	
			<i>For 22 Gauge, Add</i>	10.14	
			<i>For 20 Gauge, Add</i>	16.53	
			<i>For 18 Gauge, Add</i>	25.35	
			<i>For 16 Gauge, Add</i>	30.86	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	16.31	
			<i>For Work In Restricted Working Space, Add</i>	54.41	
23 31 13 16-0115	EA		12" x 12" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral	247.92	56.50
			<i>For 3" WG (Class B), Add</i>	33.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	89.96	
			<i>For 24 Gauge, Add</i>	4.61	
			<i>For 22 Gauge, Add</i>	10.59	
			<i>For 20 Gauge, Add</i>	17.27	
			<i>For 18 Gauge, Add</i>	26.48	
			<i>For 16 Gauge, Add</i>	32.24	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	17.04	
			<i>For Work In Restricted Working Space, Add</i>	67.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0116 EA 14" x 14" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	295.84	68.31
<i>For 3" WG (Class B), Add</i>	40.81	
<i>For 4" Or 6" WG (Class A), Add</i>	108.82	
<i>For 24 Gauge, Add</i>	4.76	
<i>For 22 Gauge, Add</i>	10.94	
<i>For 20 Gauge, Add</i>	17.84	
<i>For 18 Gauge, Add</i>	27.35	
<i>For 16 Gauge, Add</i>	33.29	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	17.60	
<i>For Work In Restricted Working Space, Add</i>	81.62	
23 31 13 16-0117 EA 16" x 16" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	344.11	79.27
<i>For 3" WG (Class B), Add</i>	47.74	
<i>For 4" Or 6" WG (Class A), Add</i>	127.30	
<i>For 24 Gauge, Add</i>	5.17	
<i>For 22 Gauge, Add</i>	11.90	
<i>For 20 Gauge, Add</i>	19.40	
<i>For 18 Gauge, Add</i>	29.74	
<i>For 16 Gauge, Add</i>	36.20	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	19.14	
<i>For Work In Restricted Working Space, Add</i>	95.48	
23 31 13 16-0118 EA 18" x 18" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	385.79	90.24
<i>For 3" WG (Class B), Add</i>	53.83	
<i>For 4" Or 6" WG (Class A), Add</i>	143.55	
<i>For 24 Gauge, Add</i>	5.38	
<i>For 22 Gauge, Add</i>	12.38	
<i>For 20 Gauge, Add</i>	20.18	
<i>For 18 Gauge, Add</i>	30.95	
<i>For 16 Gauge, Add</i>	37.67	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	19.91	
<i>For Work In Restricted Working Space, Add</i>	107.66	
23 31 13 16-0119 EA 20" x 20" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	439.28	102.89
<i>For 3" WG (Class B), Add</i>	61.71	
<i>For 4" Or 6" WG (Class A), Add</i>	164.56	
<i>For 24 Gauge, Add</i>	5.58	
<i>For 22 Gauge, Add</i>	12.83	
<i>For 20 Gauge, Add</i>	20.92	
<i>For 18 Gauge, Add</i>	32.07	
<i>For 16 Gauge, Add</i>	39.05	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	20.64	
<i>For Work In Restricted Working Space, Add</i>	123.42	
23 31 13 16-0120 EA 22" x 22" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	489.43	113.85
<i>For 3" WG (Class B), Add</i>	68.38	
<i>For 4" Or 6" WG (Class A), Add</i>	182.35	
<i>For 24 Gauge, Add</i>	6.71	
<i>For 22 Gauge, Add</i>	15.44	
<i>For 20 Gauge, Add</i>	25.17	
<i>For 18 Gauge, Add</i>	38.59	
<i>For 16 Gauge, Add</i>	46.98	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	24.83	
<i>For Work In Restricted Working Space, Add</i>	136.76	
23 31 13 16-0121 EA 24" x 24" x 4", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	530.75	123.98
<i>For 3" WG (Class B), Add</i>	74.41	
<i>For 4" Or 6" WG (Class A), Add</i>	198.44	
<i>For 24 Gauge, Add</i>	6.93	
<i>For 22 Gauge, Add</i>	15.94	
<i>For 20 Gauge, Add</i>	26.00	
<i>For 18 Gauge, Add</i>	39.86	
<i>For 16 Gauge, Add</i>	48.52	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	25.65	
<i>For Work In Restricted Working Space, Add</i>	148.83	
23 31 13 16-0122 EA 8" x 8" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	169.76	38.20
<i>For 3" WG (Class B), Add</i>	22.93	
<i>For 4" Or 6" WG (Class A), Add</i>	61.16	
<i>For 24 Gauge, Add</i>	3.37	
<i>For 22 Gauge, Add</i>	7.76	
<i>For 20 Gauge, Add</i>	12.65	
<i>For 18 Gauge, Add</i>	19.40	
<i>For 16 Gauge, Add</i>	23.62	
<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	12.48	
<i>For Work In Restricted Working Space, Add</i>	45.87	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 31 13 16-0123	EA	10" x 10" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	205.11		45.96
		For 3" WG (Class B), Add	27.57		
		For 4" Or 6" WG (Class A), Add	73.52		
		For 24 Gauge, Add	4.26		
		For 22 Gauge, Add	9.80		
		For 20 Gauge, Add	15.98		
		For 18 Gauge, Add	24.50		
		For 16 Gauge, Add	29.82		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	15.76		
		For Work In Restricted Working Space, Add	55.14		
23 31 13 16-0124	EA	12" x 12" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	249.19		55.83
		For 3" WG (Class B), Add	33.50		
		For 4" Or 6" WG (Class A), Add	89.34		
		For 24 Gauge, Add	5.17		
		For 22 Gauge, Add	11.89		
		For 20 Gauge, Add	19.39		
		For 18 Gauge, Add	29.73		
		For 16 Gauge, Add	36.19		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.13		
		For Work In Restricted Working Space, Add	67.00		
23 31 13 16-0125	EA	14" x 14" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	296.66		66.37
		For 3" WG (Class B), Add	39.88		
		For 4" Or 6" WG (Class A), Add	106.35		
		For 24 Gauge, Add	6.16		
		For 22 Gauge, Add	14.16		
		For 20 Gauge, Add	23.09		
		For 18 Gauge, Add	35.41		
		For 16 Gauge, Add	43.11		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	22.78		
		For Work In Restricted Working Space, Add	79.76		
23 31 13 16-0126	EA	16" x 16" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	376.85		85.34
		For 3" WG (Class B), Add	51.17		
		For 4" Or 6" WG (Class A), Add	136.46		
		For 24 Gauge, Add	7.14		
		For 22 Gauge, Add	16.42		
		For 20 Gauge, Add	26.77		
		For 18 Gauge, Add	41.04		
		For 16 Gauge, Add	49.97		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	26.41		
		For Work In Restricted Working Space, Add	102.35		
23 31 13 16-0127	EA	18" x 18" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	418.52		94.70
		For 3" WG (Class B), Add	56.78		
		For 4" Or 6" WG (Class A), Add	151.41		
		For 24 Gauge, Add	8.00		
		For 22 Gauge, Add	18.40		
		For 20 Gauge, Add	29.99		
		For 18 Gauge, Add	45.99		
		For 16 Gauge, Add	55.99		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	29.59		
		For Work In Restricted Working Space, Add	113.56		
23 31 13 16-0128	EA	20" x 20" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	475.80		107.78
		For 3" WG (Class B), Add	64.54		
		For 4" Or 6" WG (Class A), Add	172.11		
		For 24 Gauge, Add	9.10		
		For 22 Gauge, Add	20.94		
		For 20 Gauge, Add	34.14		
		For 18 Gauge, Add	52.35		
		For 16 Gauge, Add	63.73		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	33.68		
		For Work In Restricted Working Space, Add	129.08		
23 31 13 16-0129	EA	22" x 22" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	510.07		114.95
		For 3" WG (Class B), Add	68.90		
		For 4" Or 6" WG (Class A), Add	183.74		
		For 24 Gauge, Add	10.15		
		For 22 Gauge, Add	23.34		
		For 20 Gauge, Add	38.05		
		For 18 Gauge, Add	58.34		
		For 16 Gauge, Add	71.02		
		For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	37.54		
		For Work In Restricted Working Space, Add	137.80		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0130 EA 24" x 24" x 6", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	553.41	124.65
For 3" WG (Class B), Add	74.77	
For 4" Or 6" WG (Class A), Add	199.38	
For 24 Gauge, Add	10.99	
For 22 Gauge, Add	25.29	
For 20 Gauge, Add	41.23	
For 18 Gauge, Add	63.22	
For 16 Gauge, Add	76.96	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	40.68	
For Work In Restricted Working Space, Add	149.53	
23 31 13 16-0131 EA 10" x 10" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	224.57	50.60
For 3" WG (Class B), Add	30.32	
For 4" Or 6" WG (Class A), Add	80.86	
For 24 Gauge, Add	4.49	
For 22 Gauge, Add	10.32	
For 20 Gauge, Add	16.82	
For 18 Gauge, Add	25.79	
For 16 Gauge, Add	31.40	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.60	
For Work In Restricted Working Space, Add	60.64	
23 31 13 16-0132 EA 12" x 12" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	272.93	61.57
For 3" WG (Class B), Add	36.86	
For 4" Or 6" WG (Class A), Add	98.29	
For 24 Gauge, Add	5.44	
For 22 Gauge, Add	12.51	
For 20 Gauge, Add	20.40	
For 18 Gauge, Add	31.28	
For 16 Gauge, Add	38.08	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	20.13	
For Work In Restricted Working Space, Add	73.72	
23 31 13 16-0133 EA 14" x 14" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	324.85	72.95
For 3" WG (Class B), Add	43.86	
For 4" Or 6" WG (Class A), Add	116.97	
For 24 Gauge, Add	6.48	
For 22 Gauge, Add	14.91	
For 20 Gauge, Add	24.32	
For 18 Gauge, Add	37.28	
For 16 Gauge, Add	45.39	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	23.99	
For Work In Restricted Working Space, Add	87.73	
23 31 13 16-0134 EA 16" x 16" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	377.09	85.01
For 3" WG (Class B), Add	50.93	
For 4" Or 6" WG (Class A), Add	135.81	
For 24 Gauge, Add	7.51	
For 22 Gauge, Add	17.28	
For 20 Gauge, Add	28.18	
For 18 Gauge, Add	43.21	
For 16 Gauge, Add	52.60	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	27.80	
For Work In Restricted Working Space, Add	101.86	
23 31 13 16-0135 EA 18" x 18" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	421.98	95.05
For 3" WG (Class B), Add	56.98	
For 4" Or 6" WG (Class A), Add	151.96	
For 24 Gauge, Add	8.42	
For 22 Gauge, Add	19.36	
For 20 Gauge, Add	31.57	
For 18 Gauge, Add	48.40	
For 16 Gauge, Add	58.93	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	31.15	
For Work In Restricted Working Space, Add	113.97	
23 31 13 16-0136 EA 20" x 20" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing		
Lateral.....	479.96	108.11
For 3" WG (Class B), Add	64.81	
For 4" Or 6" WG (Class A), Add	172.82	
For 24 Gauge, Add	9.58	
For 22 Gauge, Add	22.04	
For 20 Gauge, Add	35.93	
For 18 Gauge, Add	55.10	
For 16 Gauge, Add	67.07	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	35.45	
For Work In Restricted Working Space, Add	129.62	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0137	EA		22" x 22" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	535.87	120.60
			For 3" WG (Class B), Add	72.37	
			For 4" Or 6" WG (Class A), Add	192.99	
			For 24 Gauge, Add	10.68	
			For 22 Gauge, Add	24.56	
			For 20 Gauge, Add	40.05	
			For 18 Gauge, Add	61.41	
			For 16 Gauge, Add	74.76	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	39.52	
			For Work In Restricted Working Space, Add	144.74	
23 31 13 16-0138	EA		24" x 24" x 8", 26 Gauge, 2" WG And Less (Class C), Slip Joint, Galvanized, Spiral Duct 45 Degree Reducing Lateral.....	581.03	130.89
			For 3" WG (Class B), Add	78.48	
			For 4" Or 6" WG (Class A), Add	209.27	
			For 24 Gauge, Add	11.57	
			For 22 Gauge, Add	26.62	
			For 20 Gauge, Add	43.40	
			For 18 Gauge, Add	66.54	
			For 16 Gauge, Add	81.00	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	42.82	
			For Work In Restricted Working Space, Add	156.95	
23 31 13 16-0139			Slip Joint, Galvanized, Spiral Duct Reducers <small>(23 31 13 16-0074)</small>		
23 31 13 16-0140	EA		6" x 4", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	74.36	16.87
			For 3" WG (Class B), Add	10.12	
			For 4" Or 6" WG (Class A), Add	26.99	
			For 24 Gauge, Add	1.38	
			For 22 Gauge, Add	3.17	
			For 20 Gauge, Add	5.17	
			For 18 Gauge, Add	7.92	
			For 16 Gauge, Add	9.65	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.10	
			For Work In Restricted Working Space, Add	20.24	
23 31 13 16-0141	EA		8" x 6", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	96.36	21.92
			For 3" WG (Class B), Add	13.32	
			For 4" Or 6" WG (Class A), Add	35.51	
			For 24 Gauge, Add	1.52	
			For 22 Gauge, Add	3.49	
			For 20 Gauge, Add	5.69	
			For 18 Gauge, Add	8.72	
			For 16 Gauge, Add	10.61	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.61	
			For Work In Restricted Working Space, Add	26.63	
23 31 13 16-0142	EA		10" x 8", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	120.84	27.83
			For 3" WG (Class B), Add	16.87	
			For 4" Or 6" WG (Class A), Add	44.98	
			For 24 Gauge, Add	1.68	
			For 22 Gauge, Add	3.86	
			For 20 Gauge, Add	6.29	
			For 18 Gauge, Add	9.65	
			For 16 Gauge, Add	11.75	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.21	
			For Work In Restricted Working Space, Add	33.74	
23 31 13 16-0143	EA		12" x 10", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	149.76	35.42
			For 3" WG (Class B), Add	21.08	
			For 4" Or 6" WG (Class A), Add	56.22	
			For 24 Gauge, Add	1.84	
			For 22 Gauge, Add	4.23	
			For 20 Gauge, Add	6.90	
			For 18 Gauge, Add	10.58	
			For 16 Gauge, Add	12.88	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	6.81	
			For Work In Restricted Working Space, Add	42.17	
23 31 13 16-0144	EA		14" x 12", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	163.58	38.80
			For 3" WG (Class B), Add	23.00	
			For 4" Or 6" WG (Class A), Add	61.34	
			For 24 Gauge, Add	2.05	
			For 22 Gauge, Add	4.71	
			For 20 Gauge, Add	7.68	
			For 18 Gauge, Add	11.78	
			For 16 Gauge, Add	14.34	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	7.58	
			For Work In Restricted Working Space, Add	46.00	
23 31 13 16-0145	EA		16" x 14", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	199.08	45.54
			For 3" WG (Class B), Add	27.21	
			For 4" Or 6" WG (Class A), Add	72.55	
			For 24 Gauge, Add	3.54	
			For 22 Gauge, Add	8.15	
			For 20 Gauge, Add	13.28	
			For 18 Gauge, Add	20.37	
			For 16 Gauge, Add	24.79	
			For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	13.11	
			For Work In Restricted Working Space, Add	54.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0146 EA 18" x 16", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	243.81	56.50
For 3" WG (Class B), Add	33.73	
For 4" Or 6" WG (Class A), Add	89.96	
For 24 Gauge, Add	3.78	
For 22 Gauge, Add	8.70	
For 20 Gauge, Add	14.19	
For 18 Gauge, Add	21.76	
For 16 Gauge, Add	26.49	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.00	
For Work In Restricted Working Space, Add	67.47	
23 31 13 16-0147 EA 20" x 18", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	292.25	68.31
For 3" WG (Class B), Add	40.81	
For 4" Or 6" WG (Class A), Add	108.82	
For 24 Gauge, Add	4.04	
For 22 Gauge, Add	9.29	
For 20 Gauge, Add	15.14	
For 18 Gauge, Add	23.22	
For 16 Gauge, Add	28.27	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	14.94	
For Work In Restricted Working Space, Add	81.62	
23 31 13 16-0148 EA 22" x 20", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	339.72	79.27
For 3" WG (Class B), Add	47.74	
For 4" Or 6" WG (Class A), Add	127.30	
For 24 Gauge, Add	4.29	
For 22 Gauge, Add	9.88	
For 20 Gauge, Add	16.10	
For 18 Gauge, Add	24.69	
For 16 Gauge, Add	30.06	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	15.89	
For Work In Restricted Working Space, Add	95.48	
23 31 13 16-0149 EA 24" x 22", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Reducer.....	381.50	90.24
For 3" WG (Class B), Add	53.83	
For 4" Or 6" WG (Class A), Add	143.55	
For 24 Gauge, Add	4.52	
For 22 Gauge, Add	10.41	
For 20 Gauge, Add	16.97	
For 18 Gauge, Add	26.01	
For 16 Gauge, Add	31.67	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	16.74	
For Work In Restricted Working Space, Add	107.66	
23 31 13 16-0150 Slip Joint, Galvanized, Spiral Duct Couplings (23 31 13 16-0074)		
23 31 13 16-0151 EA 4", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	48.85	11.81
For 3" WG (Class B), Add	6.84	
For 4" Or 6" WG (Class A), Add	18.24	
For 24 Gauge, Add	0.65	
For 22 Gauge, Add	1.50	
For 20 Gauge, Add	2.45	
For 18 Gauge, Add	3.75	
For 16 Gauge, Add	4.56	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.41	
For Work In Restricted Working Space, Add	13.68	
23 31 13 16-0152 EA 6", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	71.17	16.87
For 3" WG (Class B), Add	10.12	
For 4" Or 6" WG (Class A), Add	26.99	
For 24 Gauge, Add	0.74	
For 22 Gauge, Add	1.70	
For 20 Gauge, Add	2.78	
For 18 Gauge, Add	4.26	
For 16 Gauge, Add	5.18	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.74	
For Work In Restricted Working Space, Add	20.24	
23 31 13 16-0153 EA 8", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	92.77	21.92
For 3" WG (Class B), Add	13.32	
For 4" Or 6" WG (Class A), Add	35.51	
For 24 Gauge, Add	0.80	
For 22 Gauge, Add	1.84	
For 20 Gauge, Add	2.99	
For 18 Gauge, Add	4.59	
For 16 Gauge, Add	5.59	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	2.95	
For Work In Restricted Working Space, Add	26.63	
23 31 13 16-0154 EA 10", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling.....	116.73	27.83
For 3" WG (Class B), Add	16.87	
For 4" Or 6" WG (Class A), Add	44.98	
For 24 Gauge, Add	0.86	
For 22 Gauge, Add	1.97	
For 20 Gauge, Add	3.21	
For 18 Gauge, Add	4.92	
For 16 Gauge, Add	5.99	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.17	
For Work In Restricted Working Space, Add	33.74	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0155	EA		12", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	145.13	35.42
			<i>For 3" WG (Class B), Add</i>	21.08	
			<i>For 4" Or 6" WG (Class A), Add</i>	56.22	
			<i>For 24 Gauge, Add</i>	0.91	
			<i>For 22 Gauge, Add</i>	2.10	
			<i>For 20 Gauge, Add</i>	3.43	
			<i>For 18 Gauge, Add</i>	5.26	
			<i>For 16 Gauge, Add</i>	6.40	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.38	
			<i>For Work In Restricted Working Space, Add</i>	42.17	
23 31 13 16-0156	EA		14", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	158.20	38.80
			<i>For 3" WG (Class B), Add</i>	23.00	
			<i>For 4" Or 6" WG (Class A), Add</i>	61.34	
			<i>For 24 Gauge, Add</i>	0.97	
			<i>For 22 Gauge, Add</i>	2.24	
			<i>For 20 Gauge, Add</i>	3.65	
			<i>For 18 Gauge, Add</i>	5.59	
			<i>For 16 Gauge, Add</i>	6.80	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.60	
			<i>For Work In Restricted Working Space, Add</i>	46.00	
23 31 13 16-0157	EA		16", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	186.75	45.54
			<i>For 3" WG (Class B), Add</i>	27.21	
			<i>For 4" Or 6" WG (Class A), Add</i>	72.55	
			<i>For 24 Gauge, Add</i>	1.08	
			<i>For 22 Gauge, Add</i>	2.47	
			<i>For 20 Gauge, Add</i>	4.04	
			<i>For 18 Gauge, Add</i>	6.19	
			<i>For 16 Gauge, Add</i>	7.53	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	3.98	
			<i>For Work In Restricted Working Space, Add</i>	54.41	
23 31 13 16-0158	EA		18", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	230.56	56.50
			<i>For 3" WG (Class B), Add</i>	33.73	
			<i>For 4" Or 6" WG (Class A), Add</i>	89.96	
			<i>For 24 Gauge, Add</i>	1.13	
			<i>For 22 Gauge, Add</i>	2.61	
			<i>For 20 Gauge, Add</i>	4.25	
			<i>For 18 Gauge, Add</i>	6.52	
			<i>For 16 Gauge, Add</i>	7.94	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.20	
			<i>For Work In Restricted Working Space, Add</i>	67.47	
23 31 13 16-0159	EA		20", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	278.08	68.31
			<i>For 3" WG (Class B), Add</i>	40.81	
			<i>For 4" Or 6" WG (Class A), Add</i>	108.82	
			<i>For 24 Gauge, Add</i>	1.20	
			<i>For 22 Gauge, Add</i>	2.77	
			<i>For 20 Gauge, Add</i>	4.52	
			<i>For 18 Gauge, Add</i>	6.92	
			<i>For 16 Gauge, Add</i>	8.43	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.45	
			<i>For Work In Restricted Working Space, Add</i>	81.62	
23 31 13 16-0160	EA		22", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	324.50	159.39
			<i>For 3" WG (Class B), Add</i>	47.74	
			<i>For 4" Or 6" WG (Class A), Add</i>	127.30	
			<i>For 24 Gauge, Add</i>	1.25	
			<i>For 22 Gauge, Add</i>	2.88	
			<i>For 20 Gauge, Add</i>	4.69	
			<i>For 18 Gauge, Add</i>	7.19	
			<i>For 16 Gauge, Add</i>	8.75	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.63	
			<i>For Work In Restricted Working Space, Add</i>	95.48	
23 31 13 16-0161	EA		24", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Coupling	365.48	179.64
			<i>For 3" WG (Class B), Add</i>	53.83	
			<i>For 4" Or 6" WG (Class A), Add</i>	143.55	
			<i>For 24 Gauge, Add</i>	1.32	
			<i>For 22 Gauge, Add</i>	3.04	
			<i>For 20 Gauge, Add</i>	4.95	
			<i>For 18 Gauge, Add</i>	7.59	
			<i>For 16 Gauge, Add</i>	9.24	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	4.88	
			<i>For Work In Restricted Working Space, Add</i>	107.66	
23 31 13 16-0162			Slip Joint, Galvanized, Spiral Duct Caps <small>(23 31 13 16-0074)</small>		
23 31 13 16-0163	EA		4", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	26.61	11.81
			<i>For 3" WG (Class B), Add</i>	3.42	
			<i>For 4" Or 6" WG (Class A), Add</i>	9.12	
			<i>For 24 Gauge, Add</i>	0.76	
			<i>For 22 Gauge, Add</i>	1.76	
			<i>For 20 Gauge, Add</i>	2.87	
			<i>For 18 Gauge, Add</i>	4.39	
			<i>For 16 Gauge, Add</i>	5.35	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	2.83	
			<i>For Work In Restricted Working Space, Add</i>	6.84	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 16-0164 EA 6", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	38.01	16.87
For 3" WG (Class B), Add	5.06	
For 4" Or 6" WG (Class A), Add	13.49	
For 24 Gauge, Add	0.86	
For 22 Gauge, Add	1.97	
For 20 Gauge, Add	3.21	
For 18 Gauge, Add	4.92	
For 16 Gauge, Add	5.99	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.17	
For Work In Restricted Working Space, Add	10.12	
23 31 13 16-0165 EA 8", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	49.07	22.77
For 3" WG (Class B), Add	6.66	
For 4" Or 6" WG (Class A), Add	17.75	
For 24 Gauge, Add	0.94	
For 22 Gauge, Add	2.16	
For 20 Gauge, Add	3.52	
For 18 Gauge, Add	5.39	
For 16 Gauge, Add	6.57	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.47	
For Work In Restricted Working Space, Add	13.31	
23 31 13 16-0166 EA 10", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	61.43	28.67
For 3" WG (Class B), Add	8.43	
For 4" Or 6" WG (Class A), Add	22.49	
For 24 Gauge, Add	1.04	
For 22 Gauge, Add	2.40	
For 20 Gauge, Add	3.91	
For 18 Gauge, Add	5.99	
For 16 Gauge, Add	7.29	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	3.86	
For Work In Restricted Working Space, Add	16.87	
23 31 13 16-0167 EA 12", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	76.07	35.42
For 3" WG (Class B), Add	10.54	
For 4" Or 6" WG (Class A), Add	28.11	
For 24 Gauge, Add	1.16	
For 22 Gauge, Add	2.66	
For 20 Gauge, Add	4.34	
For 18 Gauge, Add	6.66	
For 16 Gauge, Add	8.11	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.28	
For Work In Restricted Working Space, Add	21.08	
23 31 13 16-0168 EA 14", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	83.03	38.80
For 3" WG (Class B), Add	11.50	
For 4" Or 6" WG (Class A), Add	30.67	
For 24 Gauge, Add	1.27	
For 22 Gauge, Add	2.93	
For 20 Gauge, Add	4.77	
For 18 Gauge, Add	7.31	
For 16 Gauge, Add	8.90	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	4.71	
For Work In Restricted Working Space, Add	23.00	
23 31 13 16-0169 EA 16", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	96.13	44.69
For 3" WG (Class B), Add	13.32	
For 4" Or 6" WG (Class A), Add	35.51	
For 24 Gauge, Add	1.47	
For 22 Gauge, Add	3.38	
For 20 Gauge, Add	5.51	
For 18 Gauge, Add	8.45	
For 16 Gauge, Add	10.29	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	5.44	
For Work In Restricted Working Space, Add	26.63	
23 31 13 16-0170 EA 18", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	137.21	56.50
For 3" WG (Class B), Add	16.87	
For 4" Or 6" WG (Class A), Add	44.98	
For 24 Gauge, Add	4.95	
For 22 Gauge, Add	11.39	
For 20 Gauge, Add	18.57	
For 18 Gauge, Add	28.47	
For 16 Gauge, Add	34.66	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	18.32	
For Work In Restricted Working Space, Add	33.74	
23 31 13 16-0171 EA 20", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	167.41	70.00
For 3" WG (Class B), Add	21.08	
For 4" Or 6" WG (Class A), Add	56.22	
For 24 Gauge, Add	5.37	
For 22 Gauge, Add	12.35	
For 20 Gauge, Add	20.14	
For 18 Gauge, Add	30.88	
For 16 Gauge, Add	37.59	
For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add	19.87	
For Work In Restricted Working Space, Add	42.17	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 31 13 16-0172	EA		22", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	182.27	76.75
			<i>For 3" WG (Class B), Add</i>	23.00	
			<i>For 4" Or 6" WG (Class A), Add</i>	61.34	
			<i>For 24 Gauge, Add</i>	5.79	
			<i>For 22 Gauge, Add</i>	13.31	
			<i>For 20 Gauge, Add</i>	21.70	
			<i>For 18 Gauge, Add</i>	33.27	
			<i>For 16 Gauge, Add</i>	40.50	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	21.41	
			<i>For Work In Restricted Working Space, Add</i>	46.00	
23 31 13 16-0173	EA		24", 26 Gauge, 2" WG And Less (Class C), 26 Gauge, Slip Joint, Galvanized, Spiral Duct Cap.....	210.50	89.40
			<i>For 3" WG (Class B), Add</i>	26.91	
			<i>For 4" Or 6" WG (Class A), Add</i>	71.77	
			<i>For 24 Gauge, Add</i>	6.21	
			<i>For 22 Gauge, Add</i>	14.29	
			<i>For 20 Gauge, Add</i>	23.30	
			<i>For 18 Gauge, Add</i>	35.73	
			<i>For 16 Gauge, Add</i>	43.50	
			<i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i>	22.99	
			<i>For Work In Restricted Working Space, Add</i>	53.83	

23 31 13 19 Metal Duct Fittings (23 31 13)

23 31 13 19-0001 Sheet Metal Baffles (23 31 13 19)

23 31 13 19-0002	LF		Sheet Metal Baffles Under Raised Floor.....	32.66	26.40
			<i>For Work In Restricted Working Space, Add</i>	9.65	
			<i>For Elevated Installation >10' To 15', Add</i>	3.22	
			<i>For Elevated Installation >15' To 20', Add</i>	6.43	
			<i>For Elevated Installation >20' To 25', Add</i>	8.04	
			<i>For Elevated Installation >25' To 30', Add</i>	11.26	
			<i>For Elevated Installation >30' To 35', Add</i>	12.87	
			<i>For Elevated Installation >35' To 40', Add</i>	16.09	
			<i>For Elevated Installation >40', Add</i>	17.69	

23 31 13 19-0003 Duct Register Boots (23 31 13 19)

23 31 13 19-0004	EA		10" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	27.58	11.41
			<i>For Stainless Steel, Add</i>	6.18	
23 31 13 19-0005	EA		10" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	27.58	11.41
			<i>For Stainless Steel, Add</i>	6.18	
23 31 13 19-0006	EA		12" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	29.51	12.33
			<i>For Stainless Steel, Add</i>	6.32	
23 31 13 19-0007	EA		12" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	29.51	12.33
			<i>For Stainless Steel, Add</i>	6.32	
23 31 13 19-0008	EA		12" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	30.68	12.33
			<i>For Stainless Steel, Add</i>	7.84	
23 31 13 19-0009	EA		14" x 2-1/4" x 5" Register Boot, 90 Degree, Galvanized Steel.....	31.93	13.24
			<i>For Stainless Steel, Add</i>	7.07	
23 31 13 19-0010	EA		14" x 2-1/4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	31.93	13.24
			<i>For Stainless Steel, Add</i>	7.07	
23 31 13 19-0011	EA		14" x 2-1/4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	32.66	13.24
			<i>For Stainless Steel, Add</i>	8.02	
23 31 13 19-0012	EA		10" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	32.59	14.16
			<i>For Stainless Steel, Add</i>	5.56	
23 31 13 19-0013	EA		12" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	34.54	15.06
			<i>For Stainless Steel, Add</i>	5.72	
23 31 13 19-0014	EA		12" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	37.53	15.06
			<i>For Stainless Steel, Add</i>	9.61	
23 31 13 19-0015	EA		14" x 4" x 6" Register Boot, 90 Degree, Galvanized Steel.....	36.63	15.98
			<i>For Stainless Steel, Add</i>	6.07	
23 31 13 19-0016	EA		14" x 4" x 7" Register Boot, 90 Degree, Galvanized Steel.....	39.55	15.98
			<i>For Stainless Steel, Add</i>	9.87	
23 31 13 19-0017	EA		12" x 2-1/4" x 5" Register Boot, Center, Galvanized Steel.....	28.80	12.33
			<i>For Stainless Steel, Add</i>	5.40	
23 31 13 19-0018	EA		12" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel.....	28.80	12.33
			<i>For Stainless Steel, Add</i>	5.40	
23 31 13 19-0019	EA		14" x 2-1/4" x 6" Register Boot, Center, Galvanized Steel.....	31.11	13.24
			<i>For Stainless Steel, Add</i>	6.01	
23 31 13 19-0020	EA		14" x 2-1/4" x 7" Register Boot, Center, Galvanized Steel.....	31.81	13.24
			<i>For Stainless Steel, Add</i>	6.92	
23 31 13 19-0021	EA		10" x 4" x 6" Register Boot, Center, Galvanized Steel.....	32.68	14.16
			<i>For Stainless Steel, Add</i>	5.68	
23 31 13 19-0022	EA		12" x 4" x 6" Register Boot, Center, Galvanized Steel.....	34.63	15.06
			<i>For Stainless Steel, Add</i>	5.84	
23 31 13 19-0023	EA		12" x 2-1/4" x 6" Register Boot, End, Galvanized Steel.....	29.27	12.33
			<i>For Stainless Steel, Add</i>	6.01	
23 31 13 19-0024	EA		14" x 2-1/4" x 6" Register Boot, End, Galvanized Steel.....	31.40	13.24
			<i>For Stainless Steel, Add</i>	6.38	
23 31 13 19-0025	EA		10" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	27.58	11.41
			<i>For Stainless Steel, Add</i>	6.18	
23 31 13 19-0026	EA		12" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel.....	29.51	12.33
			<i>For Stainless Steel, Add</i>	6.32	
23 31 13 19-0027	EA		14" x 2-1/4" x 5" Register Boot, Universal, Galvanized Steel.....	31.93	13.24
			<i>For Stainless Steel, Add</i>	7.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 13 19-0028 EA 14" x 2-1/4" x 6" Register Boot, Universal, Galvanized Steel <i>For Stainless Steel, Add</i>	31.93 7.07	13.24
23 31 13 19-0029 EA 10" x 4" x 6" Register Boot, Universal, Galvanized Steel <i>For Stainless Steel, Add</i>	32.59 5.56	14.16
23 31 13 19-0030 EA 12" x 4" x 6" Register Boot, Universal, Galvanized Steel <i>For Stainless Steel, Add</i>	34.54 5.72	15.06
23 31 13 19-0031 EA 12" x 4" x 7" Register Boot, Universal, Galvanized Steel <i>For Stainless Steel, Add</i>	37.53 9.61	15.06
23 31 13 19-0032 EA 14" x 4" x 7" Register Boot, Universal, Galvanized Steel <i>For Stainless Steel, Add</i>	39.35 9.61	15.98
 23 31 13 23 Galvanized Steel Welded Duct (23 31 13)		
Note: All field fabricated duct is assembled from flat duct sheets on site to fit to exact field conditions. Ductwork which is fabricated off site or snap-fitting duct is considered as shop fabricated.		
23 31 13 23-0001 Welded Steel Ductwork (23 31 13 23)		
Note: Ductwork poundage includes all fittings, transitions, collars, straps, support straps, etc.		
23 31 13 23-0002 Galvanized Steel Welded Duct, For Kitchen (23 31 13 23-0001)		
Note: Also includes special exhaust systems and waste.		
23 31 13 23-0003 LB Galvanized Steel Welded Duct <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	18.06 1.49 4.81 1.60 3.21 4.01 5.61 6.42 8.02 8.82	8.00
 23 31 13 23-0004 Black Steel Ductwork (23 31 13 23-0001)		
23 31 13 23-0005 LB Black Steel Ductwork <i>For Polyvinyl Chloride (PVC) Coated, Inside And Outside, Add</i> <i>For Work In Restricted Working Space, Add</i> <i>For Elevated Installation >10' To 15', Add</i> <i>For Elevated Installation >15' To 20', Add</i> <i>For Elevated Installation >20' To 25', Add</i> <i>For Elevated Installation >25' To 30', Add</i> <i>For Elevated Installation >30' To 35', Add</i> <i>For Elevated Installation >35' To 40', Add</i> <i>For Elevated Installation >40', Add</i>	16.95 0.33 4.95 1.65 3.30 4.13 5.78 6.60 8.25 9.08	8.25
 23 31 16 Nonmetal Ducts (23 31)		
23 31 16 13 Fibrous-Glass Ducts (23 31 16)		
23 31 16 13-0001 Glass Fiber Duct Board (23 31 16 13)		
Note: Rigid, rectangular boards faced on one side with a fire-resistant foil-scrim-kraft (FSK) vapor retarder and a lightweight fiber glass mat on the airstream surface.		
23 31 16 13-0002 SF 1" Glass Fiber Duct Board (EI-475).....	7.92	1.65
23 31 16 13-0003 SF 1-1/2" Glass Fiber Duct Board (EI-800).....	9.23	1.81
23 31 16 13-0004 SF 2" Glass Fiber Duct Board (EI-800).....	10.62	1.99
 23 31 16 16 Thermoset Fiberglass-Reinforced Plastic Ducts (23 31 16)		
23 31 16 16-0001 Round Fiber Reinforced Plastic Duct (23 31 16 16)		
23 31 16 16-0002 Round Fiber Reinforced Plastic Duct (23 31 16 16-0001)		
23 31 16 16-0003 LF 2" Fiber Reinforced Plastic Duct	13.65	4.71
23 31 16 16-0004 LF 3" Fiber Reinforced Plastic Duct	17.02	5.50
23 31 16 16-0005 LF 4" Fiber Reinforced Plastic Duct	23.22	8.08
23 31 16 16-0006 LF 6" Fiber Reinforced Plastic Duct	30.66	10.20
23 31 16 16-0007 LF 8" Fiber Reinforced Plastic Duct	38.81	12.78
23 31 16 16-0008 LF 10" Fiber Reinforced Plastic Duct	46.80	15.35
23 31 16 16-0009 LF 12" Fiber Reinforced Plastic Duct	52.82	17.93
23 31 16 16-0010 LF 14" Fiber Reinforced Plastic Duct	60.08	19.62
23 31 16 16-0011 LF 16" Fiber Reinforced Plastic Duct	64.87	20.86
23 31 16 16-0012 LF 18" Fiber Reinforced Plastic Duct	80.10	23.43
23 31 16 16-0013 LF 20" Fiber Reinforced Plastic Duct	84.36	25.11
23 31 16 16-0014 LF 24" Fiber Reinforced Plastic Duct	103.11	26.80
23 31 16 16-0015 LF 30" Fiber Reinforced Plastic Duct	118.18	31.07
23 31 16 16-0016 LF 36" Fiber Reinforced Plastic Duct	136.79	37.46
23 31 16 16-0017 LF 42" Fiber Reinforced Plastic Duct	181.04	41.71
23 31 16 16-0018 LF 48" Fiber Reinforced Plastic Duct	202.84	46.87
23 31 16 16-0019 LF 54" Fiber Reinforced Plastic Duct	225.69	53.70
23 31 16 16-0020 LF 60" Fiber Reinforced Plastic Duct	256.53	62.66
23 31 16 16-0021 LF 66" Fiber Reinforced Plastic Duct	277.31	76.69
23 31 16 16-0022 LF 72" Fiber Reinforced Plastic Duct	338.42	93.73

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 31 HVAC Ducts And Casings**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0023 Fiber Reinforced Plastic Bell (23 31 16 16-0001)		
23 31 16 16-0024 EA 2" Fiber Reinforced Plastic Bell.....	57.03	19.09
23 31 16 16-0025 EA 3" Fiber Reinforced Plastic Bell.....	68.86	22.64
23 31 16 16-0026 EA 4" Fiber Reinforced Plastic Bell.....	79.20	26.62
23 31 16 16-0027 EA 6" Fiber Reinforced Plastic Bell.....	104.02	35.51
23 31 16 16-0028 EA 8" Fiber Reinforced Plastic Bell.....	126.50	44.38
23 31 16 16-0029 EA 10" Fiber Reinforced Plastic Bell.....	146.61	53.25
23 31 16 16-0030 EA 12" Fiber Reinforced Plastic Bell.....	181.79	66.12
23 31 16 16-0031 EA 14" Fiber Reinforced Plastic Bell.....	194.48	71.00
23 31 16 16-0032 EA 16" Fiber Reinforced Plastic Bell.....	210.74	75.88
23 31 16 16-0033 EA 18" Fiber Reinforced Plastic Bell.....	227.00	81.66
23 31 16 16-0034 EA 20" Fiber Reinforced Plastic Bell.....	248.28	88.76
23 31 16 16-0035 EA 24" Fiber Reinforced Plastic Bell.....	289.62	97.63
23 31 16 16-0036 EA 30" Fiber Reinforced Plastic Bell.....	338.03	106.51
23 31 16 16-0037 EA 36" Fiber Reinforced Plastic Bell.....	383.54	119.82
23 31 16 16-0038 EA 42" Fiber Reinforced Plastic Bell.....	429.04	133.13
23 31 16 16-0039 EA 48" Fiber Reinforced Plastic Bell.....	474.52	146.45
23 31 16 16-0040 EA 54" Fiber Reinforced Plastic Bell.....	590.91	177.51
23 31 16 16-0041 EA 60" Fiber Reinforced Plastic Bell.....	703.26	221.89
23 31 16 16-0042 EA 66" Fiber Reinforced Plastic Bell.....	843.86	266.27
23 31 16 16-0043 EA 72" Fiber Reinforced Plastic Bell.....	966.88	301.77
23 31 16 16-0044 Fiber Reinforced Plastic Flange (23 31 16 16-0001)		
23 31 16 16-0045 EA 2" Fiber Reinforced Plastic Flange.....	94.77	19.09
23 31 16 16-0046 EA 3" Fiber Reinforced Plastic Flange.....	108.96	22.64
23 31 16 16-0047 EA 4" Fiber Reinforced Plastic Flange.....	124.02	26.62
23 31 16 16-0048 EA 6" Fiber Reinforced Plastic Flange.....	160.64	35.51
23 31 16 16-0049 EA 8" Fiber Reinforced Plastic Flange.....	194.91	44.38
23 31 16 16-0050 EA 10" Fiber Reinforced Plastic Flange.....	229.17	53.25
23 31 16 16-0051 EA 12" Fiber Reinforced Plastic Flange.....	269.07	66.12
23 31 16 16-0052 EA 14" Fiber Reinforced Plastic Flange.....	300.64	71.00
23 31 16 16-0053 EA 16" Fiber Reinforced Plastic Flange.....	328.69	75.88
23 31 16 16-0054 EA 18" Fiber Reinforced Plastic Flange.....	349.66	81.66
23 31 16 16-0055 EA 20" Fiber Reinforced Plastic Flange.....	366.22	88.76
23 31 16 16-0056 EA 24" Fiber Reinforced Plastic Flange.....	431.15	97.63
23 31 16 16-0057 EA 30" Fiber Reinforced Plastic Flange.....	474.85	106.51
23 31 16 16-0058 EA 36" Fiber Reinforced Plastic Flange.....	588.77	119.82
23 31 16 16-0059 EA 42" Fiber Reinforced Plastic Flange.....	655.50	133.13
23 31 16 16-0060 EA 48" Fiber Reinforced Plastic Flange.....	745.79	146.45
23 31 16 16-0061 EA 54" Fiber Reinforced Plastic Flange.....	873.98	177.51
23 31 16 16-0062 EA 60" Fiber Reinforced Plastic Flange.....	1,040.58	221.89
23 31 16 16-0063 EA 66" Fiber Reinforced Plastic Flange.....	1,207.14	266.27
23 31 16 16-0064 EA 72" Fiber Reinforced Plastic Flange.....	1,382.05	301.77
23 31 16 16-0065 Fiber Reinforced Plastic 90 Degree Elbow (23 31 16 16-0001)		
23 31 16 16-0066 EA 2" Fiber Reinforced Plastic 90 Degree Elbow.....	154.53	45.98
23 31 16 16-0067 EA 3" Fiber Reinforced Plastic 90 Degree Elbow.....	181.24	54.94
23 31 16 16-0068 EA 4" Fiber Reinforced Plastic 90 Degree Elbow.....	210.30	63.91
23 31 16 16-0069 EA 6" Fiber Reinforced Plastic 90 Degree Elbow.....	271.74	85.21
23 31 16 16-0070 EA 8" Fiber Reinforced Plastic 90 Degree Elbow.....	333.20	106.51
23 31 16 16-0071 EA 10" Fiber Reinforced Plastic 90 Degree Elbow.....	394.67	127.81
23 31 16 16-0072 EA 12" Fiber Reinforced Plastic 90 Degree Elbow.....	484.26	158.96
23 31 16 16-0073 EA 14" Fiber Reinforced Plastic 90 Degree Elbow.....	551.76	168.28
23 31 16 16-0074 EA 16" Fiber Reinforced Plastic 90 Degree Elbow.....	630.15	182.75
23 31 16 16-0075 EA 18" Fiber Reinforced Plastic 90 Degree Elbow.....	755.97	195.97
23 31 16 16-0076 EA 20" Fiber Reinforced Plastic 90 Degree Elbow.....	874.04	213.02
23 31 16 16-0077 EA 24" Fiber Reinforced Plastic 90 Degree Elbow.....	1,015.69	234.32
23 31 16 16-0078 EA 30" Fiber Reinforced Plastic 90 Degree Elbow.....	1,381.40	255.62
23 31 16 16-0079 EA 36" Fiber Reinforced Plastic 90 Degree Elbow.....	1,776.75	287.57
23 31 16 16-0080 EA 42" Fiber Reinforced Plastic 90 Degree Elbow.....	2,348.97	319.61
23 31 16 16-0081 EA 48" Fiber Reinforced Plastic 90 Degree Elbow.....	2,791.50	351.56
23 31 16 16-0082 EA 54" Fiber Reinforced Plastic 90 Degree Elbow.....	3,304.83	426.02
23 31 16 16-0083 EA 60" Fiber Reinforced Plastic 90 Degree Elbow.....	4,001.31	532.53
23 31 16 16-0084 EA 66" Fiber Reinforced Plastic 90 Degree Elbow.....	4,697.44	638.87
23 31 16 16-0085 EA 72" Fiber Reinforced Plastic 90 Degree Elbow.....	5,358.24	723.98
23 31 16 16-0086 Fiber Reinforced Plastic 45 Degree Elbow (23 31 16 16-0001)		
23 31 16 16-0087 EA 2" Fiber Reinforced Plastic 45 Degree Elbow.....	128.58	45.98
23 31 16 16-0088 EA 3" Fiber Reinforced Plastic 45 Degree Elbow.....	150.57	54.94
23 31 16 16-0089 EA 4" Fiber Reinforced Plastic 45 Degree Elbow.....	174.90	63.91
23 31 16 16-0090 EA 6" Fiber Reinforced Plastic 45 Degree Elbow.....	219.84	85.21
23 31 16 16-0091 EA 8" Fiber Reinforced Plastic 45 Degree Elbow.....	264.79	106.51
23 31 16 16-0092 EA 10" Fiber Reinforced Plastic 45 Degree Elbow.....	314.52	127.81
23 31 16 16-0093 EA 12" Fiber Reinforced Plastic 45 Degree Elbow.....	387.60	158.96
23 31 16 16-0094 EA 14" Fiber Reinforced Plastic 45 Degree Elbow.....	421.94	168.28
23 31 16 16-0095 EA 16" Fiber Reinforced Plastic 45 Degree Elbow.....	507.33	182.66
23 31 16 16-0096 EA 18" Fiber Reinforced Plastic 45 Degree Elbow.....	586.37	196.15



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0097 EA 20" Fiber Reinforced Plastic 45 Degree Elbow	680.55	213.02
23 31 16 16-0098 EA 24" Fiber Reinforced Plastic 45 Degree Elbow	786.47	234.14
23 31 16 16-0099 EA 30" Fiber Reinforced Plastic 45 Degree Elbow	1,003.66	255.44
23 31 16 16-0100 EA 36" Fiber Reinforced Plastic 45 Degree Elbow	1,232.25	287.83
23 31 16 16-0101 EA 42" Fiber Reinforced Plastic 45 Degree Elbow	1,577.99	319.79
23 31 16 16-0102 EA 48" Fiber Reinforced Plastic 45 Degree Elbow	1,859.74	351.56
23 31 16 16-0103 EA 54" Fiber Reinforced Plastic 45 Degree Elbow	2,215.02	426.02
23 31 16 16-0104 EA 60" Fiber Reinforced Plastic 45 Degree Elbow	2,652.02	532.53
23 31 16 16-0105 EA 66" Fiber Reinforced Plastic 45 Degree Elbow	3,114.93	637.62
23 31 16 16-0106 EA 72" Fiber Reinforced Plastic 45 Degree Elbow	3,519.61	724.69
23 31 16 16-0107 Fiber Reinforced Plastic Tee (23 31 16 16-0001)		
23 31 16 16-0108 EA 2" Fiber Reinforced Plastic Tee.....	196.88	68.61
23 31 16 16-0109 EA 3" Fiber Reinforced Plastic Tee.....	232.10	82.63
23 31 16 16-0110 EA 4" Fiber Reinforced Plastic Tee.....	265.91	95.85
23 31 16 16-0111 EA 6" Fiber Reinforced Plastic Tee.....	342.77	127.81
23 31 16 16-0112 EA 8" Fiber Reinforced Plastic Tee.....	418.21	158.96
23 31 16 16-0113 EA 10" Fiber Reinforced Plastic Tee.....	497.84	192.60
23 31 16 16-0114 EA 12" Fiber Reinforced Plastic Tee.....	601.38	233.43
23 31 16 16-0115 EA 14" Fiber Reinforced Plastic Tee.....	656.93	252.60
23 31 16 16-0116 EA 16" Fiber Reinforced Plastic Tee.....	763.97	274.43
23 31 16 16-0117 EA 18" Fiber Reinforced Plastic Tee.....	867.35	293.96
23 31 16 16-0118 EA 20" Fiber Reinforced Plastic Tee.....	1,004.40	319.61
23 31 16 16-0119 EA 24" Fiber Reinforced Plastic Tee.....	1,152.07	351.56
23 31 16 16-0120 EA 30" Fiber Reinforced Plastic Tee.....	1,381.95	383.33
23 31 16 16-0121 EA 36" Fiber Reinforced Plastic Tee.....	1,662.81	431.53
23 31 16 16-0122 EA 42" Fiber Reinforced Plastic Tee.....	2,214.36	479.46
23 31 16 16-0123 EA 48" Fiber Reinforced Plastic Tee.....	2,648.30	527.48
23 31 16 16-0124 EA 54" Fiber Reinforced Plastic Tee.....	3,188.76	639.48
23 31 16 16-0125 EA 60" Fiber Reinforced Plastic Tee.....	3,808.71	799.16
23 31 16 16-0126 EA 66" Fiber Reinforced Plastic Tee.....	4,428.16	958.48
23 31 16 16-0127 EA 72" Fiber Reinforced Plastic Tee.....	4,995.87	1,086.82
23 31 16 16-0128 Fiber Reinforced Plastic Lateral Joint (23 31 16 16-0001)		
23 31 16 16-0129 EA 2" Fiber Reinforced Plastic Lateral Joint	161.49	68.61
23 31 16 16-0130 EA 3" Fiber Reinforced Plastic Lateral Joint	189.62	82.63
23 31 16 16-0131 EA 4" Fiber Reinforced Plastic Lateral Joint	216.39	95.85
23 31 16 16-0132 EA 6" Fiber Reinforced Plastic Lateral Joint	274.42	127.81
23 31 16 16-0133 EA 8" Fiber Reinforced Plastic Lateral Joint	330.99	158.96
23 31 16 16-0134 EA 10" Fiber Reinforced Plastic Lateral Joint	396.45	192.60
23 31 16 16-0135 EA 12" Fiber Reinforced Plastic Lateral Joint	474.20	233.60
23 31 16 16-0136 EA 14" Fiber Reinforced Plastic Lateral Joint	515.00	252.43
23 31 16 16-0137 EA 16" Fiber Reinforced Plastic Lateral Joint	566.02	274.52
23 31 16 16-0138 EA 18" Fiber Reinforced Plastic Lateral Joint	613.03	294.22
23 31 16 16-0139 EA 20" Fiber Reinforced Plastic Lateral Joint	669.82	319.79
23 31 16 16-0140 EA 24" Fiber Reinforced Plastic Lateral Joint	741.62	351.56
23 31 16 16-0141 EA 30" Fiber Reinforced Plastic Lateral Joint	820.17	383.16
23 31 16 16-0142 EA 36" Fiber Reinforced Plastic Lateral Joint	926.37	431.27
23 31 16 16-0143 EA 42" Fiber Reinforced Plastic Lateral Joint	1,035.49	479.73
23 31 16 16-0144 EA 48" Fiber Reinforced Plastic Lateral Joint	1,138.25	527.30
23 31 16 16-0145 EA 54" Fiber Reinforced Plastic Lateral Joint	1,357.55	637.62
23 31 16 16-0146 EA 60" Fiber Reinforced Plastic Lateral Joint	1,652.72	800.57
23 31 16 16-0147 EA 66" Fiber Reinforced Plastic Lateral Joint	1,999.64	959.19
23 31 16 16-0148 EA 72" Fiber Reinforced Plastic Lateral Joint	2,235.95	1,086.82
23 31 16 16-0149 Fiber Reinforced Plastic One Piece Reducer (23 31 16 16-0001)		
23 31 16 16-0150 EA 2" Fiber Reinforced Plastic One Piece Reducer.....	138.05	46.06
23 31 16 16-0151 EA 3" Fiber Reinforced Plastic One Piece Reducer.....	162.41	55.03
23 31 16 16-0152 EA 4" Fiber Reinforced Plastic One Piece Reducer.....	191.47	63.91
23 31 16 16-0153 EA 6" Fiber Reinforced Plastic One Piece Reducer.....	245.79	85.21
23 31 16 16-0154 EA 8" Fiber Reinforced Plastic One Piece Reducer.....	295.45	106.51
23 31 16 16-0155 EA 10" Fiber Reinforced Plastic One Piece Reducer.....	355.40	128.34
23 31 16 16-0156 EA 12" Fiber Reinforced Plastic One Piece Reducer.....	420.63	158.96
23 31 16 16-0157 EA 14" Fiber Reinforced Plastic One Piece Reducer.....	450.25	168.28
23 31 16 16-0158 EA 16" Fiber Reinforced Plastic One Piece Reducer.....	497.89	182.66
23 31 16 16-0159 EA 18" Fiber Reinforced Plastic One Piece Reducer.....	548.63	196.15
23 31 16 16-0160 EA 20" Fiber Reinforced Plastic One Piece Reducer.....	614.50	213.02
23 31 16 16-0161 EA 24" Fiber Reinforced Plastic One Piece Reducer.....	702.36	234.58
23 31 16 16-0162 EA 30" Fiber Reinforced Plastic One Piece Reducer.....	789.98	256.06
23 31 16 16-0163 EA 36" Fiber Reinforced Plastic One Piece Reducer.....	894.93	287.83
23 31 16 16-0164 EA 42" Fiber Reinforced Plastic One Piece Reducer.....	1,000.06	319.79
23 31 16 16-0165 EA 48" Fiber Reinforced Plastic One Piece Reducer.....	1,128.48	351.56
23 31 16 16-0166 EA 54" Fiber Reinforced Plastic One Piece Reducer.....	1,335.15	426.02
23 31 16 16-0167 EA 60" Fiber Reinforced Plastic One Piece Reducer.....	1,588.15	532.53
23 31 16 16-0168 EA 66" Fiber Reinforced Plastic One Piece Reducer.....	1,770.36	637.62
23 31 16 16-0169 EA 72" Fiber Reinforced Plastic One Piece Reducer.....	1,986.33	724.69

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 31 HVAC Ducts And Casings



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 31 16 16-0170 Fiber Reinforced Plastic Two Piece Reducer (23 31 16 16-0001)		
23 31 16 16-0171 EA 2" Fiber Reinforced Plastic Two Piece Reducer.....	166.36	46.06
23 31 16 16-0172 EA 3" Fiber Reinforced Plastic Two Piece Reducer.....	181.28	55.03
23 31 16 16-0173 EA 4" Fiber Reinforced Plastic Two Piece Reducer.....	210.34	63.91
23 31 16 16-0174 EA 6" Fiber Reinforced Plastic Two Piece Reducer.....	271.74	85.21
23 31 16 16-0175 EA 8" Fiber Reinforced Plastic Two Piece Reducer.....	333.20	106.51
23 31 16 16-0176 EA 10" Fiber Reinforced Plastic Two Piece Reducer.....	395.51	128.34
23 31 16 16-0177 EA 12" Fiber Reinforced Plastic Two Piece Reducer.....	472.52	158.96
23 31 16 16-0178 EA 14" Fiber Reinforced Plastic Two Piece Reducer.....	516.30	168.28
23 31 16 16-0179 EA 16" Fiber Reinforced Plastic Two Piece Reducer.....	563.94	182.66
23 31 16 16-0180 EA 18" Fiber Reinforced Plastic Two Piece Reducer.....	638.26	196.15
23 31 16 16-0181 EA 20" Fiber Reinforced Plastic Two Piece Reducer.....	812.65	213.02
23 31 16 16-0182 EA 24" Fiber Reinforced Plastic Two Piece Reducer.....	992.51	234.58
23 31 16 16-0183 EA 30" Fiber Reinforced Plastic Two Piece Reducer.....	1,063.61	256.06
23 31 16 16-0184 EA 36" Fiber Reinforced Plastic Two Piece Reducer.....	1,211.02	287.83
23 31 16 16-0185 EA 42" Fiber Reinforced Plastic Two Piece Reducer.....	1,311.44	319.79
23 31 16 16-0186 EA 48" Fiber Reinforced Plastic Two Piece Reducer.....	1,435.13	351.56
23 31 16 16-0187 EA 54" Fiber Reinforced Plastic Two Piece Reducer.....	1,582.83	426.02
23 31 16 16-0188 EA 60" Fiber Reinforced Plastic Two Piece Reducer.....	1,821.68	532.53
23 31 16 16-0189 EA 66" Fiber Reinforced Plastic Two Piece Reducer.....	2,029.84	637.62
23 31 16 16-0190 EA 72" Fiber Reinforced Plastic Two Piece Reducer.....	2,222.22	724.69
23 31 16 16-0191 Fiber Reinforced Plastic Butterfly Dampers (23 31 16 16-0001)		
23 31 16 16-0192 EA 2" Fiber Reinforced Plastic Damper.....	300.78	45.98
23 31 16 16-0193 EA 3" Fiber Reinforced Plastic Damper.....	339.28	54.94
23 31 16 16-0194 EA 4" Fiber Reinforced Plastic Damper.....	377.78	63.91
23 31 16 16-0195 EA 6" Fiber Reinforced Plastic Damper.....	448.66	85.21
23 31 16 16-0196 EA 8" Fiber Reinforced Plastic Damper.....	531.35	106.51
23 31 16 16-0197 EA 10" Fiber Reinforced Plastic Damper.....	602.25	127.81
23 31 16 16-0198 EA 12" Fiber Reinforced Plastic Damper.....	689.48	158.96
23 31 16 16-0199 EA 14" Fiber Reinforced Plastic Damper.....	764.06	168.28
23 31 16 16-0200 EA 16" Fiber Reinforced Plastic Damper.....	847.17	182.75
23 31 16 16-0201 EA 18" Fiber Reinforced Plastic Damper.....	928.17	195.97
23 31 16 16-0202 EA 20" Fiber Reinforced Plastic Damper.....	991.98	213.02
23 31 16 16-0203 EA 24" Fiber Reinforced Plastic Damper.....	1,121.84	234.32
23 31 16 16-0204 EA 30" Fiber Reinforced Plastic Damper.....	1,298.84	255.62
23 31 16 16-0205 EA 36" Fiber Reinforced Plastic Damper.....	1,493.68	287.57
23 31 16 16-0206 EA 42" Fiber Reinforced Plastic Damper.....	1,712.07	319.61
23 31 16 16-0207 EA 48" Fiber Reinforced Plastic Damper.....	1,906.91	351.56
23 31 16 16-0208 EA 54" Fiber Reinforced Plastic Damper.....	2,243.32	426.02
23 31 16 16-0209 EA 60" Fiber Reinforced Plastic Damper.....	2,633.15	532.53
23 31 16 16-0210 EA 66" Fiber Reinforced Plastic Damper.....	2,999.03	638.87
23 31 16 16-0211 EA 72" Fiber Reinforced Plastic Damper.....	3,447.54	723.98
23 33 Air Duct Accessories (23 33)		
23 33 13 Dampers (23 33)		
23 33 13 13 Volume-Control Dampers (23 33 13)		
23 33 13 13-0001 Radial Opposed Blade Damper Steel Construction (23 33 13 13)		
23 33 13 13-0002 EA 6" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....	44.92	7.31
For Stainless Steel, Add	21.55	
For Parallel Blade Damper, Add	6.63	
23 33 13 13-0003 EA 7" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....	49.70	8.22
For Stainless Steel, Add	21.87	
For Parallel Blade Damper, Add	6.73	
23 33 13 13-0004 EA 8" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....	55.22	9.13
For Stainless Steel, Add	22.09	
For Parallel Blade Damper, Add	6.80	
23 33 13 13-0005 EA 10" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....	60.20	10.96
For Stainless Steel, Add	23.48	
For Parallel Blade Damper, Add	7.22	
23 33 13 13-0006 EA 12" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....	66.08	11.87
For Stainless Steel, Add	24.86	
For Parallel Blade Damper, Add	7.65	
23 33 13 13-0007 EA 14" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....	75.79	12.78
For Stainless Steel, Add	31.76	
For Parallel Blade Damper, Add	9.77	
23 33 13 13-0008 EA 15" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....	83.23	13.70
For Stainless Steel, Add	34.52	
For Parallel Blade Damper, Add	10.62	
23 33 13 13-0009 EA 16" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....	88.49	15.53
For Stainless Steel, Add	35.89	
For Parallel Blade Damper, Add	11.04	
23 33 13 13-0010 EA 18" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated.....	96.55	16.43
For Stainless Steel, Add	40.04	
For Parallel Blade Damper, Add	12.32	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0011 EA 20" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	109.71	18.26
<i>For Stainless Steel, Add</i>	49.71	
<i>For Parallel Blade Damper, Add</i>	15.30	
23 33 13 13-0012 EA 24" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	118.26	18.26
<i>For Stainless Steel, Add</i>	56.60	
<i>For Parallel Blade Damper, Add</i>	17.42	
23 33 13 13-0013 EA 30" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	133.17	21.00
<i>For Stainless Steel, Add</i>	66.27	
<i>For Parallel Blade Damper, Add</i>	20.39	
23 33 13 13-0014 EA 36" Diameter Radial Opposed Blade Damper Round, Steel Construction, Manual Operated	142.06	21.92
<i>For Stainless Steel, Add</i>	72.22	
<i>For Parallel Blade Damper, Add</i>	22.22	
23 33 13 13-0015 Rectangular Opposed Blade Damper <small>(23 33 13 13)</small>		
23 33 13 13-0016 EA 6" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	68.22	10.16
<i>For Stainless Steel, Add</i>	49.05	
<i>For Parallel Blade Damper, Add</i>	15.09	
23 33 13 13-0017 EA 8" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	72.27	10.62
<i>For Stainless Steel, Add</i>	52.53	
<i>For Parallel Blade Damper, Add</i>	16.16	
23 33 13 13-0018 EA 8" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	75.15	10.71
<i>For Stainless Steel, Add</i>	56.04	
<i>For Parallel Blade Damper, Add</i>	17.24	
23 33 13 13-0019 EA 10" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	75.15	10.71
<i>For Stainless Steel, Add</i>	56.04	
<i>For Parallel Blade Damper, Add</i>	17.24	
23 33 13 13-0020 EA 10" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	78.76	10.99
<i>For Stainless Steel, Add</i>	59.54	
<i>For Parallel Blade Damper, Add</i>	18.32	
23 33 13 13-0021 EA 10" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	87.80	12.17
<i>For Stainless Steel, Add</i>	66.53	
<i>For Parallel Blade Damper, Add</i>	20.47	
23 33 13 13-0022 EA 12" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	78.76	10.99
<i>For Stainless Steel, Add</i>	59.54	
<i>For Parallel Blade Damper, Add</i>	18.32	
23 33 13 13-0023 EA 12" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	85.97	11.63
<i>For Stainless Steel, Add</i>	66.53	
<i>For Parallel Blade Damper, Add</i>	20.47	
23 33 13 13-0024 EA 12" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	90.52	12.17
<i>For Stainless Steel, Add</i>	70.07	
<i>For Parallel Blade Damper, Add</i>	21.56	
23 33 13 13-0025 EA 12" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	97.81	13.73
<i>For Stainless Steel, Add</i>	73.58	
<i>For Parallel Blade Damper, Add</i>	22.64	
23 33 13 13-0026 EA 14" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	84.64	11.63
<i>For Stainless Steel, Add</i>	64.81	
<i>For Parallel Blade Damper, Add</i>	19.94	
23 33 13 13-0027 EA 14" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	90.52	12.17
<i>For Stainless Steel, Add</i>	70.07	
<i>For Parallel Blade Damper, Add</i>	21.56	
23 33 13 13-0028 EA 14" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	95.06	12.82
<i>For Stainless Steel, Add</i>	73.58	
<i>For Parallel Blade Damper, Add</i>	22.64	
23 33 13 13-0029 EA 14" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	100.50	13.73
<i>For Stainless Steel, Add</i>	77.08	
<i>For Parallel Blade Damper, Add</i>	23.72	
23 33 13 13-0030 EA 14" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	111.80	15.29
<i>For Stainless Steel, Add</i>	85.83	
<i>For Parallel Blade Damper, Add</i>	26.41	
23 33 13 13-0031 EA 16" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	90.52	12.17
<i>For Stainless Steel, Add</i>	70.07	
<i>For Parallel Blade Damper, Add</i>	21.56	
23 33 13 13-0032 EA 16" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	95.98	13.09
<i>For Stainless Steel, Add</i>	73.58	
<i>For Parallel Blade Damper, Add</i>	22.64	
23 33 13 13-0033 EA 16" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	102.33	14.38
<i>For Stainless Steel, Add</i>	77.08	
<i>For Parallel Blade Damper, Add</i>	23.72	
23 33 13 13-0034 EA 16" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	107.75	15.29
<i>For Stainless Steel, Add</i>	80.56	
<i>For Parallel Blade Damper, Add</i>	24.79	
23 33 13 13-0035 EA 16" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	119.10	16.76
<i>For Stainless Steel, Add</i>	89.36	
<i>For Parallel Blade Damper, Add</i>	27.50	
23 33 13 13-0036 EA 16" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	130.40	18.31
<i>For Stainless Steel, Add</i>	98.10	
<i>For Parallel Blade Damper, Add</i>	30.18	
23 33 13 13-0037 EA 18" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	95.06	12.82
<i>For Stainless Steel, Add</i>	73.58	
<i>For Parallel Blade Damper, Add</i>	22.64	
23 33 13 13-0038 EA 18" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	101.83	13.73
<i>For Stainless Steel, Add</i>	78.81	
<i>For Parallel Blade Damper, Add</i>	24.25	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0039 EA 18" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	110.47	15.29
For Stainless Steel, Add	84.10	
For Parallel Blade Damper, Add	25.88	
23 33 13 13-0040 EA 18" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	121.79	16.76
For Stainless Steel, Add	92.86	
For Parallel Blade Damper, Add	28.57	
23 33 13 13-0041 EA 18" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	131.75	18.31
For Stainless Steel, Add	99.85	
For Parallel Blade Damper, Add	30.72	
23 33 13 13-0042 EA 18" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	143.05	19.78
For Stainless Steel, Add	108.59	
For Parallel Blade Damper, Add	33.41	
23 33 13 13-0043 EA 18" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	151.67	21.34
For Stainless Steel, Add	113.85	
For Parallel Blade Damper, Add	35.03	
23 33 13 13-0044 EA 20" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	100.50	13.73
For Stainless Steel, Add	77.08	
For Parallel Blade Damper, Add	23.72	
23 33 13 13-0045 EA 20" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	110.45	15.29
For Stainless Steel, Add	84.07	
For Parallel Blade Damper, Add	25.87	
23 33 13 13-0046 EA 20" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	120.43	16.76
For Stainless Steel, Add	91.09	
For Parallel Blade Damper, Add	28.03	
23 33 13 13-0047 EA 20" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	135.80	18.31
For Stainless Steel, Add	105.12	
For Parallel Blade Damper, Add	32.34	
23 33 13 13-0048 EA 20" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	144.42	19.78
For Stainless Steel, Add	110.37	
For Parallel Blade Damper, Add	33.96	
23 33 13 13-0049 EA 20" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	153.04	21.34
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0050 EA 20" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	163.00	22.89
For Stainless Steel, Add	122.63	
For Parallel Blade Damper, Add	37.73	
23 33 13 13-0051 EA 20" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	172.95	24.36
For Stainless Steel, Add	129.61	
For Parallel Blade Damper, Add	39.88	
23 33 13 13-0052 EA 24" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	113.15	15.29
For Stainless Steel, Add	87.58	
For Parallel Blade Damper, Add	26.95	
23 33 13 13-0053 EA 24" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	125.82	16.76
For Stainless Steel, Add	98.10	
For Parallel Blade Damper, Add	30.18	
23 33 13 13-0054 EA 24" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	135.80	18.31
For Stainless Steel, Add	105.12	
For Parallel Blade Damper, Add	32.34	
23 33 13 13-0055 EA 24" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	148.47	19.78
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0056 EA 24" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	157.07	21.34
For Stainless Steel, Add	120.87	
For Parallel Blade Damper, Add	37.19	
23 33 13 13-0057 EA 24" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	165.69	22.89
For Stainless Steel, Add	126.13	
For Parallel Blade Damper, Add	38.81	
23 33 13 13-0058 EA 24" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	178.35	24.36
For Stainless Steel, Add	136.63	
For Parallel Blade Damper, Add	42.04	
23 33 13 13-0059 EA 24" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	195.57	27.46
For Stainless Steel, Add	147.12	
For Parallel Blade Damper, Add	45.27	
23 33 13 13-0060 EA 24" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	215.54	30.49
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0061 EA 28" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	125.82	16.76
For Stainless Steel, Add	98.10	
For Parallel Blade Damper, Add	30.18	
23 33 13 13-0062 EA 28" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	135.80	18.31
For Stainless Steel, Add	105.12	
For Parallel Blade Damper, Add	32.34	
23 33 13 13-0063 EA 28" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	148.47	19.78
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0064 EA 28" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	158.42	21.34
For Stainless Steel, Add	122.63	
For Parallel Blade Damper, Add	37.73	
23 33 13 13-0065 EA 28" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	169.72	22.89
For Stainless Steel, Add	131.37	
For Parallel Blade Damper, Add	40.42	
23 33 13 13-0066 EA 28" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	181.03	24.36
For Stainless Steel, Add	140.11	
For Parallel Blade Damper, Add	43.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0067 EA 28" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	198.27	27.46
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0068 EA 28" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	215.54	30.49
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0069 EA 28" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	236.27	32.04
For Stainless Steel, Add	182.17	
For Parallel Blade Damper, Add	56.05	
23 33 13 13-0070 EA 28" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	258.89	35.07
For Stainless Steel, Add	199.68	
For Parallel Blade Damper, Add	61.44	
23 33 13 13-0071 EA 32" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	143.89	18.31
For Stainless Steel, Add	115.64	
For Parallel Blade Damper, Add	35.58	
23 33 13 13-0072 EA 32" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	151.15	19.78
For Stainless Steel, Add	119.12	
For Parallel Blade Damper, Add	36.65	
23 33 13 13-0073 EA 32" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	158.42	21.34
For Stainless Steel, Add	122.63	
For Parallel Blade Damper, Add	37.73	
23 33 13 13-0074 EA 32" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	168.37	22.89
For Stainless Steel, Add	129.61	
For Parallel Blade Damper, Add	39.88	
23 33 13 13-0075 EA 32" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	181.55	24.36
For Stainless Steel, Add	140.79	
For Parallel Blade Damper, Add	43.32	
23 33 13 13-0076 EA 32" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	198.27	27.46
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0077 EA 32" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	218.24	30.49
For Stainless Steel, Add	164.68	
For Parallel Blade Damper, Add	50.67	
23 33 13 13-0078 EA 32" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	238.16	33.51
For Stainless Steel, Add	178.69	
For Parallel Blade Damper, Add	54.98	
23 33 13 13-0079 EA 32" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	258.89	35.07
For Stainless Steel, Add	199.68	
For Parallel Blade Damper, Add	61.44	
23 33 13 13-0080 EA 32" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	285.09	37.54
For Stainless Steel, Add	224.22	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0081 EA 32" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	313.08	39.65
For Stainless Steel, Add	252.27	
For Parallel Blade Damper, Add	77.62	
23 33 13 13-0082 EA 36" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	156.54	19.78
For Stainless Steel, Add	126.13	
For Parallel Blade Damper, Add	38.81	
23 33 13 13-0083 EA 36" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	166.49	21.34
For Stainless Steel, Add	133.12	
For Parallel Blade Damper, Add	40.96	
23 33 13 13-0084 EA 36" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	176.45	22.89
For Stainless Steel, Add	140.11	
For Parallel Blade Damper, Add	43.11	
23 33 13 13-0085 EA 36" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	189.12	24.36
For Stainless Steel, Add	150.63	
For Parallel Blade Damper, Add	46.35	
23 33 13 13-0086 EA 36" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	202.34	27.46
For Stainless Steel, Add	155.92	
For Parallel Blade Damper, Add	47.98	
23 33 13 13-0087 EA 36" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	210.96	28.93
For Stainless Steel, Add	161.17	
For Parallel Blade Damper, Add	49.59	
23 33 13 13-0088 EA 36" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	238.16	33.51
For Stainless Steel, Add	178.69	
For Parallel Blade Damper, Add	54.98	
23 33 13 13-0089 EA 36" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	260.77	36.62
For Stainless Steel, Add	196.17	
For Parallel Blade Damper, Add	60.36	
23 33 13 13-0090 EA 36" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	280.63	37.82
For Stainless Steel, Add	217.22	
For Parallel Blade Damper, Add	66.84	
23 33 13 13-0091 EA 36" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	310.41	40.56
For Stainless Steel, Add	245.22	
For Parallel Blade Damper, Add	75.45	
23 33 13 13-0092 EA 36" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	335.69	42.67
For Stainless Steel, Add	269.75	
For Parallel Blade Damper, Add	83.00	
23 33 13 13-0093 EA 36" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	361.83	44.22
For Stainless Steel, Add	297.78	
For Parallel Blade Damper, Add	91.62	
23 33 13 13-0094 EA 40" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	163.79	22.89
For Stainless Steel, Add	129.61	
For Parallel Blade Damper, Add	39.88	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13	13-0095	EA	40" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	179.14	24.36
			<i>For Stainless Steel, Add</i>	143.61	
			<i>For Parallel Blade Damper, Add</i>	44.19	
23 33 13	13-0096	EA	40" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	186.42	25.92
			<i>For Stainless Steel, Add</i>	147.12	
			<i>For Parallel Blade Damper, Add</i>	45.27	
23 33 13	13-0097	EA	40" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	193.70	27.46
			<i>For Stainless Steel, Add</i>	150.63	
			<i>For Parallel Blade Damper, Add</i>	46.35	
23 33 13	13-0098	EA	40" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	212.29	28.93
			<i>For Stainless Steel, Add</i>	162.90	
			<i>For Parallel Blade Damper, Add</i>	50.12	
23 33 13	13-0099	EA	40" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	226.31	30.49
			<i>For Stainless Steel, Add</i>	175.18	
			<i>For Parallel Blade Damper, Add</i>	53.90	
23 33 13	13-0100	EA	40" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	250.82	35.07
			<i>For Stainless Steel, Add</i>	189.19	
			<i>For Parallel Blade Damper, Add</i>	58.21	
23 33 13	13-0101	EA	40" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	270.78	38.09
			<i>For Stainless Steel, Add</i>	203.22	
			<i>For Parallel Blade Damper, Add</i>	62.53	
23 33 13	13-0102	EA	40" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	294.26	40.56
			<i>For Stainless Steel, Add</i>	224.22	
			<i>For Parallel Blade Damper, Add</i>	68.99	
23 33 13	13-0103	EA	40" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	330.31	42.67
			<i>For Stainless Steel, Add</i>	262.76	
			<i>For Parallel Blade Damper, Add</i>	80.85	
23 33 13	13-0104	EA	40" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	353.78	45.14
			<i>For Stainless Steel, Add</i>	283.75	
			<i>For Parallel Blade Damper, Add</i>	87.31	
23 33 13	13-0105	EA	40" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	387.10	46.33
			<i>For Stainless Steel, Add</i>	322.31	
			<i>For Parallel Blade Damper, Add</i>	99.17	
23 33 13	13-0106	EA	40" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	421.38	48.80
			<i>For Stainless Steel, Add</i>	357.34	
			<i>For Parallel Blade Damper, Add</i>	109.95	
23 33 13	13-0107	EA	44" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	173.77	22.89
			<i>For Stainless Steel, Add</i>	136.63	
			<i>For Parallel Blade Damper, Add</i>	42.04	
23 33 13	13-0108	EA	44" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	189.12	24.36
			<i>For Stainless Steel, Add</i>	150.63	
			<i>For Parallel Blade Damper, Add</i>	46.35	
23 33 13	13-0109	EA	44" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	201.81	25.92
			<i>For Stainless Steel, Add</i>	161.17	
			<i>For Parallel Blade Damper, Add</i>	49.59	
23 33 13	13-0110	EA	44" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	209.08	27.46
			<i>For Stainless Steel, Add</i>	164.68	
			<i>For Parallel Blade Damper, Add</i>	50.67	
23 33 13	13-0111	EA	44" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	224.43	28.93
			<i>For Stainless Steel, Add</i>	178.69	
			<i>For Parallel Blade Damper, Add</i>	54.98	
23 33 13	13-0112	EA	44" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	239.78	30.49
			<i>For Stainless Steel, Add</i>	192.69	
			<i>For Parallel Blade Damper, Add</i>	59.29	
23 33 13	13-0113	EA	44" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	271.58	36.62
			<i>For Stainless Steel, Add</i>	210.22	
			<i>For Parallel Blade Damper, Add</i>	64.68	
23 33 13	13-0114	EA	44" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	294.19	39.65
			<i>For Stainless Steel, Add</i>	227.71	
			<i>For Parallel Blade Damper, Add</i>	70.06	
23 33 13	13-0115	EA	44" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	330.31	42.67
			<i>For Stainless Steel, Add</i>	262.76	
			<i>For Parallel Blade Damper, Add</i>	80.85	
23 33 13	13-0116	EA	44" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	363.72	45.78
			<i>For Stainless Steel, Add</i>	294.29	
			<i>For Parallel Blade Damper, Add</i>	90.55	
23 33 13	13-0117	EA	44" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	399.80	48.80
			<i>For Stainless Steel, Add</i>	329.29	
			<i>For Parallel Blade Damper, Add</i>	101.32	
23 33 13	13-0118	EA	44" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	428.63	50.27
			<i>For Stainless Steel, Add</i>	360.83	
			<i>For Parallel Blade Damper, Add</i>	111.02	
23 33 13	13-0119	EA	44" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	457.47	51.82
			<i>For Stainless Steel, Add</i>	392.37	
			<i>For Parallel Blade Damper, Add</i>	120.73	
23 33 13	13-0120	EA	44" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	486.31	53.38
			<i>For Stainless Steel, Add</i>	423.90	
			<i>For Parallel Blade Damper, Add</i>	130.43	
23 33 13	13-0121	EA	48" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	186.42	24.36
			<i>For Stainless Steel, Add</i>	147.12	
			<i>For Parallel Blade Damper, Add</i>	45.27	
23 33 13	13-0122	EA	48" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	201.81	25.92
			<i>For Stainless Steel, Add</i>	161.17	
			<i>For Parallel Blade Damper, Add</i>	49.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0123 EA 48" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	209.08	27.46
For Stainless Steel, Add	164.68	
For Parallel Blade Damper, Add	50.67	
23 33 13 13-0124 EA 48" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	226.31	30.49
For Stainless Steel, Add	175.18	
For Parallel Blade Damper, Add	53.90	
23 33 13 13-0125 EA 48" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	246.24	33.51
For Stainless Steel, Add	189.19	
For Parallel Blade Damper, Add	58.21	
23 33 13 13-0126 EA 48" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	266.19	36.62
For Stainless Steel, Add	203.22	
For Parallel Blade Damper, Add	62.53	
23 33 13 13-0127 EA 48" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	291.51	39.65
For Stainless Steel, Add	224.22	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0128 EA 48" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	316.82	42.67
For Stainless Steel, Add	245.22	
For Parallel Blade Damper, Add	75.45	
23 33 13 13-0129 EA 48" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	350.23	45.78
For Stainless Steel, Add	276.76	
For Parallel Blade Damper, Add	85.16	
23 33 13 13-0130 EA 48" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	389.03	48.80
For Stainless Steel, Add	315.29	
For Parallel Blade Damper, Add	97.01	
23 33 13 13-0131 EA 48" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	417.88	50.27
For Stainless Steel, Add	346.85	
For Parallel Blade Damper, Add	106.72	
23 33 13 13-0132 EA 48" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	454.78	51.82
For Stainless Steel, Add	388.87	
For Parallel Blade Damper, Add	119.65	
23 33 13 13-0133 EA 48" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	488.20	54.85
For Stainless Steel, Add	420.41	
For Parallel Blade Damper, Add	129.36	
23 33 13 13-0134 EA 48" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	525.10	56.40
For Stainless Steel, Add	462.44	
For Parallel Blade Damper, Add	142.29	
23 33 13 13-0135 EA 48" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	560.40	60.98
For Stainless Steel, Add	490.46	
For Parallel Blade Damper, Add	150.91	
23 33 13 13-0136 EA 52" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	199.11	25.92
For Stainless Steel, Add	157.66	
For Parallel Blade Damper, Add	48.51	
23 33 13 13-0137 EA 52" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	214.46	27.46
For Stainless Steel, Add	171.68	
For Parallel Blade Damper, Add	52.82	
23 33 13 13-0138 EA 52" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	234.39	30.49
For Stainless Steel, Add	185.68	
For Parallel Blade Damper, Add	57.13	
23 33 13 13-0139 EA 52" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	246.24	33.51
For Stainless Steel, Add	189.19	
For Parallel Blade Damper, Add	58.21	
23 33 13 13-0140 EA 52" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	267.54	36.62
For Stainless Steel, Add	204.97	
For Parallel Blade Damper, Add	63.07	
23 33 13 13-0141 EA 52" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	288.82	39.65
For Stainless Steel, Add	220.73	
For Parallel Blade Damper, Add	67.92	
23 33 13 13-0142 EA 52" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	314.14	42.67
For Stainless Steel, Add	241.74	
For Parallel Blade Damper, Add	74.38	
23 33 13 13-0143 EA 52" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	339.46	45.78
For Stainless Steel, Add	262.76	
For Parallel Blade Damper, Add	80.85	
23 33 13 13-0144 EA 52" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	372.88	48.80
For Stainless Steel, Add	294.29	
For Parallel Blade Damper, Add	90.55	
23 33 13 13-0145 EA 52" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	414.35	51.82
For Stainless Steel, Add	336.31	
For Parallel Blade Damper, Add	103.48	
23 33 13 13-0146 EA 52" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	445.87	53.38
For Stainless Steel, Add	371.33	
For Parallel Blade Damper, Add	114.26	
23 33 13 13-0147 EA 52" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	485.50	54.85
For Stainless Steel, Add	416.90	
For Parallel Blade Damper, Add	128.28	
23 33 13 13-0148 EA 52" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	526.96	57.96
For Stainless Steel, Add	458.90	
For Parallel Blade Damper, Add	141.20	
23 33 13 13-0149 EA 52" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	560.40	60.98
For Stainless Steel, Add	490.46	
For Parallel Blade Damper, Add	150.91	
23 33 13 13-0150 EA 52" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	606.48	65.55
For Stainless Steel, Add	532.51	
For Parallel Blade Damper, Add	163.85	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0151 EA 52" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	642.59	68.58
For Stainless Steel, Add	567.55	
For Parallel Blade Damper, Add	174.63	
23 33 13 13-0152 EA 56" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	209.08	27.46
For Stainless Steel, Add	164.68	
For Parallel Blade Damper, Add	50.67	
23 33 13 13-0153 EA 56" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	231.69	30.49
For Stainless Steel, Add	182.17	
For Parallel Blade Damper, Add	56.05	
23 33 13 13-0154 EA 56" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	248.93	33.51
For Stainless Steel, Add	192.69	
For Parallel Blade Damper, Add	59.29	
23 33 13 13-0155 EA 56" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	260.77	36.62
For Stainless Steel, Add	196.17	
For Parallel Blade Damper, Add	60.36	
23 33 13 13-0156 EA 56" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	284.77	39.65
For Stainless Steel, Add	215.46	
For Parallel Blade Damper, Add	66.30	
23 33 13 13-0157 EA 56" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	308.75	42.67
For Stainless Steel, Add	234.73	
For Parallel Blade Damper, Add	72.22	
23 33 13 13-0158 EA 56" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	332.72	45.78
For Stainless Steel, Add	253.99	
For Parallel Blade Damper, Add	78.15	
23 33 13 13-0159 EA 56" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	356.70	48.80
For Stainless Steel, Add	273.26	
For Parallel Blade Damper, Add	84.08	
23 33 13 13-0160 EA 56" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	398.18	51.82
For Stainless Steel, Add	315.29	
For Parallel Blade Damper, Add	97.01	
23 33 13 13-0161 EA 56" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	435.11	53.38
For Stainless Steel, Add	357.34	
For Parallel Blade Damper, Add	109.95	
23 33 13 13-0162 EA 56" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	469.33	54.85
For Stainless Steel, Add	395.88	
For Parallel Blade Damper, Add	121.81	
23 33 13 13-0163 EA 56" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	516.21	57.96
For Stainless Steel, Add	444.93	
For Parallel Blade Damper, Add	136.90	
23 33 13 13-0164 EA 56" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	557.71	60.98
For Stainless Steel, Add	486.97	
For Parallel Blade Damper, Add	149.84	
23 33 13 13-0165 EA 56" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	601.90	64.00
For Stainless Steel, Add	532.51	
For Parallel Blade Damper, Add	163.85	
23 33 13 13-0166 EA 56" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	638.02	67.11
For Stainless Steel, Add	567.55	
For Parallel Blade Damper, Add	174.63	
23 33 13 13-0167 EA 56" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	682.20	70.14
For Stainless Steel, Add	613.09	
For Parallel Blade Damper, Add	188.64	
23 33 13 13-0168 EA 56" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	726.39	73.16
For Stainless Steel, Add	658.63	
For Parallel Blade Damper, Add	202.66	
23 33 13 13-0169 EA 60" x 6" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	226.31	30.49
For Stainless Steel, Add	175.18	
For Parallel Blade Damper, Add	53.90	
23 33 13 13-0170 EA 60" x 8" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	248.93	33.51
For Stainless Steel, Add	192.69	
For Parallel Blade Damper, Add	59.29	
23 33 13 13-0171 EA 60" x 10" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	263.47	36.62
For Stainless Steel, Add	199.68	
For Parallel Blade Damper, Add	61.44	
23 33 13 13-0172 EA 60" x 12" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	275.35	39.65
For Stainless Steel, Add	203.22	
For Parallel Blade Damper, Add	62.53	
23 33 13 13-0173 EA 60" x 14" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	300.67	42.67
For Stainless Steel, Add	224.22	
For Parallel Blade Damper, Add	68.99	
23 33 13 13-0174 EA 60" x 16" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	325.97	45.78
For Stainless Steel, Add	245.22	
For Parallel Blade Damper, Add	75.45	
23 33 13 13-0175 EA 60" x 18" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	352.65	48.80
For Stainless Steel, Add	268.00	
For Parallel Blade Damper, Add	82.46	
23 33 13 13-0176 EA 60" x 20" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	379.32	51.82
For Stainless Steel, Add	290.77	
For Parallel Blade Damper, Add	89.47	
23 33 13 13-0177 EA 60" x 24" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	418.93	53.38
For Stainless Steel, Add	336.31	
For Parallel Blade Damper, Add	103.48	
23 33 13 13-0178 EA 60" x 28" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation.....	455.84	54.85
For Stainless Steel, Add	378.34	
For Parallel Blade Damper, Add	116.41	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 13-0179 EA 60" x 32" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	500.04	57.96
For Stainless Steel, Add	423.90	
For Parallel Blade Damper, Add	130.43	
23 33 13 13-0180 EA 60" x 36" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	544.24	60.98
For Stainless Steel, Add	469.46	
For Parallel Blade Damper, Add	144.45	
23 33 13 13-0181 EA 60" x 40" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	580.34	64.00
For Stainless Steel, Add	504.48	
For Parallel Blade Damper, Add	155.22	
23 33 13 13-0182 EA 60" x 44" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	632.60	67.11
For Stainless Steel, Add	560.51	
For Parallel Blade Damper, Add	172.46	
23 33 13 13-0183 EA 60" x 48" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	679.48	70.14
For Stainless Steel, Add	609.56	
For Parallel Blade Damper, Add	187.56	
23 33 13 13-0184 EA 60" x 52" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	726.39	73.16
For Stainless Steel, Add	658.63	
For Parallel Blade Damper, Add	202.66	
23 33 13 13-0185 EA 60" x 56" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	767.84	76.27
For Stainless Steel, Add	700.62	
For Parallel Blade Damper, Add	215.58	
23 33 13 13-0186 EA 60" x 60" Rectangular Opposed Blade Damper, Steel Construction, Manual Operation	809.37	79.29
For Stainless Steel, Add	742.70	
For Parallel Blade Damper, Add	228.52	
 23 33 13 16 Fire Dampers (23 33 13)		
23 33 13 16-0001 Fire Dampers (23 33 13 16)		
23 33 13 16-0002 SF Curtain Type, Vertical, Fire Damper.....	55.23	9.89
For Smoke Damper, Add	21.65	
For Horizontal, Add	3.82	
For Dynamic Damper, Add	5.73	
For 3 Hour Rated, Add	5.09	
23 33 13 16-0003 SF Louver Type, Vertical, Fire Damper	69.13	9.89
For Smoke Damper, Add	33.46	
For Horizontal, Add	5.91	
For Dynamic Damper, Add	8.86	
For 3 Hour Rated, Add	7.87	
 23 33 13 16-0004 Folding Curtain Fire Dampers (23 33 13 16)		
Note: UL Listed. Air stream galvanized steel construction with fusible link 160 F spring actuated for horizontal mount gravity actuated for vertical mount 1-1/2 hour fire rating. Damper blades and damper frame are in the air stream.		
23 33 13 16-0005 EA 6" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	46.89	10.16
For Horizontal, Add	2.46	
For Dynamic Damper, Add	3.69	
For 3 Hour Rated, Add	3.28	
For Damper Blades Outside Air Stream, Add	4.92	
23 33 13 16-0006 EA 8" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	49.42	10.62
For Horizontal, Add	2.63	
For Dynamic Damper, Add	3.95	
For 3 Hour Rated, Add	3.51	
For Damper Blades Outside Air Stream, Add	5.27	
23 33 13 16-0007 EA 8" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	50.78	10.71
For Horizontal, Add	2.81	
For Dynamic Damper, Add	4.22	
For 3 Hour Rated, Add	3.75	
For Damper Blades Outside Air Stream, Add	5.62	
23 33 13 16-0008 EA 10" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	50.78	10.71
For Horizontal, Add	2.81	
For Dynamic Damper, Add	4.22	
For 3 Hour Rated, Add	3.75	
For Damper Blades Outside Air Stream, Add	5.62	
23 33 13 16-0009 EA 10" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	52.87	10.99
For Horizontal, Add	2.99	
For Dynamic Damper, Add	4.48	
For 3 Hour Rated, Add	3.98	
For Damper Blades Outside Air Stream, Add	5.97	
23 33 13 16-0010 EA 10" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	58.87	12.17
For Horizontal, Add	3.34	
For Dynamic Damper, Add	5.01	
For 3 Hour Rated, Add	4.45	
For Damper Blades Outside Air Stream, Add	6.68	
23 33 13 16-0011 EA 12" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	52.87	10.99
For Horizontal, Add	2.99	
For Dynamic Damper, Add	4.48	
For 3 Hour Rated, Add	3.98	
For Damper Blades Outside Air Stream, Add	5.97	
23 33 13 16-0012 EA 12" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	57.04	11.63
For Horizontal, Add	3.34	
For Dynamic Damper, Add	5.01	
For 3 Hour Rated, Add	4.45	
For Damper Blades Outside Air Stream, Add	6.68	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0013	EA		12" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	60.04	12.17
			<i>For Horizontal, Add</i>	3.51	
			<i>For Dynamic Damper, Add</i>	5.27	
			<i>For 3 Hour Rated, Add</i>	4.68	
			<i>For Damper Blades Outside Air Stream, Add</i>	7.03	
23 33 13 16-0014	EA		12" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	65.81	13.73
			<i>For Horizontal, Add</i>	3.69	
			<i>For Dynamic Damper, Add</i>	5.54	
			<i>For 3 Hour Rated, Add</i>	4.92	
			<i>For Damper Blades Outside Air Stream, Add</i>	7.38	
23 33 13 16-0015	EA		14" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	56.46	11.63
			<i>For Horizontal, Add</i>	3.25	
			<i>For Dynamic Damper, Add</i>	4.88	
			<i>For 3 Hour Rated, Add</i>	4.33	
			<i>For Damper Blades Outside Air Stream, Add</i>	6.50	
23 33 13 16-0016	EA		14" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	60.04	12.17
			<i>For Horizontal, Add</i>	3.51	
			<i>For Dynamic Damper, Add</i>	5.27	
			<i>For 3 Hour Rated, Add</i>	4.68	
			<i>For Damper Blades Outside Air Stream, Add</i>	7.03	
23 33 13 16-0017	EA		14" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	63.06	12.82
			<i>For Horizontal, Add</i>	3.69	
			<i>For Dynamic Damper, Add</i>	5.54	
			<i>For 3 Hour Rated, Add</i>	4.92	
			<i>For Damper Blades Outside Air Stream, Add</i>	7.38	
23 33 13 16-0018	EA		14" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	66.98	13.73
			<i>For Horizontal, Add</i>	3.87	
			<i>For Dynamic Damper, Add</i>	5.80	
			<i>For 3 Hour Rated, Add</i>	5.15	
			<i>For Damper Blades Outside Air Stream, Add</i>	7.73	
23 33 13 16-0019	EA		14" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	74.48	15.29
			<i>For Horizontal, Add</i>	4.31	
			<i>For Dynamic Damper, Add</i>	6.46	
			<i>For 3 Hour Rated, Add</i>	5.74	
			<i>For Damper Blades Outside Air Stream, Add</i>	8.61	
23 33 13 16-0020	EA		16" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	60.04	12.17
			<i>For Horizontal, Add</i>	3.51	
			<i>For Dynamic Damper, Add</i>	5.27	
			<i>For 3 Hour Rated, Add</i>	4.68	
			<i>For Damper Blades Outside Air Stream, Add</i>	7.03	
23 33 13 16-0021	EA		16" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	63.98	13.09
			<i>For Horizontal, Add</i>	3.69	
			<i>For Dynamic Damper, Add</i>	5.54	
			<i>For 3 Hour Rated, Add</i>	4.92	
			<i>For Damper Blades Outside Air Stream, Add</i>	7.38	
23 33 13 16-0022	EA		16" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	68.81	14.38
			<i>For Horizontal, Add</i>	3.87	
			<i>For Dynamic Damper, Add</i>	5.80	
			<i>For 3 Hour Rated, Add</i>	5.15	
			<i>For Damper Blades Outside Air Stream, Add</i>	7.73	
23 33 13 16-0023	EA		16" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	72.71	15.29
			<i>For Horizontal, Add</i>	4.04	
			<i>For Dynamic Damper, Add</i>	6.06	
			<i>For 3 Hour Rated, Add</i>	5.39	
			<i>For Damper Blades Outside Air Stream, Add</i>	8.08	
23 33 13 16-0024	EA		16" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	80.23	16.76
			<i>For Horizontal, Add</i>	4.48	
			<i>For Dynamic Damper, Add</i>	6.72	
			<i>For 3 Hour Rated, Add</i>	5.97	
			<i>For Damper Blades Outside Air Stream, Add</i>	8.96	
23 33 13 16-0025	EA		16" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	87.74	18.31
			<i>For Horizontal, Add</i>	4.92	
			<i>For Dynamic Damper, Add</i>	7.38	
			<i>For 3 Hour Rated, Add</i>	6.56	
			<i>For Damper Blades Outside Air Stream, Add</i>	9.84	
23 33 13 16-0026	EA		18" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	63.06	12.82
			<i>For Horizontal, Add</i>	3.69	
			<i>For Dynamic Damper, Add</i>	5.54	
			<i>For 3 Hour Rated, Add</i>	4.92	
			<i>For Damper Blades Outside Air Stream, Add</i>	7.38	
23 33 13 16-0027	EA		18" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	67.56	13.73
			<i>For Horizontal, Add</i>	3.95	
			<i>For Dynamic Damper, Add</i>	5.93	
			<i>For 3 Hour Rated, Add</i>	5.27	
			<i>For Damper Blades Outside Air Stream, Add</i>	7.91	
23 33 13 16-0028	EA		18" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	73.90	15.29
			<i>For Horizontal, Add</i>	4.22	
			<i>For Dynamic Damper, Add</i>	6.33	
			<i>For 3 Hour Rated, Add</i>	5.62	
			<i>For Damper Blades Outside Air Stream, Add</i>	8.44	
23 33 13 16-0029	EA		18" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	81.40	16.76
			<i>For Horizontal, Add</i>	4.66	
			<i>For Dynamic Damper, Add</i>	6.98	
			<i>For 3 Hour Rated, Add</i>	6.21	
			<i>For Damper Blades Outside Air Stream, Add</i>	9.31	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0030 EA 18" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	88.32	18.31
For Horizontal, Add	5.01	
For Dynamic Damper, Add	7.51	
For 3 Hour Rated, Add	6.68	
For Damper Blades Outside Air Stream, Add	10.01	
23 33 13 16-0031 EA 18" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	95.83	19.78
For Horizontal, Add	5.45	
For Dynamic Damper, Add	8.17	
For 3 Hour Rated, Add	7.26	
For Damper Blades Outside Air Stream, Add	10.89	
23 33 13 16-0032 EA 18" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	102.16	21.34
For Horizontal, Add	5.71	
For Dynamic Damper, Add	8.57	
For 3 Hour Rated, Add	7.61	
For Damper Blades Outside Air Stream, Add	11.42	
23 33 13 16-0033 EA 20" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	66.98	13.73
For Horizontal, Add	3.87	
For Dynamic Damper, Add	5.80	
For 3 Hour Rated, Add	5.15	
For Damper Blades Outside Air Stream, Add	7.73	
23 33 13 16-0034 EA 20" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	73.89	15.29
For Horizontal, Add	4.22	
For Dynamic Damper, Add	6.32	
For 3 Hour Rated, Add	5.62	
For Damper Blades Outside Air Stream, Add	8.43	
23 33 13 16-0035 EA 20" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	80.81	16.76
For Horizontal, Add	4.57	
For Dynamic Damper, Add	6.85	
For 3 Hour Rated, Add	6.09	
For Damper Blades Outside Air Stream, Add	9.14	
23 33 13 16-0036 EA 20" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	90.09	18.31
For Horizontal, Add	5.27	
For Dynamic Damper, Add	7.91	
For 3 Hour Rated, Add	7.03	
For Damper Blades Outside Air Stream, Add	10.55	
23 33 13 16-0037 EA 20" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	96.42	19.78
For Horizontal, Add	5.54	
For Dynamic Damper, Add	8.30	
For 3 Hour Rated, Add	7.38	
For Damper Blades Outside Air Stream, Add	11.07	
23 33 13 16-0038 EA 20" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	102.75	21.34
For Horizontal, Add	5.80	
For Dynamic Damper, Add	8.70	
For 3 Hour Rated, Add	7.73	
For Damper Blades Outside Air Stream, Add	11.60	
23 33 13 16-0039 EA 20" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	109.67	22.89
For Horizontal, Add	6.15	
For Dynamic Damper, Add	9.23	
For 3 Hour Rated, Add	8.20	
For Damper Blades Outside Air Stream, Add	12.30	
23 33 13 16-0040 EA 20" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	116.58	24.36
For Horizontal, Add	6.50	
For Dynamic Damper, Add	9.75	
For 3 Hour Rated, Add	8.67	
For Damper Blades Outside Air Stream, Add	13.00	
23 33 13 16-0041 EA 24" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	75.06	15.29
For Horizontal, Add	4.39	
For Dynamic Damper, Add	6.59	
For 3 Hour Rated, Add	5.86	
For Damper Blades Outside Air Stream, Add	8.78	
23 33 13 16-0042 EA 24" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	83.16	16.76
For Horizontal, Add	4.92	
For Dynamic Damper, Add	7.38	
For 3 Hour Rated, Add	6.56	
For Damper Blades Outside Air Stream, Add	9.84	
23 33 13 16-0043 EA 24" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	90.09	18.31
For Horizontal, Add	5.27	
For Dynamic Damper, Add	7.91	
For 3 Hour Rated, Add	7.03	
For Damper Blades Outside Air Stream, Add	10.55	
23 33 13 16-0044 EA 24" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	98.18	19.78
For Horizontal, Add	5.80	
For Dynamic Damper, Add	8.70	
For 3 Hour Rated, Add	7.73	
For Damper Blades Outside Air Stream, Add	11.60	
23 33 13 16-0045 EA 24" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	104.50	21.34
For Horizontal, Add	6.06	
For Dynamic Damper, Add	9.09	
For 3 Hour Rated, Add	8.08	
For Damper Blades Outside Air Stream, Add	12.12	
23 33 13 16-0046 EA 24" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	110.84	22.89
For Horizontal, Add	6.33	
For Dynamic Damper, Add	9.49	
For 3 Hour Rated, Add	8.43	
For Damper Blades Outside Air Stream, Add	12.65	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0047	EA		24" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	118.93	24.36
			<i>For Horizontal, Add</i>	6.85	
			<i>For Dynamic Damper, Add</i>	10.28	
			<i>For 3 Hour Rated, Add</i>	9.14	
			<i>For Damper Blades Outside Air Stream, Add</i>	13.70	
23 33 13 16-0048	EA		24" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	131.59	27.46
			<i>For Horizontal, Add</i>	7.38	
			<i>For Dynamic Damper, Add</i>	11.07	
			<i>For 3 Hour Rated, Add</i>	9.84	
			<i>For Damper Blades Outside Air Stream, Add</i>	14.76	
23 33 13 16-0049	EA		24" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	145.45	30.49
			<i>For Horizontal, Add</i>	8.08	
			<i>For Dynamic Damper, Add</i>	12.13	
			<i>For 3 Hour Rated, Add</i>	10.78	
			<i>For Damper Blades Outside Air Stream, Add</i>	16.17	
23 33 13 16-0050	EA		28" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	83.16	16.76
			<i>For Horizontal, Add</i>	4.92	
			<i>For Dynamic Damper, Add</i>	7.38	
			<i>For 3 Hour Rated, Add</i>	6.56	
			<i>For Damper Blades Outside Air Stream, Add</i>	9.84	
23 33 13 16-0051	EA		28" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	90.09	18.31
			<i>For Horizontal, Add</i>	5.27	
			<i>For Dynamic Damper, Add</i>	7.91	
			<i>For 3 Hour Rated, Add</i>	7.03	
			<i>For Damper Blades Outside Air Stream, Add</i>	10.55	
23 33 13 16-0052	EA		28" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	98.18	19.78
			<i>For Horizontal, Add</i>	5.80	
			<i>For Dynamic Damper, Add</i>	8.70	
			<i>For 3 Hour Rated, Add</i>	7.73	
			<i>For Damper Blades Outside Air Stream, Add</i>	11.60	
23 33 13 16-0053	EA		28" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	105.09	21.34
			<i>For Horizontal, Add</i>	6.15	
			<i>For Dynamic Damper, Add</i>	9.23	
			<i>For 3 Hour Rated, Add</i>	8.20	
			<i>For Damper Blades Outside Air Stream, Add</i>	12.30	
23 33 13 16-0054	EA		28" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	112.60	22.89
			<i>For Horizontal, Add</i>	6.59	
			<i>For Dynamic Damper, Add</i>	9.88	
			<i>For 3 Hour Rated, Add</i>	8.79	
			<i>For Damper Blades Outside Air Stream, Add</i>	13.18	
23 33 13 16-0055	EA		28" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.10	24.36
			<i>For Horizontal, Add</i>	7.03	
			<i>For Dynamic Damper, Add</i>	10.54	
			<i>For 3 Hour Rated, Add</i>	9.37	
			<i>For Damper Blades Outside Air Stream, Add</i>	14.06	
23 33 13 16-0056	EA		28" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	132.77	27.46
			<i>For Horizontal, Add</i>	7.56	
			<i>For Dynamic Damper, Add</i>	11.33	
			<i>For 3 Hour Rated, Add</i>	10.07	
			<i>For Damper Blades Outside Air Stream, Add</i>	15.11	
23 33 13 16-0057	EA		28" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	145.45	30.49
			<i>For Horizontal, Add</i>	8.08	
			<i>For Dynamic Damper, Add</i>	12.13	
			<i>For 3 Hour Rated, Add</i>	10.78	
			<i>For Damper Blades Outside Air Stream, Add</i>	16.17	
23 33 13 16-0058	EA		28" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	157.05	32.04
			<i>For Horizontal, Add</i>	9.14	
			<i>For Dynamic Damper, Add</i>	13.70	
			<i>For 3 Hour Rated, Add</i>	12.18	
			<i>For Damper Blades Outside Air Stream, Add</i>	18.27	
23 33 13 16-0059	EA		28" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	172.06	35.07
			<i>For Horizontal, Add</i>	10.02	
			<i>For Dynamic Damper, Add</i>	15.02	
			<i>For 3 Hour Rated, Add</i>	13.35	
			<i>For Damper Blades Outside Air Stream, Add</i>	20.03	
23 33 13 16-0060	EA		32" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	93.60	18.31
			<i>For Horizontal, Add</i>	5.80	
			<i>For Dynamic Damper, Add</i>	8.70	
			<i>For 3 Hour Rated, Add</i>	7.73	
			<i>For Damper Blades Outside Air Stream, Add</i>	11.60	
23 33 13 16-0061	EA		32" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	99.34	19.78
			<i>For Horizontal, Add</i>	5.97	
			<i>For Dynamic Damper, Add</i>	8.96	
			<i>For 3 Hour Rated, Add</i>	7.96	
			<i>For Damper Blades Outside Air Stream, Add</i>	11.95	
23 33 13 16-0062	EA		32" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	105.09	21.34
			<i>For Horizontal, Add</i>	6.15	
			<i>For Dynamic Damper, Add</i>	9.23	
			<i>For 3 Hour Rated, Add</i>	8.20	
			<i>For Damper Blades Outside Air Stream, Add</i>	12.30	
23 33 13 16-0063	EA		32" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	112.00	22.89
			<i>For Horizontal, Add</i>	6.50	
			<i>For Dynamic Damper, Add</i>	9.75	
			<i>For 3 Hour Rated, Add</i>	8.67	
			<i>For Damper Blades Outside Air Stream, Add</i>	13.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0064 EA 32" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.32	24.36
<i>For Horizontal, Add</i>	7.06	
<i>For Dynamic Damper, Add</i>	10.59	
<i>For 3 Hour Rated, Add</i>	9.41	
<i>For Damper Blades Outside Air Stream, Add</i>	14.12	
23 33 13 16-0065 EA 32" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	132.77	27.46
<i>For Horizontal, Add</i>	7.56	
<i>For Dynamic Damper, Add</i>	11.33	
<i>For 3 Hour Rated, Add</i>	10.07	
<i>For Damper Blades Outside Air Stream, Add</i>	15.11	
23 33 13 16-0066 EA 32" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	146.62	30.49
<i>For Horizontal, Add</i>	8.26	
<i>For Dynamic Damper, Add</i>	12.39	
<i>For 3 Hour Rated, Add</i>	11.01	
<i>For Damper Blades Outside Air Stream, Add</i>	16.52	
23 33 13 16-0067 EA 32" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	160.45	33.51
<i>For Horizontal, Add</i>	8.96	
<i>For Dynamic Damper, Add</i>	13.44	
<i>For 3 Hour Rated, Add</i>	11.95	
<i>For Damper Blades Outside Air Stream, Add</i>	17.92	
23 33 13 16-0068 EA 32" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	172.06	35.07
<i>For Horizontal, Add</i>	10.02	
<i>For Dynamic Damper, Add</i>	15.02	
<i>For 3 Hour Rated, Add</i>	13.35	
<i>For Damper Blades Outside Air Stream, Add</i>	20.03	
23 33 13 16-0069 EA 32" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	187.58	37.54
<i>For Horizontal, Add</i>	11.25	
<i>For Dynamic Damper, Add</i>	16.87	
<i>For 3 Hour Rated, Add</i>	14.99	
<i>For Damper Blades Outside Air Stream, Add</i>	22.49	
23 33 13 16-0070 EA 32" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	203.37	39.65
<i>For Horizontal, Add</i>	12.65	
<i>For Dynamic Damper, Add</i>	18.98	
<i>For 3 Hour Rated, Add</i>	16.87	
<i>For Damper Blades Outside Air Stream, Add</i>	25.30	
23 33 13 16-0071 EA 36" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	101.69	19.78
<i>For Horizontal, Add</i>	6.33	
<i>For Dynamic Damper, Add</i>	9.49	
<i>For 3 Hour Rated, Add</i>	8.43	
<i>For Damper Blades Outside Air Stream, Add</i>	12.65	
23 33 13 16-0072 EA 36" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	108.60	21.34
<i>For Horizontal, Add</i>	6.68	
<i>For Dynamic Damper, Add</i>	10.01	
<i>For 3 Hour Rated, Add</i>	8.90	
<i>For Damper Blades Outside Air Stream, Add</i>	13.35	
23 33 13 16-0073 EA 36" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	115.52	22.89
<i>For Horizontal, Add</i>	7.03	
<i>For Dynamic Damper, Add</i>	10.54	
<i>For 3 Hour Rated, Add</i>	9.37	
<i>For Damper Blades Outside Air Stream, Add</i>	14.06	
23 33 13 16-0074 EA 36" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	123.62	24.36
<i>For Horizontal, Add</i>	7.56	
<i>For Dynamic Damper, Add</i>	11.33	
<i>For 3 Hour Rated, Add</i>	10.07	
<i>For Damper Blades Outside Air Stream, Add</i>	15.11	
23 33 13 16-0075 EA 36" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	134.53	27.46
<i>For Horizontal, Add</i>	7.82	
<i>For Dynamic Damper, Add</i>	11.73	
<i>For 3 Hour Rated, Add</i>	10.43	
<i>For Damper Blades Outside Air Stream, Add</i>	15.64	
23 33 13 16-0076 EA 36" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	140.87	28.93
<i>For Horizontal, Add</i>	8.08	
<i>For Dynamic Damper, Add</i>	12.13	
<i>For 3 Hour Rated, Add</i>	10.78	
<i>For Damper Blades Outside Air Stream, Add</i>	16.17	
23 33 13 16-0077 EA 36" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	160.45	33.51
<i>For Horizontal, Add</i>	8.96	
<i>For Dynamic Damper, Add</i>	13.44	
<i>For 3 Hour Rated, Add</i>	11.95	
<i>For Damper Blades Outside Air Stream, Add</i>	17.92	
23 33 13 16-0078 EA 36" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	175.46	36.62
<i>For Horizontal, Add</i>	9.84	
<i>For Dynamic Damper, Add</i>	14.76	
<i>For 3 Hour Rated, Add</i>	13.12	
<i>For Damper Blades Outside Air Stream, Add</i>	19.68	
23 33 13 16-0079 EA 36" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	155.04	37.82
<i>For Horizontal, Add</i>	6.23	
<i>For Dynamic Damper, Add</i>	9.34	
<i>For 3 Hour Rated, Add</i>	8.30	
<i>For Damper Blades Outside Air Stream, Add</i>	12.45	
23 33 13 16-0080 EA 36" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	203.77	40.56
<i>For Horizontal, Add</i>	12.30	
<i>For Dynamic Damper, Add</i>	18.45	
<i>For 3 Hour Rated, Add</i>	16.40	
<i>For Damper Blades Outside Air Stream, Add</i>	24.60	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0081 EA 36" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	218.38	42.67
For Horizontal, Add	13.53	
For Dynamic Damper, Add	20.29	
For 3 Hour Rated, Add	18.04	
For Damper Blades Outside Air Stream, Add	27.06	
23 33 13 16-0082 EA 36" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	232.33	44.22
For Horizontal, Add	14.93	
For Dynamic Damper, Add	22.40	
For 3 Hour Rated, Add	19.91	
For Damper Blades Outside Air Stream, Add	29.87	
23 33 13 16-0083 EA 40" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	107.42	22.89
For Horizontal, Add	6.50	
For Dynamic Damper, Add	9.75	
For 3 Hour Rated, Add	8.67	
For Damper Blades Outside Air Stream, Add	13.00	
23 33 13 16-0084 EA 40" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	116.69	24.36
For Horizontal, Add	7.20	
For Dynamic Damper, Add	10.80	
For 3 Hour Rated, Add	9.60	
For Damper Blades Outside Air Stream, Add	14.41	
23 33 13 16-0085 EA 40" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	122.44	25.92
For Horizontal, Add	7.38	
For Dynamic Damper, Add	11.07	
For 3 Hour Rated, Add	9.84	
For Damper Blades Outside Air Stream, Add	14.76	
23 33 13 16-0086 EA 40" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	128.20	27.46
For Horizontal, Add	7.56	
For Dynamic Damper, Add	11.33	
For 3 Hour Rated, Add	10.07	
For Damper Blades Outside Air Stream, Add	15.11	
23 33 13 16-0087 EA 40" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	141.45	28.93
For Horizontal, Add	8.17	
For Dynamic Damper, Add	12.26	
For 3 Hour Rated, Add	10.89	
For Damper Blades Outside Air Stream, Add	16.34	
23 33 13 16-0088 EA 40" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	150.13	30.49
For Horizontal, Add	8.79	
For Dynamic Damper, Add	13.18	
For 3 Hour Rated, Add	11.71	
For Damper Blades Outside Air Stream, Add	17.57	
23 33 13 16-0089 EA 40" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	168.54	35.07
For Horizontal, Add	9.49	
For Dynamic Damper, Add	14.23	
For 3 Hour Rated, Add	12.65	
For Damper Blades Outside Air Stream, Add	18.98	
23 33 13 16-0090 EA 40" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	182.40	38.09
For Horizontal, Add	10.19	
For Dynamic Damper, Add	15.29	
For 3 Hour Rated, Add	13.59	
For Damper Blades Outside Air Stream, Add	20.38	
23 33 13 16-0091 EA 40" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	196.75	40.56
For Horizontal, Add	11.25	
For Dynamic Damper, Add	16.87	
For 3 Hour Rated, Add	14.99	
For Damper Blades Outside Air Stream, Add	22.49	
23 33 13 16-0092 EA 40" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	216.04	42.67
For Horizontal, Add	13.18	
For Dynamic Damper, Add	19.77	
For 3 Hour Rated, Add	17.57	
For Damper Blades Outside Air Stream, Add	26.36	
23 33 13 16-0093 EA 40" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	230.38	45.14
For Horizontal, Add	14.23	
For Dynamic Damper, Add	21.35	
For 3 Hour Rated, Add	18.97	
For Damper Blades Outside Air Stream, Add	28.46	
23 33 13 16-0094 EA 40" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	246.93	46.33
For Horizontal, Add	16.16	
For Dynamic Damper, Add	24.25	
For 3 Hour Rated, Add	21.55	
For Damper Blades Outside Air Stream, Add	32.33	
23 33 13 16-0095 EA 40" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	265.98	48.80
For Horizontal, Add	17.92	
For Dynamic Damper, Add	26.88	
For 3 Hour Rated, Add	23.90	
For Damper Blades Outside Air Stream, Add	35.84	
23 33 13 16-0096 EA 40" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	114.35	22.89
For Horizontal, Add	6.85	
For Dynamic Damper, Add	10.28	
For 3 Hour Rated, Add	9.14	
For Damper Blades Outside Air Stream, Add	13.70	
23 33 13 16-0097 EA 44" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	123.62	24.36
For Horizontal, Add	7.56	
For Dynamic Damper, Add	11.33	
For 3 Hour Rated, Add	10.07	
For Damper Blades Outside Air Stream, Add	15.11	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0098 EA 44" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	131.72	25.92
<i>For Horizontal, Add</i>	8.08	
<i>For Dynamic Damper, Add</i>	12.13	
<i>For 3 Hour Rated, Add</i>	10.78	
<i>For Damper Blades Outside Air Stream, Add</i>	16.17	
23 33 13 16-0099 EA 44" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	137.46	27.46
<i>For Horizontal, Add</i>	8.26	
<i>For Dynamic Damper, Add</i>	12.39	
<i>For 3 Hour Rated, Add</i>	11.01	
<i>For Damper Blades Outside Air Stream, Add</i>	16.52	
23 33 13 16-0100 EA 44" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	146.72	28.93
<i>For Horizontal, Add</i>	8.96	
<i>For Dynamic Damper, Add</i>	13.44	
<i>For 3 Hour Rated, Add</i>	11.95	
<i>For Damper Blades Outside Air Stream, Add</i>	17.92	
23 33 13 16-0101 EA 44" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	155.99	30.49
<i>For Horizontal, Add</i>	9.66	
<i>For Dynamic Damper, Add</i>	14.50	
<i>For 3 Hour Rated, Add</i>	12.89	
<i>For Damper Blades Outside Air Stream, Add</i>	19.33	
23 33 13 16-0102 EA 44" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	180.16	36.62
<i>For Horizontal, Add</i>	10.54	
<i>For Dynamic Damper, Add</i>	15.82	
<i>For 3 Hour Rated, Add</i>	14.06	
<i>For Damper Blades Outside Air Stream, Add</i>	21.09	
23 33 13 16-0103 EA 44" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	195.16	39.65
<i>For Horizontal, Add</i>	11.42	
<i>For Dynamic Damper, Add</i>	17.13	
<i>For 3 Hour Rated, Add</i>	15.23	
<i>For Damper Blades Outside Air Stream, Add</i>	22.84	
23 33 13 16-0104 EA 44" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	216.04	42.67
<i>For Horizontal, Add</i>	13.18	
<i>For Dynamic Damper, Add</i>	19.77	
<i>For 3 Hour Rated, Add</i>	17.57	
<i>For Damper Blades Outside Air Stream, Add</i>	26.36	
23 33 13 16-0105 EA 44" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	235.73	45.78
<i>For Horizontal, Add</i>	14.76	
<i>For Dynamic Damper, Add</i>	22.14	
<i>For 3 Hour Rated, Add</i>	19.68	
<i>For Damper Blades Outside Air Stream, Add</i>	29.52	
23 33 13 16-0106 EA 44" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	256.60	48.80
<i>For Horizontal, Add</i>	16.52	
<i>For Dynamic Damper, Add</i>	24.77	
<i>For 3 Hour Rated, Add</i>	22.02	
<i>For Damper Blades Outside Air Stream, Add</i>	33.03	
23 33 13 16-0107 EA 44" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	271.71	50.27
<i>For Horizontal, Add</i>	18.10	
<i>For Dynamic Damper, Add</i>	27.14	
<i>For 3 Hour Rated, Add</i>	24.13	
<i>For Damper Blades Outside Air Stream, Add</i>	36.19	
23 33 13 16-0108 EA 44" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	286.83	51.82
<i>For Horizontal, Add</i>	19.68	
<i>For Dynamic Damper, Add</i>	29.52	
<i>For 3 Hour Rated, Add</i>	26.24	
<i>For Damper Blades Outside Air Stream, Add</i>	39.35	
23 33 13 16-0109 EA 44" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	301.97	53.38
<i>For Horizontal, Add</i>	21.26	
<i>For Dynamic Damper, Add</i>	31.89	
<i>For 3 Hour Rated, Add</i>	28.35	
<i>For Damper Blades Outside Air Stream, Add</i>	42.52	
23 33 13 16-0110 EA 48" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	122.44	24.36
<i>For Horizontal, Add</i>	7.38	
<i>For Dynamic Damper, Add</i>	11.07	
<i>For 3 Hour Rated, Add</i>	9.84	
<i>For Damper Blades Outside Air Stream, Add</i>	14.76	
23 33 13 16-0111 EA 48" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	131.72	25.92
<i>For Horizontal, Add</i>	8.08	
<i>For Dynamic Damper, Add</i>	12.13	
<i>For 3 Hour Rated, Add</i>	10.78	
<i>For Damper Blades Outside Air Stream, Add</i>	16.17	
23 33 13 16-0112 EA 48" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	137.46	27.46
<i>For Horizontal, Add</i>	8.26	
<i>For Dynamic Damper, Add</i>	12.39	
<i>For 3 Hour Rated, Add</i>	11.01	
<i>For Damper Blades Outside Air Stream, Add</i>	16.52	
23 33 13 16-0113 EA 48" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	150.13	30.49
<i>For Horizontal, Add</i>	8.79	
<i>For Dynamic Damper, Add</i>	13.18	
<i>For 3 Hour Rated, Add</i>	11.71	
<i>For Damper Blades Outside Air Stream, Add</i>	17.57	
23 33 13 16-0114 EA 48" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	163.96	33.51
<i>For Horizontal, Add</i>	9.49	
<i>For Dynamic Damper, Add</i>	14.23	
<i>For 3 Hour Rated, Add</i>	12.65	
<i>For Damper Blades Outside Air Stream, Add</i>	18.98	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0115 EA 48" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	177.81	36.62
For Horizontal, Add	10.19	
For Dynamic Damper, Add	15.29	
For 3 Hour Rated, Add	13.59	
For Damper Blades Outside Air Stream, Add	20.38	
23 33 13 16-0116 EA 48" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	194.00	39.65
For Horizontal, Add	11.25	
For Dynamic Damper, Add	16.87	
For 3 Hour Rated, Add	14.99	
For Damper Blades Outside Air Stream, Add	22.49	
23 33 13 16-0117 EA 48" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	210.18	42.67
For Horizontal, Add	12.30	
For Dynamic Damper, Add	18.45	
For 3 Hour Rated, Add	16.40	
For Damper Blades Outside Air Stream, Add	24.60	
23 33 13 16-0118 EA 48" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	229.87	45.78
For Horizontal, Add	13.88	
For Dynamic Damper, Add	20.82	
For 3 Hour Rated, Add	18.51	
For Damper Blades Outside Air Stream, Add	27.76	
23 33 13 16-0119 EA 48" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	251.91	48.80
For Horizontal, Add	15.81	
For Dynamic Damper, Add	23.72	
For 3 Hour Rated, Add	21.08	
For Damper Blades Outside Air Stream, Add	31.62	
23 33 13 16-0120 EA 48" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	267.04	50.27
For Horizontal, Add	17.40	
For Dynamic Damper, Add	26.09	
For 3 Hour Rated, Add	23.19	
For Damper Blades Outside Air Stream, Add	34.79	
23 33 13 16-0121 EA 48" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	285.66	51.82
For Horizontal, Add	19.50	
For Dynamic Damper, Add	29.25	
For 3 Hour Rated, Add	26.00	
For Damper Blades Outside Air Stream, Add	39.00	
23 33 13 16-0122 EA 48" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	305.37	54.85
For Horizontal, Add	21.08	
For Dynamic Damper, Add	31.63	
For 3 Hour Rated, Add	28.11	
For Damper Blades Outside Air Stream, Add	42.17	
23 33 13 16-0123 EA 48" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	324.00	56.40
For Horizontal, Add	23.19	
For Dynamic Damper, Add	34.79	
For 3 Hour Rated, Add	30.92	
For Damper Blades Outside Air Stream, Add	46.39	
23 33 13 16-0124 EA 48" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	347.10	60.98
For Horizontal, Add	24.60	
For Dynamic Damper, Add	36.90	
For 3 Hour Rated, Add	32.80	
For Damper Blades Outside Air Stream, Add	49.19	
23 33 13 16-0125 EA 52" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	130.54	25.92
For Horizontal, Add	7.91	
For Dynamic Damper, Add	11.86	
For 3 Hour Rated, Add	10.54	
For Damper Blades Outside Air Stream, Add	15.81	
23 33 13 16-0126 EA 52" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	139.80	27.46
For Horizontal, Add	8.61	
For Dynamic Damper, Add	12.92	
For 3 Hour Rated, Add	11.48	
For Damper Blades Outside Air Stream, Add	17.22	
23 33 13 16-0127 EA 52" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	153.64	30.49
For Horizontal, Add	9.31	
For Dynamic Damper, Add	13.97	
For 3 Hour Rated, Add	12.42	
For Damper Blades Outside Air Stream, Add	18.62	
23 33 13 16-0128 EA 52" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	163.96	33.51
For Horizontal, Add	9.49	
For Dynamic Damper, Add	14.23	
For 3 Hour Rated, Add	12.65	
For Damper Blades Outside Air Stream, Add	18.98	
23 33 13 16-0129 EA 52" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	178.40	36.62
For Horizontal, Add	10.28	
For Dynamic Damper, Add	15.42	
For 3 Hour Rated, Add	13.71	
For Damper Blades Outside Air Stream, Add	20.56	
23 33 13 16-0130 EA 52" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	192.83	39.65
For Horizontal, Add	11.07	
For Dynamic Damper, Add	16.61	
For 3 Hour Rated, Add	14.76	
For Damper Blades Outside Air Stream, Add	22.14	
23 33 13 16-0131 EA 52" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	209.02	42.67
For Horizontal, Add	12.12	
For Dynamic Damper, Add	18.19	
For 3 Hour Rated, Add	16.17	
For Damper Blades Outside Air Stream, Add	24.25	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0132 EA 52" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	225.19	45.78
<i>For Horizontal, Add</i>	13.18	
<i>For Dynamic Damper, Add</i>	19.77	
<i>For 3 Hour Rated, Add</i>	17.57	
<i>For Damper Blades Outside Air Stream, Add</i>	26.36	
23 33 13 16-0133 EA 52" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	244.89	48.80
<i>For Horizontal, Add</i>	14.76	
<i>For Dynamic Damper, Add</i>	22.14	
<i>For 3 Hour Rated, Add</i>	19.68	
<i>For Damper Blades Outside Air Stream, Add</i>	29.52	
23 33 13 16-0134 EA 52" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	268.10	51.82
<i>For Horizontal, Add</i>	16.87	
<i>For Dynamic Damper, Add</i>	25.30	
<i>For 3 Hour Rated, Add</i>	22.49	
<i>For Damper Blades Outside Air Stream, Add</i>	33.74	
23 33 13 16-0135 EA 52" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	284.38	53.38
<i>For Horizontal, Add</i>	18.62	
<i>For Dynamic Damper, Add</i>	27.93	
<i>For 3 Hour Rated, Add</i>	24.83	
<i>For Damper Blades Outside Air Stream, Add</i>	37.25	
23 33 13 16-0136 EA 52" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	304.20	54.85
<i>For Horizontal, Add</i>	20.91	
<i>For Dynamic Damper, Add</i>	31.36	
<i>For 3 Hour Rated, Add</i>	27.88	
<i>For Damper Blades Outside Air Stream, Add</i>	41.82	
23 33 13 16-0137 EA 52" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	327.39	57.96
<i>For Horizontal, Add</i>	23.01	
<i>For Dynamic Damper, Add</i>	34.52	
<i>For 3 Hour Rated, Add</i>	30.69	
<i>For Damper Blades Outside Air Stream, Add</i>	46.03	
23 33 13 16-0138 EA 52" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	347.10	60.98
<i>For Horizontal, Add</i>	24.60	
<i>For Dynamic Damper, Add</i>	36.90	
<i>For 3 Hour Rated, Add</i>	32.80	
<i>For Damper Blades Outside Air Stream, Add</i>	49.19	
23 33 13 16-0139 EA 52" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	374.90	65.55
<i>For Horizontal, Add</i>	26.71	
<i>For Dynamic Damper, Add</i>	40.06	
<i>For 3 Hour Rated, Add</i>	35.61	
<i>For Damper Blades Outside Air Stream, Add</i>	53.41	
23 33 13 16-0140 EA 52" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	395.76	68.58
<i>For Horizontal, Add</i>	28.46	
<i>For Dynamic Damper, Add</i>	42.69	
<i>For 3 Hour Rated, Add</i>	37.95	
<i>For Damper Blades Outside Air Stream, Add</i>	56.93	
23 33 13 16-0141 EA 56" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	137.46	27.46
<i>For Horizontal, Add</i>	8.26	
<i>For Dynamic Damper, Add</i>	12.39	
<i>For 3 Hour Rated, Add</i>	11.01	
<i>For Damper Blades Outside Air Stream, Add</i>	16.52	
23 33 13 16-0142 EA 56" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	152.47	30.49
<i>For Horizontal, Add</i>	9.14	
<i>For Dynamic Damper, Add</i>	13.70	
<i>For 3 Hour Rated, Add</i>	12.18	
<i>For Damper Blades Outside Air Stream, Add</i>	18.27	
23 33 13 16-0143 EA 56" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	165.14	33.51
<i>For Horizontal, Add</i>	9.66	
<i>For Dynamic Damper, Add</i>	14.50	
<i>For 3 Hour Rated, Add</i>	12.89	
<i>For Damper Blades Outside Air Stream, Add</i>	19.33	
23 33 13 16-0144 EA 56" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	175.46	36.62
<i>For Horizontal, Add</i>	9.84	
<i>For Dynamic Damper, Add</i>	14.76	
<i>For 3 Hour Rated, Add</i>	13.12	
<i>For Damper Blades Outside Air Stream, Add</i>	19.68	
23 33 13 16-0145 EA 56" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	191.07	39.65
<i>For Horizontal, Add</i>	10.81	
<i>For Dynamic Damper, Add</i>	16.21	
<i>For 3 Hour Rated, Add</i>	14.41	
<i>For Damper Blades Outside Air Stream, Add</i>	21.61	
23 33 13 16-0146 EA 56" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	206.67	42.67
<i>For Horizontal, Add</i>	11.77	
<i>For Dynamic Damper, Add</i>	17.66	
<i>For 3 Hour Rated, Add</i>	15.70	
<i>For Damper Blades Outside Air Stream, Add</i>	23.54	
23 33 13 16-0147 EA 56" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	222.26	45.78
<i>For Horizontal, Add</i>	12.74	
<i>For Dynamic Damper, Add</i>	19.11	
<i>For 3 Hour Rated, Add</i>	16.98	
<i>For Damper Blades Outside Air Stream, Add</i>	25.48	
23 33 13 16-0148 EA 56" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	237.86	48.80
<i>For Horizontal, Add</i>	13.70	
<i>For Dynamic Damper, Add</i>	20.56	
<i>For 3 Hour Rated, Add</i>	18.27	
<i>For Damper Blades Outside Air Stream, Add</i>	27.41	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0149 EA 56" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	261.06	51.82
For Horizontal, Add	15.81	
For Dynamic Damper, Add	23.72	
For 3 Hour Rated, Add	21.08	
For Damper Blades Outside Air Stream, Add	31.62	
23 33 13 16-0150 EA 56" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	279.71	53.38
For Horizontal, Add	17.92	
For Dynamic Damper, Add	26.88	
For 3 Hour Rated, Add	23.90	
For Damper Blades Outside Air Stream, Add	35.84	
23 33 13 16-0151 EA 56" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	297.17	54.85
For Horizontal, Add	19.85	
For Dynamic Damper, Add	29.78	
For 3 Hour Rated, Add	26.47	
For Damper Blades Outside Air Stream, Add	39.71	
23 33 13 16-0152 EA 56" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	322.72	57.96
For Horizontal, Add	22.31	
For Dynamic Damper, Add	33.47	
For 3 Hour Rated, Add	29.75	
For Damper Blades Outside Air Stream, Add	44.63	
23 33 13 16-0153 EA 56" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	345.93	60.98
For Horizontal, Add	24.42	
For Dynamic Damper, Add	36.63	
For 3 Hour Rated, Add	32.56	
For Damper Blades Outside Air Stream, Add	48.84	
23 33 13 16-0154 EA 56" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	370.32	64.00
For Horizontal, Add	26.71	
For Dynamic Damper, Add	40.06	
For 3 Hour Rated, Add	35.61	
For Damper Blades Outside Air Stream, Add	53.41	
23 33 13 16-0155 EA 56" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	391.19	67.11
For Horizontal, Add	28.46	
For Dynamic Damper, Add	42.69	
For 3 Hour Rated, Add	37.95	
For Damper Blades Outside Air Stream, Add	56.93	
23 33 13 16-0156 EA 56" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	415.57	70.14
For Horizontal, Add	30.75	
For Dynamic Damper, Add	46.12	
For 3 Hour Rated, Add	41.00	
For Damper Blades Outside Air Stream, Add	61.49	
23 33 13 16-0157 EA 56" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	439.96	73.16
For Horizontal, Add	33.03	
For Dynamic Damper, Add	49.55	
For 3 Hour Rated, Add	44.04	
For Damper Blades Outside Air Stream, Add	66.06	
23 33 13 16-0158 EA 60" x 6" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	150.13	30.49
For Horizontal, Add	8.79	
For Dynamic Damper, Add	13.18	
For 3 Hour Rated, Add	11.71	
For Damper Blades Outside Air Stream, Add	17.57	
23 33 13 16-0159 EA 60" x 8" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	165.14	33.51
For Horizontal, Add	9.66	
For Dynamic Damper, Add	14.50	
For 3 Hour Rated, Add	12.89	
For Damper Blades Outside Air Stream, Add	19.33	
23 33 13 16-0160 EA 60" x 10" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	176.64	36.62
For Horizontal, Add	10.02	
For Dynamic Damper, Add	15.02	
For 3 Hour Rated, Add	13.35	
For Damper Blades Outside Air Stream, Add	20.03	
23 33 13 16-0161 EA 60" x 12" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	186.97	39.65
For Horizontal, Add	10.19	
For Dynamic Damper, Add	15.29	
For 3 Hour Rated, Add	13.59	
For Damper Blades Outside Air Stream, Add	20.38	
23 33 13 16-0162 EA 60" x 14" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	203.16	42.67
For Horizontal, Add	11.25	
For Dynamic Damper, Add	16.87	
For 3 Hour Rated, Add	14.99	
For Damper Blades Outside Air Stream, Add	22.49	
23 33 13 16-0163 EA 60" x 16" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	219.33	45.78
For Horizontal, Add	12.30	
For Dynamic Damper, Add	18.45	
For 3 Hour Rated, Add	16.40	
For Damper Blades Outside Air Stream, Add	24.60	
23 33 13 16-0164 EA 60" x 18" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	236.11	48.80
For Horizontal, Add	13.44	
For Dynamic Damper, Add	20.16	
For 3 Hour Rated, Add	17.92	
For Damper Blades Outside Air Stream, Add	26.88	
23 33 13 16-0165 EA 60" x 20" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	252.87	51.82
For Horizontal, Add	14.58	
For Dynamic Damper, Add	21.87	
For 3 Hour Rated, Add	19.44	
For Damper Blades Outside Air Stream, Add	29.17	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0166 EA 60" x 24" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	272.68	53.98
<i>For Horizontal, Add</i>	16.87	
<i>For Dynamic Damper, Add</i>	25.30	
<i>For 3 Hour Rated, Add</i>	22.49	
<i>For Damper Blades Outside Air Stream, Add</i>	33.74	
23 33 13 16-0167 EA 60" x 28" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	291.31	54.85
<i>For Horizontal, Add</i>	18.98	
<i>For Dynamic Damper, Add</i>	28.46	
<i>For 3 Hour Rated, Add</i>	25.30	
<i>For Damper Blades Outside Air Stream, Add</i>	37.95	
23 33 13 16-0168 EA 60" x 32" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	315.70	57.96
<i>For Horizontal, Add</i>	21.26	
<i>For Dynamic Damper, Add</i>	31.89	
<i>For 3 Hour Rated, Add</i>	28.35	
<i>For Damper Blades Outside Air Stream, Add</i>	42.52	
23 33 13 16-0169 EA 60" x 36" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	340.08	60.98
<i>For Horizontal, Add</i>	23.54	
<i>For Dynamic Damper, Add</i>	35.32	
<i>For 3 Hour Rated, Add</i>	31.39	
<i>For Damper Blades Outside Air Stream, Add</i>	47.09	
23 33 13 16-0170 EA 60" x 40" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	360.95	64.00
<i>For Horizontal, Add</i>	25.30	
<i>For Dynamic Damper, Add</i>	37.95	
<i>For 3 Hour Rated, Add</i>	33.73	
<i>For Damper Blades Outside Air Stream, Add</i>	50.60	
23 33 13 16-0171 EA 60" x 44" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	388.85	67.11
<i>For Horizontal, Add</i>	28.11	
<i>For Dynamic Damper, Add</i>	42.17	
<i>For 3 Hour Rated, Add</i>	37.48	
<i>For Damper Blades Outside Air Stream, Add</i>	56.22	
23 33 13 16-0172 EA 60" x 48" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	414.40	70.14
<i>For Horizontal, Add</i>	30.57	
<i>For Dynamic Damper, Add</i>	45.86	
<i>For 3 Hour Rated, Add</i>	40.76	
<i>For Damper Blades Outside Air Stream, Add</i>	61.14	
23 33 13 16-0173 EA 60" x 52" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	439.96	73.16
<i>For Horizontal, Add</i>	33.03	
<i>For Dynamic Damper, Add</i>	49.55	
<i>For 3 Hour Rated, Add</i>	44.04	
<i>For Damper Blades Outside Air Stream, Add</i>	66.06	
23 33 13 16-0174 EA 60" x 56" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	463.15	76.27
<i>For Horizontal, Add</i>	35.14	
<i>For Dynamic Damper, Add</i>	52.71	
<i>For 3 Hour Rated, Add</i>	46.85	
<i>For Damper Blades Outside Air Stream, Add</i>	70.28	
23 33 13 16-0175 EA 60" x 60" Folding Curtain Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	486.38	79.29
<i>For Horizontal, Add</i>	37.25	
<i>For Dynamic Damper, Add</i>	55.87	
<i>For 3 Hour Rated, Add</i>	49.66	
<i>For Damper Blades Outside Air Stream, Add</i>	74.50	
23 33 13 16-0176 Parallel Blade Louver Fire Damper <small>(23 33 13 16)</small>		
Note: UL listed. Galvanized steel construction with fusible link 160 F spring actuated 1-1/2 hour fire rating.		
23 33 13 16-0177 EA 6" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	64.43	10.16
<i>For Horizontal, Add</i>	5.09	
<i>For Dynamic Damper, Add</i>	7.64	
<i>For 3 Hour Rated, Add</i>	6.79	
23 33 13 16-0178 EA 8" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	67.25	10.62
<i>For Horizontal, Add</i>	5.31	
<i>For Dynamic Damper, Add</i>	7.96	
<i>For 3 Hour Rated, Add</i>	7.08	
23 33 13 16-0179 EA 8" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	68.90	10.71
<i>For Horizontal, Add</i>	5.53	
<i>For Dynamic Damper, Add</i>	8.29	
<i>For 3 Hour Rated, Add</i>	7.37	
23 33 13 16-0180 EA 10" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	68.90	10.71
<i>For Horizontal, Add</i>	5.53	
<i>For Dynamic Damper, Add</i>	8.29	
<i>For 3 Hour Rated, Add</i>	7.37	
23 33 13 16-0181 EA 10" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	71.29	10.99
<i>For Horizontal, Add</i>	5.75	
<i>For Dynamic Damper, Add</i>	8.62	
<i>For 3 Hour Rated, Add</i>	7.67	
23 33 13 16-0182 EA 10" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	77.87	12.17
<i>For Horizontal, Add</i>	6.19	
<i>For Dynamic Damper, Add</i>	9.28	
<i>For 3 Hour Rated, Add</i>	8.25	
23 33 13 16-0183 EA 12" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	71.29	10.99
<i>For Horizontal, Add</i>	5.75	
<i>For Dynamic Damper, Add</i>	8.62	
<i>For 3 Hour Rated, Add</i>	7.67	
23 33 13 16-0184 EA 12" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	76.04	11.63
<i>For Horizontal, Add</i>	6.19	
<i>For Dynamic Damper, Add</i>	9.28	
<i>For 3 Hour Rated, Add</i>	8.25	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0185	EA		12" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	79.34	12.17
			<i>For Horizontal, Add</i>	6.41	
			<i>For Dynamic Damper, Add</i>	9.61	
			<i>For 3 Hour Rated, Add</i>	8.54	
23 33 13 16-0186	EA		12" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	85.39	13.73
			<i>For Horizontal, Add</i>	6.63	
			<i>For Dynamic Damper, Add</i>	9.94	
			<i>For 3 Hour Rated, Add</i>	8.84	
23 33 13 16-0187	EA		14" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	75.31	11.63
			<i>For Horizontal, Add</i>	6.08	
			<i>For Dynamic Damper, Add</i>	9.12	
			<i>For 3 Hour Rated, Add</i>	8.10	
23 33 13 16-0188	EA		14" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	79.34	12.17
			<i>For Horizontal, Add</i>	6.41	
			<i>For Dynamic Damper, Add</i>	9.61	
			<i>For 3 Hour Rated, Add</i>	8.54	
23 33 13 16-0189	EA		14" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	82.64	12.82
			<i>For Horizontal, Add</i>	6.63	
			<i>For Dynamic Damper, Add</i>	9.94	
			<i>For 3 Hour Rated, Add</i>	8.84	
23 33 13 16-0190	EA		14" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	86.85	13.73
			<i>For Horizontal, Add</i>	6.85	
			<i>For Dynamic Damper, Add</i>	10.27	
			<i>For 3 Hour Rated, Add</i>	9.13	
23 33 13 16-0191	EA		14" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	95.09	15.29
			<i>For Horizontal, Add</i>	7.40	
			<i>For Dynamic Damper, Add</i>	11.09	
			<i>For 3 Hour Rated, Add</i>	9.86	
23 33 13 16-0192	EA		16" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	96.28	12.17
			<i>For Horizontal, Add</i>	8.95	
			<i>For Dynamic Damper, Add</i>	13.42	
			<i>For 3 Hour Rated, Add</i>	11.93	
23 33 13 16-0193	EA		16" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	100.68	13.09
			<i>For Horizontal, Add</i>	9.20	
			<i>For Dynamic Damper, Add</i>	13.79	
			<i>For 3 Hour Rated, Add</i>	12.26	
23 33 13 16-0194	EA		16" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	105.99	14.38
			<i>For Horizontal, Add</i>	9.44	
			<i>For Dynamic Damper, Add</i>	14.16	
			<i>For 3 Hour Rated, Add</i>	12.59	
23 33 13 16-0195	EA		16" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	110.36	15.29
			<i>For Horizontal, Add</i>	9.69	
			<i>For Dynamic Damper, Add</i>	14.53	
			<i>For 3 Hour Rated, Add</i>	12.92	
23 33 13 16-0196	EA		16" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	119.05	16.76
			<i>For Horizontal, Add</i>	10.30	
			<i>For Dynamic Damper, Add</i>	15.46	
			<i>For 3 Hour Rated, Add</i>	13.74	
23 33 13 16-0197	EA		16" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	127.73	18.31
			<i>For Horizontal, Add</i>	10.92	
			<i>For Dynamic Damper, Add</i>	16.38	
			<i>For 3 Hour Rated, Add</i>	14.56	
23 33 13 16-0198	EA		18" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	99.76	12.82
			<i>For Horizontal, Add</i>	9.20	
			<i>For Dynamic Damper, Add</i>	13.79	
			<i>For 3 Hour Rated, Add</i>	12.26	
23 33 13 16-0199	EA		18" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	104.97	13.73
			<i>For Horizontal, Add</i>	9.56	
			<i>For Dynamic Damper, Add</i>	14.35	
			<i>For 3 Hour Rated, Add</i>	12.75	
23 33 13 16-0200	EA		18" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	112.02	15.29
			<i>For Horizontal, Add</i>	9.94	
			<i>For Dynamic Damper, Add</i>	14.90	
			<i>For 3 Hour Rated, Add</i>	13.25	
23 33 13 16-0201	EA		18" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	120.69	16.76
			<i>For Horizontal, Add</i>	10.55	
			<i>For Dynamic Damper, Add</i>	15.82	
			<i>For 3 Hour Rated, Add</i>	14.07	
23 33 13 16-0202	EA		18" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	128.55	18.31
			<i>For Horizontal, Add</i>	11.04	
			<i>For Dynamic Damper, Add</i>	16.56	
			<i>For 3 Hour Rated, Add</i>	14.72	
23 33 13 16-0203	EA		18" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	137.23	19.78
			<i>For Horizontal, Add</i>	11.66	
			<i>For Dynamic Damper, Add</i>	17.48	
			<i>For 3 Hour Rated, Add</i>	15.54	
23 33 13 16-0204	EA		18" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	144.26	21.34
			<i>For Horizontal, Add</i>	12.03	
			<i>For Dynamic Damper, Add</i>	18.04	
			<i>For 3 Hour Rated, Add</i>	16.03	
23 33 13 16-0205	EA		20" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	104.16	13.73
			<i>For Horizontal, Add</i>	9.44	
			<i>For Dynamic Damper, Add</i>	14.16	
			<i>For 3 Hour Rated, Add</i>	12.59	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0206 EA 20" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	112.00	15.29
For Horizontal, Add	9.93	
For Dynamic Damper, Add	14.90	
For 3 Hour Rated, Add	13.24	
23 33 13 16-0207 EA 20" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	119.87	16.76
For Horizontal, Add	10.43	
For Dynamic Damper, Add	15.64	
For 3 Hour Rated, Add	13.90	
23 33 13 16-0208 EA 20" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	131.02	18.31
For Horizontal, Add	11.41	
For Dynamic Damper, Add	17.12	
For 3 Hour Rated, Add	15.22	
23 33 13 16-0209 EA 20" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	138.06	19.78
For Horizontal, Add	11.78	
For Dynamic Damper, Add	17.67	
For 3 Hour Rated, Add	15.71	
23 33 13 16-0210 EA 20" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	145.08	21.34
For Horizontal, Add	12.15	
For Dynamic Damper, Add	18.22	
For 3 Hour Rated, Add	16.20	
23 33 13 16-0211 EA 20" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	152.94	22.89
For Horizontal, Add	12.64	
For Dynamic Damper, Add	18.96	
For 3 Hour Rated, Add	16.85	
23 33 13 16-0212 EA 20" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	160.79	24.36
For Horizontal, Add	13.13	
For Dynamic Damper, Add	19.70	
For 3 Hour Rated, Add	17.51	
23 33 13 16-0213 EA 24" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	127.08	15.29
For Horizontal, Add	12.20	
For Dynamic Damper, Add	18.29	
For 3 Hour Rated, Add	16.26	
23 33 13 16-0214 EA 24" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	136.59	16.76
For Horizontal, Add	12.93	
For Dynamic Damper, Add	19.40	
For 3 Hour Rated, Add	17.25	
23 33 13 16-0215 EA 24" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	144.46	18.31
For Horizontal, Add	13.43	
For Dynamic Damper, Add	20.14	
For 3 Hour Rated, Add	17.90	
23 33 13 16-0216 EA 24" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	153.94	19.78
For Horizontal, Add	14.16	
For Dynamic Damper, Add	21.24	
For 3 Hour Rated, Add	18.88	
23 33 13 16-0217 EA 24" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	160.98	21.34
For Horizontal, Add	14.53	
For Dynamic Damper, Add	21.80	
For 3 Hour Rated, Add	19.38	
23 33 13 16-0218 EA 24" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	168.01	22.89
For Horizontal, Add	14.90	
For Dynamic Damper, Add	22.35	
For 3 Hour Rated, Add	19.87	
23 33 13 16-0219 EA 24" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	177.51	24.36
For Horizontal, Add	15.64	
For Dynamic Damper, Add	23.46	
For 3 Hour Rated, Add	20.85	
23 33 13 16-0220 EA 24" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	191.58	27.46
For Horizontal, Add	16.38	
For Dynamic Damper, Add	24.57	
For 3 Hour Rated, Add	21.84	
23 33 13 16-0221 EA 24" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	207.30	30.49
For Horizontal, Add	17.36	
For Dynamic Damper, Add	26.04	
For 3 Hour Rated, Add	23.15	
23 33 13 16-0222 EA 28" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	136.59	16.76
For Horizontal, Add	12.93	
For Dynamic Damper, Add	19.40	
For 3 Hour Rated, Add	17.25	
23 33 13 16-0223 EA 28" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	144.46	18.31
For Horizontal, Add	13.43	
For Dynamic Damper, Add	20.14	
For 3 Hour Rated, Add	17.90	
23 33 13 16-0224 EA 28" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	153.94	19.78
For Horizontal, Add	14.16	
For Dynamic Damper, Add	21.24	
For 3 Hour Rated, Add	18.88	
23 33 13 16-0225 EA 28" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	161.79	21.34
For Horizontal, Add	14.66	
For Dynamic Damper, Add	21.98	
For 3 Hour Rated, Add	19.54	
23 33 13 16-0226 EA 28" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	170.48	22.89
For Horizontal, Add	15.27	
For Dynamic Damper, Add	22.91	
For 3 Hour Rated, Add	20.36	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0227 EA 28" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	179.14	24.36
For Horizontal, Add	15.88	
For Dynamic Damper, Add	23.83	
For 3 Hour Rated, Add	21.18	
23 33 13 16-0228 EA 28" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	193.22	27.46
For Horizontal, Add	16.62	
For Dynamic Damper, Add	24.93	
For 3 Hour Rated, Add	22.16	
23 33 13 16-0229 EA 28" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	207.30	30.49
For Horizontal, Add	17.36	
For Dynamic Damper, Add	26.04	
For 3 Hour Rated, Add	23.15	
23 33 13 16-0230 EA 28" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	221.72	32.04
For Horizontal, Add	18.84	
For Dynamic Damper, Add	28.26	
For 3 Hour Rated, Add	25.12	
23 33 13 16-0231 EA 28" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	239.07	35.07
For Horizontal, Add	20.07	
For Dynamic Damper, Add	30.10	
For 3 Hour Rated, Add	26.76	
23 33 13 16-0232 EA 32" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	149.36	18.31
For Horizontal, Add	14.16	
For Dynamic Damper, Add	21.24	
For 3 Hour Rated, Add	18.88	
23 33 13 16-0233 EA 32" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	155.57	19.78
For Horizontal, Add	14.41	
For Dynamic Damper, Add	21.61	
For 3 Hour Rated, Add	19.21	
23 33 13 16-0234 EA 32" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	161.79	21.34
For Horizontal, Add	14.66	
For Dynamic Damper, Add	21.98	
For 3 Hour Rated, Add	19.54	
23 33 13 16-0235 EA 32" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	169.64	22.89
For Horizontal, Add	15.15	
For Dynamic Damper, Add	22.72	
For 3 Hour Rated, Add	20.19	
23 33 13 16-0236 EA 32" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	179.45	24.36
For Horizontal, Add	15.93	
For Dynamic Damper, Add	23.90	
For 3 Hour Rated, Add	21.24	
23 33 13 16-0237 EA 32" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	193.22	27.46
For Horizontal, Add	16.62	
For Dynamic Damper, Add	24.93	
For 3 Hour Rated, Add	22.16	
23 33 13 16-0238 EA 32" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	208.95	30.49
For Horizontal, Add	17.61	
For Dynamic Damper, Add	26.41	
For 3 Hour Rated, Add	23.48	
23 33 13 16-0239 EA 32" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	224.66	33.51
For Horizontal, Add	18.59	
For Dynamic Damper, Add	27.89	
For 3 Hour Rated, Add	24.79	
23 33 13 16-0240 EA 32" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	239.07	35.07
For Horizontal, Add	20.07	
For Dynamic Damper, Add	30.10	
For 3 Hour Rated, Add	26.76	
23 33 13 16-0241 EA 32" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	257.87	37.54
For Horizontal, Add	21.79	
For Dynamic Damper, Add	32.68	
For 3 Hour Rated, Add	29.05	
23 33 13 16-0242 EA 32" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	277.41	39.65
For Horizontal, Add	23.76	
For Dynamic Damper, Add	35.64	
For 3 Hour Rated, Add	31.68	
23 33 13 16-0243 EA 36" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	167.30	19.78
For Horizontal, Add	16.17	
For Dynamic Damper, Add	24.25	
For 3 Hour Rated, Add	21.56	
23 33 13 16-0244 EA 36" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	175.60	21.34
For Horizontal, Add	16.73	
For Dynamic Damper, Add	25.09	
For 3 Hour Rated, Add	22.30	
23 33 13 16-0245 EA 36" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	183.93	22.89
For Horizontal, Add	17.29	
For Dynamic Damper, Add	25.93	
For 3 Hour Rated, Add	23.05	
23 33 13 16-0246 EA 36" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	194.14	24.36
For Horizontal, Add	18.13	
For Dynamic Damper, Add	27.20	
For 3 Hour Rated, Add	24.18	
23 33 13 16-0247 EA 36" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	206.11	27.46
For Horizontal, Add	18.56	
For Dynamic Damper, Add	27.83	
For 3 Hour Rated, Add	24.74	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0248 EA 36" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	213.51	28.93
For Horizontal, Add	18.98	
For Dynamic Damper, Add	28.47	
For 3 Hour Rated, Add	25.31	
23 33 13 16-0249 EA 36" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	236.61	33.51
For Horizontal, Add	20.39	
For Dynamic Damper, Add	30.58	
For 3 Hour Rated, Add	27.18	
23 33 13 16-0250 EA 36" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	255.13	36.62
For Horizontal, Add	21.79	
For Dynamic Damper, Add	32.68	
For 3 Hour Rated, Add	29.05	
23 33 13 16-0251 EA 36" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	270.05	37.82
For Horizontal, Add	23.48	
For Dynamic Damper, Add	35.21	
For 3 Hour Rated, Add	31.30	
23 33 13 16-0252 EA 36" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	293.27	40.56
For Horizontal, Add	25.72	
For Dynamic Damper, Add	38.59	
For 3 Hour Rated, Add	34.30	
23 33 13 16-0253 EA 36" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	312.79	42.67
For Horizontal, Add	27.69	
For Dynamic Damper, Add	41.54	
For 3 Hour Rated, Add	36.92	
23 33 13 16-0254 EA 36" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	332.37	44.22
For Horizontal, Add	29.94	
For Dynamic Damper, Add	44.91	
For 3 Hour Rated, Add	39.92	
23 33 13 16-0255 EA 40" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	187.17	22.89
For Horizontal, Add	18.46	
For Dynamic Damper, Add	27.69	
For 3 Hour Rated, Add	24.62	
23 33 13 16-0256 EA 40" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	199.25	24.36
For Horizontal, Add	19.59	
For Dynamic Damper, Add	29.38	
For 3 Hour Rated, Add	26.12	
23 33 13 16-0257 EA 40" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	205.70	25.92
For Horizontal, Add	19.87	
For Dynamic Damper, Add	29.80	
For 3 Hour Rated, Add	26.49	
23 33 13 16-0258 EA 40" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	212.16	27.46
For Horizontal, Add	20.15	
For Dynamic Damper, Add	30.22	
For 3 Hour Rated, Add	26.87	
23 33 13 16-0259 EA 40" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	227.87	28.93
For Horizontal, Add	21.13	
For Dynamic Damper, Add	31.70	
For 3 Hour Rated, Add	28.18	
23 33 13 16-0260 EA 40" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	239.01	30.49
For Horizontal, Add	22.12	
For Dynamic Damper, Add	33.18	
For 3 Hour Rated, Add	29.49	
23 33 13 16-0261 EA 40" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	260.24	35.07
For Horizontal, Add	23.24	
For Dynamic Damper, Add	34.86	
For 3 Hour Rated, Add	30.99	
23 33 13 16-0262 EA 40" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	276.90	38.09
For Horizontal, Add	24.37	
For Dynamic Damper, Add	36.55	
For 3 Hour Rated, Add	32.49	
23 33 13 16-0263 EA 40" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	295.47	40.56
For Horizontal, Add	26.05	
For Dynamic Damper, Add	39.08	
For 3 Hour Rated, Add	34.74	
23 33 13 16-0264 EA 40" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	322.49	42.67
For Horizontal, Add	29.15	
For Dynamic Damper, Add	43.72	
For 3 Hour Rated, Add	38.86	
23 33 13 16-0265 EA 40" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	341.05	45.14
For Horizontal, Add	30.83	
For Dynamic Damper, Add	46.25	
For 3 Hour Rated, Add	41.11	
23 33 13 16-0266 EA 40" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	365.33	46.33
For Horizontal, Add	33.92	
For Dynamic Damper, Add	50.89	
For 3 Hour Rated, Add	45.23	
23 33 13 16-0267 EA 40" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	391.40	48.80
For Horizontal, Add	36.74	
For Dynamic Damper, Add	55.10	
For 3 Hour Rated, Add	48.98	
23 33 13 16-0268 EA 44" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	195.50	22.89
For Horizontal, Add	19.02	
For Dynamic Damper, Add	28.54	
For 3 Hour Rated, Add	25.37	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0269	EA		44" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	207.58	24.36
			<i>For Horizontal, Add</i>	20.15	
			<i>For Dynamic Damper, Add</i>	30.22	
			<i>For 3 Hour Rated, Add</i>	26.87	
23 33 13 16-0270	EA		44" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	217.79	25.92
			<i>For Horizontal, Add</i>	20.99	
			<i>For Dynamic Damper, Add</i>	31.49	
			<i>For 3 Hour Rated, Add</i>	27.99	
23 33 13 16-0271	EA		44" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	224.23	27.46
			<i>For Horizontal, Add</i>	21.27	
			<i>For Dynamic Damper, Add</i>	31.91	
			<i>For 3 Hour Rated, Add</i>	28.37	
23 33 13 16-0272	EA		44" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	236.31	28.93
			<i>For Horizontal, Add</i>	22.40	
			<i>For Dynamic Damper, Add</i>	33.60	
			<i>For 3 Hour Rated, Add</i>	29.87	
23 33 13 16-0273	EA		44" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	248.39	30.49
			<i>For Horizontal, Add</i>	23.52	
			<i>For Dynamic Damper, Add</i>	35.29	
			<i>For 3 Hour Rated, Add</i>	31.37	
23 33 13 16-0274	EA		44" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	276.07	36.62
			<i>For Horizontal, Add</i>	24.93	
			<i>For Dynamic Damper, Add</i>	37.40	
			<i>For 3 Hour Rated, Add</i>	33.24	
23 33 13 16-0275	EA		44" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	294.59	39.65
			<i>For Horizontal, Add</i>	26.33	
			<i>For Dynamic Damper, Add</i>	39.50	
			<i>For 3 Hour Rated, Add</i>	35.11	
23 33 13 16-0276	EA		44" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	322.49	42.67
			<i>For Horizontal, Add</i>	29.15	
			<i>For Dynamic Damper, Add</i>	43.72	
			<i>For 3 Hour Rated, Add</i>	38.86	
23 33 13 16-0277	EA		44" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	348.51	45.78
			<i>For Horizontal, Add</i>	31.68	
			<i>For Dynamic Damper, Add</i>	47.51	
			<i>For 3 Hour Rated, Add</i>	42.23	
23 33 13 16-0278	EA		44" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	376.40	48.80
			<i>For Horizontal, Add</i>	34.49	
			<i>For Dynamic Damper, Add</i>	51.73	
			<i>For 3 Hour Rated, Add</i>	45.98	
23 33 13 16-0279	EA		44" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	397.84	50.27
			<i>For Horizontal, Add</i>	37.02	
			<i>For Dynamic Damper, Add</i>	55.52	
			<i>For 3 Hour Rated, Add</i>	49.35	
23 33 13 16-0280	EA		44" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	419.29	51.82
			<i>For Horizontal, Add</i>	39.55	
			<i>For Dynamic Damper, Add</i>	59.32	
			<i>For 3 Hour Rated, Add</i>	52.73	
23 33 13 16-0281	EA		44" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	440.75	53.38
			<i>For Horizontal, Add</i>	42.08	
			<i>For Dynamic Damper, Add</i>	63.12	
			<i>For 3 Hour Rated, Add</i>	56.10	
23 33 13 16-0282	EA		48" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	205.70	24.36
			<i>For Horizontal, Add</i>	19.87	
			<i>For Dynamic Damper, Add</i>	29.80	
			<i>For 3 Hour Rated, Add</i>	26.49	
23 33 13 16-0283	EA		48" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	217.79	25.92
			<i>For Horizontal, Add</i>	20.99	
			<i>For Dynamic Damper, Add</i>	31.49	
			<i>For 3 Hour Rated, Add</i>	27.99	
23 33 13 16-0284	EA		48" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	224.23	27.46
			<i>For Horizontal, Add</i>	21.27	
			<i>For Dynamic Damper, Add</i>	31.91	
			<i>For 3 Hour Rated, Add</i>	28.37	
23 33 13 16-0285	EA		48" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	239.01	30.49
			<i>For Horizontal, Add</i>	22.12	
			<i>For Dynamic Damper, Add</i>	33.18	
			<i>For 3 Hour Rated, Add</i>	29.49	
23 33 13 16-0286	EA		48" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	255.66	33.51
			<i>For Horizontal, Add</i>	23.24	
			<i>For Dynamic Damper, Add</i>	34.86	
			<i>For 3 Hour Rated, Add</i>	30.99	
23 33 13 16-0287	EA		48" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	272.31	36.62
			<i>For Horizontal, Add</i>	24.37	
			<i>For Dynamic Damper, Add</i>	36.55	
			<i>For 3 Hour Rated, Add</i>	32.49	
23 33 13 16-0288	EA		48" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	292.72	39.65
			<i>For Horizontal, Add</i>	26.05	
			<i>For Dynamic Damper, Add</i>	39.08	
			<i>For 3 Hour Rated, Add</i>	34.74	
23 33 13 16-0289	EA		48" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	313.12	42.67
			<i>For Horizontal, Add</i>	27.74	
			<i>For Dynamic Damper, Add</i>	41.61	
			<i>For 3 Hour Rated, Add</i>	36.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0290 EA 48" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	339.14 30.27 45.41 40.36	45.78
23 33 13 16-0291 EA 48" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	368.90 33.36 50.04 44.48	48.80
23 33 13 16-0292 EA 48" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	390.36 35.89 53.84 47.86	50.27
23 33 13 16-0293 EA 48" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	417.41 39.26 58.90 52.35	51.82
23 33 13 16-0294 EA 48" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	443.45 41.80 62.69 55.73	54.85
23 33 13 16-0295 EA 48" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	470.51 45.17 67.75 60.23	56.40
23 33 13 16-0296 EA 48" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	499.24 47.42 71.13 63.22	60.98
23 33 13 16-0297 EA 52" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	215.91 20.71 31.07 27.62	25.92
23 33 13 16-0298 EA 52" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	227.98 21.84 32.76 29.12	27.46
23 33 13 16-0299 EA 52" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	244.64 22.96 34.44 30.62	30.49
23 33 13 16-0300 EA 52" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	255.66 23.24 34.86 30.99	33.51
23 33 13 16-0301 EA 52" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	273.26 24.51 36.76 32.68	36.62
23 33 13 16-0302 EA 52" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	290.84 25.77 38.66 34.36	39.65
23 33 13 16-0303 EA 52" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	311.25 27.46 41.19 36.61	42.67
23 33 13 16-0304 EA 52" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	331.64 29.15 43.72 38.86	45.78
23 33 13 16-0305 EA 52" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	357.67 31.68 47.51 42.23	48.80
23 33 13 16-0306 EA 52" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	389.30 35.05 52.57 46.73	51.82
23 33 13 16-0307 EA 52" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	412.62 37.86 56.79 50.48	53.38
23 33 13 16-0308 EA 52" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	441.57 41.51 62.27 55.35	54.85
23 33 13 16-0309 EA 52" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	473.20 44.89 67.33 59.85	57.96
23 33 13 16-0310 EA 52" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Horizontal, Add</i> <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	499.24 47.42 71.13 63.22	60.98

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0311	EA		52" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	535.46	65.55
			<i>For Horizontal, Add</i>	50.79	
			<i>For Dynamic Damper, Add</i>	76.19	
			<i>For 3 Hour Rated, Add</i>	67.72	
23 33 13 16-0312	EA		52" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	563.36	68.58
			<i>For Horizontal, Add</i>	53.60	
			<i>For Dynamic Damper, Add</i>	80.40	
			<i>For 3 Hour Rated, Add</i>	71.47	
23 33 13 16-0313	EA		56" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	224.23	27.46
			<i>For Horizontal, Add</i>	21.27	
			<i>For Dynamic Damper, Add</i>	31.91	
			<i>For 3 Hour Rated, Add</i>	28.37	
23 33 13 16-0314	EA		56" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	242.75	30.49
			<i>For Horizontal, Add</i>	22.68	
			<i>For Dynamic Damper, Add</i>	34.02	
			<i>For 3 Hour Rated, Add</i>	30.24	
23 33 13 16-0315	EA		56" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	257.54	33.51
			<i>For Horizontal, Add</i>	23.52	
			<i>For Dynamic Damper, Add</i>	35.29	
			<i>For 3 Hour Rated, Add</i>	31.37	
23 33 13 16-0316	EA		56" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	268.56	36.62
			<i>For Horizontal, Add</i>	23.80	
			<i>For Dynamic Damper, Add</i>	35.71	
			<i>For 3 Hour Rated, Add</i>	31.74	
23 33 13 16-0317	EA		56" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	288.04	39.65
			<i>For Horizontal, Add</i>	25.35	
			<i>For Dynamic Damper, Add</i>	38.03	
			<i>For 3 Hour Rated, Add</i>	33.80	
23 33 13 16-0318	EA		56" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	307.50	42.67
			<i>For Horizontal, Add</i>	26.90	
			<i>For Dynamic Damper, Add</i>	40.34	
			<i>For 3 Hour Rated, Add</i>	35.86	
23 33 13 16-0319	EA		56" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	326.96	45.78
			<i>For Horizontal, Add</i>	28.44	
			<i>For Dynamic Damper, Add</i>	42.66	
			<i>For 3 Hour Rated, Add</i>	37.92	
23 33 13 16-0320	EA		56" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	346.42	48.80
			<i>For Horizontal, Add</i>	29.99	
			<i>For Dynamic Damper, Add</i>	44.98	
			<i>For 3 Hour Rated, Add</i>	39.98	
23 33 13 16-0321	EA		56" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	378.05	51.82
			<i>For Horizontal, Add</i>	33.36	
			<i>For Dynamic Damper, Add</i>	50.04	
			<i>For 3 Hour Rated, Add</i>	44.48	
23 33 13 16-0322	EA		56" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	405.13	53.38
			<i>For Horizontal, Add</i>	36.74	
			<i>For Dynamic Damper, Add</i>	55.10	
			<i>For 3 Hour Rated, Add</i>	48.98	
23 33 13 16-0323	EA		56" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	430.32	54.85
			<i>For Horizontal, Add</i>	39.83	
			<i>For Dynamic Damper, Add</i>	59.74	
			<i>For 3 Hour Rated, Add</i>	53.10	
23 33 13 16-0324	EA		56" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	465.72	57.96
			<i>For Horizontal, Add</i>	43.76	
			<i>For Dynamic Damper, Add</i>	65.65	
			<i>For 3 Hour Rated, Add</i>	58.35	
23 33 13 16-0325	EA		56" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	497.36	60.98
			<i>For Horizontal, Add</i>	47.14	
			<i>For Dynamic Damper, Add</i>	70.70	
			<i>For 3 Hour Rated, Add</i>	62.85	
23 33 13 16-0326	EA		56" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	530.88	64.00
			<i>For Horizontal, Add</i>	50.79	
			<i>For Dynamic Damper, Add</i>	76.19	
			<i>For 3 Hour Rated, Add</i>	67.72	
23 33 13 16-0327	EA		56" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	558.79	67.11
			<i>For Horizontal, Add</i>	53.60	
			<i>For Dynamic Damper, Add</i>	80.40	
			<i>For 3 Hour Rated, Add</i>	71.47	
23 33 13 16-0328	EA		56" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	592.30	70.14
			<i>For Horizontal, Add</i>	57.26	
			<i>For Dynamic Damper, Add</i>	85.88	
			<i>For 3 Hour Rated, Add</i>	76.34	
23 33 13 16-0329	EA		56" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	625.82	73.16
			<i>For Horizontal, Add</i>	60.91	
			<i>For Dynamic Damper, Add</i>	91.37	
			<i>For 3 Hour Rated, Add</i>	81.21	
23 33 13 16-0330	EA		60" x 6" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	239.01	30.49
			<i>For Horizontal, Add</i>	22.12	
			<i>For Dynamic Damper, Add</i>	33.18	
			<i>For 3 Hour Rated, Add</i>	29.49	
23 33 13 16-0331	EA		60" x 8" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	257.54	33.51
			<i>For Horizontal, Add</i>	23.52	
			<i>For Dynamic Damper, Add</i>	35.29	
			<i>For 3 Hour Rated, Add</i>	31.37	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0332 EA 60" x 10" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	270.43	36.62
<i>For Horizontal, Add</i>	24.08	
<i>For Dynamic Damper, Add</i>	36.13	
<i>For 3 Hour Rated, Add</i>	32.11	
23 33 13 16-0333 EA 60" x 12" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	281.47	39.65
<i>For Horizontal, Add</i>	24.37	
<i>For Dynamic Damper, Add</i>	36.55	
<i>For 3 Hour Rated, Add</i>	32.49	
23 33 13 16-0334 EA 60" x 14" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	301.88	42.67
<i>For Horizontal, Add</i>	26.05	
<i>For Dynamic Damper, Add</i>	39.08	
<i>For 3 Hour Rated, Add</i>	34.74	
23 33 13 16-0335 EA 60" x 16" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	322.27	45.78
<i>For Horizontal, Add</i>	27.74	
<i>For Dynamic Damper, Add</i>	41.61	
<i>For 3 Hour Rated, Add</i>	36.99	
23 33 13 16-0336 EA 60" x 18" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	343.61	48.80
<i>For Horizontal, Add</i>	29.57	
<i>For Dynamic Damper, Add</i>	44.35	
<i>For 3 Hour Rated, Add</i>	39.42	
23 33 13 16-0337 EA 60" x 20" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	364.94	51.82
<i>For Horizontal, Add</i>	31.39	
<i>For Dynamic Damper, Add</i>	47.09	
<i>For 3 Hour Rated, Add</i>	41.86	
23 33 13 16-0338 EA 60" x 24" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	393.88	53.38
<i>For Horizontal, Add</i>	35.05	
<i>For Dynamic Damper, Add</i>	52.57	
<i>For 3 Hour Rated, Add</i>	46.73	
23 33 13 16-0339 EA 60" x 28" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	420.95	54.85
<i>For Horizontal, Add</i>	38.42	
<i>For Dynamic Damper, Add</i>	57.63	
<i>For 3 Hour Rated, Add</i>	51.23	
23 33 13 16-0340 EA 60" x 32" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	454.48	57.96
<i>For Horizontal, Add</i>	42.08	
<i>For Dynamic Damper, Add</i>	63.12	
<i>For 3 Hour Rated, Add</i>	56.10	
23 33 13 16-0341 EA 60" x 36" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	488.00	60.98
<i>For Horizontal, Add</i>	45.73	
<i>For Dynamic Damper, Add</i>	68.60	
<i>For 3 Hour Rated, Add</i>	60.98	
23 33 13 16-0342 EA 60" x 40" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	515.90	64.00
<i>For Horizontal, Add</i>	48.54	
<i>For Dynamic Damper, Add</i>	72.81	
<i>For 3 Hour Rated, Add</i>	64.72	
23 33 13 16-0343 EA 60" x 44" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	555.04	67.11
<i>For Horizontal, Add</i>	53.04	
<i>For Dynamic Damper, Add</i>	79.56	
<i>For 3 Hour Rated, Add</i>	70.72	
23 33 13 16-0344 EA 60" x 48" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	590.42	70.14
<i>For Horizontal, Add</i>	56.97	
<i>For Dynamic Damper, Add</i>	85.46	
<i>For 3 Hour Rated, Add</i>	75.97	
23 33 13 16-0345 EA 60" x 52" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	625.82	73.16
<i>For Horizontal, Add</i>	60.91	
<i>For Dynamic Damper, Add</i>	91.37	
<i>For 3 Hour Rated, Add</i>	81.21	
23 33 13 16-0346 EA 60" x 56" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	657.45	76.27
<i>For Horizontal, Add</i>	64.28	
<i>For Dynamic Damper, Add</i>	96.42	
<i>For 3 Hour Rated, Add</i>	85.71	
23 33 13 16-0347 EA 60" x 60" Louver Type Fire Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	689.12	79.29
<i>For Horizontal, Add</i>	67.66	
<i>For Dynamic Damper, Add</i>	101.49	
<i>For 3 Hour Rated, Add</i>	90.21	
23 33 13 16-0348 Round 2 Hour Fire Damper <small>(23 33 13 16)</small>		
23 33 13 16-0349 EA 4" Round 2 Hour Fire Damper.....	55.62	18.31
23 33 13 16-0350 EA 5" Round 2 Hour Fire Damper.....	56.98	18.31
23 33 13 16-0351 EA 6" Round 2 Hour Fire Damper.....	66.07	20.78
23 33 13 16-0352 EA 7" Round 2 Hour Fire Damper.....	67.54	20.78
23 33 13 16-0353 EA 8" Round 2 Hour Fire Damper.....	78.37	22.89
23 33 13 16-0354 EA 9" Round 2 Hour Fire Damper.....	82.44	22.89
23 33 13 16-0355 EA 10" Round 2 Hour Fire Damper.....	91.60	25.45
23 33 13 16-0356 EA 12" Round 2 Hour Fire Damper.....	102.95	28.66
23 33 13 16-0357 EA 14" Round 2 Hour Fire Damper.....	117.25	32.69
23 33 13 16-0358 Round 4 Hour Fire Damper <small>(23 33 13 16)</small>		
23 33 13 16-0359 EA 4" Round 4 Hour Fire Damper.....	62.90	20.78
23 33 13 16-0360 EA 5" Round 4 Hour Fire Damper.....	66.61	20.78
23 33 13 16-0361 EA 6" Round 4 Hour Fire Damper.....	74.53	22.89
23 33 13 16-0362 EA 7" Round 4 Hour Fire Damper.....	79.31	22.89
23 33 13 16-0363 EA 8" Round 4 Hour Fire Damper.....	89.19	25.45

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 16-0364	EA		9" Round 4 Hour Fire Damper.....	92.11	25.45
23 33 13 16-0365	EA		10" Round 4 Hour Fire Damper.....	103.04	28.66
23 33 13 16-0366	EA		12" Round 4 Hour Fire Damper.....	115.40	32.69
23 33 13 16-0367	EA		14" Round 4 Hour Fire Damper.....	134.63	38.18

23 33 13 19 Smoke-Control Dampers (23 33 13)

23 33 13 19-0001 Combination Smoke/Fire Damper (23 33 13 19)

Note: Leakage class I with Firestat UL 555S air foil blades.

23 33 13 19-0002	EA		6" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	100.42	15.24
			<i>For 3 Hour Rated, Add</i>	10.94	
23 33 13 19-0003	EA		8" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	103.83	15.94
			<i>For 3 Hour Rated, Add</i>	11.21	
23 33 13 19-0004	EA		8" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	105.45	16.07
			<i>For 3 Hour Rated, Add</i>	11.48	
23 33 13 19-0005	EA		10" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	105.45	16.07
			<i>For 3 Hour Rated, Add</i>	11.48	
23 33 13 19-0006	EA		10" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	108.17	16.48
			<i>For 3 Hour Rated, Add</i>	11.74	
23 33 13 19-0007	EA		10" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	116.36	18.27
			<i>For 3 Hour Rated, Add</i>	12.28	
23 33 13 19-0008	EA		12" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	108.17	16.48
			<i>For 3 Hour Rated, Add</i>	11.74	
23 33 13 19-0009	EA		12" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	113.61	17.44
			<i>For 3 Hour Rated, Add</i>	12.28	
23 33 13 19-0010	EA		12" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	117.70	18.27
			<i>For 3 Hour Rated, Add</i>	12.55	
23 33 13 19-0011	EA		12" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	125.91	20.60
			<i>For 3 Hour Rated, Add</i>	12.82	
23 33 13 19-0012	EA		14" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	112.94	17.44
			<i>For 3 Hour Rated, Add</i>	12.15	
23 33 13 19-0013	EA		14" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	117.70	18.27
			<i>For 3 Hour Rated, Add</i>	12.55	
23 33 13 19-0014	EA		14" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	121.80	19.23
			<i>For 3 Hour Rated, Add</i>	12.82	
23 33 13 19-0015	EA		14" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	127.27	20.60
			<i>For 3 Hour Rated, Add</i>	13.09	
23 33 13 19-0016	EA		14" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	137.50	22.94
			<i>For 3 Hour Rated, Add</i>	13.77	
23 33 13 19-0017	EA		16" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	166.97	18.27
			<i>For 3 Hour Rated, Add</i>	22.41	
23 33 13 19-0018	EA		16" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	172.43	19.64
			<i>For 3 Hour Rated, Add</i>	22.68	
23 33 13 19-0019	EA		16" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	179.28	21.56
			<i>For 3 Hour Rated, Add</i>	22.95	
23 33 13 19-0020	EA		16" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	184.73	22.94
			<i>For 3 Hour Rated, Add</i>	23.21	
23 33 13 19-0021	EA		16" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	194.97	25.13
			<i>For 3 Hour Rated, Add</i>	23.89	
23 33 13 19-0022	EA		16" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	205.21	27.46
			<i>For 3 Hour Rated, Add</i>	24.56	
23 33 13 19-0023	EA		18" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	171.07	19.23
			<i>For 3 Hour Rated, Add</i>	22.68	
23 33 13 19-0024	EA		18" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	177.19	20.60
			<i>For 3 Hour Rated, Add</i>	23.08	
23 33 13 19-0025	EA		18" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	186.10	22.94
			<i>For 3 Hour Rated, Add</i>	23.49	
23 33 13 19-0026	EA		18" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	196.32	25.13
			<i>For 3 Hour Rated, Add</i>	24.16	
23 33 13 19-0027	EA		18" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	205.88	27.46
			<i>For 3 Hour Rated, Add</i>	24.70	
23 33 13 19-0028	EA		18" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	216.12	29.67
			<i>For 3 Hour Rated, Add</i>	25.37	
23 33 13 19-0029	EA		18" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	225.01	32.00
			<i>For 3 Hour Rated, Add</i>	25.77	
23 33 13 19-0030	EA		20" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	176.53	20.60
			<i>For 3 Hour Rated, Add</i>	22.95	
23 33 13 19-0031	EA		20" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	186.09	22.94
			<i>For 3 Hour Rated, Add</i>	23.48	
23 33 13 19-0032	EA		20" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	195.64	25.13
			<i>For 3 Hour Rated, Add</i>	24.02	
23 33 13 19-0033	EA		20" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	207.91	27.46
			<i>For 3 Hour Rated, Add</i>	25.10	
23 33 13 19-0034	EA		20" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	216.80	29.67
			<i>For 3 Hour Rated, Add</i>	25.51	
23 33 13 19-0035	EA		20" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	225.69	32.00
			<i>For 3 Hour Rated, Add</i>	25.91	
23 33 13 19-0036	EA		20" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	235.25	34.34
			<i>For 3 Hour Rated, Add</i>	26.45	
23 33 13 19-0037	EA		20" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	244.80	36.53
			<i>For 3 Hour Rated, Add</i>	26.99	
23 33 13 19-0038	EA		24" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	241.17	22.94
			<i>For 3 Hour Rated, Add</i>	34.50	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0039 EA 24" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	252.08 35.31	25.13
23 33 13 19-0040 EA 24" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	261.66 35.85	27.46
23 33 13 19-0041 EA 24" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	272.56 36.66	29.67
23 33 13 19-0042 EA 24" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	281.45 37.06	32.00
23 33 13 19-0043 EA 24" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	290.34 37.47	34.34
23 33 13 19-0044 EA 24" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	301.24 38.27	36.53
23 33 13 19-0045 EA 24" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	319.02 39.08	41.21
23 33 13 19-0046 EA 24" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	338.14 40.16	45.73
23 33 13 19-0047 EA 28" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	252.08 35.31	25.13
23 33 13 19-0048 EA 28" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	261.66 35.85	27.46
23 33 13 19-0049 EA 28" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	272.56 36.66	29.67
23 33 13 19-0050 EA 28" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	282.12 37.20	32.00
23 33 13 19-0051 EA 28" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	292.36 37.87	34.34
23 33 13 19-0052 EA 28" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	302.58 38.54	36.53
23 33 13 19-0053 EA 28" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	320.36 39.35	41.21
23 33 13 19-0054 EA 28" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	338.14 40.16	45.73
23 33 13 19-0055 EA 28" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	353.08 41.78	48.07
23 33 13 19-0056 EA 28" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	373.56 43.12	52.61
23 33 13 19-0057 EA 32" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	265.69 36.66	27.46
23 33 13 19-0058 EA 32" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	273.90 36.93	29.67
23 33 13 19-0059 EA 32" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	282.12 37.20	32.00
23 33 13 19-0060 EA 32" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	291.68 37.73	34.34
23 33 13 19-0061 EA 32" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	302.83 38.59	36.53
23 33 13 19-0062 EA 32" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	320.36 39.35	41.21
23 33 13 19-0063 EA 32" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	339.49 40.43	45.73
23 33 13 19-0064 EA 32" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	358.61 41.51	50.27
23 33 13 19-0065 EA 32" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	373.56 43.12	52.61
23 33 13 19-0066 EA 32" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	393.98 45.01	56.31
23 33 13 19-0067 EA 32" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	414.36 47.16	59.47
23 33 13 19-0068 EA 36" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	280.82 38.31	29.67
23 33 13 19-0069 EA 36" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	290.61 38.89	32.00
23 33 13 19-0070 EA 36" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	300.40 39.48	34.34
23 33 13 19-0071 EA 36" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	311.66 40.36	36.53
23 33 13 19-0072 EA 36" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	327.61 40.80	41.21
23 33 13 19-0073 EA 36" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	336.66 41.24	43.40
23 33 13 19-0074 EA 36" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	364.59 42.70	50.27
23 33 13 19-0075 EA 36" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	385.64 44.17	54.94
23 33 13 19-0076 EA 36" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	399.91 45.92	56.72
23 33 13 19-0077 EA 36" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	423.99 48.27	60.84
23 33 13 19-0078 EA 36" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	443.85 50.31	64.00
23 33 13 19-0079 EA 36" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	462.42 52.66	66.34
23 33 13 19-0080 EA 40" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	338.41 48.45	34.34

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0081 EA 40" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....351.13 <i>For 3 Hour Rated, Add</i> 49.62	351.13	36.53
23 33 13 19-0082 EA 40" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....359.46 <i>For 3 Hour Rated, Add</i> 49.92	359.46	38.86
23 33 13 19-0083 EA 40" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....367.80 <i>For 3 Hour Rated, Add</i> 50.21	367.80	41.21
23 33 13 19-0084 EA 40" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....386.65 <i>For 3 Hour Rated, Add</i> 51.24	386.65	43.40
23 33 13 19-0085 EA 40" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....398.65 <i>For 3 Hour Rated, Add</i> 52.26	398.65	45.73
23 33 13 19-0086 EA 40" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....425.12 <i>For 3 Hour Rated, Add</i> 53.43	425.12	52.61
23 33 13 19-0087 EA 40" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....444.70 <i>For 3 Hour Rated, Add</i> 54.60	444.70	57.13
23 33 13 19-0088 EA 40" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....464.47 <i>For 3 Hour Rated, Add</i> 56.36	464.47	60.84
23 33 13 19-0089 EA 40" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....490.19 <i>For 3 Hour Rated, Add</i> 59.58	490.19	64.00
23 33 13 19-0090 EA 40" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....509.96 <i>For 3 Hour Rated, Add</i> 61.34	509.96	67.71
23 33 13 19-0091 EA 40" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....531.56 <i>For 3 Hour Rated, Add</i> 64.56	531.56	69.50
23 33 13 19-0092 EA 40" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....557.20 <i>For 3 Hour Rated, Add</i> 67.49	557.20	73.20
23 33 13 19-0093 EA 44" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....348.21 <i>For 3 Hour Rated, Add</i> 49.04	348.21	34.34
23 33 13 19-0094 EA 44" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....360.93 <i>For 3 Hour Rated, Add</i> 50.21	360.93	36.53
23 33 13 19-0095 EA 44" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....372.19 <i>For 3 Hour Rated, Add</i> 51.09	372.19	38.86
23 33 13 19-0096 EA 44" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....380.53 <i>For 3 Hour Rated, Add</i> 51.38	380.53	41.21
23 33 13 19-0097 EA 44" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....393.25 <i>For 3 Hour Rated, Add</i> 52.56	393.25	43.40
23 33 13 19-0098 EA 44" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....405.97 <i>For 3 Hour Rated, Add</i> 53.73	405.97	45.73
23 33 13 19-0099 EA 44" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....440.77 <i>For 3 Hour Rated, Add</i> 55.19	440.77	54.94
23 33 13 19-0100 EA 44" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....461.81 <i>For 3 Hour Rated, Add</i> 56.65	461.81	59.47
23 33 13 19-0101 EA 44" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....490.19 <i>For 3 Hour Rated, Add</i> 59.58	490.19	64.00
23 33 13 19-0102 EA 44" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....517.10 <i>For 3 Hour Rated, Add</i> 62.22	517.10	68.67
23 33 13 19-0103 EA 44" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....545.47 <i>For 3 Hour Rated, Add</i> 65.14	545.47	73.20
23 33 13 19-0104 EA 44" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....565.51 <i>For 3 Hour Rated, Add</i> 67.78	565.51	75.40
23 33 13 19-0105 EA 44" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....585.56 <i>For 3 Hour Rated, Add</i> 70.42	585.56	77.74
23 33 13 19-0106 EA 44" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....605.62 <i>For 3 Hour Rated, Add</i> 73.05	605.62	80.07
23 33 13 19-0107 EA 48" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....359.46 <i>For 3 Hour Rated, Add</i> 49.92	359.46	36.53
23 33 13 19-0108 EA 48" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....372.19 <i>For 3 Hour Rated, Add</i> 51.09	372.19	38.86
23 33 13 19-0109 EA 48" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....380.53 <i>For 3 Hour Rated, Add</i> 51.38	380.53	41.21
23 33 13 19-0110 EA 48" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....398.65 <i>For 3 Hour Rated, Add</i> 52.26	398.65	45.73
23 33 13 19-0111 EA 48" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....418.24 <i>For 3 Hour Rated, Add</i> 53.43	418.24	50.27
23 33 13 19-0112 EA 48" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....437.83 <i>For 3 Hour Rated, Add</i> 54.60	437.83	54.94
23 33 13 19-0113 EA 48" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....460.35 <i>For 3 Hour Rated, Add</i> 56.36	460.35	59.47
23 33 13 19-0114 EA 48" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....482.87 <i>For 3 Hour Rated, Add</i> 58.12	482.87	64.00
23 33 13 19-0115 EA 48" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....509.78 <i>For 3 Hour Rated, Add</i> 60.75	509.78	68.67
23 33 13 19-0116 EA 48" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....539.61 <i>For 3 Hour Rated, Add</i> 63.97	539.61	73.20
23 33 13 19-0117 EA 48" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....559.67 <i>For 3 Hour Rated, Add</i> 66.61	559.67	75.40
23 33 13 19-0118 EA 48" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....584.09 <i>For 3 Hour Rated, Add</i> 70.12	584.09	77.74
23 33 13 19-0119 EA 48" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....611.01 <i>For 3 Hour Rated, Add</i> 72.76	611.01	82.26
23 33 13 19-0120 EA 48" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....635.45 <i>For 3 Hour Rated, Add</i> 76.27	635.45	84.61
23 33 13 19-0121 EA 48" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....667.77 <i>For 3 Hour Rated, Add</i> 78.62	667.77	91.47
23 33 13 19-0122 EA 52" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated .....370.72 <i>For 3 Hour Rated, Add</i> 50.80	370.72	38.86



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0123 EA 52" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	383.45 51.97	41.21
23 33 13 19-0124 EA 52" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	403.04 53.14	45.73
23 33 13 19-0125 EA 52" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	418.24 53.43	50.27
23 33 13 19-0126 EA 52" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	438.57 54.75	54.94
23 33 13 19-0127 EA 52" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	458.89 56.07	59.47
23 33 13 19-0128 EA 52" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	481.41 57.83	64.00
23 33 13 19-0129 EA 52" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	503.92 59.58	68.67
23 33 13 19-0130 EA 52" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	530.84 62.22	73.20
23 33 13 19-0131 EA 52" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	562.14 65.73	77.74
23 33 13 19-0132 EA 52" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	583.64 68.66	80.07
23 33 13 19-0133 EA 52" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	609.55 72.47	82.26
23 33 13 19-0134 EA 52" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	640.83 75.98	86.94
23 33 13 19-0135 EA 52" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	667.77 78.62	91.47
23 33 13 19-0136 EA 52" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	705.92 82.13	98.34
23 33 13 19-0137 EA 52" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	734.31 85.06	102.87
23 33 13 19-0138 EA 56" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	380.53 51.38	41.21
23 33 13 19-0139 EA 56" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	401.57 52.85	45.73
23 33 13 19-0140 EA 56" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	419.70 53.73	50.27
23 33 13 19-0141 EA 56" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	434.90 54.02	54.94
23 33 13 19-0142 EA 56" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	456.69 55.63	59.47
23 33 13 19-0143 EA 56" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	478.48 57.24	64.00
23 33 13 19-0144 EA 56" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	500.26 58.85	68.67
23 33 13 19-0145 EA 56" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	522.05 60.46	73.20
23 33 13 19-0146 EA 56" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	553.34 63.97	77.74
23 33 13 19-0147 EA 56" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	577.80 67.49	80.07
23 33 13 19-0148 EA 56" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	600.75 70.71	82.26
23 33 13 19-0149 EA 56" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	634.98 74.81	86.94
23 33 13 19-0150 EA 56" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	666.30 78.32	91.47
23 33 13 19-0151 EA 56" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	699.06 82.13	96.01
23 33 13 19-0152 EA 56" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	727.44 85.06	100.67
23 33 13 19-0153 EA 56" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	760.20 88.86	105.20
23 33 13 19-0154 EA 56" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	792.96 92.67	109.74
23 33 13 19-0155 EA 60" x 6" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	398.65 52.26	45.73
23 33 13 19-0156 EA 60" x 8" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	419.70 53.73	50.27
23 33 13 19-0157 EA 60" x 10" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	436.37 54.31	54.94
23 33 13 19-0158 EA 60" x 12" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	451.56 54.60	59.47
23 33 13 19-0159 EA 60" x 14" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	474.09 56.36	64.00
23 33 13 19-0160 EA 60" x 16" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	496.60 58.12	68.67
23 33 13 19-0161 EA 60" x 18" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	519.85 60.02	73.20
23 33 13 19-0162 EA 60" x 20" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	543.11 61.93	77.74
23 33 13 19-0163 EA 60" x 24" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	569.01 65.73	80.07
23 33 13 19-0164 EA 60" x 28" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	593.43 69.24	82.26

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0165	EA		60" x 32" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	626.21 73.05	86.94
23 33 13 19-0166	EA		60" x 36" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	658.99 76.86	91.47
23 33 13 19-0167	EA		60" x 40" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	687.36 79.79	96.01
23 33 13 19-0168	EA		60" x 44" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	724.51 84.47	100.67
23 33 13 19-0169	EA		60" x 48" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	758.74 88.57	105.20
23 33 13 19-0170	EA		60" x 52" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	792.96 92.67	109.74
23 33 13 19-0171	EA		60" x 56" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	824.27 96.18	114.41
23 33 13 19-0172	EA		60" x 60" Louver Type Combination Fire/Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For 3 Hour Rated, Add</i>	855.59 99.70	118.93
23 33 13 19-0173 Smoke Damper <small>(23 33 13 19)</small>					
Note: Leakage class I with Firestat UL 555S air foil blades.					
23 33 13 19-0174	EA		6" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	79.06 10.93 9.71	10.16
23 33 13 19-0175	EA		8" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	81.65 11.20 9.96	10.62
23 33 13 19-0176	EA		8" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	83.07 11.48 10.21	10.71
23 33 13 19-0177	EA		10" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	83.07 11.48 10.21	10.71
23 33 13 19-0178	EA		10" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	85.22 11.76 10.45	10.99
23 33 13 19-0179	EA		10" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	91.33 12.31 10.94	12.17
23 33 13 19-0180	EA		12" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	85.22 11.76 10.45	10.99
23 33 13 19-0181	EA		12" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	89.50 12.31 10.94	11.63
23 33 13 19-0182	EA		12" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	92.57 12.59 11.19	12.17
23 33 13 19-0183	EA		12" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	98.38 12.86 11.43	13.73
23 33 13 19-0184	EA		14" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	88.89 12.17 10.82	11.63
23 33 13 19-0185	EA		14" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	92.57 12.59 11.19	12.17
23 33 13 19-0186	EA		14" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	95.63 12.86 11.43	12.82
23 33 13 19-0187	EA		14" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	99.62 13.14 11.68	13.73
23 33 13 19-0188	EA		14" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	107.26 13.83 12.30	15.29
23 33 13 19-0189	EA		16" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	137.35 22.66 20.15	12.17
23 33 13 19-0190	EA		16" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	141.34 22.94 20.39	13.09
23 33 13 19-0191	EA		16" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	146.23 23.22 20.64	14.38
23 33 13 19-0192	EA		16" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	150.19 23.49 20.88	15.29
23 33 13 19-0193	EA		16" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	157.86 24.19 21.50	16.76
23 33 13 19-0194	EA		16" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	165.51 24.88 22.11	18.31



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0195 EA 18" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	140.42 22.94 20.39	12.82
23 33 13 19-0196 EA 18" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	145.01 23.36 20.76	13.73
23 33 13 19-0197 EA 18" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	151.44 23.77 21.13	15.29
23 33 13 19-0198 EA 18" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	159.09 24.46 21.75	16.76
23 33 13 19-0199 EA 18" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	166.12 25.02 22.24	18.31
23 33 13 19-0200 EA 18" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	173.78 25.71 22.85	19.78
23 33 13 19-0201 EA 18" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	180.20 26.12 23.22	21.34
23 33 13 19-0202 EA 20" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	144.40 23.22 20.64	13.73
23 33 13 19-0203 EA 20" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	151.43 23.77 21.13	15.29
23 33 13 19-0204 EA 20" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	158.47 24.32 21.62	16.76
23 33 13 19-0205 EA 20" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	167.98 25.43 22.61	18.31
23 33 13 19-0206 EA 20" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	174.40 25.85 22.98	19.78
23 33 13 19-0207 EA 20" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	180.82 26.26 23.35	21.34
23 33 13 19-0208 EA 20" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	187.85 26.82 23.84	22.89
23 33 13 19-0209 EA 20" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	194.89 27.37 24.33	24.36
23 33 13 19-0210 EA 24" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	188.48 32.11 28.54	15.29
23 33 13 19-0211 EA 24" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	196.76 32.94 29.28	16.76
23 33 13 19-0212 EA 24" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	203.81 33.50 29.77	18.31
23 33 13 19-0213 EA 24" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	212.08 34.33 30.51	19.78
23 33 13 19-0214 EA 24" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	218.49 34.74 30.88	21.34
23 33 13 19-0215 EA 24" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	224.91 35.15 31.25	22.89
23 33 13 19-0216 EA 24" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	233.18 35.98 31.99	24.36
23 33 13 19-0217 EA 24" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	246.02 36.81 32.72	27.46
23 33 13 19-0218 EA 24" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	260.10 37.92 33.71	30.49
23 33 13 19-0219 EA 28" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	196.76 32.94 29.28	16.76
23 33 13 19-0220 EA 28" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	203.81 33.50 29.77	18.31
23 33 13 19-0221 EA 28" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	212.08 34.33 30.51	19.78
23 33 13 19-0222 EA 28" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	219.10 34.88 31.00	21.34

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0223 EA 28" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	226.75 35.57 31.62	22.89
23 33 13 19-0224 EA 28" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	234.40 36.26 32.23	24.36
23 33 13 19-0225 EA 28" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	247.24 37.09 32.97	27.46
23 33 13 19-0226 EA 28" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	260.10 37.92 33.71	30.49
23 33 13 19-0227 EA 28" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	272.06 39.58 35.18	32.04
23 33 13 19-0228 EA 28" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	287.36 40.97 36.41	35.07
23 33 13 19-0229 EA 32" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	207.50 34.33 30.51	18.31
23 33 13 19-0230 EA 32" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	213.29 34.60 30.75	19.78
23 33 13 19-0231 EA 32" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	219.10 34.88 31.00	21.34
23 33 13 19-0232 EA 32" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	226.13 35.43 31.49	22.89
23 33 13 19-0233 EA 32" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	234.64 36.31 32.28	24.36
23 33 13 19-0234 EA 32" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	247.24 37.09 32.97	27.46
23 33 13 19-0235 EA 32" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	261.33 38.20 33.95	30.49
23 33 13 19-0236 EA 32" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	275.41 39.31 34.94	33.51
23 33 13 19-0237 EA 32" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	287.36 40.97 36.41	35.07
23 33 13 19-0238 EA 32" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	303.30 42.91 38.14	37.54
23 33 13 19-0239 EA 32" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	319.55 45.12 40.10	39.65
23 33 13 19-0240 EA 36" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	217.87 35.63 31.67	19.78
23 33 13 19-0241 EA 36" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	225.01 36.21 32.18	21.34
23 33 13 19-0242 EA 36" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	232.16 36.79 32.70	22.89
23 33 13 19-0243 EA 36" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	240.61 37.66 33.47	24.36
23 33 13 19-0244 EA 36" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	251.71 38.09 33.86	27.46
23 33 13 19-0245 EA 36" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	258.22 38.53 34.25	28.93
23 33 13 19-0246 EA 36" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	278.39 39.98 35.54	33.51
23 33 13 19-0247 EA 36" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	293.98 41.42 36.82	36.62
23 33 13 19-0248 EA 36" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	305.39 43.17 38.37	37.82
23 33 13 19-0249 EA 36" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	323.93 45.48 40.43	40.56
23 33 13 19-0250 EA 36" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	339.36 47.51 42.23	42.67



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0251 EA 36" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	354.25 49.83 44.30	44.22
23 33 13 19-0252 EA 40" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	250.59 41.96 37.30	22.89
23 33 13 19-0253 EA 40" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	260.32 43.12 38.33	24.36
23 33 13 19-0254 EA 40" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	266.19 43.41 38.59	25.92
23 33 13 19-0255 EA 40" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	272.06 43.70 38.85	27.46
23 33 13 19-0256 EA 40" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	285.73 44.72 39.75	28.93
23 33 13 19-0257 EA 40" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	294.82 45.73 40.65	30.49
23 33 13 19-0258 EA 40" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	313.70 46.89 41.68	35.07
23 33 13 19-0259 EA 40" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	328.03 48.05 42.71	38.09
23 33 13 19-0260 EA 40" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	343.08 49.79 44.26	40.56
23 33 13 19-0261 EA 40" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	363.66 52.98 47.09	42.67
23 33 13 19-0262 EA 40" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	378.70 54.72 48.64	45.14
23 33 13 19-0263 EA 40" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	396.54 57.91 51.47	46.33
23 33 13 19-0264 EA 40" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	416.76 60.81 54.05	48.80
23 33 13 19-0265 EA 44" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	257.75 42.54 37.82	22.89
23 33 13 19-0266 EA 44" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	267.48 43.70 38.85	24.36
23 33 13 19-0267 EA 44" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	275.94 44.57 39.62	25.92
23 33 13 19-0268 EA 44" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	281.80 44.87 39.88	27.46
23 33 13 19-0269 EA 44" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	291.53 46.02 40.91	28.93
23 33 13 19-0270 EA 44" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	301.26 47.18 41.94	30.49
23 33 13 19-0271 EA 44" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	326.02 48.63 43.23	36.62
23 33 13 19-0272 EA 44" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	341.61 50.08 44.52	39.65
23 33 13 19-0273 EA 44" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	363.66 52.98 47.09	42.67
23 33 13 19-0274 EA 44" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	384.41 55.59 49.41	45.78
23 33 13 19-0275 EA 44" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	406.44 58.49 51.99	48.80
23 33 13 19-0276 EA 44" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	422.61 61.10 54.31	50.27
23 33 13 19-0277 EA 44" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	438.79 63.71 56.63	51.82
23 33 13 19-0278 EA 44" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	454.97 66.32 58.95	53.38

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0279 EA 48" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	266.19 43.41 38.59	24.36
23 33 13 19-0280 EA 48" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	275.94 44.57 39.62	25.92
23 33 13 19-0281 EA 48" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	281.80 44.87 39.88	27.46
23 33 13 19-0282 EA 48" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	294.82 45.73 40.65	30.49
23 33 13 19-0283 EA 48" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	309.12 46.89 41.68	33.51
23 33 13 19-0284 EA 48" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	323.44 48.05 42.71	36.62
23 33 13 19-0285 EA 48" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	340.33 49.79 44.26	39.65
23 33 13 19-0286 EA 48" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	357.21 51.53 45.80	42.67
23 33 13 19-0287 EA 48" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	377.96 54.14 48.12	45.78
23 33 13 19-0288 EA 48" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	401.29 57.33 50.96	48.80
23 33 13 19-0289 EA 48" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	417.47 59.94 53.28	50.27
23 33 13 19-0290 EA 48" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	437.50 63.42 56.37	51.82
23 33 13 19-0291 EA 48" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	458.26 66.03 58.69	54.85
23 33 13 19-0292 EA 48" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	478.29 69.50 61.78	56.40
23 33 13 19-0293 EA 48" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	502.34 71.82 63.84	60.98
23 33 13 19-0294 EA 52" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	274.65 44.28 39.36	25.92
23 33 13 19-0295 EA 52" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	284.37 45.44 40.39	27.46
23 33 13 19-0296 EA 52" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	298.68 46.60 41.42	30.49
23 33 13 19-0297 EA 52" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	309.12 46.89 41.68	33.51
23 33 13 19-0298 EA 52" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	324.09 48.20 42.84	36.62
23 33 13 19-0299 EA 52" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	339.04 49.50 44.00	39.65
23 33 13 19-0300 EA 52" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	355.93 51.24 45.55	42.67
23 33 13 19-0301 EA 52" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	372.81 52.98 47.09	45.78
23 33 13 19-0302 EA 52" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	393.57 55.59 49.41	48.80
23 33 13 19-0303 EA 52" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	418.17 59.07 52.50	51.82
23 33 13 19-0304 EA 52" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	435.63 61.97 55.08	53.38
23 33 13 19-0305 EA 52" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	456.97 65.74 58.43	54.85
23 33 13 19-0306 EA 52" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	481.57 69.21 61.52	57.96



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0307 EA 52" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	502.34 71.82 63.84	60.98
23 33 13 19-0308 EA 52" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	531.54 75.30 66.94	65.55
23 33 13 19-0309 EA 52" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	553.58 78.20 69.51	68.58
23 33 13 19-0310 EA 56" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	281.80 44.87 39.88	27.46
23 33 13 19-0311 EA 56" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	297.39 46.31 41.17	30.49
23 33 13 19-0312 EA 56" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	310.41 47.18 41.94	33.51
23 33 13 19-0313 EA 56" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	320.85 47.47 42.20	36.62
23 33 13 19-0314 EA 56" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	337.11 49.07 43.62	39.65
23 33 13 19-0315 EA 56" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	353.35 50.66 45.03	42.67
23 33 13 19-0316 EA 56" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	369.59 52.26 46.45	45.78
23 33 13 19-0317 EA 56" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	385.83 53.85 47.87	48.80
23 33 13 19-0318 EA 56" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	410.44 57.33 50.96	51.82
23 33 13 19-0319 EA 56" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	430.49 60.81 54.05	53.38
23 33 13 19-0320 EA 56" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	449.24 64.00 56.89	54.85
23 33 13 19-0321 EA 56" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	476.43 68.06 60.49	57.96
23 33 13 19-0322 EA 56" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	501.05 71.53 63.59	60.98
23 33 13 19-0323 EA 56" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	526.96 75.30 66.94	64.00
23 33 13 19-0324 EA 56" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	549.01 78.20 69.51	67.11
23 33 13 19-0325 EA 56" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	574.91 81.97 72.86	70.14
23 33 13 19-0326 EA 56" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	600.82 85.74 76.21	73.16
23 33 13 19-0327 EA 60" x 6" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	294.82 45.73 40.65	30.49
23 33 13 19-0328 EA 60" x 8" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	310.41 47.18 41.94	33.51
23 33 13 19-0329 EA 60" x 10" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	322.14 47.76 42.45	36.62
23 33 13 19-0330 EA 60" x 12" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	332.60 48.05 42.71	39.65
23 33 13 19-0331 EA 60" x 14" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	349.49 49.79 44.26	42.67
23 33 13 19-0332 EA 60" x 16" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	366.36 51.53 45.80	45.78
23 33 13 19-0333 EA 60" x 18" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	383.90 53.42 47.48	48.80
23 33 13 19-0334 EA 60" x 20" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated <i>For Dynamic Damper, Add</i> <i>For 3 Hour Rated, Add</i>	401.42 55.30 49.15	51.82

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 33 Air Duct Accessories



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 19-0335 EA 60" x 24" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	422.75	53.38
For Dynamic Damper, Add	59.07	
For 3 Hour Rated, Add	52.50	
23 33 13 19-0336 EA 60" x 28" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	442.79	54.85
For Dynamic Damper, Add	62.55	
For 3 Hour Rated, Add	55.60	
23 33 13 19-0337 EA 60" x 32" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	468.70	57.96
For Dynamic Damper, Add	66.32	
For 3 Hour Rated, Add	58.95	
23 33 13 19-0338 EA 60" x 36" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	494.61	60.98
For Dynamic Damper, Add	70.09	
For 3 Hour Rated, Add	62.30	
23 33 13 19-0339 EA 60" x 40" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	516.65	64.00
For Dynamic Damper, Add	72.98	
For 3 Hour Rated, Add	64.87	
23 33 13 19-0340 EA 60" x 44" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	546.42	67.11
For Dynamic Damper, Add	77.62	
For 3 Hour Rated, Add	69.00	
23 33 13 19-0341 EA 60" x 48" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	573.61	70.14
For Dynamic Damper, Add	81.68	
For 3 Hour Rated, Add	72.60	
23 33 13 19-0342 EA 60" x 52" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	600.82	73.16
For Dynamic Damper, Add	85.74	
For 3 Hour Rated, Add	76.21	
23 33 13 19-0343 EA 60" x 56" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	625.41	76.27
For Dynamic Damper, Add	89.21	
For 3 Hour Rated, Add	79.30	
23 33 13 19-0344 EA 60" x 60" Louver Type Smoke Damper, Steel Construction, UL Listed, 1-1/2 Hour Rated	650.05	79.29
For Dynamic Damper, Add	92.70	
For 3 Hour Rated, Add	82.40	

23 33 13 23 Backdraft Dampers (23 33 13)

23 33 13 23-0001 Horizontally Mounted Backdraft Damper (23 33 13 23)

Note: Galvanized steel frame, aluminum blades. Exclude motor pack.

23 33 13 23-0002 EA 6" x 6" Horizontally Mounted Backdraft Damper	66.92	10.16
23 33 13 23-0003 EA 8" x 6" Horizontally Mounted Backdraft Damper	80.43	10.62
23 33 13 23-0004 EA 8" x 8" Horizontally Mounted Backdraft Damper	96.79	10.71
23 33 13 23-0005 EA 10" x 6" Horizontally Mounted Backdraft Damper	92.76	10.71
23 33 13 23-0006 EA 10" x 8" Horizontally Mounted Backdraft Damper	88.85	10.99
23 33 13 23-0007 EA 10" x 10" Horizontally Mounted Backdraft Damper	106.49	12.17
23 33 13 23-0008 EA 12" x 6" Horizontally Mounted Backdraft Damper	83.26	10.99
23 33 13 23-0009 EA 12" x 8" Horizontally Mounted Backdraft Damper	103.69	12.17
23 33 13 23-0010 EA 12" x 10" Horizontally Mounted Backdraft Damper	99.52	12.82
23 33 13 23-0011 EA 12" x 12" Horizontally Mounted Backdraft Damper	114.48	13.73
23 33 13 23-0012 EA 14" x 6" Horizontally Mounted Backdraft Damper	93.48	11.63
23 33 13 23-0013 EA 14" x 8" Horizontally Mounted Backdraft Damper	95.44	12.82
23 33 13 23-0014 EA 14" x 10" Horizontally Mounted Backdraft Damper	112.46	13.73
23 33 13 23-0015 EA 14" x 12" Horizontally Mounted Backdraft Damper	100.58	15.29
23 33 13 23-0016 EA 14" x 14" Horizontally Mounted Backdraft Damper	114.30	16.76
23 33 13 23-0017 EA 16" x 6" Horizontally Mounted Backdraft Damper	103.69	12.17
23 33 13 23-0018 EA 16" x 8" Horizontally Mounted Backdraft Damper	106.34	13.73
23 33 13 23-0019 EA 16" x 10" Horizontally Mounted Backdraft Damper	97.97	15.29
23 33 13 23-0020 EA 16" x 12" Horizontally Mounted Backdraft Damper	108.40	15.29
23 33 13 23-0021 EA 16" x 14" Horizontally Mounted Backdraft Damper	123.43	16.76
23 33 13 23-0022 EA 16" x 16" Horizontally Mounted Backdraft Damper	138.44	18.31
23 33 13 23-0023 EA 18" x 6" Horizontally Mounted Backdraft Damper	93.42	12.82
23 33 13 23-0024 EA 18" x 8" Horizontally Mounted Backdraft Damper	88.17	13.73
23 33 13 23-0025 EA 18" x 10" Horizontally Mounted Backdraft Damper	104.48	15.29
23 33 13 23-0026 EA 18" x 12" Horizontally Mounted Backdraft Damper	120.81	16.76
23 33 13 23-0027 EA 18" x 14" Horizontally Mounted Backdraft Damper	137.13	18.31
23 33 13 23-0028 EA 18" x 16" Horizontally Mounted Backdraft Damper	156.46	19.78
23 33 13 23-0029 EA 18" x 18" Horizontally Mounted Backdraft Damper	177.73	22.89
23 33 13 23-0030 EA 18" x 20" Horizontally Mounted Backdraft Damper	146.75	24.36
23 33 13 23-0031 EA 18" x 24" Horizontally Mounted Backdraft Damper	170.58	27.46
23 33 13 23-0032 EA 20" x 6" Horizontally Mounted Backdraft Damper	102.27	13.73
23 33 13 23-0033 EA 20" x 8" Horizontally Mounted Backdraft Damper	97.97	15.29
23 33 13 23-0034 EA 20" x 10" Horizontally Mounted Backdraft Damper	115.59	16.76
23 33 13 23-0035 EA 20" x 12" Horizontally Mounted Backdraft Damper	133.22	18.31
23 33 13 23-0036 EA 20" x 14" Horizontally Mounted Backdraft Damper	153.77	19.78
23 33 13 23-0037 EA 20" x 16" Horizontally Mounted Backdraft Damper	171.80	21.34
23 33 13 23-0038 EA 20" x 18" Horizontally Mounted Backdraft Damper	146.75	24.36
23 33 13 23-0039 EA 20" x 20" Horizontally Mounted Backdraft Damper	154.91	24.36
23 33 13 23-0040 EA 20" x 24" Horizontally Mounted Backdraft Damper	180.38	27.46
23 33 13 23-0041 EA 20" x 28" Horizontally Mounted Backdraft Damper	205.87	30.49
23 33 13 23-0042 EA 20" x 32" Horizontally Mounted Backdraft Damper	194.02	33.51
23 33 13 23-0043 EA 20" x 36" Horizontally Mounted Backdraft Damper	214.84	36.62
23 33 13 23-0044 EA 24" x 6" Horizontally Mounted Backdraft Damper	92.74	15.29
23 33 13 23-0045 EA 24" x 8" Horizontally Mounted Backdraft Damper	112.98	16.76
23 33 13 23-0046 EA 24" x 10" Horizontally Mounted Backdraft Damper	133.22	18.31
23 33 13 23-0047 EA 24" x 12" Horizontally Mounted Backdraft Damper	156.46	19.78
23 33 13 23-0048 EA 24" x 14" Horizontally Mounted Backdraft Damper	137.26	22.89



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0049 EA 24" x 16" Horizontally Mounted Backdraft Damper	151.64	24.36
23 33 13 23-0050 EA 24" x 18" Horizontally Mounted Backdraft Damper	170.58	27.46
23 33 13 23-0051 EA 24" x 20" Horizontally Mounted Backdraft Damper	180.38	27.46
23 33 13 23-0052 EA 24" x 24" Horizontally Mounted Backdraft Damper	209.14	30.49
23 33 13 23-0053 EA 24" x 28" Horizontally Mounted Backdraft Damper	198.68	33.51
23 33 13 23-0054 EA 24" x 32" Horizontally Mounted Backdraft Damper	221.84	36.62
23 33 13 23-0055 EA 24" x 36" Horizontally Mounted Backdraft Damper	244.99	39.65
23 33 13 23-0056 EA 24" x 40" Horizontally Mounted Backdraft Damper	240.16	42.67
23 33 13 23-0057 EA 24" x 44" Horizontally Mounted Backdraft Damper	260.51	45.78
23 33 13 23-0058 EA 24" x 48" Horizontally Mounted Backdraft Damper	271.70	45.78
23 33 13 23-0059 EA 28" x 6" Horizontally Mounted Backdraft Damper	100.58	15.29
23 33 13 23-0060 EA 28" x 8" Horizontally Mounted Backdraft Damper	123.43	16.76
23 33 13 23-0061 EA 28" x 10" Horizontally Mounted Backdraft Damper	153.77	19.78
23 33 13 23-0062 EA 28" x 12" Horizontally Mounted Backdraft Damper	137.26	22.89
23 33 13 23-0063 EA 28" x 14" Horizontally Mounted Backdraft Damper	153.27	24.36
23 33 13 23-0064 EA 28" x 16" Horizontally Mounted Backdraft Damper	173.86	27.46
23 33 13 23-0065 EA 28" x 18" Horizontally Mounted Backdraft Damper	194.45	30.49
23 33 13 23-0066 EA 28" x 20" Horizontally Mounted Backdraft Damper	205.87	30.49
23 33 13 23-0067 EA 28" x 24" Horizontally Mounted Backdraft Damper	198.68	33.51
23 33 13 23-0068 EA 28" x 28" Horizontally Mounted Backdraft Damper	224.18	36.62
23 33 13 23-0069 EA 28" x 32" Horizontally Mounted Backdraft Damper	249.66	39.65
23 33 13 23-0070 EA 28" x 36" Horizontally Mounted Backdraft Damper	254.90	45.78
23 33 13 23-0071 EA 28" x 40" Horizontally Mounted Backdraft Damper	267.97	45.78
23 33 13 23-0072 EA 28" x 44" Horizontally Mounted Backdraft Damper	290.19	48.80
23 33 13 23-0073 EA 28" x 48" Horizontally Mounted Backdraft Damper	312.41	51.82
23 33 13 23-0074 EA 28" x 52" Horizontally Mounted Backdraft Damper	325.48	51.82
23 33 13 23-0075 EA 28" x 56" Horizontally Mounted Backdraft Damper	324.84	54.85
23 33 13 23-0076 EA 28" x 60" Horizontally Mounted Backdraft Damper	336.25	54.85
23 33 13 23-0077 EA 32" x 6" Horizontally Mounted Backdraft Damper	112.98	16.76
23 33 13 23-0078 EA 32" x 8" Horizontally Mounted Backdraft Damper	145.69	19.78
23 33 13 23-0079 EA 32" x 10" Horizontally Mounted Backdraft Damper	171.80	21.34
23 33 13 23-0080 EA 32" x 12" Horizontally Mounted Backdraft Damper	151.64	24.36
23 33 13 23-0081 EA 32" x 14" Horizontally Mounted Backdraft Damper	173.86	27.46
23 33 13 23-0082 EA 32" x 16" Horizontally Mounted Backdraft Damper	196.07	30.49
23 33 13 23-0083 EA 32" x 18" Horizontally Mounted Backdraft Damper	175.54	30.49
23 33 13 23-0084 EA 32" x 20" Horizontally Mounted Backdraft Damper	194.02	33.51
23 33 13 23-0085 EA 32" x 24" Horizontally Mounted Backdraft Damper	221.84	36.62
23 33 13 23-0086 EA 32" x 28" Horizontally Mounted Backdraft Damper	249.66	39.65
23 33 13 23-0087 EA 32" x 32" Horizontally Mounted Backdraft Damper	256.78	45.78
23 33 13 23-0088 EA 32" x 36" Horizontally Mounted Backdraft Damper	271.70	45.78
23 33 13 23-0089 EA 32" x 40" Horizontally Mounted Backdraft Damper	295.79	48.80
23 33 13 23-0090 EA 32" x 44" Horizontally Mounted Backdraft Damper	319.87	51.82
23 33 13 23-0091 EA 32" x 48" Horizontally Mounted Backdraft Damper	321.57	54.85
23 33 13 23-0092 EA 32" x 52" Horizontally Mounted Backdraft Damper	334.64	54.85
23 33 13 23-0093 EA 32" x 56" Horizontally Mounted Backdraft Damper	356.84	57.96
23 33 13 23-0094 EA 32" x 60" Horizontally Mounted Backdraft Damper	369.91	57.96
23 33 13 23-0095 EA 32" x 64" Horizontally Mounted Backdraft Damper	362.27	60.98
23 33 13 23-0096 EA 32" x 68" Horizontally Mounted Backdraft Damper	373.46	60.98
23 33 13 23-0097 EA 32" x 72" Horizontally Mounted Backdraft Damper	393.82	64.00
23 33 13 23-0098 EA 36" x 6" Horizontally Mounted Backdraft Damper	120.81	16.76
23 33 13 23-0099 EA 36" x 8" Horizontally Mounted Backdraft Damper	161.03	21.34
23 33 13 23-0100 EA 36" x 10" Horizontally Mounted Backdraft Damper	146.75	24.36
23 33 13 23-0101 EA 36" x 12" Horizontally Mounted Backdraft Damper	170.58	27.46
23 33 13 23-0102 EA 36" x 14" Horizontally Mounted Backdraft Damper	194.45	30.49
23 33 13 23-0103 EA 36" x 16" Horizontally Mounted Backdraft Damper	175.54	30.49
23 33 13 23-0104 EA 36" x 18" Horizontally Mounted Backdraft Damper	195.18	33.51
23 33 13 23-0105 EA 36" x 20" Horizontally Mounted Backdraft Damper	214.84	36.62
23 33 13 23-0106 EA 36" x 24" Horizontally Mounted Backdraft Damper	244.99	39.65
23 33 13 23-0107 EA 36" x 28" Horizontally Mounted Backdraft Damper	254.90	45.78
23 33 13 23-0108 EA 36" x 32" Horizontally Mounted Backdraft Damper	271.70	45.78
23 33 13 23-0109 EA 36" x 36" Horizontally Mounted Backdraft Damper	297.65	48.80
23 33 13 23-0110 EA 36" x 40" Horizontally Mounted Backdraft Damper	323.60	51.82
23 33 13 23-0111 EA 36" x 44" Horizontally Mounted Backdraft Damper	326.46	54.85
23 33 13 23-0112 EA 36" x 48" Horizontally Mounted Backdraft Damper	350.31	57.96
23 33 13 23-0113 EA 36" x 52" Horizontally Mounted Backdraft Damper	365.00	57.96
23 33 13 23-0114 EA 36" x 56" Horizontally Mounted Backdraft Damper	359.47	60.98
23 33 13 23-0115 EA 36" x 60" Horizontally Mounted Backdraft Damper	372.06	60.98
23 33 13 23-0116 EA 36" x 64" Horizontally Mounted Backdraft Damper	393.82	64.00
23 33 13 23-0117 EA 36" x 68" Horizontally Mounted Backdraft Damper	406.41	64.00
23 33 13 23-0118 EA 36" x 72" Horizontally Mounted Backdraft Damper	419.02	64.00
23 33 13 23-0119 EA 40" x 6" Horizontally Mounted Backdraft Damper	133.22	18.31
23 33 13 23-0120 EA 40" x 8" Horizontally Mounted Backdraft Damper	176.38	22.89
23 33 13 23-0121 EA 40" x 10" Horizontally Mounted Backdraft Damper	154.91	24.36
23 33 13 23-0122 EA 40" x 12" Horizontally Mounted Backdraft Damper	180.38	27.46
23 33 13 23-0123 EA 40" x 14" Horizontally Mounted Backdraft Damper	205.87	30.49
23 33 13 23-0124 EA 40" x 16" Horizontally Mounted Backdraft Damper	194.02	33.51
23 33 13 23-0125 EA 40" x 18" Horizontally Mounted Backdraft Damper	214.84	36.62
23 33 13 23-0126 EA 40" x 20" Horizontally Mounted Backdraft Damper	235.65	39.65
23 33 13 23-0127 EA 40" x 24" Horizontally Mounted Backdraft Damper	240.16	42.67
23 33 13 23-0128 EA 40" x 28" Horizontally Mounted Backdraft Damper	267.97	45.78
23 33 13 23-0129 EA 40" x 32" Horizontally Mounted Backdraft Damper	295.79	48.80

MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 33 13 23-0130	EA	40" x 36" Horizontally Mounted Backdraft Damper	323.60	51.82
23 33 13 23-0131	EA	40" x 40" Horizontally Mounted Backdraft Damper	328.09	54.85
23 33 13 23-0132	EA	40" x 44" Horizontally Mounted Backdraft Damper	353.57	57.96
23 33 13 23-0133	EA	40" x 48" Horizontally Mounted Backdraft Damper	369.91	57.96
23 33 13 23-0134	EA	40" x 50" Horizontally Mounted Backdraft Damper	358.07	60.98
23 33 13 23-0135	EA	44" x 6" Horizontally Mounted Backdraft Damper	148.39	19.78
23 33 13 23-0136	EA	44" x 8" Horizontally Mounted Backdraft Damper	145.11	24.36
23 33 13 23-0137	EA	44" x 10" Horizontally Mounted Backdraft Damper	172.22	27.46
23 33 13 23-0138	EA	44" x 12" Horizontally Mounted Backdraft Damper	193.34	30.49
23 33 13 23-0139	EA	44" x 14" Horizontally Mounted Backdraft Damper	190.51	33.51
23 33 13 23-0140	EA	44" x 16" Horizontally Mounted Backdraft Damper	212.50	36.62
23 33 13 23-0141	EA	44" x 18" Horizontally Mounted Backdraft Damper	225.34	36.62
23 33 13 23-0142	EA	44" x 20" Horizontally Mounted Backdraft Damper	247.33	39.65
23 33 13 23-0143	EA	44" x 24" Horizontally Mounted Backdraft Damper	260.51	45.78
23 33 13 23-0144	EA	44" x 28" Horizontally Mounted Backdraft Damper	290.19	48.80
23 33 13 23-0145	EA	44" x 32" Horizontally Mounted Backdraft Damper	319.87	51.82
23 33 13 23-0146	EA	44" x 36" Horizontally Mounted Backdraft Damper	328.46	54.85
23 33 13 23-0147	EA	44" x 40" Horizontally Mounted Backdraft Damper	353.57	57.96
23 33 13 23-0148	EA	44" x 44" Horizontally Mounted Backdraft Damper	371.53	57.96
23 33 13 23-0149	EA	44" x 48" Horizontally Mounted Backdraft Damper	367.87	60.98
23 33 13 23-0150	EA	44" x 50" Horizontally Mounted Backdraft Damper	375.56	60.98
23 33 13 23-0151	EA	48" x 6" Horizontally Mounted Backdraft Damper	161.03	21.34
23 33 13 23-0152	EA	48" x 8" Horizontally Mounted Backdraft Damper	151.64	24.36
23 33 13 23-0153	EA	48" x 10" Horizontally Mounted Backdraft Damper	180.38	27.46
23 33 13 23-0154	EA	48" x 12" Horizontally Mounted Backdraft Damper	175.54	30.49
23 33 13 23-0155	EA	48" x 14" Horizontally Mounted Backdraft Damper	198.68	33.51
23 33 13 23-0156	EA	48" x 16" Horizontally Mounted Backdraft Damper	221.84	36.62
23 33 13 23-0157	EA	48" x 18" Horizontally Mounted Backdraft Damper	244.99	39.65
23 33 13 23-0158	EA	48" x 20" Horizontally Mounted Backdraft Damper	240.16	42.67
23 33 13 23-0159	EA	48" x 24" Horizontally Mounted Backdraft Damper	271.70	45.78
23 33 13 23-0160	EA	48" x 28" Horizontally Mounted Backdraft Damper	312.41	51.82
23 33 13 23-0161	EA	48" x 32" Horizontally Mounted Backdraft Damper	321.57	54.85
23 33 13 23-0162	EA	48" x 36" Horizontally Mounted Backdraft Damper	350.31	57.96
23 33 13 23-0163	EA	48" x 40" Horizontally Mounted Backdraft Damper	369.91	57.96
23 33 13 23-0164	EA	48" x 44" Horizontally Mounted Backdraft Damper	367.87	60.98
23 33 13 23-0165	EA	48" x 48" Horizontally Mounted Backdraft Damper	393.82	64.00
23 33 13 23-0166	EA	48" x 50" Horizontally Mounted Backdraft Damper	402.22	64.00
23 33 13 23-0167	EA	50" x 6" Horizontally Mounted Backdraft Damper	165.07	21.34
23 33 13 23-0168	EA	50" x 8" Horizontally Mounted Backdraft Damper	164.06	27.46
23 33 13 23-0169	EA	50" x 10" Horizontally Mounted Backdraft Damper	193.63	30.49
23 33 13 23-0170	EA	50" x 12" Horizontally Mounted Backdraft Damper	188.18	33.51
23 33 13 23-0171	EA	50" x 14" Horizontally Mounted Backdraft Damper	211.93	36.62
23 33 13 23-0172	EA	50" x 16" Horizontally Mounted Backdraft Damper	235.65	39.65
23 33 13 23-0173	EA	50" x 18" Horizontally Mounted Backdraft Damper	259.40	42.67
23 33 13 23-0174	EA	50" x 20" Horizontally Mounted Backdraft Damper	253.96	45.78
23 33 13 23-0175	EA	50" x 24" Horizontally Mounted Backdraft Damper	286.45	48.80
23 33 13 23-0176	EA	50" x 28" Horizontally Mounted Backdraft Damper	318.93	51.82
23 33 13 23-0177	EA	50" x 32" Horizontally Mounted Backdraft Damper	328.09	54.85
23 33 13 23-0178	EA	50" x 36" Horizontally Mounted Backdraft Damper	357.66	57.96
23 33 13 23-0179	EA	50" x 40" Horizontally Mounted Backdraft Damper	358.07	60.98
23 33 13 23-0180	EA	50" x 44" Horizontally Mounted Backdraft Damper	375.56	60.98
23 33 13 23-0181	EA	50" x 48" Horizontally Mounted Backdraft Damper	402.22	64.00
23 33 13 23-0182	EA	50" x 50" Horizontally Mounted Backdraft Damper	410.96	64.00

23 33 13 23-0183 Vertically Mounted Backdraft Damper (23 33 13 23)

Note: Galvanized steel frame, aluminum blades. Excludes motor pack.

23 33 13 23-0184	EA	6" x 6" Vertically Mounted Backdraft Damper	72.44	10.16
23 33 13 23-0185	EA	8" x 6" Vertically Mounted Backdraft Damper	87.80	10.62
23 33 13 23-0186	EA	10" x 6" Vertically Mounted Backdraft Damper	90.32	10.71
23 33 13 23-0187	EA	8" x 8" Vertically Mounted Backdraft Damper	94.20	10.71
23 33 13 23-0188	EA	12" x 6" Vertically Mounted Backdraft Damper	102.89	10.99
23 33 13 23-0189	EA	10" x 8" Vertically Mounted Backdraft Damper	114.32	12.17
23 33 13 23-0190	EA	14" x 6" Vertically Mounted Backdraft Damper	114.55	10.99
23 33 13 23-0191	EA	12" x 8" Vertically Mounted Backdraft Damper	129.87	12.17
23 33 13 23-0192	EA	16" x 6" Vertically Mounted Backdraft Damper	131.71	12.82
23 33 13 23-0193	EA	10" x 10" Vertically Mounted Backdraft Damper	138.34	13.73
23 33 13 23-0194	EA	18" x 6" Vertically Mounted Backdraft Damper	111.47	11.63
23 33 13 23-0195	EA	14" x 8" Vertically Mounted Backdraft Damper	117.99	12.82
23 33 13 23-0196	EA	12" x 10" Vertically Mounted Backdraft Damper	126.41	13.73
23 33 13 23-0197	EA	20" x 6" Vertically Mounted Backdraft Damper	130.98	15.29
23 33 13 23-0198	EA	16" x 8" Vertically Mounted Backdraft Damper	141.24	16.76
23 33 13 23-0199	EA	14" x 10" Vertically Mounted Backdraft Damper	136.02	12.17
23 33 13 23-0200	EA	12" x 12" Vertically Mounted Backdraft Damper	143.45	13.73
23 33 13 23-0201	EA	18" x 8" Vertically Mounted Backdraft Damper	127.17	15.29
23 33 13 23-0202	EA	24" x 6" Vertically Mounted Backdraft Damper	127.17	15.29
23 33 13 23-0203	EA	16" x 10" Vertically Mounted Backdraft Damper	140.78	16.76
23 33 13 23-0204	EA	20" x 8" Vertically Mounted Backdraft Damper	145.36	18.31
23 33 13 23-0205	EA	14" x 12" Vertically Mounted Backdraft Damper	133.39	12.82
23 33 13 23-0206	EA	28" x 6" Vertically Mounted Backdraft Damper	136.14	13.73
23 33 13 23-0207	EA	18" x 10" Vertically Mounted Backdraft Damper	147.49	15.29



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 13 23-0208 EA 16" x 12" Vertically Mounted Backdraft Damper	158.86	16.76
23 33 13 23-0209 EA 24" x 8" Vertically Mounted Backdraft Damper	163.44	18.31
23 33 13 23-0210 EA 32" x 6" Vertically Mounted Backdraft Damper	168.02	19.78
23 33 13 23-0211 EA 14" x 14" Vertically Mounted Backdraft Damper	179.43	22.89
23 33 13 23-0212 EA 20" x 10" Vertically Mounted Backdraft Damper	178.42	24.36
23 33 13 23-0213 EA 18" x 12" Vertically Mounted Backdraft Damper	195.99	27.46
23 33 13 23-0214 EA 36" x 6" Vertically Mounted Backdraft Damper	154.80	13.73
23 33 13 23-0215 EA 16" x 14" Vertically Mounted Backdraft Damper	163.58	15.29
23 33 13 23-0216 EA 28" x 8" Vertically Mounted Backdraft Damper	168.16	16.76
23 33 13 23-0217 EA 20" x 12" Vertically Mounted Backdraft Damper	181.14	18.31
23 33 13 23-0218 EA 24" x 10" Vertically Mounted Backdraft Damper	185.72	19.78
23 33 13 23-0219 EA 40" x 6" Vertically Mounted Backdraft Damper	190.29	21.34
23 33 13 23-0220 EA 18" x 14" Vertically Mounted Backdraft Damper	205.77	24.36
23 33 13 23-0221 EA 16" x 16" Vertically Mounted Backdraft Damper	207.87	24.36
23 33 13 23-0222 EA 32" x 8" Vertically Mounted Backdraft Damper	217.02	27.46
23 33 13 23-0223 EA 44" x 6" Vertically Mounted Backdraft Damper	230.39	30.49
23 33 13 23-0224 EA 20" x 14" Vertically Mounted Backdraft Damper	247.96	33.51
23 33 13 23-0225 EA 28" x 10" Vertically Mounted Backdraft Damper	257.12	36.62
23 33 13 23-0226 EA 18" x 16" Vertically Mounted Backdraft Damper	197.24	15.29
23 33 13 23-0227 EA 24" x 12" Vertically Mounted Backdraft Damper	201.82	16.76
23 33 13 23-0228 EA 36" x 8" Vertically Mounted Backdraft Damper	206.40	18.31
23 33 13 23-0229 EA 48" x 6" Vertically Mounted Backdraft Damper	210.98	19.78
23 33 13 23-0230 EA 50" x 6" Vertically Mounted Backdraft Damper	226.43	22.89
23 33 13 23-0231 EA 20" x 16" Vertically Mounted Backdraft Damper	241.52	24.36
23 33 13 23-0232 EA 32" x 10" Vertically Mounted Backdraft Damper	250.67	27.46
23 33 13 23-0233 EA 40" x 8" Vertically Mounted Backdraft Damper	250.67	27.46
23 33 13 23-0234 EA 18" x 18" Vertically Mounted Backdraft Damper	226.18	30.49
23 33 13 23-0235 EA 24" x 14" Vertically Mounted Backdraft Damper	216.64	33.51
23 33 13 23-0236 EA 28" x 12" Vertically Mounted Backdraft Damper	225.80	36.62
23 33 13 23-0237 EA 44" x 8" Vertically Mounted Backdraft Damper	240.48	39.65
23 33 13 23-0238 EA 18" x 20" Vertically Mounted Backdraft Damper	252.40	42.67
23 33 13 23-0239 EA 20" x 18" Vertically Mounted Backdraft Damper	261.55	45.78
23 33 13 23-0240 EA 36" x 10" Vertically Mounted Backdraft Damper	261.55	45.78
23 33 13 23-0241 EA 24" x 16" Vertically Mounted Backdraft Damper	178.27	15.29
23 33 13 23-0242 EA 32" x 12" Vertically Mounted Backdraft Damper	182.85	16.76
23 33 13 23-0243 EA 48" x 8" Vertically Mounted Backdraft Damper	192.01	19.78
23 33 13 23-0244 EA 28" x 14" Vertically Mounted Backdraft Damper	203.92	22.89
23 33 13 23-0245 EA 20" x 20" Vertically Mounted Backdraft Damper	211.26	24.36
23 33 13 23-0246 EA 40" x 10" Vertically Mounted Backdraft Damper	220.41	27.46
23 33 13 23-0247 EA 50" x 8" Vertically Mounted Backdraft Damper	229.57	30.49
23 33 13 23-0248 EA 18" x 24" Vertically Mounted Backdraft Damper	240.61	30.49
23 33 13 23-0249 EA 24" x 18" Vertically Mounted Backdraft Damper	249.76	33.51
23 33 13 23-0250 EA 36" x 12" Vertically Mounted Backdraft Damper	258.92	36.62
23 33 13 23-0251 EA 44" x 10" Vertically Mounted Backdraft Damper	270.84	39.65
23 33 13 23-0252 EA 28" x 16" Vertically Mounted Backdraft Damper	291.91	45.78
23 33 13 23-0253 EA 32" x 14" Vertically Mounted Backdraft Damper	291.91	45.78
23 33 13 23-0254 EA 20" x 24" Vertically Mounted Backdraft Damper	313.50	48.80
23 33 13 23-0255 EA 24" x 20" Vertically Mounted Backdraft Damper	297.22	51.82
23 33 13 23-0256 EA 40" x 12" Vertically Mounted Backdraft Damper	297.22	51.82
23 33 13 23-0257 EA 48" x 10" Vertically Mounted Backdraft Damper	306.38	54.85
23 33 13 23-0258 EA 50" x 10" Vertically Mounted Backdraft Damper	312.28	54.85
23 33 13 23-0259 EA 28" x 18" Vertically Mounted Backdraft Damper	199.00	16.76
23 33 13 23-0260 EA 36" x 14" Vertically Mounted Backdraft Damper	208.16	19.78
23 33 13 23-0261 EA 32" x 16" Vertically Mounted Backdraft Damper	215.10	21.34
23 33 13 23-0262 EA 44" x 12" Vertically Mounted Backdraft Damper	228.97	24.36
23 33 13 23-0263 EA 20" x 28" Vertically Mounted Backdraft Damper	247.56	27.46
23 33 13 23-0264 EA 28" x 20" Vertically Mounted Backdraft Damper	256.72	30.49
23 33 13 23-0265 EA 40" x 14" Vertically Mounted Backdraft Damper	256.72	30.49
23 33 13 23-0266 EA 24" x 24" Vertically Mounted Backdraft Damper	270.59	33.51
23 33 13 23-0267 EA 32" x 18" Vertically Mounted Backdraft Damper	279.75	36.62
23 33 13 23-0268 EA 36" x 16" Vertically Mounted Backdraft Damper	288.91	39.65
23 33 13 23-0269 EA 48" x 12" Vertically Mounted Backdraft Damper	307.22	45.78
23 33 13 23-0270 EA 50" x 12" Vertically Mounted Backdraft Damper	314.31	45.78
23 33 13 23-0271 EA 44" x 14" Vertically Mounted Backdraft Damper	328.19	48.80
23 33 13 23-0272 EA 20" x 32" Vertically Mounted Backdraft Damper	344.41	51.82
23 33 13 23-0273 EA 32" x 20" Vertically Mounted Backdraft Damper	353.57	54.85
23 33 13 23-0274 EA 40" x 16" Vertically Mounted Backdraft Damper	353.57	54.85
23 33 13 23-0275 EA 36" x 18" Vertically Mounted Backdraft Damper	365.07	57.96
23 33 13 23-0276 EA 24" x 28" Vertically Mounted Backdraft Damper	373.33	57.96
23 33 13 23-0277 EA 28" x 24" Vertically Mounted Backdraft Damper	365.40	60.98
23 33 13 23-0278 EA 48" x 14" Vertically Mounted Backdraft Damper	365.40	60.98
23 33 13 23-0279 EA 50" x 14" Vertically Mounted Backdraft Damper	382.16	64.00
23 33 13 23-0280 EA 44" x 16" Vertically Mounted Backdraft Damper	241.32	16.76
23 33 13 23-0281 EA 20" x 36" Vertically Mounted Backdraft Damper	259.39	21.34
23 33 13 23-0282 EA 36" x 20" Vertically Mounted Backdraft Damper	268.55	24.36
23 33 13 23-0283 EA 40" x 18" Vertically Mounted Backdraft Damper	277.70	27.46
23 33 13 23-0284 EA 24" x 32" Vertically Mounted Backdraft Damper	299.88	30.49
23 33 13 23-0285 EA 32" x 24" Vertically Mounted Backdraft Damper	299.88	30.49
23 33 13 23-0286 EA 48" x 16" Vertically Mounted Backdraft Damper	309.03	33.51
23 33 13 23-0287 EA 28" x 28" Vertically Mounted Backdraft Damper	322.53	36.62
23 33 13 23-0288 EA 44" x 18" Vertically Mounted Backdraft Damper	333.86	39.65

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

SAN BERNARDINO
COUNTY

MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 33 13 23-0289	EA	40" x 20" Vertically Mounted Backdraft Damper.....	354.33	45.78
23 33 13 23-0290	EA	50" x 16" Vertically Mounted Backdraft Damper.....	354.33	45.78
23 33 13 23-0291	EA	24" x 36" Vertically Mounted Backdraft Damper.....	380.86	48.80
23 33 13 23-0292	EA	36" x 24" Vertically Mounted Backdraft Damper.....	390.01	51.82
23 33 13 23-0293	EA	48" x 18" Vertically Mounted Backdraft Damper.....	399.17	54.85
23 33 13 23-0294	EA	44" x 20" Vertically Mounted Backdraft Damper.....	412.66	57.96
23 33 13 23-0295	EA	28" x 32" Vertically Mounted Backdraft Damper.....	417.01	57.96
23 33 13 23-0296	EA	32" x 28" Vertically Mounted Backdraft Damper.....	426.17	60.98
23 33 13 23-0297	EA	50" x 18" Vertically Mounted Backdraft Damper.....	427.24	60.98
23 33 13 23-0298	EA	24" x 40" Vertically Mounted Backdraft Damper.....	452.68	64.00
23 33 13 23-0299	EA	40" x 24" Vertically Mounted Backdraft Damper.....	452.68	64.00
23 33 13 23-0300	EA	48" x 20" Vertically Mounted Backdraft Damper.....	452.68	64.00
23 33 13 23-0301	EA	50" x 20" Vertically Mounted Backdraft Damper.....	326.19	18.31
23 33 13 23-0302	EA	28" x 36" Vertically Mounted Backdraft Damper.....	342.08	22.89
23 33 13 23-0303	EA	36" x 28" Vertically Mounted Backdraft Damper.....	346.66	24.36
23 33 13 23-0304	EA	32" x 32" Vertically Mounted Backdraft Damper.....	360.16	27.46
23 33 13 23-0305	EA	24" x 44" Vertically Mounted Backdraft Damper.....	347.03	30.49
23 33 13 23-0306	EA	44" x 24" Vertically Mounted Backdraft Damper.....	356.18	33.51
23 33 13 23-0307	EA	28" x 40" Vertically Mounted Backdraft Damper.....	380.81	36.62
23 33 13 23-0308	EA	40" x 28" Vertically Mounted Backdraft Damper.....	389.97	39.65
23 33 13 23-0309	EA	24" x 48" Vertically Mounted Backdraft Damper.....	406.89	42.67
23 33 13 23-0310	EA	32" x 36" Vertically Mounted Backdraft Damper.....	416.04	45.78
23 33 13 23-0311	EA	36" x 32" Vertically Mounted Backdraft Damper.....	425.20	48.80
23 33 13 23-0312	EA	48" x 24" Vertically Mounted Backdraft Damper.....	434.35	51.82
23 33 13 23-0313	EA	50" x 24" Vertically Mounted Backdraft Damper.....	455.11	54.85
23 33 13 23-0314	EA	28" x 44" Vertically Mounted Backdraft Damper.....	472.00	57.96
23 33 13 23-0315	EA	44" x 28" Vertically Mounted Backdraft Damper.....	472.00	57.96
23 33 13 23-0316	EA	32" x 40" Vertically Mounted Backdraft Damper.....	492.78	60.98
23 33 13 23-0317	EA	40" x 32" Vertically Mounted Backdraft Damper.....	369.18	19.78
23 33 13 23-0318	EA	36" x 36" Vertically Mounted Backdraft Damper.....	386.78	24.36
23 33 13 23-0319	EA	28" x 48" Vertically Mounted Backdraft Damper.....	407.53	27.46
23 33 13 23-0320	EA	48" x 28" Vertically Mounted Backdraft Damper.....	416.69	30.49
23 33 13 23-0321	EA	50" x 28" Vertically Mounted Backdraft Damper.....	439.39	33.51
23 33 13 23-0322	EA	32" x 44" Vertically Mounted Backdraft Damper.....	450.49	36.62
23 33 13 23-0323	EA	44" x 32" Vertically Mounted Backdraft Damper.....	450.49	36.62
23 33 13 23-0324	EA	36" x 40" Vertically Mounted Backdraft Damper.....	468.36	39.65
23 33 13 23-0325	EA	40" x 36" Vertically Mounted Backdraft Damper.....	450.87	45.78
23 33 13 23-0326	EA	28" x 52" Vertically Mounted Backdraft Damper.....	463.50	48.80
23 33 13 23-0327	EA	32" x 48" Vertically Mounted Backdraft Damper.....	490.07	51.82
23 33 13 23-0328	EA	48" x 32" Vertically Mounted Backdraft Damper.....	499.23	54.85
23 33 13 23-0329	EA	28" x 56" Vertically Mounted Backdraft Damper.....	515.35	57.96
23 33 13 23-0330	EA	36" x 44" Vertically Mounted Backdraft Damper.....	518.84	57.96
23 33 13 23-0331	EA	44" x 36" Vertically Mounted Backdraft Damper.....	528.00	60.98
23 33 13 23-0332	EA	40" x 40" Vertically Mounted Backdraft Damper.....	531.48	60.98
23 33 13 23-0333	EA	50" x 32" Vertically Mounted Backdraft Damper.....	412.45	21.34
23 33 13 23-0334	EA	32" x 52" Vertically Mounted Backdraft Damper.....	435.55	24.36
23 33 13 23-0335	EA	28" x 60" Vertically Mounted Backdraft Damper.....	448.17	27.46
23 33 13 23-0336	EA	36" x 48" Vertically Mounted Backdraft Damper.....	467.80	30.49
23 33 13 23-0337	EA	48" x 36" Vertically Mounted Backdraft Damper.....	476.95	33.51
23 33 13 23-0338	EA	40" x 44" Vertically Mounted Backdraft Damper.....	493.08	36.62
23 33 13 23-0339	EA	44" x 40" Vertically Mounted Backdraft Damper.....	502.24	39.65
23 33 13 23-0340	EA	32" x 56" Vertically Mounted Backdraft Damper.....	518.35	42.67
23 33 13 23-0341	EA	50" x 36" Vertically Mounted Backdraft Damper.....	485.70	45.78
23 33 13 23-0342	EA	36" x 52" Vertically Mounted Backdraft Damper.....	517.95	51.82
23 33 13 23-0343	EA	32" x 60" Vertically Mounted Backdraft Damper.....	536.39	54.85
23 33 13 23-0344	EA	40" x 48" Vertically Mounted Backdraft Damper.....	545.54	57.96
23 33 13 23-0345	EA	48" x 40" Vertically Mounted Backdraft Damper.....	545.54	57.96
23 33 13 23-0346	EA	44" x 44" Vertically Mounted Backdraft Damper.....	557.81	60.98
23 33 13 23-0347	EA	40" x 50" Vertically Mounted Backdraft Damper.....	579.35	64.00
23 33 13 23-0348	EA	50" x 40" Vertically Mounted Backdraft Damper.....	579.35	64.00
23 33 13 23-0349	EA	36" x 56" Vertically Mounted Backdraft Damper.....	454.25	21.34
23 33 13 23-0350	EA	32" x 64" Vertically Mounted Backdraft Damper.....	478.76	27.46
23 33 13 23-0351	EA	44" x 48" Vertically Mounted Backdraft Damper.....	500.31	30.49
23 33 13 23-0352	EA	48" x 44" Vertically Mounted Backdraft Damper.....	509.46	33.51
23 33 13 23-0353	EA	36" x 60" Vertically Mounted Backdraft Damper.....	527.91	36.62
23 33 13 23-0354	EA	32" x 68" Vertically Mounted Backdraft Damper.....	540.17	39.65
23 33 13 23-0355	EA	44" x 50" Vertically Mounted Backdraft Damper.....	500.75	42.67
23 33 13 23-0356	EA	50" x 44" Vertically Mounted Backdraft Damper.....	509.90	45.78
23 33 13 23-0357	EA	32" x 72" Vertically Mounted Backdraft Damper.....	536.66	48.80
23 33 13 23-0358	EA	36" x 64" Vertically Mounted Backdraft Damper.....	545.81	51.82
23 33 13 23-0359	EA	48" x 48" Vertically Mounted Backdraft Damper.....	554.97	54.85
23 33 13 23-0360	EA	48" x 50" Vertically Mounted Backdraft Damper.....	580.37	57.96
23 33 13 23-0361	EA	50" x 48" Vertically Mounted Backdraft Damper.....	589.53	60.98
23 33 13 23-0362	EA	36" x 68" Vertically Mounted Backdraft Damper.....	597.66	60.98
23 33 13 23-0363	EA	50" x 50" Vertically Mounted Backdraft Damper.....	615.63	64.00
23 33 13 23-0364	EA	36" x 72" Vertically Mounted Backdraft Damper.....	631.21	64.00

23 33 13 23-0365 Backdraft Damper Accessories (23 33 13 23)

23 33 13 23-0366	EA	For Motor Pack For Horizontally Mounted Backdraft Damper.....	164.00	19.80
23 33 13 23-0367	EA	For Motor Pack For Vertically Mounted Backdraft Damper.....	278.17	19.80



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 33 13 33 Splitter Damper Hardware (23 33 13)

23 33 13 33-0001 EA Splitter Damper, Hardware.....	28.03	6.39
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23 33 13 43 Blower Check Valve (23 33 13)

23 33 13 43-0001 Blower Check Valves With Silicone Seals (23 33 13 43)

23 33 13 43-0002 EA 2-1/2" Blower Check Valves, Silicone Seals	161.06	23.62
23 33 13 43-0003 EA 3" Blower Check Valves, Silicone Seals	180.09	26.92
23 33 13 43-0004 EA 4" Blower Check Valves, Silicone Seals	231.85	35.70
23 33 13 43-0005 EA 5" Blower Check Valves, Silicone Seals	316.56	41.21
23 33 13 43-0006 EA 6" Blower Check Valves, Silicone Seals	356.21	49.45
23 33 13 43-0007 EA 8" Blower Check Valves, Silicone Seals	525.80	62.63

23 33 13 43-0008 Blower Check Valves With Viton Seats (23 33 13 43)

23 33 13 43-0009 EA 2-1/2" Blower Check Valves, Viton Seats	218.52	23.62
23 33 13 43-0010 EA 3" Blower Check Valves, Viton Seats	248.39	26.92
23 33 13 43-0011 EA 4" Blower Check Valves, Viton Seats	279.40	35.70
23 33 13 43-0012 EA 5" Blower Check Valves, Viton Seats	387.75	41.21
23 33 13 43-0013 EA 6" Blower Check Valves, Viton Seats	434.80	49.45
23 33 13 43-0014 EA 8" Blower Check Valves, Viton Seats	664.82	62.63

23 33 19 Duct Silencers (23 33)

23 33 19 00-0001 36" Long Packaged Duct Sound Trap (23 33 19)

23 33 19 00-0002 EA 12" x 12" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	285.49	37.45
23 33 19 00-0003 EA 12" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	343.72	42.92
23 33 19 00-0004 EA 12" x 24" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	447.91	49.31
23 33 19 00-0005 EA 12" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	546.21	55.70
23 33 19 00-0006 EA 24" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	504.17	55.70
23 33 19 00-0007 EA 24" x 24" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	647.96	58.45
23 33 19 00-0008 EA 24" x 30" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	716.61	62.10
23 33 19 00-0009 EA 24" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	787.10	65.75
23 33 19 00-0010 EA 24" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,036.08	74.88
23 33 19 00-0011 EA 36" x 18" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	642.40	62.10
23 33 19 00-0012 EA 36" x 36" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	870.33	74.88
23 33 19 00-0013 EA 36" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,551.26	100.45
23 33 19 00-0014 EA 36" x 60" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,717.78	105.93
23 33 19 00-0015 EA 48" x 48" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	1,918.66	114.15
23 33 19 00-0016 EA 48" x 60" x 36" Long, Packaged Duct Sound Trap, Sound Attenuator	2,155.61	124.19

23 33 19 00-0017 60" Long Packaged Duct Sound Trap (23 33 19)

23 33 19 00-0018 EA 12" x 12" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	318.99	82.19
23 33 19 00-0019 EA 12" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	385.10	94.98
23 33 19 00-0020 EA 12" x 24" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	503.10	109.58
23 33 19 00-0021 EA 12" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	613.60	123.28
23 33 19 00-0022 EA 24" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	565.81	123.28
23 33 19 00-0023 EA 24" x 24" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	730.39	130.59
23 33 19 00-0024 EA 24" x 30" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	805.28	136.98
23 33 19 00-0025 EA 24" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	881.54	144.29
23 33 19 00-0026 EA 24" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,166.49	164.37
23 33 19 00-0027 EA 36" x 18" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	720.94	136.98
23 33 19 00-0028 EA 36" x 36" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	978.13	164.37
23 33 19 00-0029 EA 36" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,739.79	216.43
23 33 19 00-0030 EA 36" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	1,942.72	234.69
23 33 19 00-0031 EA 48" x 48" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	2,159.55	249.31
23 33 19 00-0032 EA 48" x 60" x 60" Long, Packaged Duct Sound Trap, Sound Attenuator	2,431.43	273.96

23 33 19 00-0033 84" Long Packaged Duct Sound Trap (23 33 19)

23 33 19 00-0034 EA 6" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	274.73	68.49
23 33 19 00-0035 EA 6" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	472.54	102.27
23 33 19 00-0036 EA 6" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	658.70	149.76
23 33 19 00-0037 EA 12" x 12" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	372.40	82.19
23 33 19 00-0038 EA 12" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	463.82	94.98
23 33 19 00-0039 EA 12" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	632.42	109.58
23 33 19 00-0040 EA 12" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	749.27	117.80
23 33 19 00-0041 EA 12" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	817.95	126.94
23 33 19 00-0042 EA 12" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,032.99	136.98
23 33 19 00-0043 EA 12" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,223.75	149.76
23 33 19 00-0044 EA 24" x 18" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	699.87	126.94
23 33 19 00-0045 EA 24" x 24" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,004.46	132.41
23 33 19 00-0046 EA 24" x 30" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,097.65	136.98
23 33 19 00-0047 EA 24" x 36" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,196.40	144.29
23 33 19 00-0048 EA 24" x 42" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,504.91	155.25

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 33 Air Duct Accessories**

SAN BERNARDINO
COUNTY

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 19 00-0049	EA	24" x 48" x 84" Long, Packaged Duct Sound Trap, Sound Attenuator	1,633.15	164.37
23 33 23 Turning Vanes (23 33)				
23 33 23 00-0001 Duct Turning Vane Components (23 33 23)				
23 33 23 00-0002	LF	Duct Turning Vane Rail	6.51	2.28
		<i>For Stainless Steel, Add</i>	2.30	
23 33 23 00-0003	LF	Double Thick Factory Fabricated, Duct Turning Vane	4.56	0.92
		<i>For Stainless Steel, Add</i>	3.47	
23 33 23 00-0004 Duct Turning Vane Sets (23 33 23)				
		Note: Measured from inside corner to outside corner of ductwork.		
23 33 23 00-0005	LF	12" High Duct Turning Vanes, Sets	16.52	3.42
		<i>For Stainless Steel, Add</i>	15.91	
23 33 23 00-0006	LF	14" High Duct Turning Vanes, Sets	20.06	3.65
		<i>For Stainless Steel, Add</i>	20.14	
23 33 23 00-0007	LF	16" High Duct Turning Vanes, Sets	26.51	3.83
		<i>For Stainless Steel, Add</i>	28.18	
23 33 23 00-0008	LF	18" High Duct Turning Vanes, Sets	33.01	4.11
		<i>For Stainless Steel, Add</i>	36.24	
23 33 23 00-0009	LF	20" High Duct Turning Vanes, Sets	36.45	4.39
		<i>For Stainless Steel, Add</i>	40.27	
23 33 23 00-0010	LF	22" High Duct Turning Vanes, Sets	45.40	4.11
		<i>For Stainless Steel, Add</i>	52.35	
23 33 23 00-0011	LF	24" High Duct Turning Vanes, Sets	55.66	4.84
		<i>For Stainless Steel, Add</i>	64.44	
23 33 23 00-0012	LF	26" High Duct Turning Vanes, Sets	59.62	5.06
		<i>For Stainless Steel, Add</i>	69.29	
23 33 23 00-0013	LF	30" High Duct Turning Vanes, Sets	66.26	5.26
		<i>For Stainless Steel, Add</i>	77.60	
23 33 33 Duct-Mounting Access Doors (23 33)				
23 33 33 00-0001 Duct Access Doors, Insulated Factory Fabrication (23 33 33)				
23 33 33 00-0002	EA	6" x 6" Duct Access Doors Insulated Factory Fabrication	80.92	12.78
		<i>For Stainless Steel, Add</i>	59.12	
23 33 33 00-0003	EA	10" x 10" Duct Access Doors Insulated Factory Fabrication	87.13	12.78
		<i>For Stainless Steel, Add</i>	71.54	
23 33 33 00-0004	EA	12" x 12" Duct Access Doors Insulated Factory Fabrication	90.17	12.78
		<i>For Stainless Steel, Add</i>	77.62	
23 33 33 00-0005	EA	12" x 18" Duct Access Doors Insulated Factory Fabrication	117.94	15.53
		<i>For Stainless Steel, Add</i>	109.44	
23 33 33 00-0006	EA	16" x 12" Duct Access Doors Insulated Factory Fabrication	119.17	15.53
		<i>For Stainless Steel, Add</i>	111.90	
23 33 33 00-0007	EA	18" x 18" Duct Access Doors Insulated Factory Fabrication	146.58	21.00
		<i>For Stainless Steel, Add</i>	128.78	
23 33 33 00-0008	EA	24" x 18" Duct Access Doors Insulated Factory Fabrication	172.08	25.57
		<i>For Stainless Steel, Add</i>	138.68	
23 33 33 00-0009	EA	24" x 24" Duct Access Doors Insulated Factory Fabrication	222.12	34.70
		<i>For Stainless Steel, Add</i>	170.28	
23 33 43 Flexible Connectors (23 33)				
23 33 43 00-0001	LF	6-1/2" Width, Galvanized Steel, Flexible Duct Connector	11.37	2.74
23 33 43 00-0002	LF	5-3/4" Width, Vinyl/Steel, Flexible Duct Connector	11.48	2.47
23 33 46 Flexible Ducts (23 33)				
23 33 46 00-0001 Flexible Duct, R8.0 Insulated With Metallized Outer Jacket (23 33 46)				
		Note: Polyester inner liner encapsulating a corrosion resistant steel wire helix, supporting a blanket of fiberglass insulation over a fiberglass scrim and a bi-directional reinforced metallized outer vapor barrier jacket.		
23 33 46 00-0002	LF	4" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	5.28	0.92
23 33 46 00-0003	LF	5" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	5.89	1.82
23 33 46 00-0004	LF	6" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	6.74	1.82
23 33 46 00-0005	LF	7" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	7.86	1.82
23 33 46 00-0006	LF	8" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	9.43	2.74
23 33 46 00-0007	LF	10" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	12.13	2.74
23 33 46 00-0008	LF	12" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	16.54	3.65
23 33 46 00-0009	LF	14" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	20.62	3.65
23 33 46 00-0010	LF	16" Diameter Flexible Duct, R8.0 Insulated With Polyester Inner Liner And Metallized Outer Jacket	27.20	4.57
23 33 46 00-0011 Collars, Sheet Metal Spin-In Type With Damper (23 33 46)				
23 33 46 00-0012	EA	Up To 4" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	35.75	5.47
		<i>For Stainless Steel, Add</i>	19.76	
23 33 46 00-0013	EA	5" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	38.88	6.39
		<i>For Stainless Steel, Add</i>	20.02	
23 33 46 00-0014	EA	6" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper	44.37	6.39
		<i>For Stainless Steel, Add</i>	22.07	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 33 46 00-0015 EA 7" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	50.40 22.78	8.22
23 33 46 00-0016 EA 8" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	60.89 25.73	10.04
23 33 46 00-0017 EA 10" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	71.36 31.72	11.87
23 33 46 00-0018 EA 12" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	81.08 34.18	13.70
23 33 46 00-0019 EA 14" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	95.93 42.80	15.53
23 33 46 00-0020 EA 16" Diameter Flexible Duct Collar, Spin In Type, Sheet Metal, With Damper <i>For Stainless Steel, Add</i>	104.51 46.83	17.35
23 33 53 Duct Liners (23 33)		
23 33 53 00-0001 Fiberglass Duct Liner Board, Rigid, Acoustical Insulation (23 33 53)		
23 33 53 00-0002 SF 1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	9.31	2.46
23 33 53 00-0003 SF 3/4" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	10.17	2.46
23 33 53 00-0004 SF 1" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	11.29	3.27
23 33 53 00-0005 SF 1-1/2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	13.84	3.27
23 33 53 00-0006 SF 2" Field Installed, 3 LB/CF, Fiberglass Duct Liner Board	16.71	3.68
23 33 53 00-0007 SF 1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	9.08	2.74
23 33 53 00-0008 SF 3/4" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	9.93	2.74
23 33 53 00-0009 SF 1" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	11.06	3.65
23 33 53 00-0010 SF 1-1/2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	13.48	3.65
23 33 53 00-0011 SF 2" Shop Installed, 3 LB/CF, Fiberglass Duct Liner Board	16.33	4.11
23 33 53 00-0012 Fiberglass Duct Liner Blanket, Flexible, Acoustical Insulation (23 33 53)		
23 33 53 00-0013 SF 1/2", R2, 2 LB/CF, T200, Fiberglass Duct Liner Blanket	1.98	2.19
23 33 53 00-0014 SF 1", R3.8, 1.5 LB/CF, T150, Fiberglass Duct Liner Blanket	3.97	2.47
23 33 53 00-0015 SF 1", R4.1, 2 LB/CF, T200, Fiberglass Duct Liner Blanket	2.90	2.47
23 33 53 00-0016 SF 1", R4.3, 3 LB/CF, T300, Fiberglass Duct Liner Blanket	3.77	2.47
23 33 53 00-0017 SF 1-1/2", T150, 1.5 LB/CF, Fiberglass Duct Liner Blanket	3.12	2.74
23 33 53 00-0018 SF 2", R7.7, 1.5 LB/CF, T150 Fiberglass Duct Liner Blanket	3.31	3.01
23 33 53 00-0019 SF 2", R8, 2 LB/CF, T200 Fiberglass Duct Liner Blanket	5.19	3.01
23 33 56 Duct Air Extractors (23 33)		
23 33 56 00-0001 EA 12" x 4" Duct Air Extractor <i>For Stainless Steel, Add</i>	41.13 14.29	15.06
23 33 56 00-0002 EA 8" x 6" Duct Air Extractor <i>For Stainless Steel, Add</i>	43.87 14.29	16.43
23 33 56 00-0003 EA 12" x 6" Duct Air Extractor <i>For Stainless Steel, Add</i>	49.91 19.77	17.35
23 33 56 00-0004 EA 16" x 6" Duct Air Extractor <i>For Stainless Steel, Add</i>	55.83 25.09	18.26
23 33 56 00-0005 EA 24" x 6" Duct Air Extractor <i>For Stainless Steel, Add</i>	72.04 41.42	20.09
23 33 56 00-0006 EA 12" x 8" Duct Air Extractor <i>For Stainless Steel, Add</i>	53.58 22.17	18.26
23 33 56 00-0007 EA 20" x 8" Duct Air Extractor <i>For Stainless Steel, Add</i>	70.34 32.08	22.83
23 33 56 00-0008 EA 18" x 10" Duct Air Extractor <i>For Stainless Steel, Add</i>	76.28 31.50	26.02
23 33 56 00-0009 EA 24" x 10" Duct Air Extractor <i>For Stainless Steel, Add</i>	92.59 40.83	30.58
23 33 56 00-0010 EA 24" x 12" Duct Air Extractor <i>For Stainless Steel, Add</i>	106.72 43.76	36.53
23 33 56 00-0011 EA 30" x 12" Duct Air Extractor <i>For Stainless Steel, Add</i>	133.50 54.83	45.66
23 33 59 Duct Pressure Relief Doors (23 33)		
23 33 59 00-0001 Duct Pressure Relief Doors (23 33 59)		
23 33 59 00-0002 EA 18" x 18" Duct Pressure Relief Door (Ruskin PRD18)	738.94	27.39
23 33 59 00-0003 EA 24" x 10" Duct Pressure Relief Door (Ruskin PRD18)	607.39	22.83
23 33 59 00-0004 EA 24" x 12" Duct Pressure Relief Door (Ruskin PRD18)	603.93	25.12
23 34 HVAC Fans (23 34)		
23 34 13 Axial HVAC Fans (23 34)		
23 34 13 00-0001 Tube-Axial Fans (23 34 13)		
23 34 13 00-0002 Direct Drive Tube-Axial Duct Fans (23 34 13 00-0001)		
23 34 13 00-0003 EA 12" Direct Drive Axial Flow Fan, 1/6 HP 1,060 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,227.20 53.20 106.39 146.29	280.83

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 34 HVAC Fans



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 13 00-0004	EA		12" Direct Drive Axial Flow Fan, 1/2 HP 2,095 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,274.69 57.00 113.99 156.74	281.68
23 34 13 00-0005	EA		16" Direct Drive Axial Flow Fan, 1/3 HP 2,490 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,369.69 64.60 129.19 177.64	280.83
23 34 13 00-0006	EA		20" Direct Drive Axial Flow Fan, 3/4 HP 4,130 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,464.68 72.20 144.39 198.54	281.68
23 34 13 00-0007	EA		22" Direct Drive Axial Flow Fan, 3/4 HP 4,700 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,719.61 83.59 167.19 229.88	337.35
23 34 13 00-0008	EA		24" Direct Drive Axial Flow Fan, 1 HP 5,850 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,968.27 98.79 197.59 271.68	366.86
23 34 13 00-0009	EA		24" Direct Drive Axial Flow Fan, 1-1/2 HP 7,925 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	2,085.62 102.59 205.19 282.13	401.44
23 34 13 00-0010	EA		30" Direct Drive Axial Flow Fan, 1 HP 10,640 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	2,363.25 121.59 243.18 334.38	421.68
23 34 13 00-0011	EA		30" Direct Drive Axial Flow Fan, 2-1/2 HP 14,765 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	2,859.08 144.39 288.78 397.07	527.10
23 34 13 00-0012	EA		36" Direct Drive Axial Flow Fan, 2 HP 16,780 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	3,214.34 167.19 334.38 459.77	562.52
23 34 13 00-0013	EA		36" Direct Drive Axial Flow Fan, 5 HP 22,920 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	3,767.31 197.59 395.17 543.36	648.54
23 34 13 00-0014			Belt Drive Tube-Axial Duct Fans <small>(23 34 13 00-0001)</small>		
23 34 13 00-0015	EA		15" Belt Drive Axial Flow Fan, 1/3 HP 2,800 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,166.19 49.77 99.53 136.86	272.41
23 34 13 00-0016	EA		15" Belt Drive Axial Flow Fan, 1/2 HP 3,400 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,233.44 53.70 107.39 147.66	281.68
23 34 13 00-0017	EA		18" Belt Drive Axial Flow Fan, 1/3 HP 3,280 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,274.66 55.44 110.88 152.47	290.96
23 34 13 00-0018	EA		18" Belt Drive Axial Flow Fan, 1/2 HP 3,900 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,346.35 59.52 119.03 163.67	301.08
23 34 13 00-0019	EA		18" Belt Drive Axial Flow Fan, 1 HP 5,250 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,506.92 70.58 141.15 194.09	312.88
23 34 13 00-0020	EA		24" Belt Drive Axial Flow Fan, 1/2 HP 4,800 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,587.33 75.09 150.17 206.49	324.69
23 34 13 00-0021	EA		24" Belt Drive Axial Flow Fan, 1 HP 6,430 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,766.07 87.31 174.62 240.11	337.35
23 34 13 00-0022	EA		24" Belt Drive Axial Flow Fan, 2 HP 8,860 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	1,973.96 104.03 208.06 286.08	337.35
23 34 13 00-0023	EA		30" Belt Drive Axial Flow Fan, 1 HP 9,250 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	2,278.21 123.69 247.38 340.15	366.86
23 34 13 00-0024	EA		30" Belt Drive Axial Flow Fan, 5 HP 16,900 CFM Constant Speed, 1/8" Static Pressure <i>For 1/4" Static Pressure, Add</i> <i>For 3/8" Static Pressure, Add</i> <i>For 1/2" Static Pressure, Add</i>	2,704.86 145.52 291.04 400.18	444.45



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 13 00-0025	EA		30" Belt Drive Axial Flow Fan, 5 HP 16,150 CFM Constant Speed, 1/8" Static Pressure For 1/4" Static Pressure, Add For 3/8" Static Pressure, Add For 1/2" Static Pressure, Add	3,056.88 173.38 346.76 476.80	444.45
23 34 13 00-0026	EA		36" Belt Drive Axial Flow Fan, 3/4 HP 8,090 CFM Constant Speed, 1/8" Static Pressure For 1/4" Static Pressure, Add For 3/8" Static Pressure, Add For 1/2" Static Pressure, Add	3,356.96 193.59 387.18 532.38	468.90
23 34 13 00-0027	EA		36" Belt Drive Axial Flow Fan, 2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure For 1/4" Static Pressure, Add For 3/8" Static Pressure, Add For 1/2" Static Pressure, Add	3,660.09 213.62 427.24 587.45	495.89
23 34 13 00-0028	EA		36" Belt Drive Axial Flow Fan, 7-1/2 HP 14,475 CFM Constant Speed, 1/8" Static Pressure For 1/4" Static Pressure, Add For 3/8" Static Pressure, Add For 1/2" Static Pressure, Add	4,203.87 232.83 465.66 640.28	648.54
23 34 13 00-0029	EA		36" Belt Drive Axial Flow Fan, 5 HP 20,080 CFM Constant Speed, 1/8" Static Pressure For 1/4" Static Pressure, Add For 3/8" Static Pressure, Add For 1/2" Static Pressure, Add	4,761.12 277.41 554.82 762.88	649.38
23 34 13 00-0030	EA		42" Belt Drive Axial Flow Fan, 7-1/2 HP 29,000 CFM Constant Speed, 1/8" Static Pressure For 1/4" Static Pressure, Add For 3/8" Static Pressure, Add For 1/2" Static Pressure, Add	5,391.45 309.09 618.18 850.00	766.44
23 34 16 Centrifugal HVAC Fans (23 34)					
23 34 16 00-0001	Centrifugal Fans (23 34 16) Note: All belt fans to be supplied with belt guard.				
23 34 16 00-0002	Utility Backward Inclined Steel Wheel Centrifugal Fans (23 34 16 00-0001) Note: V-belt driven.				
23 34 16 00-0003	Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002) Note: Under 30" diameter wheel.				
23 34 16 00-0004	12-1/4" Diameter Wheel 650 To 2,950 CFM At 1/8" Static Pressure (23 34 16 00-0003)				
23 34 16 00-0005	EA		1/6 HP Centrifugal Fan, 12-1/4" Wheel, 450 - 1,750 CFM At 1/8" Static Pressure	976.07	185.28
23 34 16 00-0006	EA		1/4 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	1,403.88	192.29
23 34 16 00-0007	EA		1/3 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	1,444.32	153.24
23 34 16 00-0008	EA		1/2 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	1,508.40	210.00
23 34 16 00-0009	EA		3/4 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	1,544.99	222.65
23 34 16 00-0010	EA		1 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	1,594.30	231.92
23 34 16 00-0011	EA		1-1/2 HP Centrifugal Fan, 12-1/4" Wheel, 650 - 2,950 CFM At 1/8" Static Pressure	1,643.64	247.10
23 34 16 00-0012	13-1/2" Diameter Wheel 734 To 3,343 CFM At 1/8" Static Pressure (23 34 16 00-0003)				
23 34 16 00-0013	EA		1/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,619.60	202.41
23 34 16 00-0014	EA		1/3 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,648.68	210.00
23 34 16 00-0015	EA		1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,702.79	222.65
23 34 16 00-0016	EA		3/4 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,734.35	231.92
23 34 16 00-0017	EA		1 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,792.79	247.10
23 34 16 00-0018	EA		1-1/2 HP Centrifugal Fan, 13-1/2" Wheel, 734 - 3,343 CFM At 1/8" Static Pressure	1,851.07	258.91
23 34 16 00-0019	15" Diameter Wheel 1,258 To 4,146 CFM At 1/8" Static Pressure (23 34 16 00-0003)				
23 34 16 00-0020	EA		1/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,631.18	210.00
23 34 16 00-0021	EA		1/3 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,667.78	222.65
23 34 16 00-0022	EA		1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,716.84	231.92
23 34 16 00-0023	EA		3/4 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,757.77	247.10
23 34 16 00-0024	EA		1 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,810.23	258.91
23 34 16 00-0025	EA		1-1/2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,883.40	278.31
23 34 16 00-0026	EA		2 HP Centrifugal Fan, 15" Wheel, 1,258 - 4,146 CFM At 1/8" Static Pressure	1,940.60	292.64
23 34 16 00-0027	16-1/2" Diameter Wheel 977 To 4,711 CFM At 1/8" Static Pressure (23 34 16 00-0003)				
23 34 16 00-0028	EA		1/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	1,869.10	222.65
23 34 16 00-0029	EA		1/3 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	1,936.34	231.92
23 34 16 00-0030	EA		1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,010.53	247.10
23 34 16 00-0031	EA		3/4 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,049.40	258.91
23 34 16 00-0032	EA		1 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,100.24	278.31
23 34 16 00-0033	EA		1-1/2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,143.85	292.64
23 34 16 00-0034	EA		2 HP Centrifugal Fan, 16-1/2" Wheel, 977 - 4,711 CFM At 1/8" Static Pressure	2,381.29	317.95
23 34 16 00-0035	18-1/4" Diameter Wheel 2,193 To 6,498 CFM At 1/8" Static Pressure (23 34 16 00-0003)				
23 34 16 00-0036	EA		1/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	1,931.29	231.92
23 34 16 00-0037	EA		1/3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	1,976.58	247.10
23 34 16 00-0038	EA		1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,037.80	258.91
23 34 16 00-0039	EA		3/4 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,084.73	278.31
23 34 16 00-0040	EA		1 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,150.67	292.64

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0041 EA 1-1/2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure	2,250.00	317.95
23 34 16 00-0042 EA 2 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure.....	2,314.21	337.35
23 34 16 00-0043 EA 3 HP Centrifugal Fan, 18-1/4" Wheel, 2,193 - 6,498 CFM At 1/8" Static Pressure.....	2,409.59	371.08
23 34 16 00-0044 20" Diameter Wheel 2,412 To 7,364 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0045 EA 1/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	1,950.33	247.10
23 34 16 00-0046 EA 1/3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,011.53	258.91
23 34 16 00-0047 EA 1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,084.73	278.31
23 34 16 00-0048 EA 3/4 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,150.67	292.64
23 34 16 00-0049 EA 1 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,276.25	317.95
23 34 16 00-0050 EA 1-1/2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,452.99	337.35
23 34 16 00-0051 EA 2 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,575.40	371.08
23 34 16 00-0052 EA 3 HP Centrifugal Fan, 20" Wheel, 2,412 - 7,364 CFM At 1/8" Static Pressure.....	2,703.08	397.22
23 34 16 00-0053 22-1/4" Diameter Wheel 2,265 To 8,483 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0054 EA 1/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure.....	2,347.06	258.91
23 34 16 00-0055 EA 1/3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure.....	2,389.88	278.31
23 34 16 00-0056 EA 1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure.....	2,449.72	292.64
23 34 16 00-0057 EA 3/4 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure.....	2,524.25	317.95
23 34 16 00-0058 EA 1 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure.....	2,624.19	337.35
23 34 16 00-0059 EA 1-1/2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure.....	2,655.62	371.08
23 34 16 00-0060 EA 2 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure.....	2,720.59	397.22
23 34 16 00-0061 EA 3 HP Centrifugal Fan, 22-1/4" Wheel, 2,265 - 8,483 CFM At 1/8" Static Pressure.....	2,836.63	445.29
23 34 16 00-0062 24-1/2" Diameter Wheel 3,055 To 11,380 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0063 EA 1/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure.....	2,825.80	278.31
23 34 16 00-0064 EA 1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure.....	2,915.21	317.95
23 34 16 00-0065 EA 3/4 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure.....	3,005.68	337.35
23 34 16 00-0066 EA 1 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure.....	3,100.57	371.08
23 34 16 00-0067 EA 1-1/2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure.....	3,184.48	397.22
23 34 16 00-0068 EA 2 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure.....	3,256.77	445.29
23 34 16 00-0069 EA 3 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure.....	3,359.21	484.08
23 34 16 00-0070 EA 5 HP Centrifugal Fan, 24-1/2" Wheel, 3,055 - 11,380 CFM At 1/8" Static Pressure.....	3,600.50	556.61
23 34 16 00-0071 27" Diameter Wheel 2,734 To 13,266 CFM At 1/8" Static Pressure (23 34 16 00-0003)		
23 34 16 00-0072 EA 1/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,132.45	292.64
23 34 16 00-0073 EA 1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,224.51	337.35
23 34 16 00-0074 EA 3/4 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,319.39	371.08
23 34 16 00-0075 EA 1 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,403.31	397.22
23 34 16 00-0076 EA 1-1/2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,519.36	445.29
23 34 16 00-0077 EA 2 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,621.53	484.08
23 34 16 00-0078 EA 3 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,881.42	556.61
23 34 16 00-0079 EA 5 HP Centrifugal Fan, 27" Wheel, 2,734 - 13,266 CFM At 1/8" Static Pressure.....	3,913.04	618.18
23 34 16 00-0080 Large Industrial Type Utility Backward Centrifugal Fans (23 34 16 00-0002)		
Note: Over 30" diameter wheel.		
23 34 16 00-0081 30" Diameter Wheel 4,926 To 17,456 CFM At 1/8" Static Pressure (23 34 16 00-0000)		
23 34 16 00-0082 EA 1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	4,391.62	371.08
23 34 16 00-0083 EA 3/4 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	4,472.10	397.22
23 34 16 00-0084 EA 1 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	4,595.97	445.29
23 34 16 00-0085 EA 1-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	4,706.88	484.08
23 34 16 00-0086 EA 2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	4,869.67	556.61
23 34 16 00-0087 EA 3 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	5,015.89	618.18
23 34 16 00-0088 EA 5 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	5,255.84	742.16
23 34 16 00-0089 EA 7-1/2 HP Centrifugal Fan, 30" Wheel, 4,926 - 17,456 CFM At 1/8" Static Pressure.....	5,477.37	856.01
23 34 16 00-0090 33" Diameter Wheel 5,734 To 19,799 CFM At 1/8" Static Pressure (23 34 16 00-0000)		
23 34 16 00-0091 EA 1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	5,153.89	397.22
23 34 16 00-0092 EA 3/4 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	5,313.70	445.29
23 34 16 00-0093 EA 1 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	5,459.90	484.08
23 34 16 00-0094 EA 1-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	5,657.44	556.61
23 34 16 00-0095 EA 2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	5,838.68	618.18
23 34 16 00-0096 EA 3 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	6,113.62	742.16
23 34 16 00-0097 EA 5 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	6,422.49	856.01
23 34 16 00-0098 EA 7-1/2 HP Centrifugal Fan, 33" Wheel, 5,734 - 19,799 CFM At 1/8" Static Pressure.....	6,850.91	1,113.23
23 34 16 00-0099 36-1/2" Diameter Wheel 5,388 To 22,500 CFM At 1/8" Static Pressure (23 34 16 00-0000)		
23 34 16 00-0100 EA 1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure.....	4,261.15	445.29
23 34 16 00-0101 EA 3/4 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure.....	4,319.82	484.08
23 34 16 00-0102 EA 1 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure.....	4,429.82	556.61
23 34 16 00-0103 EA 1-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure.....	4,541.17	618.18



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0104 EA 2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,158.31	742.16
23 34 16 00-0105 EA 3 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,405.65	856.01
23 34 16 00-0106 EA 5 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	5,871.77	1,113.23
23 34 16 00-0107 EA 7-1/2 HP Centrifugal Fan, 36-1/2" Wheel, 5,388 - 22,500 CFM At 1/8" Static Pressure	6,370.32	1,391.54
23 34 16 00-0108 Kitchen System Fans (23 34 16 00-0001)		
23 34 16 00-0109 Upblast Kitchen Exhaust Fans (23 34 16 00-0108)		
23 34 16 00-0110 Direct Drive Kitchen Upblast Exhaust Fans (23 34 16 00-0109)		
Note: Greenheck CUE.		
23 34 16 00-0111 EA Up To 12" Wheel Diameter, 1/6 HP Direct Drive, Kitchen Upblast Exhaust Fan	935.81	109.63
Note: 115V. For roof or wall installations. Includes disconnect switch.		
For Bird Screen, Add	40.60	
For Backdraft Damper, Add	103.51	
For Damper Motor, Add	166.57	
23 34 16 00-0112 EA 14" Wheel Diameter, 1/4 HP Direct Drive, Kitchen Upblast Exhaust Fan	1,097.09	109.63
Note: 115V. For roof or wall installations. Includes disconnect switch.		
For Bird Screen, Add	40.60	
For Backdraft Damper, Add	103.51	
For Damper Motor, Add	166.57	
23 34 16 00-0113 Belt Drive Kitchen Upblast Exhaust Fans (23 34 16 00-0108)		
Note: Greenheck CUBE.		
23 34 16 00-0114 EA 10" Diameter Wheel, Up To 1/3 HP, 1,458 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,606.58	109.63
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	40.60	
For Wall Mounted Fan, Add	64.26	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	117.92	
For Backdraft Damper, Add	103.51	
For Damper Motor, Add	166.57	
23 34 16 00-0115 EA 12" Diameter Wheel, 1/2 HP, 1,923 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,676.58	109.63
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	40.60	
For Wall Mounted Fan, Add	67.06	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	123.87	
For Backdraft Damper, Add	103.51	
For Damper Motor, Add	166.57	
23 34 16 00-0116 EA 14" Diameter Wheel, 1/3 HP, 2,006 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,440.13	126.50
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	46.20	
For Wall Mounted Fan, Add	57.61	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	100.91	
For Backdraft Damper, Add	117.47	
For Damper Motor, Add	166.57	
23 34 16 00-0117 EA 14" Diameter Wheel, 1 HP, 2,757 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,540.92	126.50
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	46.20	
For Wall Mounted Fan, Add	61.64	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	109.47	
For Backdraft Damper, Add	117.47	
For Damper Motor, Add	166.57	
23 34 16 00-0118 EA 16" Diameter Wheel, 1/2 HP, 2,940 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	1,958.26	147.58
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	46.20	
For Wall Mounted Fan, Add	78.33	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	141.36	
For Backdraft Damper, Add	117.47	
For Damper Motor, Add	166.57	
23 34 16 00-0119 EA 16" Diameter Wheel, 1 HP, 3,129 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan	2,066.05	147.58
Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.		
For Bird Screen, Add	46.20	
For Wall Mounted Fan, Add	82.64	
For 3 Phase Motor, Deduct	-50.00	
For Totally Enclosed Motor, Add	85.00	
For Grease Trap Kit, Add	76.41	
For Hinged Curb Kit, Add	150.52	
For Backdraft Damper, Add	117.47	
For Damper Motor, Add	166.57	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 34 HVAC Fans



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0120	EA	18" Diameter Wheel, 1/2 HP , 3,243 CFM At 1/4" Static Pressure. Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.	2,250.92	158.13
		<i>For Bird Screen, Add</i>	76.99	
		<i>For Wall Mounted Fan, Add</i>	90.04	
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
		<i>For Grease Trap Kit, Add</i>	76.41	
		<i>For Hinged Curb Kit, Add</i>	164.45	
		<i>For Backdraft Damper, Add</i>	146.04	
		<i>For Damper Motor, Add</i>	166.57	
23 34 16 00-0121	EA	18" Diameter Wheel, 1 HP , 4,223 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.	2,418.91	158.13
		<i>For Bird Screen, Add</i>	76.99	
		<i>For Wall Mounted Fan, Add</i>	96.76	
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
		<i>For Grease Trap Kit, Add</i>	76.41	
		<i>For Hinged Curb Kit, Add</i>	178.73	
		<i>For Backdraft Damper, Add</i>	146.04	
		<i>For Damper Motor, Add</i>	166.57	
23 34 16 00-0122	EA	20" Diameter Wheel, 3/4 HP, 4,438 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.	2,459.60	168.67
		<i>For Bird Screen, Add</i>	76.99	
		<i>For Wall Mounted Fan, Add</i>	98.38	
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
		<i>For Grease Trap Kit, Add</i>	76.41	
		<i>For Hinged Curb Kit, Add</i>	180.39	
		<i>For Backdraft Damper, Add</i>	146.04	
		<i>For Damper Motor, Add</i>	166.57	
23 34 16 00-0123	EA	20" Diameter Wheel, 2 HP, 6,450 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.	2,696.18	168.67
		<i>For Bird Screen, Add</i>	76.99	
		<i>For Wall Mounted Fan, Add</i>	107.85	
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
		<i>For Grease Trap Kit, Add</i>	76.41	
		<i>For Hinged Curb Kit, Add</i>	200.50	
		<i>For Backdraft Damper, Add</i>	146.04	
		<i>For Damper Motor, Add</i>	166.57	
23 34 16 00-0124	EA	24" Diameter Wheel, 3/4 HP, 5,460 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.	3,105.12	189.75
		<i>For Bird Screen, Add</i>	90.99	
		<i>For Wall Mounted Fan, Add</i>	124.20	
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
		<i>For Grease Trap Kit, Add</i>	76.41	
		<i>For Hinged Curb Kit, Add</i>	231.68	
		<i>For Backdraft Damper, Add</i>	158.37	
		<i>For Damper Motor, Add</i>	166.57	
23 34 16 00-0125	EA	24" Diameter Wheel, 2 HP, 7,985 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/1. Includes heat baffle, grease baffle and disconnect switch.	3,322.10	189.75
		<i>For Bird Screen, Add</i>	90.99	
		<i>For Wall Mounted Fan, Add</i>	132.88	
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
		<i>For Grease Trap Kit, Add</i>	76.41	
		<i>For Hinged Curb Kit, Add</i>	250.12	
		<i>For Backdraft Damper, Add</i>	158.37	
		<i>For Damper Motor, Add</i>	166.57	
23 34 16 00-0126	EA	30" Diameter Wheel, 3/4 HP, 7,771 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.	3,936.83	210.84
		<i>For Bird Screen, Add</i>	97.99	
		<i>For Wall Mounted Fan, Add</i>	157.47	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
		<i>For Grease Trap Kit, Add</i>	76.41	
		<i>For Hinged Curb Kit, Add</i>	298.79	
		<i>For Backdraft Damper, Add</i>	175.56	
		<i>For Damper Motor, Add</i>	166.57	
23 34 16 00-0127	EA	30" Diameter Wheel, 2 HP, 10,192 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.	4,008.22	210.84
		<i>For Bird Screen, Add</i>	97.99	
		<i>For Wall Mounted Fan, Add</i>	160.33	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
		<i>For Grease Trap Kit, Add</i>	76.41	
		<i>For Hinged Curb Kit, Add</i>	304.86	
		<i>For Backdraft Damper, Add</i>	175.56	
		<i>For Damper Motor, Add</i>	166.57	
23 34 16 00-0128	EA	30" Diameter Wheel, 3 HP, 11,903 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.	4,370.80	210.84
		<i>For Bird Screen, Add</i>	97.99	
		<i>For Wall Mounted Fan, Add</i>	174.83	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
		<i>For Grease Trap Kit, Add</i>	76.41	
		<i>For Hinged Curb Kit, Add</i>	335.68	
		<i>For Backdraft Damper, Add</i>	175.56	
		<i>For Damper Motor, Add</i>	166.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0129 EA 30" Diameter Wheel, 5 HP, 14,266 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....4,545.79	4,545.79	210.84
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	97.99	
<i>For Wall Mounted Fan, Add</i>	181.83	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	350.55	
<i>For Backdraft Damper, Add</i>	175.56	
<i>For Damper Motor, Add</i>	166.57	
23 34 16 00-0130 EA 36" Diameter Wheel, 3 HP , 14,769 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....5,005.34	5,005.34	231.92
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	111.99	
<i>For Wall Mounted Fan, Add</i>	200.21	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	366.03	
<i>For Damper Motor, Add</i>	166.57	
<i>For Backdraft Damper, Add</i>	205.97	
23 34 16 00-0131 EA 36" Diameter Wheel, 5 HP , 17,884 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....5,206.57	5,206.57	231.92
Note: 115/208-230/60/3. Includes heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	111.99	
<i>For Wall Mounted Fan, Add</i>	208.26	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	403.13	
<i>For Damper Motor, Add</i>	166.57	
<i>For Backdraft Damper, Add</i>	205.97	
23 34 16 00-0132 EA 42" Diameter Wheel, 3 HP , 17,316 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....5,254.37	5,254.37	253.01
Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	111.99	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	403.61	
<i>For Damper Motor, Add</i>	166.57	
<i>For Backdraft Damper, Add</i>	238.65	
23 34 16 00-0133 EA 42" Diameter Wheel, 7-1/2 HP , 24,604 CFM At 1/4" Static Pressure, Belt Drive, Kitchen Upblast Exhaust Fan .....5,696.18	5,696.18	253.01
Note: 230/460/60/3. Includes birdscreen, heat baffle, grease baffle and disconnect switch.		
<i>For Bird Screen, Add</i>	111.99	
<i>For Totally Enclosed Motor, Add</i>	85.00	
<i>For Grease Trap Kit, Add</i>	76.41	
<i>For Hinged Curb Kit, Add</i>	441.17	
<i>For Damper Motor, Add</i>	166.57	
<i>For Backdraft Damper, Add</i>	238.65	
23 34 16 00-0134 Untempered Kitchen Make-Up Air Fans (23 34 16 00-0108)		
Note: Roof mounted with downblast discharge, weatherhood and filter.		
23 34 16 00-0135 Direct Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)		
23 34 16 00-0136 EA 7" Diameter Wheel, 1/2 HP Direct Drive, Kitchen Make-Up Air Fan.....1,084.69	1,084.69	109.63
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	184.61	
23 34 16 00-0137 EA 8" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan.....1,139.48	1,139.48	109.63
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	192.83	
23 34 16 00-0138 EA 9" Diameter Wheel, 1 HP Direct Drive, Kitchen Make-Up Air Fan.....1,206.72	1,206.72	109.63
Note: 115V. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	202.91	
23 34 16 00-0139 Belt Drive Kitchen Make-Up Air Fans (23 34 16 00-0134)		
23 34 16 00-0140 EA 9" Diameter Wheel, 1/2 HP Belt Drive, Kitchen Make-Up Air Fan.....1,232.80	1,232.80	109.63
Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	206.83	
23 34 16 00-0141 EA 10" Diameter Wheel, 1-1/2 HP Belt Drive, Kitchen Make-Up Air Fan.....1,383.42	1,383.42	147.58
Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	237.03	
23 34 16 00-0142 EA 12" Diameter Wheel, 2 HP Belt Drive, Kitchen Make-Up Air Fan.....1,667.25	1,667.25	168.67
Note: 115/208-230/60/1. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	283.82	
23 34 16 00-0143 EA 15" Diameter Wheel, 3 HP Belt Drive, Kitchen Make-Up Air Fan.....1,933.57	1,933.57	210.84
Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	332.20	
23 34 16 00-0144 EA 18" Diameter Wheel, 5 HP Belt Drive, Kitchen Make-Up Air Fan.....2,339.84	2,339.84	253.01
Note: 230/460/60/3. For roof installations. Includes downblast discharge, weatherhood, filter and disconnect switch.		
<i>For Extended Weatherhood, Add</i>	401.57	
23 34 16 00-0145 Replacement Parts (23 34 16 00-0001)		
23 34 16 00-0146 Replace Belts And Accessories (23 34 16 00-0145)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 34 HVAC Fans



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0147	EA	Fan Shaft Bearing, Replacement	689.15	316.95
23 34 16 00-0148	EA	Fan Belt, Replacement.....	108.12	42.98
23 34 16 00-0149		Corrosive Fume Resistant Plastic (23 34 16 00-0001)		
23 34 16 00-0150		Centrifugal Roof Ventilators, Belt Drive, 1/4" Static Pressure (23 34 16 00-0149)		
23 34 16 00-0151	EA	250 CFM, 1/4 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic	3,688.58	152.04
		<i>For Explosion Proof Motor, Add</i>	507.68	
23 34 16 00-0152	EA	895 CFM, 1/3 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic	4,013.50	182.64
		<i>For Explosion Proof Motor, Add</i>	547.23	
23 34 16 00-0153	EA	1,630 CFM, 1/2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic	4,764.15	228.29
		<i>For Explosion Proof Motor, Add</i>	646.13	
23 34 16 00-0154	EA	2,240 CFM, 1 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic	5,136.48	304.55
		<i>For Explosion Proof Motor, Add</i>	679.10	
23 34 16 00-0155	EA	3,810 CFM, 2 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic	5,924.01	456.60
		<i>For Explosion Proof Motor, Add</i>	751.62	
23 34 16 00-0156	EA	11,760 CFM, 5 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic	10,265.65	913.19
		<i>For Explosion Proof Motor, Add</i>	1,265.89	
23 34 16 00-0157	EA	18,810 CFM, 10 HP Roof Ventilator, Centrifugal, Belt Drive, Corrosive Fume Resistant Plastic	14,962.00	1,305.41
		<i>For Explosion Proof Motor, Add</i>	1,852.68	
23 34 16 00-0158		Utility Set, Centrifugal, Belt Drive (23 34 16 00-0149)		
23 34 16 00-0159	EA	1,200 CFM, 1/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic.....	3,688.58	152.04
		<i>For Explosion Proof Motor, Add</i>	507.68	
23 34 16 00-0160	EA	1,520 CFM, 1/3 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic.....	3,793.72	182.64
		<i>For Explosion Proof Motor, Add</i>	514.27	
23 34 16 00-0161	EA	1,850 CFM, 1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic.....	3,885.05	228.29
		<i>For Explosion Proof Motor, Add</i>	514.27	
23 34 16 00-0162	EA	2,180 CFM, 3/4 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic.....	4,037.61	304.55
		<i>For Explosion Proof Motor, Add</i>	514.27	
23 34 16 00-0163	EA	3,600 CFM, 1 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic.....	5,572.37	456.60
		<i>For Explosion Proof Motor, Add</i>	698.88	
23 34 16 00-0164	EA	4,250 CFM, 1-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic	5,800.67	570.74
		<i>For Explosion Proof Motor, Add</i>	698.88	
23 34 16 00-0165	EA	4,800 CFM, 2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic.....	5,965.39	653.11
		<i>For Explosion Proof Motor, Add</i>	698.88	
23 34 16 00-0166	EA	6,920 CFM, 5 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic.....	6,116.87	684.89
		<i>For Explosion Proof Motor, Add</i>	712.06	
23 34 16 00-0167	EA	7,700 CFM, 7-1/2 HP Utility Set, Centrifugal, Belt Drive, 1/4 Static Pressure, Corrosive Fume Resistant Plastic	6,313.03	760.96
		<i>For Explosion Proof Motor, Add</i>	718.66	
23 34 16 00-0168		In-Line Duct Fans (23 34 16 00-0001)		
23 34 16 00-0169		Direct Drive In-Line Duct Fans (23 34 16 00-0168)		
		Note: Greenheck SQ.		
23 34 16 00-0170	EA	Up To 10" Wheel Diameter, 1/16 HP Direct Drive, In Line Duct Fan.....	1,101.98	109.63
		Note: 115V. Includes disconnect switch.		
23 34 16 00-0171	EA	13" Wheel Diameter, 1/6 HP Direct Drive, In Line Duct Fan	1,406.39	118.07
		Note: 115V. Includes disconnect switch.		
23 34 16 00-0172	EA	14" Wheel Diameter, 1/3 HP Direct Drive, In Line Duct Fan	1,541.94	126.50
		Note: 115V. Includes disconnect switch.		
23 34 16 00-0173		Belt Drive In-Line Duct Fans (23 34 16 00-0168)		
		Note: Greenheck BSQ.		
23 34 16 00-0174	EA	Up To 12" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan	1,610.60	126.50
		Note: 115/208-230/60/1. Includes disconnect switch.		
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0175	EA	13" Or 14" Wheel Diameter, 1/4 HP Belt Drive, In Line Duct Fan	1,851.30	147.58
		Note: 115/208-230/60/1. Includes disconnect switch.		
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0176	EA	13" Or 14" Wheel Diameter, 3/4 HP Belt Drive, In Line Duct Fan	2,080.43	147.58
		Note: 115/208-230/60/1. Includes disconnect switch.		
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0177	EA	13" Or 14" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan	2,275.22	147.58
		Note: 115/208-230/60/1. Includes disconnect switch.		
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0178	EA	16" Or 18" Wheel Diameter, 1/3 HP Belt Drive, In Line Duct Fan	2,218.13	168.67
		Note: 115/208-230/60/1. Includes disconnect switch.		
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	
23 34 16 00-0179	EA	16" Or 18" Wheel Diameter, 1-1/2 HP Belt Drive, In Line Duct Fan	2,548.01	168.67
		Note: 115/208-230/60/1. Includes disconnect switch.		
		<i>For 3 Phase Motor, Deduct</i>	-50.00	
		<i>For Totally Enclosed Motor, Add</i>	85.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0180 EA 24" Wheel Diameter, 1 HP Belt Drive, In Line Duct Fan Note: 115/208-230/60/1. Includes disconnect switch. <i>For 3 Phase Motor, Deduct</i> <i>For Totally Enclosed Motor, Add</i>	3,242.09 -50.00 85.00	210.84
23 34 16 00-0181 EA 24" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan Note: 230/460/60/3. Includes disconnect switch. <i>For Totally Enclosed Motor, Add</i>	3,424.20 85.00	210.84
23 34 16 00-0182 EA 24" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan Note: Belt drive. 230/460/60/3. Includes disconnect switch. <i>For Totally Enclosed Motor, Add</i>	3,552.57 85.00	210.84
23 34 16 00-0183 EA 30 Or 36" Wheel Diameter, 3 HP Belt Drive, In Line Duct Fan Note: 230/460/60/3. Includes disconnect switch. <i>For Totally Enclosed Motor, Add</i>	4,109.40 85.00	253.01
23 34 16 00-0184 EA 30 Or 36" Wheel Diameter, 5 HP Belt Drive, In Line Duct Fan Note: 230/460/60/3. Includes disconnect switch. <i>For Totally Enclosed Motor, Add</i>	4,262.62 85.00	253.01
23 34 16 00-0185 EA 30 Or 36" Wheel Diameter, 7-1/2 HP Belt Drive, In Line Duct Fan Note: 230/460/60/3. Includes disconnect switch. <i>For Totally Enclosed Motor, Add</i>	4,450.91 85.00	253.01
23 34 16 00-0186 In-Line Cabinet Fans (23 34 16 00-0001)		
23 34 16 00-0187 EA 950 CFM, 80 Watts, Direct Drive In-Line Cabinet Fan	333.40	73.80
23 34 16 00-0188 EA 1,050 CFM, 129 Watts, Direct Drive In-Line Cabinet Fan	352.96	73.80
23 34 16 00-0189 EA 1,100 CFM, 173 Watts, Direct Drive In-Line Cabinet Fan	379.50	73.80
23 34 16 00-0190 EA 950 CFM, 48.7 Watts, Direct Drive In-Line Cabinet Fan	378.11	73.80
23 34 16 00-0191 EA 1,100 CFM, 52.5 Watts, Direct Drive In-Line Cabinet Fan	378.11	73.80
23 34 16 00-0192 EA 1,400 CFM, 100 Watts, Direct Drive In-Line Cabinet Fan	420.02	73.80
23 34 16 00-0193 EA 900 CFM, 48.2 Watts, Direct Drive In-Line Cabinet Fan	503.91	78.01
23 34 16 00-0194 EA 1,000 CFM, 82.7 Watts, Direct Drive In-Line Cabinet Fan	429.86	78.01
23 34 16 00-0195 EA 1,050 CFM, 80.7 Watts, Direct Drive In-Line Cabinet Fan	457.80	78.01
23 34 16 00-0196 EA 1,350 CFM, 140 Watts, Direct Drive In-Line Cabinet Fan	475.96	78.01
23 34 16 00-0197 EA 1,000 CFM, 135 Watts, Direct Drive In-Line Cabinet Fan	496.92	78.01
23 34 16 00-0198 EA 1,070 CFM, 217 Watts, Direct Drive In-Line Cabinet Fan	496.92	78.01
23 34 16 00-0199 EA 1,100 CFM, 350 Watts, Direct Drive In-Line Cabinet Fan	808.54	82.22
23 34 16 00-0200 EA 1,080 CFM, 325 Watts, Direct Drive In-Line Cabinet Fan	681.40	82.22
23 34 16 00-0201 EA 1,600 CFM, 405 Watts, Direct Drive In-Line Cabinet Fan	681.40	82.22
23 34 16 00-0202 EA 950 CFM, 328 Watts, Direct Drive In-Line Cabinet Fan	920.31	82.22
23 34 16 00-0203 EA 1,095 CFM, 455 Watts, Direct Drive In-Line Cabinet Fan	920.31	82.22
23 34 16 00-0204 EA 1,450 CFM, 822 Watts, Direct Drive In-Line Cabinet Fan	920.31	82.22
23 34 16 00-0205 EA 1,610 CFM, 830 Watts, Direct Drive In-Line Cabinet Fan	999.94	82.22
23 34 16 00-0206 Propeller And Ceiling Fans (23 34 16)		
23 34 16 00-0207 Direct Drive, Sidewall Propeller Exhaust Fan (23 34 16 00-0206) Note: Greenheck SE1.		
23 34 16 00-0208 EA 1/25 HP, 307 CFM At 1/8" Static Pressure, 8" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan..... Note: Includes motor side guard. <i>For Backdraft Damper, Add</i> <i>For Wall Mount Collar, Add</i>	500.22 117.81 191.87	90.24
23 34 16 00-0209 EA 1/12 HP, 763 CFM At 1/8" Static Pressure, 10" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan..... Note: Includes motor side guard. <i>For Backdraft Damper, Add</i> <i>For Wall Mount Collar, Add</i>	530.26 126.88 191.87	100.36
23 34 16 00-0210 EA 1/8 HP, 1,149 CFM At 1/8" Static Pressure, 12" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan..... Note: Includes motor side guard. <i>For Backdraft Damper, Add</i> <i>For Wall Mount Collar, Add</i>	587.17 139.22 196.91	111.32
23 34 16 00-0211 EA 1/6 HP, 1,350 CFM At 1/8" Static Pressure, 14" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan..... <i>For Backdraft Damper, Add</i> <i>For Wall Mount Collar, Add</i> <i>For Motor Side Guard, Add</i>	855.22 166.16 200.56 165.23	123.13
23 34 16 00-0212 EA 1/6 HP, 2,012 CFM At 1/8" Static Pressure, 16" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan..... <i>For Backdraft Damper, Add</i> <i>For Wall Mount Collar, Add</i> <i>For Motor Side Guard, Add</i>	814.24 166.16 205.61 175.87	136.62
23 34 16 00-0213 EA 1/4 HP, 2,908 CFM At 1/8" Static Pressure, 18" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan..... <i>For Backdraft Damper, Add</i> <i>For Wall Mount Collar, Add</i> <i>For Motor Side Guard, Add</i>	914.80 201.21 210.65 186.51	151.80
23 34 16 00-0214 EA 1/3 HP, 3,974 CFM At 1/8" Static Pressure, 20" Diameter, Direct Drive, Sidewall Propeller Exhaust Fan..... <i>For Backdraft Damper, Add</i> <i>For Wall Mount Collar, Add</i> <i>For Motor Side Guard, Add</i>	1,042.95 201.21 214.29 201.35	168.67
23 34 16 00-0215 Belt Drive Propeller Exhaust Fans (23 34 16 00-0206) Note: Wall shutter 1/8" static pressure, with birdscreen.		
23 34 16 00-0216 EA 24" Propeller Exhaust Fan, V-Belt Drive, 5,795 CFM, 1/2 HP, With Wall Shutter	1,538.99	241.20
23 34 16 00-0217 EA 30" Propeller Exhaust Fan, V-Belt Drive, 9,060 CFM, 3/4 HP, With Wall Shutter	1,764.59	280.83
23 34 16 00-0218 EA 36" Propeller Exhaust Fan, V-Belt Drive, 11,850 CFM, 1 HP, With Wall Shutter	2,008.86	337.35
23 34 16 00-0219 EA 42" Propeller Exhaust Fan, V-Belt Drive, 17,400 CFM, 1-1/2 HP, With Wall Shutter	2,778.49	421.68
23 34 16 00-0220 EA 48" Propeller Exhaust Fan, V-Belt Drive, 19,870 CFM, 1-1/2 HP, With Wall Shutter	3,337.59	562.52

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 34 HVAC Fans**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0221 EA 54" Propeller Exhaust Fan, V-Belt Drive, 26,000 CFM, 2 HP, With Wall Shutter	4,660.00	843.35
23 34 16 00-0222 EA 60" Propeller Exhaust Fan, V-Belt Drive, 35,120 CFM, 3 HP, With Wall Shutter	5,620.06	1,081.18
23 34 16 00-0223 Propeller Exhaust Fan Accessories (23 34 16 00-0206)		
23 34 16 00-0224 SF Hinged Mesh Screen For Wall Propeller Fans, 1" x 1" Frame (SF Of Fan Opening)	79.98	
23 34 16 00-0225 SF Galvanized Weather Hood For Wall Propeller Fan (SF Of Fan Opening)	182.54	
23 34 16 00-0226 Reversible Ceiling Fans (23 34 16 00-0206)		
23 34 16 00-0227 4 Blade Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0228 EA 42" 4-Blade Ceiling Fan, Three Speed	349.17	39.21
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	25.65	
23 34 16 00-0229 5 Blade Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0230 EA 42" 5-Blade Ceiling Fan, Three Speed	381.78	97.03
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	25.69	
23 34 16 00-0231 EA 52" 5-Blade Ceiling Fan, Three Speed	435.64	97.03
For Brass Plated Motor, Add	20.25	
For Light Kit, Add	25.77	
23 34 16 00-0232 3 Blade Weatherproof Ceiling Fans (23 34 16 00-0226)		
23 34 16 00-0233 EA 3-Blade Ceiling Fan, Weatherproof, Three Speed	375.37	41.75
23 34 16 00-0234 Ceiling Fan Down Rod (23 34 16 00-0226)		
23 34 16 00-0235 EA 1' Ceiling Fan Down Rod	14.23	
23 34 16 00-0236 EA 1-1/2' Ceiling Fan Down Rod	18.51	
23 34 16 00-0237 EA 2' Ceiling Fan Down Rod	20.65	
23 34 16 00-0238 EA 3' Ceiling Fan Down Rod	27.53	
23 34 16 00-0239 EA 4' Ceiling Fan Down Rod	32.15	
23 34 16 00-0240 EA 5' Ceiling Fan Down Rod	39.38	
23 34 16 00-0241 EA 6' Ceiling Fan Down Rod	49.13	
23 34 16 00-0242 Exhaust Fans (23 34 16)		
23 34 16 00-0243 Exhaust Fans (23 34 16 00-0242)		
Note: Excludes ducting.		
23 34 16 00-0244 Light Duty Exhaust Fans (23 34 16 00-0243)		
23 34 16 00-0245 Light Duty Exhaust Fans (23 34 16 00-0244)		
23 34 16 00-0246 EA 50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 670)	94.04	31.68
23 34 16 00-0247 EA 70 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan Without Light (Broan® 671)	99.16	31.68
23 34 16 00-0248 EA 180 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 505)	160.65	31.68
23 34 16 00-0249 EA 350 CFM, Ceiling Mounted, Polymeric Intake Grille, Vertical Discharge, Light Duty Exhaust Fan Without Light (Broan® 504)	201.76	31.68
23 34 16 00-0250 EA 160 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 503)	180.89	31.68
23 34 16 00-0251 EA 270 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Side Discharge, Light Duty Exhaust Fan Without Light (Broan® 502)	239.27	31.68
23 34 16 00-0252 Light Duty Exhaust Fans With Lights (23 34 16 00-0244)		
23 34 16 00-0253 EA 50 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 678)	121.43	31.68
23 34 16 00-0254 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 679)	134.26	31.68
23 34 16 00-0255 EA 100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Light (Broan® 680)	247.11	31.68
23 34 16 00-0256 Light Duty Exhaust Fans With Heaters (23 34 16 00-0244)		
23 34 16 00-0257 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater Bulb (Broan® 162)	124.21	31.68
23 34 16 00-0258 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater (Broan® 658)	194.57	31.68
23 34 16 00-0259 Light Duty Exhaust Fans With Heaters And Lights (23 34 16 00-0244)		
23 34 16 00-0260 EA 70 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 655)	206.77	31.68
23 34 16 00-0261 EA 100 CFM, Ceiling Mounted, Polymeric Intake Grille, Light Duty Exhaust Fan With Heater And Light (Broan® 100HL)	311.49	31.68
23 34 16 00-0262 Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0243)		
23 34 16 00-0263 Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0262)		
Note: Includes enamel steel or aluminum grille.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 16 00-0264 EA 50 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50).....	143.59	31.68
23 34 16 00-0265 EA 80 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80).....	158.29	31.68
23 34 16 00-0266 EA 109 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L100MG).....	285.57	31.68
23 34 16 00-0267 EA 157 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L150MG).....	292.39	31.68
23 34 16 00-0268 EA 210 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L200MG).....	313.60	31.68
23 34 16 00-0269 EA 259 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L250MG).....	327.16	31.68
23 34 16 00-0270 EA 308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300MG).....	332.41	31.68
23 34 16 00-0271 EA 434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400).....	379.76	31.68
23 34 16 00-0272 EA 514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500).....	431.99	31.68
23 34 16 00-0273 EA 701 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L700).....	461.73	31.68
23 34 16 00-0274 EA 901 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L900).....	548.64	31.68
23 34 16 00-0275 EA 1,513 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L1500).....	703.44	31.68
23 34 16 00-0276 Heavy Duty/Continuous Operation Kitchen Exhaust Fans (23 34 16 00-0262) Note: Includes enamel steel or aluminum grille.		
23 34 16 00-0277 EA 308 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L300KMG).....	296.36	31.68
23 34 16 00-0278 EA 434 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L400K).....	428.08	31.68
23 34 16 00-0279 EA 514 CFM, Ceiling/Wall Mounted, Metal Intake Grille, Kitchen Heavy Duty/Continuous Operation Exhaust Fan (Broan® LoSone® Ventilator L500K).....	452.47	31.68
23 34 16 00-0280 Heavy Duty/Continuous Operation Exhaust Fans With Lights (23 34 16 00-0262)		
23 34 16 00-0281 EA 50 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD50L).....	155.63	31.68
23 34 16 00-0282 EA 80 CFM, Ceiling/Wall Mounted, Polymeric Intake Grille, Heavy Duty/Continuous Operation Exhaust Fan With Light (Broan® HD80L).....	169.44	31.68
23 34 16 00-0283 Fire Rated, Heavy Duty/Continuous Operation Exhaust Fans (23 34 16 00-0262)		
23 34 16 00-0284 EA 50 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD50RDF).....	161.69	31.68
23 34 16 00-0285 EA 80 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® HD80RDF).....	170.84	31.68
23 34 16 00-0286 EA 110 CFM, Ceiling Mounted, Metal Intake Grille, Fire Rated, Heavy Duty/Continuous Operation Exhaust Fan (Broan® 110RDF).....	175.25	31.68
23 34 16 00-0287 Low Sound, Direct Drive, Centrifugal Ceiling Exhaust Fans (23 34 16 00-0243)		
23 34 16 00-0288 EA 900 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A900).....	755.49	31.68
23 34 16 00-0289 EA 1050 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1050).....	755.49	31.68
23 34 16 00-0290 EA 1410 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1410).....	755.49	31.68
23 34 16 00-0291 EA 1550 CFM Low Sound, Direct Drive Centrifugal Ceiling Exhaust Fan (Greenheck SP-A1550).....	828.60	31.68
23 34 16 00-0292 Room-To-Room Exhaust Fans (23 34 16 00-0243)		
23 34 16 00-0293 EA 90 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 512).....	117.98	31.68
23 34 16 00-0294 EA 180 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 511).....	192.66	31.68
23 34 16 00-0295 EA 380 CFM, Polymeric Grilles, Wall Mounted, Room-To-Room Exhaust Fan (Broan® 510).....	219.87	31.68
23 34 16 00-0296 Through-Wall Exhaust Fans (23 34 16 00-0243)		
23 34 16 00-0297 EA 250 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 507).....	205.64	31.68
23 34 16 00-0298 EA 470 CFM, Wall Mounted, Polymeric Intake Grille, Chain Operated, Through Wall Exhaust Fan (Broan® 506).....	243.15	31.68
23 34 16 00-0299 EA 180 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 509).....	179.85	31.68
23 34 16 00-0300 EA 270 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan (Broan® 508).....	239.27	31.68
23 34 16 00-0301 EA 360 CFM, Wall Mounted, Polymeric Intake Grille, Through-Wall Exhaust Fan With Motorized Door (Broan® 12C).....	415.17	31.68
23 34 16 00-0302 Exhaust Fan Accessories (23 34 16 00-0243)		
23 34 16 00-0303 Exhaust Fan Controls (23 34 16 00-0302)		
23 34 16 00-0304 EA Electronic Variable Speed Control Dial, Single Gang, Exhaust Fan Controls (Broan® 57).....	113.32	19.80
23 34 16 00-0305 EA 60-Minute Time Control Dial, Single Gang, Exhaust Fan Controls (Broan® 59).....	80.15	19.80
23 34 16 00-0306 EA 60-Minute Time Control Dial With Rocker Switch, Double Gang, Exhaust Fan Controls (Broan® 61).....	80.94	19.80

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 34 HVAC Fans



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 34 16 00-0307	Roof And Wall Caps For Exhaust Fans <small>(23 34 16 00-0302)</small>		
23 34 16 00-0308	Wall Caps For Exhaust Fans <small>(23 34 16 00-0307)</small>		
23 34 16 00-0309	EA Aluminum Wall Cap For Up To 12" Duct, Installed On Exterior Walls (Broan® 613)	194.04	45.78
23 34 16 00-0310	EA Aluminum Wall Cap For Up To 18" Duct, Installed On Exterior Walls (Broan® 643)	196.65	45.78
23 34 16 00-0311	Roof Caps For Exhaust Fans <small>(23 34 16 00-0307)</small>		
	Note: Includes flashing and built in bird screen.		
23 34 16 00-0312	EA Aluminum Roof Cap For Up To 8" Duct, Installed On Flat Roofs (Broan® 611)	167.08	45.78
23 34 16 00-0313	EA Aluminum Roof Cap For Up To 12" Duct, Installed On Flat Roofs (Broan® 612)	234.91	45.78
23 34 16 00-0314	EA CRCQ Steel Roof Cap For Up To 4" Duct, Installed On Sloped Roofs (Broan® 636)	114.94	45.78
23 34 16 00-0315	EA CRCQ Steel Roof Cap For Up To 8" Duct, Installed On Sloped Roofs (Broan® 634)	135.29	45.78
23 34 16 00-0316	Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan <small>(23 34 16 00-0243)</small>		
	Note: Includes storage and cleaning.		
23 34 16 00-0317	EA Removal And Reinstallation Of Light Duty Ceiling Exhaust Fan	63.25	
23 34 23	HVAC Power Ventilators <small>(23 34)</small>		
23 34 23 00-0001	Power Roof Ventilators <small>(23 34 23)</small>		
23 34 23 00-0002	Direct Drive, Aluminum, Centrifugal Roof Exhausters <small>(23 34 23 00-0001)</small>		
	Note: Greenheck G.		
23 34 23 00-0003	EA 1/25 HP, 310 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	493.03	120.60
	Note: Three speed motor.		
	For 12" Roof Curb, Add	154.34	
	For Backdraft Damper, Add	96.05	
	For Solid State Speed Control, Add	79.93	
	For Damper Motor, Add	166.57	
23 34 23 00-0004	EA 1/8 HP, 863 CFM At 1/4" Static Pressure, 17" x 17" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	539.88	136.62
	Note: Three speed motor.		
	For 12" Roof Curb, Add	154.34	
	For Backdraft Damper, Add	96.05	
	For Solid State Speed Control, Add	79.93	
	For Damper Motor, Add	166.57	
23 34 23 00-0005	EA 1/6 HP, 1,213 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	776.12	159.39
	For 12" Roof Curb, Add	158.53	
	For Backdraft Damper, Add	103.51	
	For Solid State Speed Control, Add	79.93	
	For Damper Motor, Add	166.57	
23 34 23 00-0006	EA 1/4 HP, 1,374 CFM At 1/4" Static Pressure, 19" x 19" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	799.05	179.64
	For 12" Roof Curb, Add	158.53	
	For Backdraft Damper, Add	103.51	
	For Solid State Speed Control, Add	79.93	
	For Damper Motor, Add	166.57	
23 34 23 00-0007	EA 1/3 HP, 1,905 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	1,028.27	198.19
	For Solid State Speed Control, Add	79.93	
	For Damper Motor, Add	166.57	
23 34 23 00-0008	EA 1/2 HP, 3,072 CFM At 1/4" Static Pressure, 22" x 22" Base, Direct Drive, Aluminum, Centrifugal Roof Exhauster	1,166.08	210.84
	For 12" Roof Curb, Add	165.53	
	For Backdraft Damper, Add	117.47	
	For Solid State Speed Control, Add	123.32	
	For Damper Motor, Add	166.57	
23 34 23 00-0009	Belt Drive, Aluminum, Centrifugal Roof Exhausters <small>(23 34 23 00-0001)</small>		
	Note: Greenheck GB.		
23 34 23 00-0010	EA 1/4 HP, 1,556 CFM At 1/4" Static Pressure, 19" x 19" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster	1,135.00	179.64
	For 12" Roof Curb, Add	158.53	
	For Backdraft Damper, Add	103.51	
	For Damper Motor, Add	166.57	
23 34 23 00-0011	EA 1/3 HP, 1,966 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster	1,238.93	228.55
	For 12" Roof Curb, Add	165.53	
	For Backdraft Damper, Add	117.47	
	For Damper Motor, Add	166.57	
23 34 23 00-0012	EA 1/2 HP, 2,943 CFM At 1/4" Static Pressure, 22" x 22" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster	1,684.20	272.41
	For 12" Roof Curb, Add	165.53	
	For Backdraft Damper, Add	117.47	
	For Damper Motor, Add	166.57	
23 34 23 00-0013	EA 3/4 HP, 4,289 CFM At 1/4" Static Pressure, 30" x 30" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster	2,150.04	337.35
	For 12" Roof Curb, Add	199.13	
	For Backdraft Damper, Add	146.04	
	For Damper Motor, Add	166.57	
23 34 23 00-0014	EA 1 HP, 6,157 CFM At 1/4" Static Pressure, 34" x 34" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster	2,840.35	421.68
	For 12" Roof Curb, Add	214.53	
	For Backdraft Damper, Add	158.37	
	For Damper Motor, Add	166.57	
23 34 23 00-0015	EA 1-1/2 HP, 8,906 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster	4,023.39	527.10
	For 12" Roof Curb, Add	238.33	
	For Backdraft Damper, Add	175.56	
	For Damper Motor, Add	166.57	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 23 00-0016 EA 2 HP, 10,059 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	4,056.99 238.33 175.56 166.57	527.10
23 34 23 00-0017 EA 3 HP, 11,703 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	4,419.56 238.33 175.56 166.57	527.10
23 34 23 00-0018 EA 5 HP, 13,897 CFM At 1/4" Static Pressure, 40" x 40" Base, Belt Drive, Aluminum, Centrifugal Roof Exhauster <i>For 12" Roof Curb, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i>	4,115.05 238.33 175.56 166.57	527.10
23 34 23 00-0019 Propeller Exhaust Fans, Roof Mounted Upblast (23 34 23 00-0001) Note: Includes back draft damper and birdscreen and curb.		
23 34 23 00-0020 EA 30,300 CFM Belt Drive 5 HP Propeller Exhaust Fan, Roof Mounted, 3/8" Static Pressure.....	5,163.07	648.54
23 34 23 00-0021 EA 36,000 CFM Belt Drive 15 HP Propeller Exhaust Fan, Roof Mounted, 1/2" Static Pressure.....	8,392.41	843.10
23 34 23 00-0022 Belt Drive Supply Fans (23 34 23 00-0001)		
23 34 23 00-0023 EA 4,500 CFM, 24" x 24" Supply Fan, Roof Mounted	2,065.18	336.75
23 34 23 00-0024 EA 10,000 CFM, 36" x 36" Supply Fan, Roof Mounted	2,780.66	421.59
23 34 23 00-0025 Fan Thermostat (23 34 23 00-0001)		
23 34 23 00-0026 EA 50 To 120 Degree Line Voltage Fan Thermostat.....	88.50	
23 34 23 00-0027 Power Wall Ventilators (23 34 23)		
23 34 23 00-0028 Centrifugal Sidewall Exhausters (23 34 23 00-0027)		
23 34 23 00-0029 Direct Drive, Aluminum, Centrifugal Sidewall Exhauster (23 34 23 00-0028) Note: Greenheck CW.		
23 34 23 00-0030 EA 1/25 HP, 297 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	643.62 123.32 129.81 280.74 92.43	135.78
23 34 23 00-0031 EA 1/8 HP, 861 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	738.22 123.32 143.77 280.74 110.07	159.39
23 34 23 00-0032 EA 1/6 HP, 1,179 CFM At 1/4" Static Pressure, Direct Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	1,110.48 123.32 162.59 280.74 127.71	179.64
23 34 23 00-0033 Belt Drive, Aluminum, Centrifugal Sidewall Exhausters (23 34 23 00-0028) Note: Greenheck CWB.		
23 34 23 00-0034 EA 1/4 HP, 1,633 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	1,735.62 123.32 151.53 280.74 194.35	101.37
23 34 23 00-0035 EA 1/2 HP, 2,291 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	1,833.98 123.32 151.53 280.74 194.35	114.15
23 34 23 00-0036 EA 3/4 HP, 3,646 CFM At 1/4" Static Pressure, Belt Drive, Aluminum, Centrifugal Sidewall Exhauster <i>For Solid State Speed Control, Add</i> <i>For Backdraft Damper, Add</i> <i>For Damper Motor, Add</i> <i>For Interior Wall Grill, Add</i>	2,251.84 123.32 189.41 280.74 225.99	130.59
23 34 33 Air Curtains (23 34)		
23 34 33 00-0001 Unheated Air Curtains For Entrances (23 34 33)		
23 34 33 00-0002 Unheated Air Curtains, Standard Velocity (23 34 33 00-0001)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 34 HVAC Fans



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0003 EA Air Curtain For 3' x 8' - 10' Personnel Entrance, Unheated.....	1,671.95	618.18
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	115.93	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	315.60	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	234.44	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	360.68	
For Flat Side Extension Plates, Add	104.96	
For Clearance Adjustable-Angle Mounting Bracket, Add	209.93	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	251.92	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	265.91	
23 34 33 00-0004 EA Air Curtain For 3.5' x 8' - 10' Personnel Entrance, Unheated.....	1,693.56	618.18
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	115.93	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	315.60	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	234.44	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	360.68	
For Flat Side Extension Plates, Add	104.96	
For Clearance Adjustable-Angle Mounting Bracket, Add	209.93	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	251.92	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	265.91	
23 34 33 00-0005 EA Air Curtain For 4' x 8' - 10' Personnel Entrance, Unheated.....	1,716.98	618.18
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	115.93	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	315.60	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	234.44	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	360.68	
For Flat Side Extension Plates, Add	104.96	
For Clearance Adjustable-Angle Mounting Bracket, Add	209.93	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	251.92	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	265.91	
23 34 33 00-0006 EA Air Curtain For 5' x 8' - 10' Personnel Entrance, Unheated.....	2,104.24	618.18
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	115.93	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	315.60	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	234.44	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	360.68	
For Flat Side Extension Plates, Add	104.96	
For Clearance Adjustable-Angle Mounting Bracket, Add	209.93	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	251.92	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	265.91	
23 34 33 00-0007 EA Air Curtain For 6' x 8' - 10' Personnel Entrance, Unheated.....	2,396.13	742.16
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	115.93	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	315.60	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	234.44	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	360.68	
For Flat Side Extension Plates, Add	104.96	
For Clearance Adjustable-Angle Mounting Bracket, Add	209.93	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	251.92	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	265.91	
23 34 33 00-0008 EA Air Curtain For 7' x 8' - 10' Personnel Entrance, Unheated.....	2,531.22	742.16
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	115.93	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	315.60	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	234.44	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	360.68	
For Flat Side Extension Plates, Add	104.96	
For Clearance Adjustable-Angle Mounting Bracket, Add	209.93	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	251.92	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	265.91	
23 34 33 00-0009 EA Air Curtain For 8' x 8' - 10' Personnel Entrance, Unheated.....	2,812.28	856.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	115.93	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	315.60	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	234.44	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	360.68	
For Flat Side Extension Plates, Add	104.96	
For Clearance Adjustable-Angle Mounting Bracket, Add	209.93	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	251.92	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	265.91	
23 34 33 00-0010 EA Air Curtain For 9' x 8' - 10' Personnel Entrance, Unheated.....	3,351.74	856.01
Note: Includes housing, mounting brackets and manual controls.		
For Door Limit Switch, Combination Roller And Plunger, Add	115.93	
For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add	315.60	
For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø	234.44	
For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add	360.68	
For Flat Side Extension Plates, Add	104.96	
For Clearance Adjustable-Angle Mounting Bracket, Add	209.93	
For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	251.92	
For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add	265.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0011 EA Air Curtain For 10' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,420.18 115.93 315.60 234.44 360.68 104.96 209.93 251.92 265.91	856.01
23 34 33 00-0012 EA Air Curtain For 12' x 8' - 10' Personnel Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Commercial Magnetic Reed Switch with Controller and Adjustable Time Delay - 115, 208-230 Volt 1Ø, Add</i> <i>For Commercial Magnetic Reed Switch with Controller - 115, 208-230 Volt 1Ø</i> <i>For Door Limit switch with Controller and Adjustable Time Delay - 115, 208-230 Volt, 1Ø, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,602.11 115.93 315.60 234.44 360.68 104.96 209.93 251.92 265.91	856.01
23 34 33 00-0013 Unheated Air Curtains, High Velocity (23 34 33 00-0001)		
23 34 33 00-0014 EA High Velocity Air Curtain For 3' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,030.39 115.93 209.93 104.96 209.93 251.92 265.91	618.18
23 34 33 00-0015 EA High Velocity Air Curtain For 3.5' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,058.31 115.93 209.93 104.96 209.93 251.92 265.91	618.18
23 34 33 00-0016 EA High Velocity Air Curtain For 4' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,070.01 115.93 209.93 104.96 209.93 251.92 265.91	618.18
23 34 33 00-0017 EA High Velocity Air Curtain For 5' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	2,092.53 115.93 209.93 104.96 209.93 251.92 265.91	618.18
23 34 33 00-0018 EA High Velocity Air Curtain For 6' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,217.47 115.93 209.93 104.96 209.93 251.92 265.91	742.16
23 34 33 00-0019 EA High Velocity Air Curtain For 7' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,356.17 115.93 209.93 104.96 209.93 251.92 265.91	742.16
23 34 33 00-0020 EA High Velocity Air Curtain For 8' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,585.89 115.93 209.93 104.96 209.93 251.92 265.91	856.01
23 34 33 00-0021 EA High Velocity Air Curtain For 9' x 10' - 12' Entrance, Unheated..... Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	4,065.91 115.93 209.93 104.96 209.93 251.92 265.91	856.01

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 34 HVAC Fans



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0022	EA	High Velocity Air Curtain For 10' x 10' - 12' Entrance, Unheated Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	4,116.35 115.93 209.93 104.96 209.93 251.92 265.91	856.01
23 34 33 00-0023	EA	High Velocity Air Curtain For 12' x 10' - 12' Entrance, Unheated Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Industrial Floor-Mounted Magnetic Reed Switch Only, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	4,312.68 115.93 209.93 104.96 209.93 251.92 265.91	856.01
23 34 33 00-0024		Service Window Unheated Air Curtains (23 34 33 00-0001) Note: Normal window sizes.		
23 34 33 00-0025	EA	Air Curtain For 2.5' x 5' Service Window, Unheated Note: Includes housing, mounting brackets and manual controls. <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	1,421.31 115.93 104.96 209.93 251.92 265.91	487.46
23 34 33 00-0026		Heated Air Curtains For Entrances (23 34 33) Note: Includes housing, mounting brackets and manual controls.		
23 34 33 00-0027	EA	60" Heated Air Curtain With 1- 300 MBH Heater <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,216.39 115.93 104.96 209.93 251.92 265.91	544.38
23 34 33 00-0028	EA	60" Heated Air Curtain With 1- 400 MBH Heater <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,500.04 115.93 104.96 209.93 251.92 265.91	544.38
23 34 33 00-0029	EA	72" Heated Air Curtain With 1- 350 MBH Heater <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	3,859.12 115.93 104.96 209.93 251.92 265.91	653.18
23 34 33 00-0030	EA	72" Heated Air Curtain With 2- 250 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	4,199.50 115.93 104.96 209.93 251.92 265.91	653.18
23 34 33 00-0031	EA	96" Heated Air Curtain With 1- 400 MBH Heater <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	5,144.78 115.93 104.96 209.93 251.92 265.91	870.77
23 34 33 00-0032	EA	96" Heated Air Curtain With 2- 350 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	5,598.61 115.93 104.96 209.93 251.92 265.91	870.77
23 34 33 00-0033	EA	117" Heated Air Curtain With 2- 300 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	6,269.44 115.93 104.96 209.93 251.92 265.91	1,060.94
23 34 33 00-0034	EA	117" Heated Air Curtain With 2- 400 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	6,822.55 115.93 104.96 209.93 251.92 265.91	1,060.94
23 34 33 00-0035	EA	147" Heated Air Curtain With 2- 350 MBH Heaters <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	7,877.47 115.93 104.96 209.93 251.92 265.91	1,332.93



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 34 33 00-0036 EA 147" Heated Air Curtain With 3- 350 MBH Heaters..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	9,253.15 115.93 104.96 209.93 251.92 265.91	1,332.93
23 34 33 00-0037 EA 168" Heated Air Curtain With 2- 400 MBH Heaters..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	9,003.36 115.93 104.96 209.93 251.92 265.91	1,523.52
23 34 33 00-0038 EA 168" Heated Air Curtain With 3- 400 MBH Heaters..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	10,575.23 115.93 104.96 209.93 251.92 265.91	1,523.52
23 34 33 00-0039 EA 192" Heated Air Curtain With 2- 400 MBH Heaters..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	10,286.70 115.93 104.96 209.93 251.92 265.91	1,741.11
23 34 33 00-0040 EA 192" Heated Air Curtain With 4- 350 MBH Heaters..... <i>For Door Limit Switch, Combination Roller And Plunger, Add</i> <i>For Flat Side Extension Plates, Add</i> <i>For Clearance Adjustable-Angle Mounting Bracket, Add</i> <i>For 10" To 16" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i> <i>For 19" Clearance Drum-Roll-Style Extended Wall Mounting Bracket, Add</i>	12,083.12 115.93 104.96 209.93 251.92 265.91	1,741.11

23 35 Special Exhaust Systems (23 30)
See CSI section 23 31 13 16-0075 for spiral duct/piping.

23 35 13 Dust Collection Systems (23 35)

23 35 13 13 Sawdust Collection Systems (23 35 13)

23 35 13 13-0001 Dust Collector System (23 35 13 13)

23 35 13 13-0002 EA 1.5 HP Dust Collector Central Vacuum Unit..... <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.</i>	2,928.28	730.55
23 35 13 13-0003 EA 2 HP Dust Collector Central Vacuum Unit..... <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.</i>	3,303.58	867.53
23 35 13 13-0004 EA 2-1/2 HP Dust Collector Central Vacuum Unit..... <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.</i>	3,953.01	1,004.51
23 35 13 13-0005 EA 3 HP Dust Collector Central Vacuum Unit..... <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 35 gallon fiber drum dust bin.</i>	4,526.47	1,187.15
23 35 13 13-0006 EA 5 HP Dust Collector Central Vacuum Unit..... <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.</i>	9,038.65	1,347.78
23 35 13 13-0007 EA 7-1/2 HP Dust Collector Central Vacuum Unit..... <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.</i>	10,939.15	1,572.41
23 35 13 13-0008 EA 10 HP Dust Collector Central Vacuum Unit..... <i>Note: Includes fan bower, stand, cyclone, filter, silencer and 55 gallon fiber drum dust bin.</i>	12,528.64	1,797.04
23 35 13 13-0009 EA 15 HP Dust Collector Central Vacuum Unit..... <i>Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin.</i>	14,107.47	2,066.60
23 35 13 13-0010 EA 20 HP Dust Collector Central Vacuum Unit..... <i>Note: Includes fan bower, stand, cyclone, filter, silencer and two 55 gallon fiber drum dust bin.</i>	15,754.83	2,336.15

23 35 13 13-0011 Vacuum Tubing And Accessories (23 35 13 13)

23 35 13 13-0012 Vacuum Tubing (23 35 13 13-0011)

23 35 13 13-0013 Flexible Hose (23 35 13 13-0012)

23 35 13 13-0014 LF 2" Flexible Hose.....	8.06	1.52
23 35 13 13-0015 LF 3" Flexible Hose.....	9.59	1.69
23 35 13 13-0016 LF 4" Flexible Hose.....	10.41	1.85

23 35 13 13-0017 Galvanized Vacuum Tubing (23 35 13 13-0012)

23 35 13 13-0018 LF 2-1/8" Outside Diameter Vacuum Tubing, Galvanized.....	7.86	1.52
23 35 13 13-0019 LF 2-1/2" Outside Diameter Vacuum Tubing, Galvanized.....	8.80	1.60
23 35 13 13-0020 LF 3" Outside Diameter Vacuum Tubing, Galvanized.....	10.45	1.69
23 35 13 13-0021 LF 3-1/2" Outside Diameter Vacuum Tubing, Galvanized.....	13.58	1.77
23 35 13 13-0022 LF 4" Outside Diameter Vacuum Tubing, Galvanized.....	13.96	1.85
23 35 13 13-0023 LF 5" Outside Diameter Vacuum Tubing, Galvanized.....	23.06	2.10
23 35 13 13-0024 LF 6" Outside Diameter Vacuum Tubing, Galvanized.....	25.99	2.45
23 35 13 13-0025 LF 8" Outside Diameter Vacuum Tubing, Galvanized.....	35.16	3.37
23 35 13 13-0026 LF 10" Outside Diameter Vacuum Tubing, Galvanized.....	41.21	4.22
23 35 13 13-0027 LF 12" Outside Diameter Vacuum Tubing, Galvanized.....	102.38	5.57

23 35 13 13-0028 Vacuum Fittings, Galvanized (23 35 13 13-0011)

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 35 Special Exhaust Systems**

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 13 13-0029 90 Degree Elbow (23 35 13 13-0028)		
23 35 13 13-0030 EA 2-1/8" 90 Degree Elbow, Vacuum Tubing, Galvanized	39.60	9.69
23 35 13 13-0031 EA 2-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized	48.87	10.37
23 35 13 13-0032 EA 3" 90 Degree Elbow, Vacuum Tubing, Galvanized	60.79	11.30
23 35 13 13-0033 EA 3-1/2" 90 Degree Elbow, Vacuum Tubing, Galvanized	71.64	12.23
23 35 13 13-0034 EA 4" 90 Degree Elbow, Vacuum Tubing, Galvanized	85.26	13.49
23 35 13 13-0035 EA 5" 90 Degree Elbow, Vacuum Tubing, Galvanized	140.34	15.01
23 35 13 13-0036 EA 6" 90 Degree Elbow, Vacuum Tubing, Galvanized	186.03	16.87
23 35 13 13-0037 EA 8" 90 Degree Elbow, Vacuum Tubing, Galvanized	333.22	22.52
23 35 13 13-0038 45 Degree Elbow (23 35 13 13-0028)		
23 35 13 13-0039 EA 2-1/8" 45 Degree Elbow, Vacuum Tubing, Galvanized	37.15	9.69
23 35 13 13-0040 EA 2-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized	46.85	10.37
23 35 13 13-0041 EA 3" 45 Degree Elbow, Vacuum Tubing, Galvanized	54.01	11.30
23 35 13 13-0042 EA 3-1/2" 45 Degree Elbow, Vacuum Tubing, Galvanized	63.98	12.23
23 35 13 13-0043 EA 4" 45 Degree Elbow, Vacuum Tubing, Galvanized	78.18	13.49
23 35 13 13-0044 EA 5" 45 Degree Elbow, Vacuum Tubing, Galvanized	115.78	15.01
23 35 13 13-0045 EA 6" 45 Degree Elbow, Vacuum Tubing, Galvanized	149.91	16.87
23 35 13 13-0046 EA 8" 45 Degree Elbow, Vacuum Tubing, Galvanized	272.56	22.52
23 35 13 13-0047 Wye (23 35 13 13-0028)		
23 35 13 13-0048 EA 2-1/8" Wye, Vacuum Tubing, Galvanized	71.72	16.03
23 35 13 13-0049 EA 2-1/2" Wye, Vacuum Tubing, Galvanized	85.93	17.28
23 35 13 13-0050 EA 3" Wye, Vacuum Tubing, Galvanized	104.60	18.55
23 35 13 13-0051 EA 3-1/2" Wye, Vacuum Tubing, Galvanized	126.85	20.67
23 35 13 13-0052 EA 4" Wye, Vacuum Tubing, Galvanized	168.55	22.35
23 35 13 13-0053 EA 5" Wye, Vacuum Tubing, Galvanized	283.45	24.87
23 35 13 13-0054 EA 6" Wye, Vacuum Tubing, Galvanized	375.06	28.26
23 35 13 13-0055 EA 8" Wye, Vacuum Tubing, Galvanized	738.43	30.78
23 35 13 13-0056 EA 10" Wye, Vacuum Tubing, Galvanized	1,021.76	33.73
23 35 13 13-0057 EA 12" Wye, Vacuum Tubing, Galvanized	1,290.31	37.78
23 35 13 13-0058 Reducer (23 35 13 13-0028)		
23 35 13 13-0059 EA 3" Reducer, Vacuum Tubing, Galvanized	41.00	11.30
23 35 13 13-0060 EA 4" Reducer, Vacuum Tubing, Galvanized	45.56	12.23
23 35 13 13-0061 EA 5" Reducer, Vacuum Tubing, Galvanized	57.36	13.49
23 35 13 13-0062 EA 6" Reducer, Vacuum Tubing, Galvanized	61.92	15.01
23 35 13 13-0063 EA 8" Reducer, Vacuum Tubing, Galvanized	72.38	16.87
23 35 13 13-0064 Air Gate Valve, Galvanized (23 35 13 13-0011)		
23 35 13 13-0065 EA 2-1/8" Air Gate Valve, Vacuum Tubing, Galvanized	278.45	22.52
23 35 13 13-0066 EA 2-1/2" Air Gate Valve, Vacuum Tubing, Galvanized	291.72	24.04
23 35 13 13-0067 EA 3" Air Gate Valve, Vacuum Tubing, Galvanized	335.00	25.89
23 35 13 13-0068 EA 3-1/2" Air Gate Valve, Vacuum Tubing, Galvanized	381.46	27.66
23 35 13 13-0069 EA 4" Air Gate Valve, Vacuum Tubing, Galvanized	429.89	29.35
23 35 13 13-0070 EA 5" Air Gate Valve, Vacuum Tubing, Galvanized	507.52	33.48
23 35 13 13-0071 EA 6" Air Gate Valve, Vacuum Tubing, Galvanized	584.43	37.53
23 35 16 Engine Exhaust Systems (23 35)		
23 35 16 16 Mechanical Engine Exhaust Systems (23 35 16)		
23 35 16 16-0001 Overhead Tailpipe Exhaust System (23 35 16 16)		
23 35 16 16-0002 Overhead Tailpipe Exhaust Blowers (23 35 16 16-0001)		
23 35 16 16-0003 Overhead Direct Drive Tailpipe Exhaust Blowers (23 35 16 16-0002)		
23 35 16 16-0004 EA 495 CFM 1/3 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System	2,225.01	179.64
23 35 16 16-0005 EA 1,445 CFM 3/4 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System	2,632.94	366.86
23 35 16 16-0006 EA 1,840 CFM 1-1/2 HP Tailpipe Exhaust Blower, Direct Drive, Overhead System	3,640.39	444.45
23 35 16 16-0007 Overhead Belt Drive Tailpipe Exhaust Blowers (23 35 16 16-0002)		
23 35 16 16-0008 EA 1,400 CFM 1 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System	2,563.66	366.86
23 35 16 16-0009 EA 2,023 CFM 1-1/2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System	2,750.42	444.45
23 35 16 16-0010 EA 2,750 CFM 2 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System	3,354.71	703.36
23 35 16 16-0011 EA 4,400 CFM 3 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System	4,122.35	907.45
23 35 16 16-0012 EA 7,060 CFM 5 HP Tailpipe Exhaust Blower, Belt Drive, Overhead System	5,186.34	1,081.18
23 35 16 16-0013 Spiral Exhaust Duct Accessories (23 35 16 16-0001)		
23 35 16 16-0014 Flex Hose x Length (23 35 16 16-0013)		
23 35 16 16-0015 EA 3" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	120.26	44.69
23 35 16 16-0016 EA 3" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	105.88	44.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 35 16 16-0017 EA 4" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	185.50	70.84
23 35 16 16-0018 EA 4" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	161.48	70.84
23 35 16 16-0019 EA 5" x 20' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	269.20	112.17
23 35 16 16-0020 EA 5" x 20' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	260.60	112.17
23 35 16 16-0021 EA 6" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	414.52	177.94
23 35 16 16-0022 EA 6" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	396.44	177.94
23 35 16 16-0023 Flex Hose With Duct Coupler, Damper And Diesel Exhaust Adapter <small>(23 35 16 16-0013)</small>		
23 35 16 16-0024 EA 4" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	131.72	44.69
23 35 16 16-0025 EA 5" x 15' Neoprene Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	193.87	70.84
23 35 16 16-0026 EA 4" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	115.16	44.69
23 35 16 16-0027 EA 5" x 17' Galvanized Spiral Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	169.31	70.84
23 35 16 16-0028 EA 6" x 25' High Pressure, Stainless Steel Exhaust Flexible Hose With Duct Coupler, Damper, Tailpipe Adapter	897.27	60.22
23 35 16 16-0029 EA 8" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter	812.13	110.48
23 35 16 16-0030 EA 10" x 15' Heat-Resistant Fabric Flex Hose (650 Degree F.) With Duct Coupler, Damper And Tail-Pipe Adapter	889.97	110.48
23 35 16 16-0031 LF 8" Heat-Resistant Fabric Flex Hose (650 Degree F.)	43.80	8.61
23 35 16 16-0032 LF 10" Heat-Resistant Fabric Flex Hose (650 Degree F.)	48.58	8.61
23 35 16 16-0033 Flexible Hose <small>(23 35 16 16-0013)</small>		
23 35 16 16-0034 LF 3" Stainless Steel Flexible Tubing	24.75	2.10
23 35 16 16-0035 LF 4" Stainless Steel Flexible Tubing	31.37	2.37
23 35 16 16-0036 LF 5" Stainless Steel Flexible Tubing	37.17	2.45
23 35 16 16-0037 LF 6" Stainless Steel Flexible Tubing	43.76	2.62
23 35 16 16-0038 LF 3" Galvanized Flexible Tubing	14.45	2.10
23 35 16 16-0039 LF 4" Galvanized Flexible Tubing	16.91	2.37
23 35 16 16-0040 LF 5" Galvanized Flexible Tubing	19.31	2.45
23 35 16 16-0041 LF 6" Galvanized Flexible Tubing	21.49	2.62
23 35 16 16-0042 Accessories <small>(23 35 16 16-0001)</small>		
23 35 16 16-0043 EA 3" Tail Pipe Adapter	36.41	6.32
23 35 16 16-0044 EA 4" Tail Pipe Adapter	37.36	6.32
23 35 16 16-0045 EA 5" Tail Pipe Adapter	39.99	7.17
23 35 16 16-0046 EA 3" Bullnose (Guide)	20.58	4.22
23 35 16 16-0047 EA 4" Bullnose (Guide)	21.95	4.64
23 35 16 16-0048 EA 5" Bullnose (Guide)	23.48	5.06
23 35 16 16-0049 EA Flex-Hose Winch And Associated Hardware	159.57	47.82
23 35 16 16-0050 LF Flex-Hose Winch Cable, 1/8" Galvanized Wire Rope	0.08	
23 35 19 Fume Exhaust Systems <small>(23 35)</small>		
23 35 19 00-0001 EA Fume Exhauster, 1 1/2 HP 630 CFM With Out Hose And Intake Nozzle	1,647.09	337.09
23 35 19 00-0002 EA Hose Extension Kit 5'	291.21	74.89
23 36 Air Terminal Units <small>(23 30)</small>		
23 36 13 Constant-Air-Volume Units <small>(23 36)</small>		
23 36 13 00-0001 Vertical Units, With Electric Heating Coils <small>(23 36 13)</small>		
23 36 13 00-0002 EA 60 CFM Vertical Induction Unit, With Electric Heating Coils	1,350.16	125.33
23 36 13 00-0003 EA 90 CFM Vertical Induction Unit, With Electric Heating Coils	1,623.22	134.98
23 36 13 00-0004 EA 120 CFM Vertical Induction Unit, With Electric Heating Coils	1,731.48	139.80
23 36 13 00-0005 EA 150 CFM Vertical Induction Unit, With Electric Heating Coils	1,849.40	149.44
23 36 13 00-0006 EA 175 CFM Vertical Induction Unit, With Electric Heating Coils	2,085.28	154.26
23 36 13 00-0007 Horizontal Units, With Electric Heating Coils <small>(23 36 13)</small>		
23 36 13 00-0008 EA 60 CFM Horizontal Induction Unit, With Electric Heating Coils	1,147.24	125.33
23 36 13 00-0009 EA 90 CFM Horizontal Induction Unit, With Electric Heating Coils	1,369.45	134.98
23 36 13 00-0010 EA 120 CFM Horizontal Induction Unit, With Electric Heating Coils	1,632.82	142.22
23 36 13 00-0011 Duct Boxes, Constant Volume Control <small>(23 36 13)</small>		
23 36 13 00-0012 Single Duct Boxes, Constant Volume Control <small>(23 36 13 00-0011)</small>		
23 36 13 00-0013 EA 4 - 6" Diameter Inlet, 50 - 240 CFM, Single Duct Boxes, Constant Volume Control	490.29	34.70
For Boxes With Motor, Add	20.00	
23 36 13 00-0014 EA 6 - 8" Diameter Inlet, 100 - 480 CFM, Single Duct Boxes, Constant Volume Control	541.36	37.45
For Boxes With Motor, Add	20.00	
23 36 13 00-0015 EA 7 - 10" Diameter Inlet, 150 - 720 CFM, Single Duct Boxes, Constant Volume Control	567.88	41.10
For Boxes With Motor, Add	20.00	
23 36 13 00-0016 EA 9 - 12" Diameter Inlet, 200 - 960 CFM, Single Duct Boxes, Constant Volume Control	580.53	42.92
For Boxes With Motor, Add	20.00	
23 36 13 00-0017 EA 12" Diameter Inlet, 250 - 1,200 CFM, Single Duct Boxes, Constant Volume Control	598.24	47.49
For Boxes With Motor, Add	20.00	
23 36 13 00-0018 EA 14" Diameter Inlet, 350 - 1,680 CFM, Single Duct Boxes, Constant Volume Control	682.62	52.96
For Boxes With Motor, Add	20.00	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 36 Air Terminal Units



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 36 13 00-0019	EA	16" Diameter Inlet, 450 - 2,160 CFM, Single Duct Boxes, Constant Volume Control.....	724.76	59.35
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0020	EA	20" x 16" Inlet, 550 - 2,640 CFM, Single Duct Boxes, Constant Volume Control.....	787.48	71.23
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0021	EA	24" x 16" Inlet, 650 - 3,120 CFM, Single Duct Boxes, Constant Volume Control.....	850.02	82.19
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0022 Dual Duct Boxes, Constant Volume Control <small>(23 36 13 00-0011)</small>				
23 36 13 00-0023	EA	4 - 6" Diameter Inlet, 50 - 240 CFM, Dual Duct Boxes, Constant Volume Control.....	656.51	34.70
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0024	EA	6 - 8" Diameter Inlet, 100 - 480 CFM, Dual Duct Boxes, Constant Volume Control.....	704.03	37.45
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0025	EA	7 - 10" Diameter Inlet, 150 - 720 CFM, Dual Duct Boxes, Constant Volume Control.....	739.79	41.10
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0026	EA	9 - 12" Diameter Inlet, 200 - 960 CFM, Dual Duct Boxes, Constant Volume Control.....	770.77	42.92
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0027	EA	12" Diameter Inlet, 250 - 1,200 CFM, Dual Duct Boxes, Constant Volume Control.....	788.48	47.49
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0028	EA	14" Diameter Inlet, 350 - 1,680 CFM, Dual Duct Boxes, Constant Volume Control.....	903.98	53.88
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0029	EA	16" Diameter Inlet, 450 - 2,160 CFM, Dual Duct Boxes, Constant Volume Control.....	991.07	59.35
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0030	EA	20" x 16" Inlet, 550 - 2,640 CFM, Dual Duct Boxes, Constant Volume Control.....	1,083.51	71.23
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 13 00-0031	EA	24" x 16" Inlet, 650 - 3,120 CFM, Dual Duct Boxes, Constant Volume Control.....	1,150.77	82.19
		<i>For Boxes With Motor, Add</i>	20.00	
23 36 16 Variable-Air-Volume Units <small>(23 36)</small>				
23 36 16 00-0001 Variable Volume Terminal Unit <small>(23 36 16)</small>				
Note: Includes flow controllers, insulated plenum, system powered box mounted thermostat.				
23 36 16 00-0002 Single Duct Variable Volume Terminal Unit <small>(23 36 16 00-0001)</small>				
Note: Enclosure only. For mounting DDC controls.				
23 36 16 00-0003	EA	6" Diameter Inlet, 80 - 500 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls.....	442.88	42.00
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0004	EA	8" Diameter Inlet, 145 - 900 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls.....	495.57	47.49
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0005	EA	10" Diameter Inlet, 230 - 1,400 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls.....	551.63	52.96
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0006	EA	12" Diameter Inlet, 325 - 2,000 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls.....	588.63	59.35
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0007	EA	14" Diameter Inlet, 450 - 3,000 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls.....	812.12	127.75
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0008	EA	16" Diameter Inlet, 580 - 4,000 CFM, Variable Air Volume Box With enclosure only. For mounting DDC controls.....	978.90	151.59
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0009 Single Duct Variable Volume Terminal Unit <small>(23 36 16 00-0001)</small>				
Note: With pneumatic controls.				
23 36 16 00-0010	EA	6" Diameter Inlet, 80 - 500 CFM, Variable Air Volume Box With pneumatic controller.....	928.38	42.00
		<i>For Fan Powered Variable Air Volume Box, Add</i>	982.32	
		<i>For Hot Water Coils, Add</i>	40.55	
		<i>For Pressure Independent Actuator, Add</i>	67.57	
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0011	EA	8" Diameter Inlet, 145 - 900 CFM, Variable Air Volume Box With pneumatic controller.....	1,003.85	47.49
		<i>For Fan Powered Variable Air Volume Box, Add</i>	1,052.08	
		<i>For Hot Water Coils, Add</i>	40.55	
		<i>For Pressure Independent Actuator, Add</i>	67.57	
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0012	EA	10" Diameter Inlet, 230 - 1,400 CFM, Variable Air Volume Box With pneumatic controller.....	1,051.14	52.96
		<i>For Fan Powered Variable Air Volume Box, Add</i>	1,084.88	
		<i>For Hot Water Coils, Add</i>	40.55	
		<i>For Pressure Independent Actuator, Add</i>	67.57	
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0013	EA	12" Diameter Inlet, 325 - 2,000 CFM, Variable Air Volume Box With pneumatic controller.....	1,096.90	59.35
		<i>For Fan Powered Variable Air Volume Box, Add</i>	1,115.54	
		<i>For Hot Water Coils, Add</i>	40.55	
		<i>For Pressure Independent Actuator, Add</i>	67.57	
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0014	EA	14" Diameter Inlet, 450 To 3,000 CFM, Variable Air Volume Box With pneumatic controller.....	1,273.07	127.75
		<i>For Fan Powered Variable Air Volume Box, Add</i>	1,251.99	
		<i>For Hot Water Coils, Add</i>	40.55	
		<i>For Pressure Independent Actuator, Add</i>	67.57	
		<i>For Filters And Frames, Add</i>	6.30	
23 36 16 00-0015	EA	16" Diameter Inlet, 580 To 4,000 CFM, Variable Air Volume Box With pneumatic controller.....	1,478.41	151.59
		<i>For Fan Powered Variable Air Volume Box, Add</i>	1,357.85	
		<i>For Hot Water Coils, Add</i>	40.55	
		<i>For Pressure Independent Actuator, Add</i>	67.57	
		<i>For Filters And Frames, Add</i>	6.30	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 36 16 00-0016			Single Duct Variable Volume Terminal Unit <small>(23 36 16 00-0001)</small> Note: With analog electronic controls.		
			EA 6" Diameter Inlet, 60 - 500 CFM, Variable Air Volume Box With analog electronic controls	1,533.05	42.00
			<i>For Hot Water Coils, Add</i>	40.55	
			<i>For Filters And Frames, Add</i>	6.30	
			EA 8" Diameter Inlet, 105 - 900 CFM, Variable Air Volume Box With analog electronic controls	1,594.50	47.49
			<i>For Hot Water Coils, Add</i>	40.55	
			<i>For Filters And Frames, Add</i>	6.30	
			EA 10" Diameter Inlet, 165 - 1,400 CFM, Variable Air Volume Box With analog electronic controls	1,650.56	52.96
			<i>For Hot Water Coils, Add</i>	40.55	
			<i>For Filters And Frames, Add</i>	6.30	
			EA 12" Diameter Inlet, 235 - 2,000 CFM, Variable Air Volume Box With analog electronic controls	1,729.62	59.35
			<i>For Hot Water Coils, Add</i>	40.55	
			<i>For Filters And Frames, Add</i>	6.30	
			EA 14" Diameter Inlet, 320 - 3,000 CFM, Variable Air Volume Box With analog electronic controls	1,907.54	127.75
			<i>For Hot Water Coils, Add</i>	40.55	
			<i>For Filters And Frames, Add</i>	6.30	
			EA 16" Diameter Inlet, 420 - 4,000 CFM, Variable Air Volume Box With analog electronic controls	1,942.60	127.75
			<i>For Hot Water Coils, Add</i>	40.55	
			<i>For Filters And Frames, Add</i>	6.30	

23 36 16 00-0023			Dual Duct Variable Volume Terminal Unit <small>(23 36 16 00-0001)</small> Note: With flow control installation, plenum system power box, thermostat.		
			EA 6" Diameter Inlet, 75 - 500 CFM, Variable Air Volume Box, Dual Duct	1,051.14	83.01
			<i>For Filters And Frames, Add</i>	6.30	
			EA 8" Diameter Inlet, 200 - 700 CFM, Variable Air Volume Box, Dual Duct	1,149.46	94.51
			<i>For Filters And Frames, Add</i>	6.30	
			EA 10" Diameter Inlet, 400 - 1,000 CFM, Variable Air Volume Box, Dual Duct	1,230.49	106.75
			<i>For Filters And Frames, Add</i>	6.30	
			EA 12" Diameter Inlet, 600 - 1,400 CFM, Variable Air Volume Box, Dual Duct	1,349.42	119.08
			<i>For Filters And Frames, Add</i>	6.30	
			EA 14" Diameter Inlet, 800 - 2,700 CFM, Variable Air Volume Box, Dual Duct	1,516.98	136.98
			<i>For Filters And Frames, Add</i>	6.30	
			EA 16" Diameter Inlet, 1,000 - 3,500 CFM, Variable Air Volume Box, Dual Duct	1,665.93	164.37
			<i>For Filters And Frames, Add</i>	6.30	

23 36 16 00-0030			Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M) <small>(23 36 16 00-0001)</small>		
			EA 0 To 200 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-A)	403.78	57.08
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 300 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-B)	438.91	62.78
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-C)	474.88	68.49
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-D)	511.77	74.20
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-E)	549.66	79.90
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 1,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-F)	588.59	85.61
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 1,100 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-G)	631.54	91.32
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 1,900 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-H)	673.01	97.03
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 2,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-J)	715.78	102.74
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 3,800 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-K)	759.95	108.44
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-L)	805.63	114.15
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 5,400 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-M)	852.87	119.85
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 6,700 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-N)	901.84	125.57
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 10,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-P)	948.69	131.27
			<i>For Filters And Frames, Add</i>	6.30	
			EA 0 To 15,000 CFM Digital Control, Constant Volume To Variable Volume Retrofit Terminal Unit (Titus DQCV-R)	1,001.17	136.98
			<i>For Filters And Frames, Add</i>	6.30	

23 37 Air Outlets And Inlets (23 30)

23 37 13 Diffusers, Registers, And Grilles (23 37)

23 37 13 13 Diffusers, Registers, and Grilles (23 37 13)

23 37 13 13-0001 Ceiling Diffusers (23 37 13 13)

23 37 13 13-0002 Ceiling Diffusers With Perforated Face (23 37 13 13-0001)

Note: Flush mount, aluminum construction, includes damper.

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets And Inlets



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0003	EA	6" x 6" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	84.37	11.87
		<i>For Steel Construction, Deduct</i>	-5.61	
		<i>For Surface Mount, Deduct</i>	-4.49	
		<i>For Diffuser Without Damper, Deduct</i>	-7.48	
		<i>For Stainless Steel, Add</i>	93.53	
23 37 13 13-0004	EA	8" x 8" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	92.68	11.87
		<i>For Steel Construction, Deduct</i>	-6.86	
		<i>For Surface Mount, Deduct</i>	-5.49	
		<i>For Diffuser Without Damper, Deduct</i>	-9.14	
		<i>For Stainless Steel, Add</i>	114.30	
23 37 13 13-0005	EA	9" x 9" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	92.68	11.87
		<i>For Steel Construction, Deduct</i>	-6.86	
		<i>For Surface Mount, Deduct</i>	-5.49	
		<i>For Diffuser Without Damper, Deduct</i>	-9.14	
		<i>For Stainless Steel, Add</i>	114.30	
23 37 13 13-0006	EA	10" x 10" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	111.41	14.61
		<i>For Steel Construction, Deduct</i>	-8.21	
		<i>For Surface Mount, Deduct</i>	-6.57	
		<i>For Diffuser Without Damper, Deduct</i>	-10.95	
		<i>For Stainless Steel, Add</i>	136.83	
23 37 13 13-0007	EA	12" x 12" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	111.41	13.70
		<i>For Steel Construction, Deduct</i>	-8.21	
		<i>For Surface Mount, Deduct</i>	-6.57	
		<i>For Diffuser Without Damper, Deduct</i>	-10.95	
		<i>For Stainless Steel, Add</i>	136.83	
23 37 13 13-0008	EA	16" x 16" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	126.65	13.70
		<i>For Steel Construction, Deduct</i>	-10.50	
		<i>For Surface Mount, Deduct</i>	-8.40	
		<i>For Diffuser Without Damper, Deduct</i>	-13.99	
		<i>For Stainless Steel, Add</i>	174.93	
23 37 13 13-0009	EA	18" x 18" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	146.39	18.26
		<i>For Steel Construction, Deduct</i>	-11.28	
		<i>For Surface Mount, Deduct</i>	-9.03	
		<i>For Diffuser Without Damper, Deduct</i>	-15.05	
		<i>For Stainless Steel, Add</i>	188.08	
23 37 13 13-0010	EA	20" x 20" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	168.66	19.18
		<i>For Steel Construction, Deduct</i>	-14.09	
		<i>For Surface Mount, Deduct</i>	-11.27	
		<i>For Diffuser Without Damper, Deduct</i>	-18.79	
		<i>For Stainless Steel, Add</i>	234.85	
23 37 13 13-0011	EA	24" x 24" Ceiling Diffuser With Perforated Face, Flush Mount, Aluminum Construction With Damper	191.44	21.92
		<i>For Steel Construction, Deduct</i>	-15.67	
		<i>For Surface Mount, Deduct</i>	-12.54	
		<i>For Lay-In Mount, Deduct</i>	-12.54	
		<i>For Diffuser Without Damper, Deduct</i>	-20.89	
		<i>For Stainless Steel, Add</i>	261.18	
23 37 13 13-0012		Ceiling Diffusers With Louver Face <small>(23 37 13 13-0001)</small>		
		Note: 1 To 4 way adjustable pattern, surface mount aluminum construction.		
23 37 13 13-0013	EA	6" x 6" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	87.14	11.87
		<i>For Steel Construction, Deduct</i>	-6.03	
		<i>For Flush Mount, Add</i>	6.03	
		<i>For Stainless Steel, Add</i>	100.45	
23 37 13 13-0014	EA	8" x 8" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	97.95	11.87
		<i>For Steel Construction, Deduct</i>	-7.65	
		<i>For Flush Mount, Add</i>	7.65	
		<i>For Stainless Steel, Add</i>	127.48	
23 37 13 13-0015	EA	9" x 9" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	97.95	11.87
		<i>For Steel Construction, Deduct</i>	-7.65	
		<i>For Flush Mount, Add</i>	7.65	
		<i>For Stainless Steel, Add</i>	127.48	
23 37 13 13-0016	EA	10" x 10" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	117.64	13.70
		<i>For Steel Construction, Deduct</i>	-9.14	
		<i>For Flush Mount, Add</i>	9.14	
		<i>For Stainless Steel, Add</i>	152.40	
23 37 13 13-0017	EA	12" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	117.64	14.61
		<i>For Steel Construction, Deduct</i>	-9.14	
		<i>For Flush Mount, Add</i>	9.14	
		<i>For Stainless Steel, Add</i>	152.40	
23 37 13 13-0018	EA	24" x 12" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	151.28	18.26
		<i>For Steel Construction, Deduct</i>	-11.97	
		<i>For Flush Mount, Add</i>	11.97	
		<i>For Stainless Steel, Add</i>	199.53	
23 37 13 13-0019	EA	14" x 14" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper	136.59	18.26
		<i>For Steel Construction, Deduct</i>	-9.77	
		<i>For Flush Mount, Add</i>	9.77	
		<i>For Stainless Steel, Add</i>	162.80	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0020 EA 18" x 18" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	170.06	21.92
<i>For Steel Construction, Deduct</i>	-12.53	
<i>For Flush Mount, Add</i>	12.53	
<i>For Stainless Steel, Add</i>	208.88	
23 37 13 13-0021 EA 21" x 21" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	195.12	24.65
<i>For Steel Construction, Deduct</i>	-15.59	
<i>For Flush Mount, Add</i>	15.59	
<i>For Stainless Steel, Add</i>	259.78	
23 37 13 13-0022 EA 24" x 24" Ceiling Diffuser, Louver Face, Adjustable Pattern, Surface Mounted, Aluminum Construction With Damper.....	212.66	48.30
<i>For Steel Construction, Deduct</i>	-17.40	
<i>For Flush Mount, Add</i>	17.40	
<i>For Lay-In Mount, Add</i>	23.19	
<i>For Stainless Steel, Add</i>	289.93	
23 37 13 13-0023 Round Ceiling Diffusers With Fixed Pattern (23 37 13 13-0001)		
Note: Aluminum construction.		
23 37 13 13-0024 EA 6" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	136.90	11.87
<i>For Steel Construction, Deduct</i>	-26.98	
<i>For Stainless Steel, Add</i>	224.85	
23 37 13 13-0025 EA 8" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	141.51	11.87
<i>For Steel Construction, Deduct</i>	-28.37	
<i>For Stainless Steel, Add</i>	236.38	
23 37 13 13-0026 EA 10" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	160.45	14.61
<i>For Steel Construction, Deduct</i>	-31.13	
<i>For Stainless Steel, Add</i>	259.43	
23 37 13 13-0027 EA 12" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	171.98	13.70
<i>For Steel Construction, Deduct</i>	-34.59	
<i>For Stainless Steel, Add</i>	288.25	
23 37 13 13-0028 EA 14" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	243.32	16.43
<i>For Steel Construction, Deduct</i>	-53.27	
<i>For Stainless Steel, Add</i>	443.93	
23 37 13 13-0029 EA 16" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	256.43	17.35
<i>For Steel Construction, Deduct</i>	-56.38	
<i>For Stainless Steel, Add</i>	469.85	
23 37 13 13-0030 EA 18" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	269.79	18.26
<i>For Steel Construction, Deduct</i>	-59.50	
<i>For Stainless Steel, Add</i>	495.80	
23 37 13 13-0031 EA 20" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	310.45	18.26
<i>For Steel Construction, Deduct</i>	-70.72	
<i>For Stainless Steel, Add</i>	589.33	
23 37 13 13-0032 EA 24" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	369.16	21.00
<i>For Steel Construction, Deduct</i>	-86.09	
<i>For Stainless Steel, Add</i>	717.43	
23 37 13 13-0033 EA 28" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	414.48	21.92
<i>For Steel Construction, Deduct</i>	-98.39	
<i>For Stainless Steel, Add</i>	819.93	
23 37 13 13-0034 EA 32" Round Ceiling Diffuser With Fixed Pattern, Aluminum Construction.....	493.84	24.65
<i>For Steel Construction, Deduct</i>	-119.15	
<i>For Stainless Steel, Add</i>	992.88	
23 37 13 13-0035 Round Ceiling Diffusers With Adjustable Pattern Dropped Style (23 37 13 13-0001)		
Note: Aluminum construction.		
23 37 13 13-0036 EA 6" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	143.81	11.87
<i>For Steel Construction, Deduct</i>	-9.69	
<i>For Flush Mount, Deduct</i>	-4.84	
<i>For Stainless Steel, Add</i>	242.13	
23 37 13 13-0037 EA 8" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	155.73	11.87
<i>For Steel Construction, Deduct</i>	-10.88	
<i>For Flush Mount, Deduct</i>	-5.44	
<i>For Stainless Steel, Add</i>	271.93	
23 37 13 13-0038 EA 10" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	177.11	14.61
<i>For Steel Construction, Deduct</i>	-12.04	
<i>For Flush Mount, Deduct</i>	-6.02	
<i>For Stainless Steel, Add</i>	301.08	
23 37 13 13-0039 EA 12" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	190.43	14.61
<i>For Steel Construction, Deduct</i>	-13.38	
<i>For Flush Mount, Deduct</i>	-6.69	
<i>For Stainless Steel, Add</i>	334.38	
23 37 13 13-0040 EA 14" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	273.29	16.43
<i>For Steel Construction, Deduct</i>	-20.75	
<i>For Flush Mount, Deduct</i>	-10.38	
<i>For Stainless Steel, Add</i>	518.85	
23 37 13 13-0041 EA 16" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	228.61	17.35
<i>For Steel Construction, Deduct</i>	-22.18	
<i>For Flush Mount, Deduct</i>	-11.09	
<i>For Stainless Steel, Add</i>	554.40	
23 37 13 13-0042 EA 18" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	307.46	18.26
<i>For Steel Construction, Deduct</i>	-23.60	
<i>For Flush Mount, Deduct</i>	-11.80	
<i>For Stainless Steel, Add</i>	589.98	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets And Inlets**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0043 EA 20" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	355.29	19.18
For Steel Construction, Deduct	-28.06	
For Flush Mount, Deduct	-14.03	
For Stainless Steel, Add	701.43	
23 37 13 13-0044 EA 24" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	400.94	21.00
For Steel Construction, Deduct	-31.88	
For Flush Mount, Deduct	-15.94	
For Stainless Steel, Add	796.88	
23 37 13 13-0045 EA 28" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	483.66	21.92
For Steel Construction, Deduct	-39.72	
For Flush Mount, Deduct	-19.86	
For Stainless Steel, Add	992.88	
23 37 13 13-0046 EA 32" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	581.22	24.65
For Steel Construction, Deduct	-48.45	
For Flush Mount, Deduct	-24.23	
For Stainless Steel, Add	1,211.33	
23 37 13 13-0047 EA 36" Round Ceiling Diffuser With Adjustable Pattern, Aluminum Construction.....	643.13	51.41
For Stainless Steel, Add	1,350.98	
23 37 13 13-0048 Linear Type Ceiling Diffusers With 2-Way Air Deflection (23 37 13 13-0001)		
23 37 13 13-0049 LF 4" Linear Type Ceiling Diffuser 40-200 CFM/LF, With 2-Way Air Deflection.....	112.99	13.70
For Stainless Steel, Add	145.50	
23 37 13 13-0050 LF 6-1/4" Linear Type Ceiling Diffuser, 41 - 206 CFM/LF, With 2-Way Air Deflection.....	120.90	13.70
For Stainless Steel, Add	165.28	
23 37 13 13-0051 LF 9-1/4" Linear Type Ceiling Diffuser, 62 - 312 CFM/LF, With 2-Way Air Deflection.....	130.63	13.70
For Stainless Steel, Add	189.60	
23 37 13 13-0052 LF 12-1/4" Linear Type Ceiling Diffuser, 131 - 656 CFM/LF, With 2-Way Air Deflection.....	140.11	13.70
For Stainless Steel, Add	213.30	
23 37 13 13-0053 Wall And Floor Diffusers (23 37 13 13)		
23 37 13 13-0054 Slot Type Linear Diffusers (23 37 13 13-0053)		
Note: For sidewall sill or ceiling 1/2" 3/4" or 1" slot spacing 1-1/8" border.		
23 37 13 13-0055 LF 1 Slot Linear Diffusers 10 - 70 CFM/LF, Sidewall, Sill, Ceiling.....	38.40	4.57
For 3/4" Border, Add	4.81	
For Floor Mounted Diffusers, Add	5.77	
For Stainless Steel, Add	24.99	
23 37 13 13-0056 LF 2 Slot Linear Diffusers 20 - 140 CFM/LF, Sidewall, Sill, Ceiling.....	46.61	5.47
For 3/4" Border, Add	6.41	
For Floor Mounted Diffusers, Add	7.69	
For Stainless Steel, Add	33.31	
23 37 13 13-0057 LF 3 Slot Linear Diffusers 30 - 210 CFM/LF, Sidewall, Sill, Ceiling.....	64.11	6.39
For 3/4" Border, Add	10.09	
For Floor Mounted Diffusers, Add	12.11	
For Stainless Steel, Add	52.47	
23 37 13 13-0058 LF 4 Slot Linear Diffusers 40 - 280 CFM/LF, Sidewall, Sill, Ceiling.....	84.12	6.39
For 3/4" Border, Add	14.41	
For Floor Mounted Diffusers, Add	17.30	
For Stainless Steel, Add	74.95	
23 37 13 13-0059 LF 5 Slot Linear Diffusers 50 - 350 CFM/LF, Sidewall, Sill, Ceiling.....	105.11	7.31
For 3/4" Border, Add	18.74	
For Floor Mounted Diffusers, Add	22.49	
For Stainless Steel, Add	97.44	
23 37 13 13-0060 LF 6 Slot Linear Diffusers 60 - 420 CFM/LF, Sidewall, Sill, Ceiling.....	123.08	9.13
For 3/4" Border, Add	22.10	
For Floor Mounted Diffusers, Add	26.52	
For Stainless Steel, Add	114.92	
23 37 13 13-0061 Linear Bar Grilles And Registers (23 37 13 13-0053)		
Note: For sidewall sill or ceiling or 15 degree deflection 1/2" bar spacing 1" border aluminum construction.		
23 37 13 13-0062 LF 2" Wide Linear Bar Grilles/Registers 30 - 70 CFM/LF, Sidewall, Sill, Ceiling.....	113.87	5.47
For Floor Mount, Add	9.29	
For Opposed Blade Damper, Add	18.58	
For Stainless Steel, Add	120.74	
23 37 13 13-0063 LF 3" Wide Linear Bar Grilles/Registers 55 - 143 CFM/LF, Sidewall, Sill, Ceiling.....	135.85	6.39
For Floor Mount, Add	11.21	
For Opposed Blade Damper, Add	22.42	
For Stainless Steel, Add	145.73	
23 37 13 13-0064 LF 4" Wide Linear Bar Grilles/Registers 80 - 208 CFM/LF, Sidewall, Sill, Ceiling.....	148.18	6.39
For Floor Mount, Add	12.17	
For Opposed Blade Damper, Add	24.34	
For Stainless Steel, Add	158.22	
23 37 13 13-0065 LF 6" Wide Linear Bar Grilles/Registers 125 - 325 CFM/LF, Sidewall, Sill, Ceiling.....	182.01	9.13
For Floor Mount, Add	14.73	
For Opposed Blade Damper, Add	29.47	
For Stainless Steel, Add	191.53	
23 37 13 13-0066 LF 9" Wide Linear Bar Grilles/Registers 225 - 450 CFM/LF, Sidewall, Sill, Ceiling.....	251.54	11.87
For Floor Mount, Add	20.50	
For Opposed Blade Damper, Add	41.00	
For Stainless Steel, Add	266.47	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0067 LF 12" Wide Linear Bar Grilles/Registers 225 - 495 CFM/LF, Sidewall, Sill, Ceiling.....	290.49	13.70
<i>For Floor Mount, Add</i>	23.38	
<i>For Opposed Blade Damper, Add</i>	46.76	
<i>For Stainless Steel, Add</i>	303.95	
23 37 13 13-0068 Return/Exhaust Registers And Grilles (23 37 13 13)		
23 37 13 13-0069 Return/Exhaust Registers With Frame (23 37 13 13-0068)		
Note: Single deflection with opposed blade damper aluminum construction wall or ceiling mount.		
23 37 13 13-0070 EA 8" x 4" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	79.91	7.31
<i>For Steel Construction, Deduct</i>	-10.31	
<i>For Grilles (No Damper), Deduct</i>	-20.63	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	5.16	
<i>For Cube Core Lay In, Add</i>	10.31	
<i>For Stainless Steel, Add</i>	128.93	
23 37 13 13-0071 EA 8" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	91.12	7.31
<i>For Steel Construction, Deduct</i>	-12.56	
<i>For Grilles (No Damper), Deduct</i>	-25.11	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	6.28	
<i>For Cube Core Lay In, Add</i>	12.56	
<i>For Stainless Steel, Add</i>	156.95	
23 37 13 13-0072 EA 10" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	102.38	8.22
<i>For Steel Construction, Deduct</i>	-13.90	
<i>For Grilles (No Damper), Deduct</i>	-27.80	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	6.95	
<i>For Cube Core Lay In, Add</i>	13.90	
<i>For Stainless Steel, Add</i>	173.75	
23 37 13 13-0073 EA 10" x 10" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	107.73	9.13
<i>For Steel Construction, Deduct</i>	-13.90	
<i>For Grilles (No Damper), Deduct</i>	-27.80	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	6.95	
<i>For Cube Core Lay In, Add</i>	13.90	
<i>For Stainless Steel, Add</i>	173.75	
23 37 13 13-0074 EA 12" x 6" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	103.25	9.13
<i>For Steel Construction, Deduct</i>	-13.00	
<i>For Grilles (No Damper), Deduct</i>	-26.01	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	6.50	
<i>For Cube Core Lay In, Add</i>	13.00	
<i>For Stainless Steel, Add</i>	162.55	
23 37 13 13-0075 EA 12" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	132.16	11.87
<i>For Steel Construction, Deduct</i>	-17.04	
<i>For Grilles (No Damper), Deduct</i>	-34.08	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	8.52	
<i>For Cube Core Lay In, Add</i>	17.04	
<i>For Stainless Steel, Add</i>	213.00	
23 37 13 13-0076 EA 16" x 16" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	158.40	13.70
<i>For Steel Construction, Deduct</i>	-20.34	
<i>For Grilles (No Damper), Deduct</i>	-40.69	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	10.17	
<i>For Cube Core Lay In, Add</i>	20.34	
<i>For Stainless Steel, Add</i>	254.30	
23 37 13 13-0077 EA 18" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	193.54	16.43
<i>For Steel Construction, Deduct</i>	-25.56	
<i>For Grilles (No Damper), Deduct</i>	-51.12	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	12.78	
<i>For Cube Core Lay In, Add</i>	25.56	
<i>For Stainless Steel, Add</i>	319.48	
23 37 13 13-0078 EA 20" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	226.22	18.26
<i>For Steel Construction, Deduct</i>	-30.95	
<i>For Grilles (No Damper), Deduct</i>	-61.90	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	15.48	
<i>For Cube Core Lay In, Add</i>	30.95	
<i>For Stainless Steel, Add</i>	386.88	
23 37 13 13-0079 EA 24" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	204.16	18.26
<i>For Steel Construction, Deduct</i>	-25.89	
<i>For Grilles (No Damper), Deduct</i>	-51.78	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	12.94	
<i>For Cube Core Lay In, Add</i>	25.89	
<i>For Stainless Steel, Add</i>	323.60	
23 37 13 13-0080 EA 24" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	231.65	18.26
<i>For Steel Construction, Deduct</i>	-31.39	
<i>For Grilles (No Damper), Deduct</i>	-62.77	
<i>For Removable Core, Add</i>	35.00	
<i>For Cube Core With Frame, Add</i>	15.69	
<i>For Cube Core Lay In, Add</i>	31.39	
<i>For Stainless Steel, Add</i>	392.33	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets And Inlets



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0081 EA 24" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	244.85	21.00
For Steel Construction, Deduct	-32.53	
For Grilles (No Damper), Deduct	-65.06	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	16.27	
For Cube Core Lay In, Add	32.53	
For Stainless Steel, Add	406.65	
23 37 13 13-0082 EA 30" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	259.38	21.92
For Steel Construction, Deduct	-34.57	
For Grilles (No Damper), Deduct	-69.15	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	17.29	
For Cube Core Lay In, Add	34.57	
For Stainless Steel, Add	432.18	
23 37 13 13-0083 EA 30" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	298.46	24.65
For Steel Construction, Deduct	-40.35	
For Grilles (No Damper), Deduct	-80.71	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	20.18	
For Cube Core Lay In, Add	40.35	
For Stainless Steel, Add	504.43	
23 37 13 13-0084 EA 30" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	335.76	29.22
For Steel Construction, Deduct	-43.67	
For Grilles (No Damper), Deduct	-87.34	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	21.84	
For Cube Core Lay In, Add	43.67	
For Stainless Steel, Add	545.88	
23 37 13 13-0085 EA 30" x 30" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	430.70	29.22
For Steel Construction, Deduct	-62.66	
For Grilles (No Damper), Deduct	-125.32	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	31.33	
For Cube Core Lay In, Add	62.66	
For Stainless Steel, Add	783.23	
23 37 13 13-0086 EA 36" x 12" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	362.33	31.96
For Steel Construction, Deduct	-47.18	
For Grilles (No Damper), Deduct	-94.36	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	23.59	
For Cube Core Lay In, Add	47.18	
For Stainless Steel, Add	589.73	
23 37 13 13-0087 EA 36" x 18" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	353.31	31.05
For Steel Construction, Deduct	-45.37	
For Grilles (No Damper), Deduct	-90.75	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	22.69	
For Cube Core Lay In, Add	45.37	
For Stainless Steel, Add	567.18	
23 37 13 13-0088 EA 36" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	401.19	34.70
For Steel Construction, Deduct	-52.84	
For Grilles (No Damper), Deduct	-105.68	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	26.42	
For Cube Core Lay In, Add	52.84	
For Stainless Steel, Add	660.53	
23 37 13 13-0089 EA 36" x 36" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	538.28	37.45
For Steel Construction, Deduct	-77.77	
For Grilles (No Damper), Deduct	-155.54	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	38.89	
For Cube Core Lay In, Add	77.77	
For Stainless Steel, Add	972.13	
23 37 13 13-0090 EA 24" x 20" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	241.61	21.09
For Steel Construction, Deduct	-31.47	
For Grilles (No Damper), Deduct	-62.93	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	15.73	
For Cube Core Lay In, Add	31.47	
For Stainless Steel, Add	393.33	
23 37 13 13-0091 EA 32" x 40" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	436.82	37.34
For Steel Construction, Deduct	-57.48	
For Grilles (No Damper), Deduct	-114.96	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	28.74	
For Cube Core Lay In, Add	57.48	
For Stainless Steel, Add	718.48	
23 37 13 13-0092 EA 48" x 24" Single Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	466.76	36.53
For Steel Construction, Deduct	-65.96	
For Grilles (No Damper), Deduct	-131.91	
For Removable Core, Add	35.00	
For Cube Core With Frame, Add	32.98	
For Cube Core Lay In, Add	65.96	
For Stainless Steel, Add	824.45	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13	13	0093	Return/Exhaust Registers Removable-Reversible <small>(23 37 13 13-0068)</small>		
			Note: Double deflection core and opposed blade damper radiused frame with boarder aluminum construction.		
23 37 13	13	13-0094	EA 8" x 4" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	74.08	7.31
			For Steel Construction, Deduct	-4.57	
			For Flat Frame, Deduct	-0.46	
			For Grilles (No Damper), Deduct	-9.15	
			For Stainless Steel, Add	114.35	
23 37 13	13	13-0095	EA 8" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	74.08	7.31
			For Steel Construction, Deduct	-4.57	
			For Flat Frame, Deduct	-0.46	
			For Grilles (No Damper), Deduct	-9.15	
			For Stainless Steel, Add	114.35	
23 37 13	13	13-0096	EA 10" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	90.72	8.22
			For Steel Construction, Deduct	-5.78	
			For Flat Frame, Deduct	-0.58	
			For Grilles (No Damper), Deduct	-11.57	
			For Stainless Steel, Add	144.60	
23 37 13	13	13-0097	EA 10" x 10" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	104.14	10.04
			For Steel Construction, Deduct	-6.59	
			For Flat Frame, Deduct	-0.66	
			For Grilles (No Damper), Deduct	-13.18	
			For Stainless Steel, Add	164.78	
23 37 13	13	13-0098	EA 12" x 6" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	102.80	9.13
			For Steel Construction, Deduct	-6.46	
			For Flat Frame, Deduct	-0.65	
			For Grilles (No Damper), Deduct	-12.91	
			For Stainless Steel, Add	161.43	
23 37 13	13	13-0099	EA 12" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	133.05	11.87
			For Steel Construction, Deduct	-8.61	
			For Flat Frame, Deduct	-0.86	
			For Grilles (No Damper), Deduct	-17.22	
			For Stainless Steel, Add	215.23	
23 37 13	13	13-0100	EA 16" x 16" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	212.27	14.61
			For Steel Construction, Deduct	-15.56	
			For Flat Frame, Deduct	-1.56	
			For Grilles (No Damper), Deduct	-31.12	
			For Stainless Steel, Add	388.98	
23 37 13	13	13-0101	EA 18" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	255.42	16.43
			For Steel Construction, Deduct	-18.97	
			For Flat Frame, Deduct	-1.90	
			For Grilles (No Damper), Deduct	-37.93	
			For Stainless Steel, Add	474.18	
23 37 13	13	13-0102	EA 20" x 20" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	288.05	18.26
			For Steel Construction, Deduct	-21.66	
			For Flat Frame, Deduct	-2.17	
			For Grilles (No Damper), Deduct	-43.32	
			For Stainless Steel, Add	541.45	
23 37 13	13	13-0103	EA 24" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	241.52	18.26
			For Steel Construction, Deduct	-16.68	
			For Flat Frame, Deduct	-1.67	
			For Grilles (No Damper), Deduct	-33.36	
			For Stainless Steel, Add	417.00	
23 37 13	13	13-0104	EA 24" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	322.24	19.18
			For Steel Construction, Deduct	-24.75	
			For Flat Frame, Deduct	-2.48	
			For Grilles (No Damper), Deduct	-49.50	
			For Stainless Steel, Add	618.80	
23 37 13	13	13-0105	EA 24" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	375.44	21.00
			For Steel Construction, Deduct	-29.33	
			For Flat Frame, Deduct	-2.93	
			For Grilles (No Damper), Deduct	-58.65	
			For Stainless Steel, Add	733.13	
23 37 13	13	13-0106	EA 30" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	290.98	21.92
			For Steel Construction, Deduct	-20.45	
			For Flat Frame, Deduct	-2.04	
			For Grilles (No Damper), Deduct	-40.89	
			For Stainless Steel, Add	511.18	
23 37 13	13	13-0107	EA 30" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	398.01	24.65
			For Steel Construction, Deduct	-30.13	
			For Flat Frame, Deduct	-3.01	
			For Grilles (No Damper), Deduct	-60.26	
			For Stainless Steel, Add	753.30	
23 37 13	13	13-0108	EA 30" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	479.27	29.22
			For Steel Construction, Deduct	-36.19	
			For Flat Frame, Deduct	-3.62	
			For Grilles (No Damper), Deduct	-72.37	
			For Stainless Steel, Add	904.65	
23 37 13	13	13-0109	EA 30" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling	547.20	29.22
			For Steel Construction, Deduct	-42.98	
			For Flat Frame, Deduct	-4.30	
			For Grilles (No Damper), Deduct	-85.96	
			For Stainless Steel, Add	1,074.48	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 30 HVAC Air Distribution****23 37 Air Outlets And Inlets**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 37 13 13-0110	EA	36" x 12" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	377.99	31.05
		<i>For Steel Construction, Deduct</i>	-25.16	
		<i>For Flat Frame, Deduct</i>	-2.52	
		<i>For Grilles (No Damper), Deduct</i>	-50.31	
		<i>For Stainless Steel, Add</i>	628.88	
23 37 13 13-0111	EA	36" x 18" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	507.13	31.05
		<i>For Steel Construction, Deduct</i>	-38.07	
		<i>For Flat Frame, Deduct</i>	-3.81	
		<i>For Grilles (No Damper), Deduct</i>	-76.14	
		<i>For Stainless Steel, Add</i>	951.73	
23 37 13 13-0112	EA	36" x 24" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	586.27	34.70
		<i>For Steel Construction, Deduct</i>	-44.93	
		<i>For Flat Frame, Deduct</i>	-4.49	
		<i>For Grilles (No Damper), Deduct</i>	-89.86	
		<i>For Stainless Steel, Add</i>	1,123.23	
23 37 13 13-0113	EA	36" x 30" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	684.14	37.45
		<i>For Steel Construction, Deduct</i>	-53.47	
		<i>For Flat Frame, Deduct</i>	-5.35	
		<i>For Grilles (No Damper), Deduct</i>	-106.94	
		<i>For Stainless Steel, Add</i>	1,336.78	
23 37 13 13-0114	EA	36" x 36" Double Deflection Return/Exhaust Register, Aluminum, Opposed Blade Damper, Wall/Ceiling.....	721.81	37.45
		<i>For Steel Construction, Deduct</i>	-57.24	
		<i>For Flat Frame, Deduct</i>	-5.72	
		<i>For Grilles (No Damper), Deduct</i>	-114.48	
		<i>For Stainless Steel, Add</i>	1,430.95	

23 37 13 13-0115 Aluminum Eggcrate Ceiling Return Air And Exhaust Grilles (23 37 13 13-0068)

23 37 13 13-0116	EA	6" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	40.30	8.94
23 37 13 13-0117	EA	8" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	40.30	8.94
23 37 13 13-0118	EA	8" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	43.33	8.94
23 37 13 13-0119	EA	8" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	44.54	8.94
23 37 13 13-0120	EA	10" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	43.33	8.94
23 37 13 13-0121	EA	10" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	44.54	8.94
23 37 13 13-0122	EA	10" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	54.18	11.73
23 37 13 13-0123	EA	10" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	55.39	11.73
23 37 13 13-0124	EA	12" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	52.97	11.73
23 37 13 13-0125	EA	12" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	55.39	11.73
23 37 13 13-0126	EA	12" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	56.60	11.73
23 37 13 13-0127	EA	12" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	57.81	11.73
23 37 13 13-0128	EA	14" x 6" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	56.00	11.73
23 37 13 13-0129	EA	14" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	58.42	11.73
23 37 13 13-0130	EA	14" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	59.63	11.73
23 37 13 13-0131	EA	14" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	65.07	11.73
23 37 13 13-0132	EA	16" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	58.42	11.73
23 37 13 13-0133	EA	16" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	62.65	11.73
23 37 13 13-0134	EA	16" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	65.07	11.73
23 37 13 13-0135	EA	16" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	84.96	17.28
23 37 13 13-0136	EA	16" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	86.17	17.28
23 37 13 13-0137	EA	18" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	83.75	17.28
23 37 13 13-0138	EA	18" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	101.87	20.07
23 37 13 13-0139	EA	20" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	82.54	17.28
23 37 13 13-0140	EA	20" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	107.92	20.07
23 37 13 13-0141	EA	22" x 4" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	57.21	11.73
23 37 13 13-0142	EA	22" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	83.75	17.28
23 37 13 13-0143	EA	22" x 22" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	121.20	22.85
23 37 13 13-0144	EA	24" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	82.54	17.28
23 37 13 13-0145	EA	24" x 10" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	84.96	17.28
23 37 13 13-0146	EA	24" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	98.24	20.07
		<i>For Lay-In Installation, Deduct</i>	-42.39	
23 37 13 13-0147	EA	24" x 14" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	101.87	20.07
23 37 13 13-0148	EA	24" x 16" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	113.94	22.85
23 37 13 13-0149	EA	24" x 18" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	117.57	22.85
23 37 13 13-0150	EA	24" x 20" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	121.81	22.85
23 37 13 13-0151	EA	24" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	129.68	22.85
		<i>For Lay-In Installation, Deduct</i>	-48.55	
23 37 13 13-0152	EA	30" x 8" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	100.05	20.07
23 37 13 13-0153	EA	48" x 12" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	157.60	25.05
23 37 13 13-0154	EA	48" x 24" Aluminum Eggcrate Ceiling Return Air And Exhaust Grille.....	262.21	30.61
		<i>For Lay-In Installation, Deduct</i>	-69.86	

23 37 13 13-0155 Supply Registers and Grilles (23 37 13 13)**23 37 13 13-0156 Adjustable Curved Blade Register (23 37 13 13-0155)**

Note: Ceiling mount aluminum construction four way pattern flush frame.

23 37 13 13-0157	EA	6" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern.....	67.49	7.31
		<i>For Steel Construction, Deduct</i>	-5.88	
		<i>For Lay In Frame, Deduct</i>	-9.80	
		<i>For Three Way Pattern, Deduct</i>	-3.92	
		<i>For Two Way Pattern, Deduct</i>	-3.14	
		<i>For One Way Pattern, Deduct</i>	-3.14	
		<i>For Grille (No Damper), Deduct</i>	-5.88	
		<i>For Stainless Steel, Add</i>	98.00	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0158 EA 8" x 8" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	69.80	7.31
For Steel Construction, Deduct	-6.23	
For Lay In Frame, Deduct	-10.38	
For Three Way Pattern, Deduct	-4.15	
For Two Way Pattern, Deduct	-3.32	
For One Way Pattern, Deduct	-3.32	
For Grille (No Damper), Deduct	-6.23	
For Stainless Steel, Add	103.78	
23 37 13 13-0159 EA 12" x 6" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	77.52	10.04
For Steel Construction, Deduct	-5.88	
For Lay In Frame, Deduct	-9.80	
For Three Way Pattern, Deduct	-3.92	
For Two Way Pattern, Deduct	-3.14	
For One Way Pattern, Deduct	-3.14	
For Grille (No Damper), Deduct	-5.88	
For Stainless Steel, Add	98.00	
23 37 13 13-0160 EA 10" x 10" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	85.98	9.13
For Steel Construction, Deduct	-7.15	
For Lay In Frame, Deduct	-11.92	
For Three Way Pattern, Deduct	-4.77	
For Two Way Pattern, Deduct	-3.81	
For One Way Pattern, Deduct	-3.81	
For Grille (No Damper), Deduct	-7.15	
For Stainless Steel, Add	119.15	
23 37 13 13-0161 EA 12" x 12" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	103.44	11.87
For Steel Construction, Deduct	-8.53	
For Lay In Frame, Deduct	-14.22	
For Three Way Pattern, Deduct	-5.69	
For Two Way Pattern, Deduct	-4.55	
For One Way Pattern, Deduct	-4.55	
For Grille (No Damper), Deduct	-8.53	
For Stainless Steel, Add	142.20	
23 37 13 13-0162 EA 14" x 14" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	127.40	13.70
For Steel Construction, Deduct	-10.61	
For Lay In Frame, Deduct	-17.68	
For Three Way Pattern, Deduct	-7.07	
For Two Way Pattern, Deduct	-5.66	
For One Way Pattern, Deduct	-5.66	
For Grille (No Damper), Deduct	-10.61	
For Stainless Steel, Add	176.80	
23 37 13 13-0163 EA 16" x 16" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	127.40	13.70
For Steel Construction, Deduct	-10.61	
For Lay In Frame, Deduct	-17.68	
For Three Way Pattern, Deduct	-7.07	
For Two Way Pattern, Deduct	-5.66	
For One Way Pattern, Deduct	-5.66	
For Grille (No Damper), Deduct	-10.61	
For Stainless Steel, Add	176.80	
23 37 13 13-0164 EA 18" x 18" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	157.25	18.26
For Steel Construction, Deduct	-12.91	
For Lay In Frame, Deduct	-21.52	
For Three Way Pattern, Deduct	-8.61	
For Two Way Pattern, Deduct	-6.89	
For One Way Pattern, Deduct	-6.89	
For Grille (No Damper), Deduct	-12.91	
For Stainless Steel, Add	215.23	
23 37 13 13-0165 EA 24" x 24" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	204.63	19.18
For Steel Construction, Deduct	-19.49	
For Lay In Frame, Deduct	-32.48	
For Three Way Pattern, Deduct	-12.99	
For Two Way Pattern, Deduct	-10.39	
For One Way Pattern, Deduct	-10.39	
For Grille (No Damper), Deduct	-19.49	
For Stainless Steel, Add	324.78	
23 37 13 13-0166 EA 30" x 30" Adjustable Curved Blade Register, Ceiling Mounted, Aluminum Construction, 4-Way Pattern	326.89	38.72
For Steel Construction, Deduct	-37.42	
For Lay In Frame, Deduct	-62.36	
For Three Way Pattern, Deduct	-24.94	
For Two Way Pattern, Deduct	-19.96	
For One Way Pattern, Deduct	-19.96	
For Grille (No Damper), Deduct	-37.42	
For Stainless Steel, Add	623.60	
23 37 13 13-0167 Removable-Reversible Core Registers <small>(23 37 13 13-0155)</small>		
Note: Double deflection radiused frame aluminum construction.		
23 37 13 13-0168 EA 6" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	77.49	7.31
For Steel Construction, Deduct	-4.92	
For Flat Frame, Deduct	-4.92	
For Grille (No Damper), Deduct	-14.76	
For Stainless Steel, Add	123.00	
23 37 13 13-0169 EA 8" x 8" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	97.47	7.31
For Steel Construction, Deduct	-6.92	
For Flat Frame, Deduct	-6.92	
For Grille (No Damper), Deduct	-20.75	
For Stainless Steel, Add	172.95	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets And Inlets



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13	13-0170	EA	12" x 6" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	124.41	10.04
			<i>For Steel Construction, Deduct</i>	-8.61	
			<i>For Flat Frame, Deduct</i>	-8.61	
			<i>For Grille (No Damper), Deduct</i>	-25.83	
			<i>For Stainless Steel, Add</i>	215.23	
23 37 13	13-0171	EA	10" x 10" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	125.95	10.04
			<i>For Steel Construction, Deduct</i>	-8.76	
			<i>For Flat Frame, Deduct</i>	-8.76	
			<i>For Grille (No Damper), Deduct</i>	-26.29	
			<i>For Stainless Steel, Add</i>	219.08	
23 37 13	13-0172	EA	12" x 12" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	160.32	11.87
			<i>For Steel Construction, Deduct</i>	-11.38	
			<i>For Flat Frame, Deduct</i>	-11.38	
			<i>For Grille (No Damper), Deduct</i>	-34.13	
			<i>For Stainless Steel, Add</i>	284.40	
23 37 13	13-0173	EA	14" x 14" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	227.33	14.61
			<i>For Steel Construction, Deduct</i>	-17.07	
			<i>For Flat Frame, Deduct</i>	-17.07	
			<i>For Grille (No Damper), Deduct</i>	-51.20	
			<i>For Stainless Steel, Add</i>	426.63	
23 37 13	13-0174	EA	16" x 16" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	255.00	13.70
			<i>For Steel Construction, Deduct</i>	-19.83	
			<i>For Flat Frame, Deduct</i>	-19.83	
			<i>For Grille (No Damper), Deduct</i>	-59.50	
			<i>For Stainless Steel, Add</i>	495.80	
23 37 13	13-0175	EA	18" x 18" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	307.91	18.26
			<i>For Steel Construction, Deduct</i>	-23.68	
			<i>For Flat Frame, Deduct</i>	-23.68	
			<i>For Grille (No Damper), Deduct</i>	-71.03	
			<i>For Stainless Steel, Add</i>	591.88	
23 37 13	13-0176	EA	24" x 24" Removable/Reversible Core Register, Double Deflection, Radiused Aluminum Frame	386.80	18.26
			<i>For Steel Construction, Deduct</i>	-31.21	
			<i>For Flat Frame, Deduct</i>	-31.21	
			<i>For Grille (No Damper), Deduct</i>	-93.62	
			<i>For Stainless Steel, Add</i>	780.20	

23 37 13 13-0177 Supply Grille, Aluminum Drum With Aluminum Border (23 37 13 13-0155)

Note: Titus DL.

23 37 13	13-0178	EA	9" x 6" Supply Grille, Aluminum Drum	58.26	14.16
			<i>For Stainless Steel, Add</i>	74.93	
23 37 13	13-0179	EA	12" x 6" Supply Grille, Aluminum Drum	81.29	19.18
			<i>For Stainless Steel, Add</i>	107.45	
23 37 13	13-0180	EA	18" x 6" Supply Grille, Aluminum Drum	88.59	19.18
			<i>For Stainless Steel, Add</i>	125.70	
23 37 13	13-0181	EA	24" x 6" Supply Grille, Aluminum Drum	99.41	23.29
			<i>For Stainless Steel, Add</i>	132.13	
23 37 13	13-0182	EA	30" x 6" Supply Grille, Aluminum Drum	126.16	28.40
			<i>For Stainless Steel, Add</i>	173.70	
23 37 13	13-0183	EA	36" x 6" Supply Grille, Aluminum Drum	150.06	28.40
			<i>For Stainless Steel, Add</i>	233.45	
23 37 13	13-0184	EA	48" x 6" Supply Grille, Aluminum Drum	180.20	35.61
			<i>For Stainless Steel, Add</i>	272.63	
23 37 13	13-0185	EA	20" x 10" Supply Grille, Aluminum Drum	102.93	23.29
			<i>For Stainless Steel, Add</i>	140.93	
23 37 13	13-0186	EA	25" x 10" Supply Grille, Aluminum Drum	112.98	28.31
			<i>For Stainless Steel, Add</i>	140.93	
23 37 13	13-0187	EA	30" x 10" Supply Grille, Aluminum Drum	157.12	35.61
			<i>For Stainless Steel, Add</i>	214.78	
23 37 13	13-0188	EA	35" x 10" Supply Grille, Aluminum Drum	180.08	38.35
			<i>For Stainless Steel, Add</i>	258.48	
23 37 13	13-0189	EA	40" x 10" Supply Grille, Aluminum Drum	200.90	40.18
			<i>For Stainless Steel, Add</i>	301.43	
23 37 13	13-0190	EA	20" x 12" Supply Grille, Aluminum Drum	116.61	25.12
			<i>For Stainless Steel, Add</i>	165.98	
23 37 13	13-0191	EA	30" x 12" Supply Grille, Aluminum Drum	171.06	36.53
			<i>For Stainless Steel, Add</i>	245.05	
23 37 13	13-0192	EA	40" x 12" Supply Grille, Aluminum Drum	218.23	41.10
			<i>For Stainless Steel, Add</i>	340.15	
23 37 13	13-0193	EA	15" x 15" Supply Grille, Aluminum Drum	123.80	28.31
			<i>For Stainless Steel, Add</i>	167.98	
23 37 13	13-0194	EA	20" x 15" Supply Grille, Aluminum Drum	138.44	30.14
			<i>For Stainless Steel, Add</i>	195.45	
23 37 13	13-0195	EA	25" x 15" Supply Grille, Aluminum Drum	162.51	35.16
			<i>For Stainless Steel, Add</i>	230.55	
23 37 13	13-0196	EA	30" x 15" Supply Grille, Aluminum Drum	182.96	37.45
			<i>For Stainless Steel, Add</i>	270.25	
23 37 13	13-0197	EA	40" x 15" Supply Grille, Aluminum Drum	220.56	42.00
			<i>For Stainless Steel, Add</i>	341.43	

23 37 13 13-0198 Adjustable Shutter Blade Registers (23 37 13 13-0155)

Note: Double deflection flat frame aluminum construction.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0199 EA 6" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	117.97	7.31
For Steel Construction, Deduct	-8.97	
For Single Deflection, Deduct	-17.94	
For Grille (No Damper), Deduct	-13.45	
For Stainless Steel, Add	224.20	
23 37 13 13-0200 EA 8" x 8" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	135.91	7.31
For Steel Construction, Deduct	-10.76	
For Single Deflection, Deduct	-21.52	
For Grille (No Damper), Deduct	-16.14	
For Stainless Steel, Add	269.05	
23 37 13 13-0201 EA 12" x 6" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	145.94	10.04
For Steel Construction, Deduct	-10.76	
For Single Deflection, Deduct	-21.52	
For Grille (No Damper), Deduct	-16.14	
For Stainless Steel, Add	269.05	
23 37 13 13-0202 EA 10" x 10" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	151.06	9.13
For Steel Construction, Deduct	-11.27	
For Single Deflection, Deduct	-22.55	
For Grille (No Damper), Deduct	-16.91	
For Stainless Steel, Add	281.85	
23 37 13 13-0203 EA 12" x 12" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	184.92	11.87
For Steel Construction, Deduct	-13.84	
For Single Deflection, Deduct	-27.67	
For Grille (No Damper), Deduct	-20.75	
For Stainless Steel, Add	345.90	
23 37 13 13-0204 EA 14" x 14" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	246.29	13.70
For Steel Construction, Deduct	-18.96	
For Single Deflection, Deduct	-37.92	
For Grille (No Damper), Deduct	-28.44	
For Stainless Steel, Add	474.03	
23 37 13 13-0205 EA 16" x 16" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	289.85	14.61
For Steel Construction, Deduct	-23.32	
For Single Deflection, Deduct	-46.63	
For Grille (No Damper), Deduct	-34.98	
For Stainless Steel, Add	582.93	
23 37 13 13-0206 EA 18" x 18" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	358.13	18.26
For Steel Construction, Deduct	-28.70	
For Single Deflection, Deduct	-57.39	
For Grille (No Damper), Deduct	-43.05	
For Stainless Steel, Add	717.43	
23 37 13 13-0207 EA 24" x 24" Adjustable Shutter Blade Register, Double Deflection, Flat Aluminum Frame.....	492.37	19.18
For Steel Construction, Deduct	-41.77	
For Single Deflection, Deduct	-83.53	
For Grille (No Damper), Deduct	-62.65	
For Stainless Steel, Add	1,044.13	
23 37 13 13-0208 Air Conditioning And Ventilation (23 37 13 13-0155)		
23 37 13 13-0209 EA 10" x 16" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	69.27	19.18
For Stainless Steel, Add	77.38	
23 37 13 13-0210 EA 18" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	118.99	28.54
For Stainless Steel, Add	154.78	
23 37 13 13-0211 EA 30" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	183.08	39.95
For Stainless Steel, Add	257.95	
23 37 13 13-0212 EA 48" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	450.06	54.79
For Stainless Steel, Add	851.20	
23 37 13 13-0213 Square Wall Return Air And Exhaust Grilles (23 37 13 13-0155)		
Note: Egg crate design aluminum construction.		
23 37 13 13-0214 EA 8" x 8" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	64.38	22.89
23 37 13 13-0215 EA 12" x 12" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	70.11	22.89
23 37 13 13-0216 EA 18" x 18" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	104.44	34.34
23 37 13 13-0217 EA 24" x 24" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	133.06	34.34
23 37 13 13-0218 EA 28" x 28" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	220.35	45.78
23 37 13 13-0219 EA 36" x 36" Egg Crate Wall Return Air Or Exhaust Grille, Aluminum Construction	393.11	45.66
23 37 13 13-0220 Rectangular Four-Way Adjustable Deflection Wall Supply Grilles (23 37 13 13-0155)		
Note: Aluminum construction.		
23 37 13 13-0221 EA 12" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	172.10	16.48
23 37 13 13-0222 EA 14" x 6" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	195.16	16.48
23 37 13 13-0223 EA 18" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	234.67	18.31
23 37 13 13-0224 EA 24" x 8" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	275.65	18.31
23 37 13 13-0225 EA 36" x 20" 4-Way Adjustable Wall Supply Grille, Adjustable Deflection, Aluminum Construction	356.94	57.22
23 37 13 13-0226 EA 6" x 6" 2, 3, 4-Way Adjustable Wall Supply Grille, Adjustable, Titus Mode 250	73.54	27.46
23 37 13 13-0227 EA 8" x 8" 2, 3, 4-Way Adjustable Wall Supply Grille, Adjustable, Titus Mode 250	78.12	29.76
23 37 13 13-0228 EA 10" x 10" 2, 3, 4-Way Adjustable Wall Supply Grille, Adjustable, Titus Mode 250	89.33	32.04
23 37 13 13-0229 EA 12" x 12" 2, 3, 4-Way Adjustable Wall Supply Grille, Adjustable, Titus Mode 250	95.91	34.34
23 37 13 13-0230 EA 14" x 14" 2, 3, 4-Way Adjustable Wall Supply Grille, Adjustable, Titus Mode 250	105.81	36.62
23 37 13 13-0231 Square Ceiling Return Air And Exhaust Grilles (23 37 13 13-0155)		
Note: Egg crate design, plastic construction.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets And Inlets



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0232 EA 24" x 24" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction.....	34.44	10.96
23 37 13 13-0233 EA 24" x 48" Egg Crate Ceiling Return Air Or Exhaust Grille, Plastic Construction.....	48.97	11.05
23 37 13 13-0234 Door Grilles Sight Proof Inverted Vee Cross Section (23 37 13 13-0155) Note: Painted steel louvers and frame.		
23 37 13 13-0235 EA 12" x 6" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel.....	97.04	16.48
23 37 13 13-0236 EA 12" x 12" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel.....	123.41	16.48
23 37 13 13-0237 EA 18" x 18" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel.....	151.60	17.39
23 37 13 13-0238 EA 24" x 24" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel.....	205.40	20.78
23 37 13 13-0239 EA 24" x 30" Sight Proof Door Grilles, Inverted Vee Cross Section, Painted Steel.....	228.72	38.18
23 37 13 13-0240 Stainless Steel Devices (23 37 13 13-0155)		
23 37 13 13-0241 304 Stainless Steel, Louvered Partition/Door Grilles (23 37 13 13-0240)		
23 37 13 13-0242 SF Up To 4 SF, 304 Stainless Steel, Louvered Partition/Door Grille.....	166.13	14.29
For 316 Stainless Steel, Add	28.47	
23 37 13 13-0243 SF >4 SF, 304 Stainless Steel, Louvered Partition/Door Grille.....	140.16	14.29
For 316 Stainless Steel, Add	23.27	
23 37 13 13-0244 304 Stainless Steel, Single Deflection Supply Grilles (23 37 13 13-0240)		
23 37 13 13-0245 SF Up To 4 SF, 304 Stainless Steel, Single Deflection Supply Grille.....	125.77	14.29
For 316 Stainless Steel, Add	20.39	
23 37 13 13-0246 SF >4 SF, 304 Stainless Steel, Single Deflection Supply Grille.....	106.88	14.29
For 316 Stainless Steel, Add	16.62	
23 37 13 13-0247 304 Stainless Steel, Double Deflection Supply Grilles (23 37 13 13-0240)		
23 37 13 13-0248 SF Up To 4 SF, 304 Stainless Steel, Double Deflection Supply Grille.....	184.19	14.29
For 316 Stainless Steel, Add	32.08	
23 37 13 13-0249 SF >4 SF, 304 Stainless Steel, Double Deflection Supply Grille.....	156.93	14.29
For 316 Stainless Steel, Add	26.63	
23 37 13 13-0250 304 Stainless Steel Return Grilles (23 37 13 13-0240)		
23 37 13 13-0251 SF Up To 4 SF, 304 Stainless Steel Return Grille.....	125.77	14.29
For 316 Stainless Steel, Add	20.39	
23 37 13 13-0252 SF >4 SF, 304 Stainless Steel Return Grille.....	106.88	14.29
For 316 Stainless Steel, Add	16.62	
23 37 13 13-0253 304 Stainless Steel, Louvered Supply/Return Grilles (23 37 13 13-0240)		
23 37 13 13-0254 SF Up To 4 SF, 304 Stainless Steel, Louvered Supply/Return Grille.....	125.77	14.29
For 316 Stainless Steel, Add	20.39	
23 37 13 13-0255 SF >4 SF, 304 Stainless Steel, Louvered Supply/Return Grille.....	106.88	14.29
For 316 Stainless Steel, Add	16.62	
23 37 13 13-0256 304 Stainless Steel, Perforated Return Grilles (23 37 13 13-0240)		
23 37 13 13-0257 SF Up To 4 SF, 304 Stainless Steel, Perforated Return Grille.....	125.77	14.29
For 316 Stainless Steel, Add	20.39	
23 37 13 13-0258 SF >4 SF, 304 Stainless Steel, Perforated Return Grille.....	101.69	14.29
For 316 Stainless Steel, Add	15.58	
23 37 13 13-0259 304 Stainless Steel, Perforated Supply Grilles (23 37 13 13-0240)		
23 37 13 13-0260 SF Up To 4 SF, 304 Stainless Steel, Perforated Supply Grille.....	152.32	14.29
For 316 Stainless Steel, Add	25.70	
23 37 13 13-0261 SF >4 SF, 304 Stainless Steel, Perforated Supply Grille.....	104.45	14.29
For 316 Stainless Steel, Add	16.13	
23 37 13 13-0262 304 Stainless Steel, Door Grilles (23 37 13 13-0240)		
23 37 13 13-0263 SF Up To 4 SF, 304 Stainless Steel, Door Grille.....	227.74	14.29
For 316 Stainless Steel, Add	40.79	
23 37 13 13-0264 SF >4 SF, 304 Stainless Steel, Door Grille.....	189.98	14.29
For 316 Stainless Steel, Add	33.24	
23 37 13 13-0265 304 Stainless Steel, Linear Bar Grilles (23 37 13 13-0240)		
23 37 13 13-0266 SF Up To 4 SF, 304 Stainless Steel, Linear Bar Grille.....	291.12	14.29
For 316 Stainless Steel, Add	53.46	
23 37 13 13-0267 SF >4 SF, 304 Stainless Steel, Linear Bar Grille.....	249.21	14.29
For 316 Stainless Steel, Add	45.08	
23 37 13 13-0268 304 Stainless Steel, Hinged Filter Grilles (23 37 13 13-0240)		
23 37 13 13-0269 SF Up To 4 SF, 304 Stainless Steel, Hinged Filter Grille.....	213.93	14.29
For 316 Stainless Steel, Add	38.03	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 13-0270 SF >4 SF, 304 Stainless Steel, Hinged Filter Grille <i>For 316 Stainless Steel, Add</i>	147.84 24.81	14.29
23 37 13 13-0271 304 Stainless Steel, Opposed Blade Dampers Grilles (23 37 13 13-0240)		
23 37 13 13-0272 SF Up To 4 SF, 304 Stainless Steel, Opposed Blade Dampers Grille..... <i>For 316 Stainless Steel, Add</i>	115.15 18.27	14.29
23 37 13 13-0273 SF Opposed Blade Dampers Grille, Stainless Steel 304, > 4 SF <i>For 316 Stainless Steel, Add</i>	87.65 12.77	14.29
23 37 13 13-0274 304 Stainless Steel, Plaster Frames Replacement (23 37 13 13-0240)		
Note: For frequent replacement.		
23 37 13 13-0275 SF To 4 SF, 304 Stainless Steel, Plaster Frames Replacement <i>For 316 Stainless Steel, Add</i>	89.66 13.17	14.29
23 37 13 13-0276 SF >4 SF, 304 Stainless Steel, Plaster Frames Replacement <i>For 316 Stainless Steel, Add</i>	47.52 4.74	14.29
23 37 13 13-0277 304 Stainless Steel, Modular Louvered Ceiling Diffusers (23 37 13 13-0240)		
23 37 13 13-0278 SF Up To 4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser <i>For 316 Stainless Steel, Add</i>	210.74 37.39	14.29
23 37 13 13-0279 SF >4 SF, 304 Stainless Steel, Modular Louvered Ceiling Diffuser..... <i>For 316 Stainless Steel, Add</i>	164.84 28.21	14.29
23 37 13 13-0280 304 Stainless Steel, Latticed Supply/Return Grilles (23 37 13 13-0240)		
23 37 13 13-0281 SF Up To 4 SF, 304 Stainless Steel, Latticed Supply/Return Grille..... <i>For 316 Stainless Steel, Add</i>	73.72 9.98	14.29
23 37 13 13-0282 SF >4 SF, 304 Stainless Steel, Latticed Supply/Return Grille <i>For 316 Stainless Steel, Add</i>	73.72 9.98	14.29
23 37 13 13-0283 Removal And Reinstallation Of Distribution Devices (23 37 13 13)		
Note: Includes storage and cleaning. Excludes ductwork.		
23 37 13 13-0284 EA Removal And Reinstallation Of Variable Air Volume Terminal Unit .....171.23		
23 37 13 13-0285 EA Removal And Reinstallation Of Fan Powered Variable Volume Terminal Unit.....188.85		
23 37 13 13-0286 EA Removal And Reinstallation Of Lay-in Diffuser/Register/Grille.....28.30		
23 37 13 13-0287 EA Removal And Reinstallation Of Surface Mounted Diffuser/Register/Grille .....38.33		
23 37 13 43 Security Registers and Grilles (23 37 13)		
23 37 13 43-0001 Security Supply Or Return Grille (23 37 13 43)		
Note: Designed for maximum security applications, 3/16" steel face plate with 2" x 2" square holes, 1/4" steel backer plate, 3/16" welded steel sleeve, 10 gauge x 2 wire mesh between face and backer plates, 1" x 1" x 3/16" angle iron frame, standard finish.		
23 37 13 43-0002 EA 8" x 4" Steel Security Grille .....165.63		13.73
<i>For Anchoring Tabs, Add</i>		
<i>For Angle Iron Frame, Add</i>		
<i>For Rear Operated Opposed Blade Damper, Add</i>		
<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>		
<i>For 1" x 1" Square Holes On Face, Add</i>		
<i>For Stainless Steel, Add</i>		
23 37 13 43-0003 EA 8" x 6" Steel Security Grille .....183.30		14.19
<i>For Anchoring Tabs, Add</i>		
<i>For Angle Iron Frame, Add</i>		
<i>For Rear Operated Opposed Blade Damper, Add</i>		
<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>		
<i>For 1" x 1" Square Holes On Face, Add</i>		
<i>For Stainless Steel, Add</i>		
23 37 13 43-0004 EA 8" x 8" Steel Security Grille .....209.99		16.03
<i>For Anchoring Tabs, Add</i>		
<i>For Angle Iron Frame, Add</i>		
<i>For Rear Operated Opposed Blade Damper, Add</i>		
<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>		
<i>For 1" x 1" Square Holes On Face, Add</i>		
<i>For Stainless Steel, Add</i>		
23 37 13 43-0005 EA 10" x 4" Steel Security Grille .....183.95		15.56
<i>For Anchoring Tabs, Add</i>		
<i>For Angle Iron Frame, Add</i>		
<i>For Rear Operated Opposed Blade Damper, Add</i>		
<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>		
<i>For 1" x 1" Square Holes On Face, Add</i>		
<i>For Stainless Steel, Add</i>		
23 37 13 43-0006 EA 10" x 6" Steel Security Grille .....196.25		16.48
<i>For Anchoring Tabs, Add</i>		
<i>For Angle Iron Frame, Add</i>		
<i>For Rear Operated Opposed Blade Damper, Add</i>		
<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>		
<i>For 1" x 1" Square Holes On Face, Add</i>		
<i>For Stainless Steel, Add</i>		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets And Inlets



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0007	EA		10" x 8" Steel Security Grille	224.11	17.86
			<i>For Anchoring Tabs, Add</i>	18.84	
			<i>For Angle Iron Frame, Add</i>	31.83	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	69.51	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	47.10	
			<i>For Stainless Steel, Add</i>	244.93	
23 37 13 43-0008	EA		10" x 10" Steel Security Grille	249.89	19.23
			<i>For Anchoring Tabs, Add</i>	21.14	
			<i>For Angle Iron Frame, Add</i>	35.56	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	77.85	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	52.86	
			<i>For Stainless Steel, Add</i>	274.87	
23 37 13 43-0009	EA		12" x 4" Steel Security Grille	193.90	17.39
			<i>For Anchoring Tabs, Add</i>	15.91	
			<i>For Angle Iron Frame, Add</i>	27.35	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	59.17	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	39.78	
			<i>For Stainless Steel, Add</i>	206.84	
23 37 13 43-0010	EA		12" x 6" Steel Security Grille	216.40	19.23
			<i>For Anchoring Tabs, Add</i>	17.80	
			<i>For Angle Iron Frame, Add</i>	30.54	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	66.13	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	44.49	
			<i>For Stainless Steel, Add</i>	231.34	
23 37 13 43-0011	EA		12" x 8" Steel Security Grille	246.36	20.60
			<i>For Anchoring Tabs, Add</i>	20.52	
			<i>For Angle Iron Frame, Add</i>	34.89	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	75.93	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	51.29	
			<i>For Stainless Steel, Add</i>	266.71	
23 37 13 43-0012	EA		12" x 10" Steel Security Grille	267.94	21.97
			<i>For Anchoring Tabs, Add</i>	22.40	
			<i>For Angle Iron Frame, Add</i>	37.99	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	82.79	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	56.00	
			<i>For Stainless Steel, Add</i>	291.20	
23 37 13 43-0013	EA		12" x 12" Steel Security Grille	295.82	23.35
			<i>For Anchoring Tabs, Add</i>	24.91	
			<i>For Angle Iron Frame, Add</i>	42.04	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	91.86	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	62.28	
			<i>For Stainless Steel, Add</i>	323.87	
23 37 13 43-0014	EA		14" x 4" Steel Security Grille	207.10	18.77
			<i>For Anchoring Tabs, Add</i>	16.96	
			<i>For Angle Iron Frame, Add</i>	29.19	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	63.10	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	42.39	
			<i>For Stainless Steel, Add</i>	220.44	
23 37 13 43-0015	EA		14" x 6" Steel Security Grille	232.88	20.14
			<i>For Anchoring Tabs, Add</i>	19.26	
			<i>For Angle Iron Frame, Add</i>	32.92	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	71.44	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	48.15	
			<i>For Stainless Steel, Add</i>	250.38	
23 37 13 43-0016	EA		14" x 8" Steel Security Grille	259.57	21.97
			<i>For Anchoring Tabs, Add</i>	21.56	
			<i>For Angle Iron Frame, Add</i>	36.74	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	79.86	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	53.91	
			<i>For Stainless Steel, Add</i>	280.32	
23 37 13 43-0017	EA		14" x 10" Steel Security Grille	292.55	23.80
			<i>For Anchoring Tabs, Add</i>	24.49	
			<i>For Angle Iron Frame, Add</i>	41.50	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	90.49	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	61.24	
			<i>For Stainless Steel, Add</i>	318.42	
23 37 13 43-0018	EA		14" x 12" Steel Security Grille	322.24	26.10
			<i>For Anchoring Tabs, Add</i>	27.01	
			<i>For Angle Iron Frame, Add</i>	45.73	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	99.74	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	67.52	
			<i>For Stainless Steel, Add</i>	351.08	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0019 EA 14" x 14" Steel Security Grille	346.84	27.93
For Anchoring Tabs, Add	29.10	
For Angle Iron Frame, Add	49.23	
For Rear Operated Opposed Blade Damper, Add	107.43	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	72.75	
For Stainless Steel, Add	378.30	
23 37 13 43-0020 EA 16" x 6" Steel Security Grille	249.10	21.97
For Anchoring Tabs, Add	20.52	
For Angle Iron Frame, Add	35.17	
For Rear Operated Opposed Blade Damper, Add	76.20	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	51.29	
For Stainless Steel, Add	266.71	
23 37 13 43-0021 EA 16" x 8" Steel Security Grille	284.17	23.80
For Anchoring Tabs, Add	23.66	
For Angle Iron Frame, Add	40.25	
For Rear Operated Opposed Blade Damper, Add	87.56	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	59.14	
For Stainless Steel, Add	307.53	
23 37 13 43-0022 EA 16" x 10" Steel Security Grille	306.68	25.63
For Anchoring Tabs, Add	25.54	
For Angle Iron Frame, Add	43.44	
For Rear Operated Opposed Blade Damper, Add	94.52	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	63.85	
For Stainless Steel, Add	332.03	
23 37 13 43-0023 EA 16" x 12" Steel Security Grille	345.01	27.01
For Anchoring Tabs, Add	29.10	
For Angle Iron Frame, Add	49.05	
For Rear Operated Opposed Blade Damper, Add	107.25	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	72.75	
For Stainless Steel, Add	378.30	
23 37 13 43-0024 EA 16" x 14" Steel Security Grille	365.42	28.84
For Anchoring Tabs, Add	30.77	
For Angle Iron Frame, Add	51.93	
For Rear Operated Opposed Blade Damper, Add	113.48	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	76.94	
For Stainless Steel, Add	400.06	
23 37 13 43-0025 EA 16" x 16" Steel Security Grille	396.30	30.67
For Anchoring Tabs, Add	33.50	
For Angle Iron Frame, Add	56.38	
For Rear Operated Opposed Blade Damper, Add	123.37	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	83.74	
For Stainless Steel, Add	435.45	
23 37 13 43-0026 EA 18" x 6" Steel Security Grille	265.07	24.72
For Anchoring Tabs, Add	21.56	
For Angle Iron Frame, Add	37.29	
For Rear Operated Opposed Blade Damper, Add	80.41	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	53.91	
For Stainless Steel, Add	280.32	
23 37 13 43-0027 EA 18" x 8" Steel Security Grille	302.23	26.55
For Anchoring Tabs, Add	24.91	
For Angle Iron Frame, Add	42.68	
For Rear Operated Opposed Blade Damper, Add	92.51	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	62.28	
For Stainless Steel, Add	323.87	
23 37 13 43-0028 EA 18" x 10" Steel Security Grille	331.02	28.38
For Anchoring Tabs, Add	27.43	
For Angle Iron Frame, Add	46.81	
For Rear Operated Opposed Blade Damper, Add	101.66	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	68.56	
For Stainless Steel, Add	356.53	
23 37 13 43-0029 EA 18" x 12" Steel Security Grille	363.99	30.21
For Anchoring Tabs, Add	30.36	
For Angle Iron Frame, Add	51.58	
For Rear Operated Opposed Blade Damper, Add	112.29	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	75.89	
For Stainless Steel, Add	394.63	
23 37 13 43-0030 EA 18" x 14" Steel Security Grille	388.20	29.76
For Anchoring Tabs, Add	32.87	
For Angle Iron Frame, Add	55.25	
For Rear Operated Opposed Blade Damper, Add	120.99	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	82.17	
For Stainless Steel, Add	427.28	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets And Inlets



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0031	EA		18" x 16" Steel Security Grille	424.43	31.13
			<i>For Anchoring Tabs, Add</i>	36.22	
			<i>For Angle Iron Frame, Add</i>	60.55	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	132.99	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	90.54	
			<i>For Stainless Steel, Add</i>	470.82	
23 37 13 43-0032	EA		18" x 18" Steel Security Grille	454.40	32.50
			<i>For Anchoring Tabs, Add</i>	38.94	
			<i>For Angle Iron Frame, Add</i>	64.91	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	142.79	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	97.35	
			<i>For Stainless Steel, Add</i>	506.21	
23 37 13 43-0033	EA		20" x 6" Steel Security Grille	284.30	27.01
			<i>For Anchoring Tabs, Add</i>	23.03	
			<i>For Angle Iron Frame, Add</i>	39.94	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	86.00	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	57.57	
			<i>For Stainless Steel, Add</i>	299.36	
23 37 13 43-0034	EA		20" x 8" Steel Security Grille	321.21	29.76
			<i>For Anchoring Tabs, Add</i>	26.17	
			<i>For Angle Iron Frame, Add</i>	45.21	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	97.54	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	65.42	
			<i>For Stainless Steel, Add</i>	340.20	
23 37 13 43-0035	EA		20" x 10" Steel Security Grille	353.26	31.13
			<i>For Anchoring Tabs, Add</i>	29.10	
			<i>For Angle Iron Frame, Add</i>	49.88	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	108.08	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	72.75	
			<i>For Stainless Steel, Add</i>	378.30	
23 37 13 43-0036	EA		20" x 12" Steel Security Grille	388.32	32.96
			<i>For Anchoring Tabs, Add</i>	32.24	
			<i>For Angle Iron Frame, Add</i>	54.95	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	119.43	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	80.60	
			<i>For Stainless Steel, Add</i>	419.12	
23 37 13 43-0037	EA		20" x 14" Steel Security Grille	426.65	34.34
			<i>For Anchoring Tabs, Add</i>	35.80	
			<i>For Angle Iron Frame, Add</i>	60.56	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	132.16	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	89.50	
			<i>For Stainless Steel, Add</i>	465.39	
23 37 13 43-0038	EA		20" x 16" Steel Security Grille	460.80	35.70
			<i>For Anchoring Tabs, Add</i>	38.94	
			<i>For Angle Iron Frame, Add</i>	65.55	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	143.43	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	97.35	
			<i>For Stainless Steel, Add</i>	506.21	
23 37 13 43-0039	EA		20" x 18" Steel Security Grille	492.86	37.08
			<i>For Anchoring Tabs, Add</i>	41.87	
			<i>For Angle Iron Frame, Add</i>	70.22	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	153.96	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	104.68	
			<i>For Stainless Steel, Add</i>	544.31	
23 37 13 43-0040	EA		20" x 20" Steel Security Grille	531.19	38.46
			<i>For Anchoring Tabs, Add</i>	45.43	
			<i>For Angle Iron Frame, Add</i>	75.83	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	166.69	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	113.57	
			<i>For Stainless Steel, Add</i>	590.58	
23 37 13 43-0041	EA		24" x 6" Steel Security Grille	315.83	30.21
			<i>For Anchoring Tabs, Add</i>	25.54	
			<i>For Angle Iron Frame, Add</i>	44.35	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	95.44	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	63.85	
			<i>For Stainless Steel, Add</i>	332.03	
23 37 13 43-0042	EA		24" x 8" Steel Security Grille	356.91	32.96
			<i>For Anchoring Tabs, Add</i>	29.10	
			<i>For Angle Iron Frame, Add</i>	50.24	
			<i>For Rear Operated Opposed Blade Damper, Add</i>	108.44	
			<i>For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add</i>	0.35	
			<i>For 1" x 1" Square Holes On Face, Add</i>	72.75	
			<i>For Stainless Steel, Add</i>	378.30	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 37 13 43-0043 EA 24" x 10" Steel Security Grille	390.15	33.87
For Anchoring Tabs, Add	32.24	
For Angle Iron Frame, Add	55.14	
For Rear Operated Opposed Blade Damper, Add	119.62	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	80.60	
For Stainless Steel, Add	419.12	
23 37 13 43-0044 EA 24" x 12" Steel Security Grille	437.24	37.54
For Anchoring Tabs, Add	36.22	
For Angle Iron Frame, Add	61.83	
For Rear Operated Opposed Blade Damper, Add	134.27	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	90.54	
For Stainless Steel, Add	470.82	
23 37 13 43-0045 EA 24" x 14" Steel Security Grille	471.40	38.91
For Anchoring Tabs, Add	39.36	
For Angle Iron Frame, Add	66.82	
For Rear Operated Opposed Blade Damper, Add	145.54	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	98.40	
For Stainless Steel, Add	511.65	
23 37 13 43-0046 EA 24" x 16" Steel Security Grille	513.91	40.29
For Anchoring Tabs, Add	43.34	
For Angle Iron Frame, Add	73.06	
For Rear Operated Opposed Blade Damper, Add	159.73	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	108.34	
For Stainless Steel, Add	563.36	
23 37 13 43-0047 EA 24" x 18" Steel Security Grille	562.71	41.66
For Anchoring Tabs, Add	47.94	
For Angle Iron Frame, Add	80.24	
For Rear Operated Opposed Blade Damper, Add	176.12	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	119.85	
For Stainless Steel, Add	623.23	
23 37 13 43-0048 EA 24" x 20" Steel Security Grille	596.86	43.04
For Anchoring Tabs, Add	51.08	
For Angle Iron Frame, Add	85.23	
For Rear Operated Opposed Blade Damper, Add	187.39	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	127.70	
For Stainless Steel, Add	664.05	
23 37 13 43-0049 EA 24" x 24" Steel Security Grille	669.34	45.78
For Anchoring Tabs, Add	57.78	
For Angle Iron Frame, Add	95.82	
For Rear Operated Opposed Blade Damper, Add	211.38	
For Each Square Inch With 1/4" Steel Backer Plate Case Hardened To Rockwell "C" 56/58, Add	0.35	
For 1" x 1" Square Holes On Face, Add	144.45	
For Stainless Steel, Add	751.14	

23 37 23 HVAC Gravity Ventilators (23 37)

23 37 23 13 HVAC Gravity Dome Ventilators (23 37 23)

23 37 23 13-0001 Rectangular Gravity Intake/Refill Ventilator Hood (23 37 23 13)

Note: Includes flange base and bird screen. Excludes curb.

23 37 23 13-0002 EA 8" x 8" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	546.93	52.96
23 37 23 13-0003 EA 8" x 12" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	582.50	60.64
23 37 23 13-0004 EA 8" x 18" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	727.90	75.43
23 37 23 13-0005 EA 8" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	775.32	80.27
23 37 23 13-0006 EA 8" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	904.93	93.42
23 37 23 13-0007 EA 10" x 10" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	643.23	60.27
23 37 23 13-0008 EA 12" x 12" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	708.50	67.94
23 37 23 13-0009 EA 12" x 18" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	817.24	73.06
23 37 23 13-0010 EA 12" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	897.36	88.55
23 37 23 13-0011 EA 12" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,026.60	94.98
23 37 23 13-0012 EA 12" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,155.70	100.81
23 37 23 13-0013 EA 14" x 14" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	765.18	68.76
23 37 23 13-0014 EA 14" x 18" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	871.97	78.35
23 37 23 13-0015 EA 14" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	978.77	87.94
23 37 23 13-0016 EA 14" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,103.29	99.17
23 37 23 13-0017 EA 14" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,245.72	111.95
23 37 23 13-0018 EA 16" x 16" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	925.32	83.19
23 37 23 13-0019 EA 16" x 20" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	960.94	86.39
23 37 23 13-0020 EA 16" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,067.73	95.97
23 37 23 13-0021 EA 16" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,210.06	108.76
23 37 23 13-0022 EA 16" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,352.39	121.54
23 37 23 13-0023 EA 16" x 42" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,548.16	139.17
23 37 23 13-0024 EA 18" x 18" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	919.15	82.01
23 37 23 13-0025 EA 18" x 24" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,069.53	95.43
23 37 23 13-0026 EA 18" x 30" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,219.98	108.85
23 37 23 13-0027 EA 18" x 36" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,387.08	123.74
23 37 23 13-0028 EA 18" x 42" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	1,537.46	137.16
23 37 23 13-0029 EA 20" x 20" Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI).....	969.94	90.95

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 30 HVAC Air Distribution

23 37 Air Outlets And Inlets



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 37 23 13-0030	EA	20" x 24"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,097.09	102.92
23 37 23 13-0031	EA	20" x 30"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,224.33	114.79
23 37 23 13-0032	EA	20" x 36"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,415.15	132.68
23 37 23 13-0033	EA	20" x 42"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,558.22	146.11
23 37 23 13-0034	EA	24" x 24"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,230.50	122.28
23 37 23 13-0035	EA	24" x 30"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,365.53	135.70
23 37 23 13-0036	EA	24" x 36"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,560.64	155.06
23 37 23 13-0037	EA	24" x 42"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,710.69	169.95
23 37 23 13-0038	EA	24" x 48"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,875.76	186.38
23 37 23 13-0039	EA	30" x 30"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,472.24	139.17
23 37 23 13-0040	EA	30" x 36"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,622.20	153.32
23 37 23 13-0041	EA	30" x 42"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,785.85	168.76
23 37 23 13-0042	EA	30" x 48"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,949.41	184.28
23 37 23 13-0043	EA	30" x 54"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,371.97	224.19
23 37 23 13-0044	EA	30" x 60"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,535.62	239.62
23 37 23 13-0045	EA	36" x 36"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,710.50	172.68
23 37 23 13-0046	EA	36" x 42"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	1,876.40	189.40
23 37 23 13-0047	EA	36" x 48"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,246.58	226.74
23 37 23 13-0048	EA	36" x 54"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,501.83	252.50
23 37 23 13-0049	EA	36" x 60"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,655.08	268.02
23 37 23 13-0050	EA	36" x 66"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,859.28	288.57
23 37 23 13-0051	EA	36" x 72"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	3,216.73	324.64
23 37 23 13-0052	EA	42" x 42"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,027.59	193.32
23 37 23 13-0053	EA	42" x 48"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,517.37	239.99
23 37 23 13-0054	EA	42" x 54"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,870.51	273.68
23 37 23 13-0055	EA	42" x 60"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,972.98	283.45
23 37 23 13-0056	EA	42" x 66"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	3,314.72	315.96
23 37 23 13-0057	EA	42" x 72"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	3,645.04	347.47
23 37 23 13-0058	EA	48" x 48"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,701.83	279.07
23 37 23 13-0059	EA	48" x 54"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	2,922.66	301.90
23 37 23 13-0060	EA	48" x 60"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	3,143.42	324.73
23 37 23 13-0061	EA	48" x 66"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	3,490.33	360.52
23 37 23 13-0062	EA	48" x 72"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	3,678.67	365.27
23 37 23 13-0063	EA	54" x 54"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	3,126.52	314.60
23 37 23 13-0064	EA	54" x 60"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	3,507.03	352.86
23 37 23 13-0065	EA	54" x 66"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	3,805.33	382.90
23 37 23 13-0066	EA	54" x 72"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	4,052.08	407.74
23 37 23 13-0067	EA	60" x 60"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	3,896.53	391.67
23 37 23 13-0068	EA	60" x 66"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	4,098.36	417.51
23 37 23 13-0069	EA	60" x 72"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	4,395.53	449.56
23 37 23 13-0070	EA	66" x 66"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	4,132.90	451.67
23 37 23 13-0071	EA	66" x 72"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	4,832.96	528.19
23 37 23 13-0072	EA	72" x 72"	Throat, Galvanized Steel, Gravity Intake/Relief Ventilator Hood (Greenheck FGI)	4,922.94	487.01

23 38 Ventilation Hoods ^(23 30)

23 38 13 Commercial-Kitchen Hoods ^(23 38)

23 38 13 13 Listed Commercial-Kitchen Hoods ^(23 38 13)

23 38 13 13-0001 Universal Ventless Hood ^(23 38 13 13)

23 38 13 13-0002	EA	109" Wide x 50" Deep x 102" High, Ventless Exhaust Hood With Stand, (Wells WVU-96)	30,569.80	408.72
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23 38 13 16 Standard Commercial-Kitchen Hoods ^(23 38 13)

23 38 13 16-0001 Commercial Kitchen Hood Ventilation System ^(23 38 13 16)

Note: Excludes fire suppression. See CSI section 23 34 16 00-0108 for exhaust and supply fans.

23 38 13 16-0002 Dry Filter Exhaust Hoods ^(23 38 13 16-0001)

Note: Includes stainless steel filters, exhaust damper and 48" long fluorescent light fixtures.

23 38 13 16-0003	EA	8' Long x 60" Deep Dry Filter Exhaust Hood	7,604.60	766.85
23 38 13 16-0004	EA	8'-6" Long x 60" Deep Dry Filter Exhaust Hood	7,930.33	814.77
23 38 13 16-0005	EA	9' Long x 60" Deep Dry Filter Exhaust Hood	8,821.94	862.69
23 38 13 16-0006	EA	9'-6" Long x 60" Deep Dry Filter Exhaust Hood	9,100.21	910.63
23 38 13 16-0007	EA	10' Long x 60" Deep Dry Filter Exhaust Hood	9,433.99	958.55
23 38 13 16-0008	EA	10'-6" Long x 60" Deep Dry Filter Exhaust Hood	9,785.16	1,006.48
23 38 13 16-0009	EA	11' Long x 60" Deep Dry Filter Exhaust Hood	10,119.50	1,054.41
23 38 13 16-0010	EA	11'-6" Long x 60" Deep Dry Filter Exhaust Hood	10,463.46	1,102.34
23 38 13 16-0011	EA	12' Long x 60" Deep Dry Filter Exhaust Hood	10,843.28	1,150.26
23 38 13 16-0012	EA	12'-6" Long x 60" Deep Dry Filter Exhaust Hood	11,175.23	1,198.19
23 38 13 16-0013	EA	13' Long x 60" Deep Dry Filter Exhaust Hood	11,454.42	1,246.12
23 38 13 16-0014	EA	13'-6" Long x 60" Deep Dry Filter Exhaust Hood	11,909.05	1,294.04
23 38 13 16-0015	EA	14' Long x 60" Deep Dry Filter Exhaust Hood	13,272.44	1,341.98
23 38 13 16-0016	EA	14'-6" Long x 60" Deep Dry Filter Exhaust Hood	13,636.74	1,389.90
23 38 13 16-0017	EA	15' Long x 60" Deep Dry Filter Exhaust Hood	14,120.93	1,437.82
23 38 13 16-0018	EA	15'-6" Long x 60" Deep Dry Filter Exhaust Hood	14,492.38	1,485.76
23 38 13 16-0019	EA	16' Long x 60" Deep Dry Filter Exhaust Hood	15,035.45	1,533.68

23 38 13 16-0020 Dry Extractor Exhaust Hoods ^(23 38 13 16-0001)

Note: Includes extractor inserts, exhaust damper, 48" long fluorescent light fixtures, and UDS filler panels.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 38 13 16-0021 EA 8' Long x 60" Deep Dry Extractor Exhaust Hood	10,494.30	766.85
23 38 13 16-0022 EA 8'-6" Long x 60" Deep Dry Extractor Exhaust Hood	10,838.32	814.77
23 38 13 16-0023 EA 9' Long x 60" Deep Dry Extractor Exhaust Hood	11,784.79	862.69
23 38 13 16-0024 EA 9'-6" Long x 60" Deep Dry Extractor Exhaust Hood	12,136.22	910.63
23 38 13 16-0025 EA 10' Long x 60" Deep Dry Extractor Exhaust Hood	12,488.29	958.55
23 38 13 16-0026 EA 10'-6" Long x 60" Deep Dry Extractor Exhaust Hood	12,821.17	1,006.48
23 38 13 16-0027 EA 11' Long x 60" Deep Dry Extractor Exhaust Hood	13,173.80	1,054.41
23 38 13 16-0028 EA 11'-6" Long x 60" Deep Dry Extractor Exhaust Hood	13,508.62	1,102.34
23 38 13 16-0029 EA 12' Long x 60" Deep Dry Extractor Exhaust Hood	13,824.42	1,150.26
23 38 13 16-0030 EA 12'-6" Long x 60" Deep Dry Extractor Exhaust Hood	14,266.11	1,198.19
23 38 13 16-0031 EA 13' Long x 60" Deep Dry Extractor Exhaust Hood	14,773.91	1,246.12
23 38 13 16-0032 EA 13'-6" Long x 60" Deep Dry Extractor Exhaust Hood	15,310.85	1,294.04
23 38 13 16-0033 EA 14' Long x 60" Deep Dry Extractor Exhaust Hood	16,409.04	1,341.98
23 38 13 16-0034 EA 14'-6" Long x 60" Deep Dry Extractor Exhaust Hood	16,956.24	1,389.90
23 38 13 16-0035 EA 15' Long x 60" Deep Dry Extractor Exhaust Hood	17,998.25	1,437.82
23 38 13 16-0036 EA 15'-6" Long x 60" Deep Dry Extractor Exhaust Hood	19,055.55	1,485.76
23 38 13 16-0037 EA 16' Long x 60" Deep Dry Extractor Exhaust Hood	20,101.57	1,533.68

23 38 13 16-0038

Single Manifold Water Wash Exhaust Hoods (23 38 13 16-0001)

Note: Includes extraction baffles, 48" long fluorescent light fixtures, and UDS filler panels. Excludes fan wash control panel.

23 38 13 16-0039 EA 8' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	11,225.87	766.85
23 38 13 16-0040 EA 8'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	11,588.18	814.77
23 38 13 16-0041 EA 9' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	12,552.94	862.69
23 38 13 16-0042 EA 9'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	12,913.51	910.63
23 38 13 16-0043 EA 10' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	13,293.02	958.55
23 38 13 16-0044 EA 10'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	13,644.19	1,006.48
23 38 13 16-0045 EA 11' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	14,005.96	1,054.41
23 38 13 16-0046 EA 11'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	14,368.21	1,102.34
23 38 13 16-0047 EA 12' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	14,693.16	1,150.26
23 38 13 16-0048 EA 12'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	15,171.42	1,198.19
23 38 13 16-0049 EA 13' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	15,715.81	1,246.12
23 38 13 16-0050 EA 13'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	16,289.32	1,294.04
23 38 13 16-0051 EA 14' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	17,424.10	1,341.98
23 38 13 16-0052 EA 14'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	18,007.87	1,389.90
23 38 13 16-0053 EA 15' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	19,150.47	1,437.82
23 38 13 16-0054 EA 15'-6" Long x 60" Deep Single Manifold Water Wash Exhaust Hood	19,732.25	1,485.76
23 38 13 16-0055 EA 16' Long x 60" Deep Single Manifold Water Wash Exhaust Hood	20,311.89	1,533.68
23 38 13 16-0056 EA Fan Wash Control Panel	7,970.39	383.42

Note: Includes time clock and backflow preventer.

23 38 13 16-0057

Utility Distribution System (UDS) (23 38 13 16-0001)

Note: Includes "L" shaped primary riser, secondary riser, horizontal mechanical and electrical raceway; 2" IPS looped gas manifold with two (2) solenoid gas valves; 1" hot water manifold; 100 Amp 120-208 VAC/3 Ph/60 Hz main shunt trip connectors; equipment restraints; flexible drain connectors; and power interruption device. Excludes main shunt breaker.

23 38 13 16-0058 EA 8' Long UDS	26,096.92	389.94
23 38 13 16-0059 EA 8'-6" Long UDS	26,866.86	399.43
23 38 13 16-0060 EA 9' Long UDS	27,628.40	408.72
23 38 13 16-0061 EA 9'-6" Long UDS	28,397.50	421.76
23 38 13 16-0062 EA 10' Long UDS	29,161.21	432.12
23 38 13 16-0063 EA 10'-6" Long UDS	29,917.88	443.04
23 38 13 16-0064 EA 11' Long UDS	30,684.05	450.62
23 38 13 16-0065 EA 11'-6" Long UDS	31,450.73	462.50
23 38 13 16-0066 EA 12' Long UDS	32,227.31	479.28
23 38 13 16-0067 EA 12'-6" Long UDS	33,015.92	502.09
23 38 13 16-0068 EA 13' Long UDS	33,788.41	516.85
23 38 13 16-0069 EA 13'-6" Long UDS	34,573.56	537.94
23 38 13 16-0070 EA 14' Long UDS	35,350.49	554.91
23 38 13 16-0071 EA 14'-6" Long UDS	36,129.63	573.02
23 38 13 16-0072 EA 15' Long UDS	36,911.22	592.38
23 38 13 16-0073 EA 15'-6" Long UDS	37,695.50	613.00
23 38 13 16-0074 EA 16' Long UDS	38,467.66	627.66

23 38 13 16-0075

Stainless Steel Exhaust Hood Material (23 38 13 16)

Note: Welded seams.

23 38 13 16-0076 SF 16 Gauge, Type 304, Stainless Steel Exhaust Hood Material	34.74	12.37
<i>For Type 316 Stainless Steel, Add</i>	<i>0.91</i>	
23 38 13 16-0077 SF 14 Gauge, Type 304, Stainless Steel Exhaust Hood Material	43.43	16.50
<i>For Type 316 Stainless Steel, Add</i>	<i>1.14</i>	
23 38 13 16-0078 SF 12 Gauge, Type 304, Stainless Steel Exhaust Hood Material	60.30	22.27
<i>For Type 316 Stainless Steel, Add</i>	<i>1.59</i>	
23 38 13 16-0079 SF 10 Gauge, Type 304, Stainless Steel Exhaust Hood Material	75.41	27.23
<i>For Type 316 Stainless Steel, Add</i>	<i>2.04</i>	

23 40 HVAC Air Cleaning Devices (23)

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 40 HVAC Air Cleaning Devices****23 41 Particulate Air Filtration**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST**23 41 Particulate Air Filtration** (23 40)**23 41 13 Panel Air Filters** (23 41)**23 41 13 00-0001 Disposable Fiberglass Air Filters** (23 41 13)

23 41 13 00-0002	EA	8" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	11.02	4.40
23 41 13 00-0003	EA	8" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	11.02	4.40
23 41 13 00-0004	EA	8" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	10.76	4.40
23 41 13 00-0005	EA	10" x 10" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	10.61	4.60
23 41 13 00-0006	EA	10" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	10.61	4.60
23 41 13 00-0007	EA	10" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	10.61	4.60
23 41 13 00-0008	EA	10" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	10.61	4.60
23 41 13 00-0009	EA	10" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	10.83	4.60
23 41 13 00-0010	EA	12" x 12" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	11.22	4.81
23 41 13 00-0011	EA	12" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	11.20	4.81
23 41 13 00-0012	EA	12" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	10.60	4.81
23 41 13 00-0013	EA	12" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	10.60	4.81
23 41 13 00-0014	EA	12" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	10.60	4.81
23 41 13 00-0015	EA	12" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	12.95	4.81
23 41 13 00-0016	EA	12" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.63	4.81
23 41 13 00-0017	EA	14" x 14" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	12.11	5.08
23 41 13 00-0018	EA	14" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.36	5.08
23 41 13 00-0019	EA	14" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	11.24	5.08
23 41 13 00-0020	EA	14" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	12.11	5.08
23 41 13 00-0021	EA	14" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	11.24	5.08
23 41 13 00-0022	EA	14" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	12.92	5.08
23 41 13 00-0023	EA	15" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	11.36	5.22
23 41 13 00-0024	EA	15" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	11.36	5.22
23 41 13 00-0025	EA	15" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.28	5.22
23 41 13 00-0026	EA	16" x 16" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	11.47	5.29
23 41 13 00-0027	EA	16" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	12.94	5.29
23 41 13 00-0028	EA	16" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	11.52	5.29
23 41 13 00-0029	EA	16" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	12.39	5.29
23 41 13 00-0030	EA	16" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	10.96	5.29
23 41 13 00-0031	EA	16" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.39	5.29
23 41 13 00-0032	EA	16" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.65	5.29
23 41 13 00-0033	EA	16" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	18.38	5.29
23 41 13 00-0034	EA	18" x 18" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	12.66	5.49
23 41 13 00-0035	EA	18" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	12.32	5.49
23 41 13 00-0036	EA	18" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	12.66	5.49
23 41 13 00-0037	EA	18" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	13.79	5.49
23 41 13 00-0038	EA	18" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	15.44	5.49
23 41 13 00-0039	EA	18" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	17.34	5.49
23 41 13 00-0040	EA	19" x 27" x 1" Disposable Fiberglass Air Filter, MERV 5..... Note: One-piece kraft fiberboard frame with two metal grids.	14.23	5.76



	MINOR CSI UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 13 00-0041	EA	20" x 20" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	11.59	5.76
23 41 13 00-0042	EA	20" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	14.56	5.76
23 41 13 00-0043	EA	20" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	13.86	5.76
23 41 13 00-0044	EA	20" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	15.28	5.76
23 41 13 00-0045	EA	20" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	19.29	5.76
23 41 13 00-0046	EA	20" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	17.18	5.76
23 41 13 00-0047	EA	21" x 21" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	15.41	5.84
23 41 13 00-0048	EA	22" x 22" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	14.63	5.91
23 41 13 00-0049	EA	24" x 24" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	14.72	5.98
23 41 13 00-0050	EA	24" x 30" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	15.29	5.98
23 41 13 00-0051	EA	24" x 36" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	21.15	5.98
23 41 13 00-0052	EA	25" x 25" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	14.81	6.05
23 41 13 00-0053	EA	25" x 32" x 1" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	21.59	6.05
23 41 13 00-0054	EA	10" x 10" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	12.39	4.60
23 41 13 00-0055	EA	10" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	11.41	4.60
23 41 13 00-0056	EA	12" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	13.50	4.81
23 41 13 00-0057	EA	14" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	13.86	5.08
23 41 13 00-0058	EA	14" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	13.86	5.08
23 41 13 00-0059	EA	15" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	14.15	5.22
23 41 13 00-0060	EA	16" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	14.02	5.29
23 41 13 00-0061	EA	16" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	13.87	5.29
23 41 13 00-0062	EA	16" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	14.24	5.29
23 41 13 00-0063	EA	18" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	15.13	5.49
23 41 13 00-0064	EA	20" x 20" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	15.60	5.76
23 41 13 00-0065	EA	20" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	15.35	5.76
23 41 13 00-0066	EA	20" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	15.35	5.76
23 41 13 00-0067	EA	24" x 24" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	15.89	5.98
23 41 13 00-0068	EA	25" x 25" x 2" Disposable Fiberglass Air Filter, MERV 5 Note: One-piece kraft fiberboard frame with two metal grids.	15.98	6.05
23 41 13 00-0069		Disposable Pleated Air Filters (23 41 13)		
23 41 13 00-0070	EA	10" x 20" x 1" Disposable Pleated Air Filter, MERV 8	11.60	4.60
23 41 13 00-0071	EA	10" x 24" x 1" Disposable Pleated Air Filter, MERV 8	18.05	4.60
23 41 13 00-0072	EA	10" x 30" x 1" Disposable Pleated Air Filter, MERV 8	23.14	4.60
23 41 13 00-0073	EA	12" x 12" x 1" Disposable Pleated Air Filter, MERV 8	15.35	4.81
23 41 13 00-0074	EA	12" x 20" x 1" Disposable Pleated Air Filter, MERV 8	14.15	4.81
23 41 13 00-0075	EA	12" x 24" x 1" Disposable Pleated Air Filter, MERV 8	13.96	4.81
23 41 13 00-0076	EA	12" x 25" x 1" Disposable Pleated Air Filter, MERV 8	13.96	4.81
23 41 13 00-0077	EA	12" x 30" x 1" Disposable Pleated Air Filter, MERV 8	23.41	4.81
23 41 13 00-0078	EA	14" x 14" x 1" Disposable Pleated Air Filter, MERV 8	17.49	5.08
23 41 13 00-0079	EA	14" x 20" x 1" Disposable Pleated Air Filter, MERV 8	14.51	5.08
23 41 13 00-0080	EA	14" x 24" x 1" Disposable Pleated Air Filter, MERV 8	19.02	5.08
23 41 13 00-0081	EA	14" x 25" x 1" Disposable Pleated Air Filter, MERV 8	15.06	5.08
23 41 13 00-0082	EA	14" x 30" x 1" Disposable Pleated Air Filter, MERV 8	22.40	5.08
23 41 13 00-0083	EA	15" x 20" x 1" Disposable Pleated Air Filter, MERV 8	14.81	5.22
23 41 13 00-0084	EA	16" x 16" x 1" Disposable Pleated Air Filter, MERV 8	17.77	5.29
23 41 13 00-0085	EA	16" x 20" x 1" Disposable Pleated Air Filter, MERV 8	14.54	5.29
23 41 13 00-0086	EA	16" x 24" x 1" Disposable Pleated Air Filter, MERV 8	17.26	5.29
23 41 13 00-0087	EA	16" x 25" x 1" Disposable Pleated Air Filter, MERV 8	15.15	5.29
23 41 13 00-0088	EA	16" x 30" x 1" Disposable Pleated Air Filter, MERV 8	22.68	5.29
23 41 13 00-0089	EA	18" x 18" x 1" Disposable Pleated Air Filter, MERV 8	24.32	5.49
23 41 13 00-0090	EA	18" x 20" x 1" Disposable Pleated Air Filter, MERV 8	17.49	5.49
23 41 13 00-0091	EA	18" x 24" x 1" Disposable Pleated Air Filter, MERV 8	17.16	5.49
23 41 13 00-0092	EA	18" x 25" x 1" Disposable Pleated Air Filter, MERV 8	16.92	5.49
23 41 13 00-0093	EA	18" x 30" x 1" Disposable Pleated Air Filter, MERV 8	24.48	5.49

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 40 HVAC Air Cleaning Devices

23 41 Particulate Air Filtration



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 41 13 00-0094	EA	20" x 20" x 1"	Disposable Pleated Air Filter, MERV 8	15.89	5.76
23 41 13 00-0095	EA	20" x 24" x 1"	Disposable Pleated Air Filter, MERV 8	17.13	5.76
23 41 13 00-0096	EA	20" x 25" x 1"	Disposable Pleated Air Filter, MERV 8	16.91	5.76
23 41 13 00-0097	EA	20" x 30" x 1"	Disposable Pleated Air Filter, MERV 8	19.39	5.76
23 41 13 00-0098	EA	22" x 22" x 1"	Disposable Pleated Air Filter, MERV 8	23.96	5.91
23 41 13 00-0099	EA	24" x 24" x 1"	Disposable Pleated Air Filter, MERV 8	18.31	5.98
23 41 13 00-0100	EA	24" x 30" x 1"	Disposable Pleated Air Filter, MERV 8	30.00	5.98
23 41 13 00-0101	EA	25" x 25" x 1"	Disposable Pleated Air Filter, MERV 8	19.47	6.05
23 41 13 00-0102	EA	10" x 20" x 2"	Disposable Pleated Air Filter, MERV 8	14.00	4.60
23 41 13 00-0103	EA	12" x 12" x 2"	Disposable Pleated Air Filter, MERV 8	18.69	4.81
23 41 13 00-0104	EA	12" x 20" x 2"	Disposable Pleated Air Filter, MERV 8	14.67	4.81
23 41 13 00-0105	EA	12" x 24" x 2"	Disposable Pleated Air Filter, MERV 8	14.42	4.81
23 41 13 00-0106	EA	14" x 20" x 2"	Disposable Pleated Air Filter, MERV 8	15.24	5.08
23 41 13 00-0107	EA	14" x 25" x 2"	Disposable Pleated Air Filter, MERV 8	15.99	5.08
23 41 13 00-0108	EA	15" x 20" x 2"	Disposable Pleated Air Filter, MERV 8	15.43	5.22
23 41 13 00-0109	EA	16" x 16" x 2"	Disposable Pleated Air Filter, MERV 8	19.86	5.29
23 41 13 00-0110	EA	16" x 20" x 2"	Disposable Pleated Air Filter, MERV 8	15.06	5.29
23 41 13 00-0111	EA	16" x 24" x 2"	Disposable Pleated Air Filter, MERV 8	17.45	5.29
23 41 13 00-0112	EA	16" x 25" x 2"	Disposable Pleated Air Filter, MERV 8	16.02	5.29
23 41 13 00-0113	EA	18" x 18" x 2"	Disposable Pleated Air Filter, MERV 8	23.14	5.49
23 41 13 00-0114	EA	18" x 20" x 2"	Disposable Pleated Air Filter, MERV 8	19.45	5.49
23 41 13 00-0115	EA	18" x 24" x 2"	Disposable Pleated Air Filter, MERV 8	17.49	5.49
23 41 13 00-0116	EA	18" x 25" x 2"	Disposable Pleated Air Filter, MERV 8	18.24	5.49
23 41 13 00-0117	EA	20" x 20" x 2"	Disposable Pleated Air Filter, MERV 8	16.85	5.76
23 41 13 00-0118	EA	20" x 24" x 2"	Disposable Pleated Air Filter, MERV 8	18.21	5.76
23 41 13 00-0119	EA	20" x 25" x 2"	Disposable Pleated Air Filter, MERV 8	17.97	5.76
23 41 13 00-0120	EA	20" x 30" x 2"	Disposable Pleated Air Filter, MERV 8	26.86	5.76
23 41 13 00-0121	EA	24" x 24" x 2"	Disposable Pleated Air Filter, MERV 8	19.35	5.98
23 41 13 00-0122	EA	25" x 25" x 2"	Disposable Pleated Air Filter, MERV 8	21.58	6.05
23 41 13 00-0123	EA	12" x 24" x 4"	Disposable Pleated Air Filter, MERV 8	23.03	4.81
23 41 13 00-0124	EA	16" x 20" x 4"	Disposable Pleated Air Filter, MERV 8	24.86	5.29
23 41 13 00-0125	EA	16" x 25" x 4"	Disposable Pleated Air Filter, MERV 8	26.71	5.29
23 41 13 00-0126	EA	18" x 24" x 4"	Disposable Pleated Air Filter, MERV 8	28.88	5.49
23 41 13 00-0127	EA	20" x 20" x 4"	Disposable Pleated Air Filter, MERV 8	27.25	5.76
23 41 13 00-0128	EA	20" x 24" x 4"	Disposable Pleated Air Filter, MERV 8	29.83	5.76
23 41 13 00-0129	EA	20" x 25" x 4"	Disposable Pleated Air Filter, MERV 8	30.07	5.76
23 41 13 00-0130	EA	24" x 24" x 4"	Disposable Pleated Air Filter, MERV 8	32.95	5.98
23 41 13 00-0131	EA	10" x 20" x 1"	Disposable Pleated Air Filter, MERV 11	20.87	4.60
23 41 13 00-0132	EA	10" x 24" x 1"	Disposable Pleated Air Filter, MERV 11	20.87	4.60
23 41 13 00-0133	EA	10" x 30" x 1"	Disposable Pleated Air Filter, MERV 11	27.56	4.60
23 41 13 00-0134	EA	12" x 12" x 1"	Disposable Pleated Air Filter, MERV 11	22.14	4.81
23 41 13 00-0135	EA	12" x 20" x 1"	Disposable Pleated Air Filter, MERV 11	21.54	4.81
23 41 13 00-0136	EA	12" x 24" x 1"	Disposable Pleated Air Filter, MERV 11	21.44	4.81
23 41 13 00-0137	EA	12" x 30" x 1"	Disposable Pleated Air Filter, MERV 11	31.40	4.81
23 41 13 00-0138	EA	14" x 14" x 1"	Disposable Pleated Air Filter, MERV 11	25.29	5.08
23 41 13 00-0139	EA	14" x 20" x 1"	Disposable Pleated Air Filter, MERV 11	22.05	5.08
23 41 13 00-0140	EA	14" x 24" x 1"	Disposable Pleated Air Filter, MERV 11	29.01	5.08
23 41 13 00-0141	EA	14" x 25" x 1"	Disposable Pleated Air Filter, MERV 11	28.34	5.08
23 41 13 00-0142	EA	14" x 30" x 1"	Disposable Pleated Air Filter, MERV 11	33.59	5.08
23 41 13 00-0143	EA	15" x 20" x 1"	Disposable Pleated Air Filter, MERV 11	21.06	5.22
23 41 13 00-0144	EA	16" x 16" x 1"	Disposable Pleated Air Filter, MERV 11	30.58	5.29
23 41 13 00-0145	EA	16" x 20" x 1"	Disposable Pleated Air Filter, MERV 11	19.52	5.29
23 41 13 00-0146	EA	16" x 24" x 1"	Disposable Pleated Air Filter, MERV 11	25.72	5.29
23 41 13 00-0147	EA	16" x 25" x 1"	Disposable Pleated Air Filter, MERV 11	23.48	5.29
23 41 13 00-0148	EA	16" x 30" x 1"	Disposable Pleated Air Filter, MERV 11	31.62	5.29
23 41 13 00-0149	EA	18" x 18" x 1"	Disposable Pleated Air Filter, MERV 11	32.31	5.49
23 41 13 00-0150	EA	18" x 20" x 1"	Disposable Pleated Air Filter, MERV 11	27.13	5.49
23 41 13 00-0151	EA	18" x 24" x 1"	Disposable Pleated Air Filter, MERV 11	24.27	5.49
23 41 13 00-0152	EA	18" x 25" x 1"	Disposable Pleated Air Filter, MERV 11	25.99	5.49
23 41 13 00-0153	EA	18" x 30" x 1"	Disposable Pleated Air Filter, MERV 11	36.78	5.49
23 41 13 00-0154	EA	20" x 20" x 1"	Disposable Pleated Air Filter, MERV 11	24.29	5.76
23 41 13 00-0155	EA	20" x 24" x 1"	Disposable Pleated Air Filter, MERV 11	26.85	5.76
23 41 13 00-0156	EA	20" x 25" x 1"	Disposable Pleated Air Filter, MERV 11	27.12	5.76
23 41 13 00-0157	EA	20" x 30" x 1"	Disposable Pleated Air Filter, MERV 11	31.90	5.76
23 41 13 00-0158	EA	22" x 22" x 1"	Disposable Pleated Air Filter, MERV 11	35.49	5.91
23 41 13 00-0159	EA	24" x 24" x 1"	Disposable Pleated Air Filter, MERV 11	29.54	5.98
23 41 13 00-0160	EA	24" x 30" x 1"	Disposable Pleated Air Filter, MERV 11	38.90	5.98
23 41 13 00-0161	EA	25" x 25" x 1"	Disposable Pleated Air Filter, MERV 11	33.48	6.05
23 41 13 00-0162	EA	10" x 20" x 2"	Disposable Pleated Air Filter, MERV 11	21.27	4.60
23 41 13 00-0163	EA	12" x 12" x 2"	Disposable Pleated Air Filter, MERV 11	22.41	4.81
23 41 13 00-0164	EA	12" x 20" x 2"	Disposable Pleated Air Filter, MERV 11	21.22	4.81
23 41 13 00-0165	EA	12" x 24" x 2"	Disposable Pleated Air Filter, MERV 11	25.21	4.81
23 41 13 00-0166	EA	14" x 20" x 2"	Disposable Pleated Air Filter, MERV 11	22.33	5.08
23 41 13 00-0167	EA	14" x 25" x 2"	Disposable Pleated Air Filter, MERV 11	23.48	5.08
23 41 13 00-0168	EA	15" x 20" x 2"	Disposable Pleated Air Filter, MERV 11	22.94	5.22
23 41 13 00-0169	EA	16" x 16" x 2"	Disposable Pleated Air Filter, MERV 11	31.26	5.29
23 41 13 00-0170	EA	16" x 20" x 2"	Disposable Pleated Air Filter, MERV 11	26.98	5.29
23 41 13 00-0171	EA	16" x 24" x 2"	Disposable Pleated Air Filter, MERV 11	26.26	5.29
23 41 13 00-0172	EA	16" x 25" x 2"	Disposable Pleated Air Filter, MERV 11	29.97	5.29
23 41 13 00-0173	EA	18" x 18" x 2"	Disposable Pleated Air Filter, MERV 11	36.21	5.49
23 41 13 00-0174	EA	18" x 20" x 2"	Disposable Pleated Air Filter, MERV 11	28.34	5.49



Heating, Ventilating, And Air-Conditioning (HVAC)

23

HVAC Air Cleaning Devices

23 40

Particulate Air Filtration

23 41

23

Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Rows list various air filter specifications and their costs.

23 41 13 00-0243 Electrostatic Air Filters With Frame, Element And Busbar (23 41 13)

Table with 2 columns: Description, Cost. Rows include MF3 Electrostatic Air Filter, High Efficiency Non Supported With Frame, Element And Busbar (65.04), MF3 Electrostatic Air Filter, Medium Efficiency Non Supported With Frame, Element And Busbar (62.82), and MF3 Electrostatic Air Filter, Glass/Paper Throwaway With Frame, Element And Busbar (2.71).

23 41 13 00-0247 Carbon Vapor Trap, Disposable V-Bank Filter (23 41 13)

Table with 2 columns: Description, Cost. Row: EA 24" x 24" x 12" Thick Carbon Vapor, Disposable V-Bank Filter (546.52, 13.73).

23 41 16 Renewable-Media Air Filters (23 41)

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 40 HVAC Air Cleaning Devices

23 41 Particulate Air Filtration



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 16 00-0001			Renewable-Media Electrostatic Air Filters With Frame, Element And Busbar ^(23 41 16)		
23 41 16 00-0002	MF3		Electrostatic Air Filter, 5' Disposable Roll Renewable With Frame, Element And Busbar.....	111.93	
23 41 19			Washable Air Filters ^(23 41)		
23 41 19 00-0001			Washable Electrostatic Air Filters With Frame, Element And Busbar ^(23 41 19)		
23 41 19 00-0002	MF3		Electrostatic Air Filter, Permanent, Washable With Frame, Element And Busbar.....	42.74	
23 41 33			High-Efficiency Particulate Filtration ^(23 41)		
23 41 33 00-0001			High Efficiency Particulate Air (HEPA) Filters ^(23 41 33) Note: Includes particle board and kraft paper frame and separator material.		
23 41 33 00-0002			High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-95% ^(23 41 33 00-0001)		
23 41 33 00-0003	EA		12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 150 CFM, Complete.....	110.40	12.82
			<i>For Removal And Replacement In Existing Equipment, Add</i>	2.56	
			<i>For >10 To 25, Deduct</i>	-2.76	
			<i>For >25 To 50, Deduct</i>	-5.52	
			<i>For >50 To 100, Deduct</i>	-8.28	
			<i>For >100, Deduct</i>	-11.04	
23 41 33 00-0004	EA		24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 375 CFM, Complete.....	147.62	14.65
			<i>For Removal And Replacement In Existing Equipment, Add</i>	2.93	
			<i>For >10 To 25, Deduct</i>	-3.69	
			<i>For >25 To 50, Deduct</i>	-7.38	
			<i>For >50 To 100, Deduct</i>	-11.07	
			<i>For >100, Deduct</i>	-14.76	
23 41 33 00-0005	EA		24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 450 CFM, Complete.....	172.84	16.94
			<i>For Removal And Replacement In Existing Equipment, Add</i>	3.39	
			<i>For >10 To 25, Deduct</i>	-4.32	
			<i>For >25 To 50, Deduct</i>	-8.64	
			<i>For >50 To 100, Deduct</i>	-12.96	
			<i>For >100, Deduct</i>	-17.28	
23 41 33 00-0006	EA		24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 700 CFM, Complete.....	198.10	19.23
			<i>For Removal And Replacement In Existing Equipment, Add</i>	3.85	
			<i>For >10 To 25, Deduct</i>	-4.95	
			<i>For >25 To 50, Deduct</i>	-9.91	
			<i>For >50 To 100, Deduct</i>	-14.86	
			<i>For >100, Deduct</i>	-19.81	
23 41 33 00-0007	EA		12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 250 CFM, Complete.....	135.16	13.73
			<i>For Removal And Replacement In Existing Equipment, Add</i>	2.75	
			<i>For >10 To 25, Deduct</i>	-3.38	
			<i>For >25 To 50, Deduct</i>	-6.76	
			<i>For >50 To 100, Deduct</i>	-10.14	
			<i>For >100, Deduct</i>	-13.52	
23 41 33 00-0008	EA		24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 500 CFM, Complete.....	182.35	16.03
			<i>For Removal And Replacement In Existing Equipment, Add</i>	3.20	
			<i>For >10 To 25, Deduct</i>	-4.56	
			<i>For >25 To 50, Deduct</i>	-9.12	
			<i>For >50 To 100, Deduct</i>	-13.68	
			<i>For >100, Deduct</i>	-18.24	
23 41 33 00-0009	EA		24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 875 CFM, Complete.....	218.26	18.31
			<i>For Removal And Replacement In Existing Equipment, Add</i>	3.66	
			<i>For >10 To 25, Deduct</i>	-5.46	
			<i>For >25 To 50, Deduct</i>	-10.91	
			<i>For >50 To 100, Deduct</i>	-16.37	
			<i>For >100, Deduct</i>	-21.83	
23 41 33 00-0010	EA		24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 95% DOP Efficiency, 1,000 CFM, Complete.....	258.75	22.89
			<i>For Removal And Replacement In Existing Equipment, Add</i>	4.58	
			<i>For >10 To 25, Deduct</i>	-6.47	
			<i>For >25 To 50, Deduct</i>	-12.94	
			<i>For >50 To 100, Deduct</i>	-19.41	
			<i>For >100, Deduct</i>	-25.88	
23 41 33 00-0011			High Efficiency Particulate Air (HEPA) Filters DOP Efficiency-99.99% ^(23 41 33 00-0001)		
23 41 33 00-0012	EA		12" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	94.42	11.45
			<i>For Removal And Replacement In Existing Equipment, Add</i>	2.29	
			<i>For >10 To 25, Deduct</i>	-2.36	
			<i>For >25 To 50, Deduct</i>	-4.72	
			<i>For >50 To 100, Deduct</i>	-7.08	
			<i>For >100, Deduct</i>	-9.44	
23 41 33 00-0013	EA		24" x 12" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	131.41	13.73
			<i>For Removal And Replacement In Existing Equipment, Add</i>	2.75	
			<i>For >10 To 25, Deduct</i>	-3.29	
			<i>For >25 To 50, Deduct</i>	-6.57	
			<i>For >50 To 100, Deduct</i>	-9.86	
			<i>For >100, Deduct</i>	-13.14	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 41 33 00-0014 EA 24" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	202.84	16.03
For Removal And Replacement In Existing Equipment, Add	3.20	
For >10 To 25, Deduct	-5.07	
For >25 To 50, Deduct	-10.14	
For >50 To 100, Deduct	-15.21	
For >100, Deduct	-20.28	
23 41 33 00-0015 EA 36" x 24" x 3", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	261.59	18.31
For Removal And Replacement In Existing Equipment, Add	3.66	
For >10 To 25, Deduct	-6.54	
For >25 To 50, Deduct	-13.08	
For >50 To 100, Deduct	-19.62	
For >100, Deduct	-26.16	
23 41 33 00-0016 EA 8" x 8" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, Complete	89.78	9.15
For Removal And Replacement In Existing Equipment, Add	1.83	
For >10 To 25, Deduct	-2.24	
For >25 To 50, Deduct	-4.49	
For >50 To 100, Deduct	-6.73	
For >100, Deduct	-8.98	
23 41 33 00-0017 EA 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 150 CFM, Complete.....	118.91	12.36
For Removal And Replacement In Existing Equipment, Add	2.47	
For >10 To 25, Deduct	-2.97	
For >25 To 50, Deduct	-5.95	
For >50 To 100, Deduct	-8.92	
For >100, Deduct	-11.89	
23 41 33 00-0018 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 325 CFM, Complete.....	160.77	14.65
For Removal And Replacement In Existing Equipment, Add	2.93	
For >10 To 25, Deduct	-4.02	
For >25 To 50, Deduct	-8.04	
For >50 To 100, Deduct	-12.06	
For >100, Deduct	-16.08	
23 41 33 00-0019 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 550 CFM, Complete.....	188.75	17.16
For Removal And Replacement In Existing Equipment, Add	3.43	
For >10 To 25, Deduct	-4.72	
For >25 To 50, Deduct	-9.44	
For >50 To 100, Deduct	-14.16	
For >100, Deduct	-18.88	
23 41 33 00-0020 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete.....	215.83	19.23
For Removal And Replacement In Existing Equipment, Add	3.85	
For >10 To 25, Deduct	-5.40	
For >25 To 50, Deduct	-10.79	
For >50 To 100, Deduct	-16.19	
For >100, Deduct	-21.58	
23 41 33 00-0021 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 250 CFM, Complete.....	147.12	13.73
For Removal And Replacement In Existing Equipment, Add	2.75	
For >10 To 25, Deduct	-3.68	
For >25 To 50, Deduct	-7.36	
For >50 To 100, Deduct	-11.03	
For >100, Deduct	-14.71	
23 41 33 00-0022 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 500 CFM, Complete.....	199.06	16.03
For Removal And Replacement In Existing Equipment, Add	3.20	
For >10 To 25, Deduct	-4.98	
For >25 To 50, Deduct	-9.95	
For >50 To 100, Deduct	-14.93	
For >100, Deduct	-19.91	
23 41 33 00-0023 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 775 CFM, Complete.....	238.45	18.31
For Removal And Replacement In Existing Equipment, Add	3.66	
For >10 To 25, Deduct	-5.96	
For >25 To 50, Deduct	-11.92	
For >50 To 100, Deduct	-17.88	
For >100, Deduct	-23.85	
23 41 33 00-0024 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter, 99.99% DOP Efficiency, 1,100 CFM, Complete.....	293.67	22.89
For Removal And Replacement In Existing Equipment, Add	4.58	
For >10 To 25, Deduct	-7.34	
For >25 To 50, Deduct	-14.68	
For >50 To 100, Deduct	-22.03	
For >100, Deduct	-29.37	
23 41 33 00-0025 High Efficiency Particulate Air (HEPA) Filter Housings, 14 Gauge Galvanized Sheet Metal (23 41 33)		
Note: Nominal sizes.		
23 41 33 00-0026 EA 12" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	257.53	68.31
23 41 33 00-0027 EA 24" x 12" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	476.91	135.78
23 41 33 00-0028 EA 24" x 18" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	485.08	135.78
23 41 33 00-0029 EA 24" x 24" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	490.53	135.78
23 41 33 00-0030 EA 24" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	528.67	135.78
23 41 33 00-0031 EA 24" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	576.35	135.78
23 41 33 00-0032 EA 48" x 48" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	921.14	272.41
23 41 33 00-0033 EA 48" x 72" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,036.92	272.41
23 41 33 00-0034 EA 48" x 96" x 6", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,184.03	272.41
23 41 33 00-0035 EA 12" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	280.69	68.31
23 41 33 00-0036 EA 24" x 12" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	516.41	135.78
23 41 33 00-0037 EA 24" x 18" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	525.95	135.78
23 41 33 00-0038 EA 24" x 24" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	532.76	135.78
23 41 33 00-0039 EA 24" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	577.71	135.78

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 40 HVAC Air Cleaning Devices****23 41 Particulate Air Filtration**

SAN BERNARDINO
COUNTY

MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 41 33 00-0040	EA	24" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	637.64		135.78
23 41 33 00-0041	EA	48" x 48" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,016.49		272.41
23 41 33 00-0042	EA	48" x 72" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,160.88		272.41
23 41 33 00-0043	EA	48" x 96" x 12", High Efficiency Particulate Air (HEPA) Filter Housings 14 Gauge Galvanized Sheet Metal	1,343.40		272.41
23 41 33 00-0044		Filter, Bag Type, 90-95% Efficiency (23 41 33)			
23 41 33 00-0045	EA	0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 90 - 95% Efficiency	217.73		88.55
23 41 33 00-0046	EA	1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 90 - 95% Efficiency	255.84		88.55
23 41 33 00-0047		Filter, Bag Type, 80-85% Efficiency (23 41 33)			
23 41 33 00-0048	EA	0.75 - 1.25 MCFM, 24" x 12" x 29" Filter, Bag Type, 80 - 85% Efficiency	213.35		88.55
23 41 33 00-0049	EA	1.5 - 2.5 MCFM, 24" x 24" x 29" Filter, Bag Type, 80 - 85% Efficiency	241.47		88.55
23 42 Gas-Phase Air Filtration (23 40)					
23 42 13 Activated-Carbon Air Filtration (23 42)					
23 42 13 00-0001	EA	12" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter	39.82		6.87
23 42 13 00-0002	EA	16" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter	40.29		6.87
23 42 13 00-0003	EA	16" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter	40.58		6.87
23 42 13 00-0004	EA	20" x 20" x 1" Thick Activated Carbon Honeycomb Disposable Filter	40.58		6.87
23 42 13 00-0005	EA	20" x 25" x 1" Thick Activated Carbon Honeycomb Disposable Filter	44.15		6.87
23 42 13 00-0006	EA	24" x 24" x 1" Thick Activated Carbon Honeycomb Disposable Filter	50.03		6.87
23 42 13 00-0007	EA	12" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter	50.54		7.79
23 42 13 00-0008	EA	16" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter	50.94		7.79
23 42 13 00-0009	EA	16" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter	51.28		7.79
23 42 13 00-0010	EA	20" x 20" x 2" Thick Activated Carbon Honeycomb Disposable Filter	51.28		7.79
23 42 13 00-0011	EA	20" x 25" x 2" Thick Activated Carbon Honeycomb Disposable Filter	55.23		7.79
23 42 13 00-0012	EA	24" x 24" x 2" Thick Activated Carbon Honeycomb Disposable Filter	66.24		7.79
23 42 13 00-0013	EA	16" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter	23.47		6.87
23 42 13 00-0014	EA	16" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter	25.17		6.87
23 42 13 00-0015	EA	20" x 20" x 1" Thick Carbon Impregnated Pleated Air Filter	25.23		6.87
23 42 13 00-0016	EA	20" x 25" x 1" Thick Carbon Impregnated Pleated Air Filter	27.46		6.87
23 42 13 00-0017	EA	24" x 24" x 1" Thick Carbon Impregnated Pleated Air Filter	29.43		6.87
23 42 13 00-0018	EA	16" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter	27.22		7.79
23 42 13 00-0019	EA	16" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter	30.18		7.79
23 42 13 00-0020	EA	20" x 20" x 2" Thick Carbon Impregnated Pleated Air Filter	30.81		7.79
23 42 13 00-0021	EA	20" x 25" x 2" Thick Carbon Impregnated Pleated Air Filter	34.48		7.79
23 42 13 00-0022	EA	24" x 24" x 2" Thick Carbon Impregnated Pleated Air Filter	36.82		7.79
23 42 13 00-0023	EA	24" x 24" x 4" Thick Carbon Impregnated Pleated Air Filter	61.88		8.24
23 50 Central Heating Equipment (23)					
Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.					
23 51 Breechings, Chimneys, And Stacks (23 50)					
23 51 13 Draft Control Devices (23 51)					
23 51 13 13 Draft-Induction Fans (23 51 13)					
23 51 13 13-0001 Vertical Discharge Fans (23 51 13 13)					
Note: Includes chimney adapter. Excludes wiring.					
23 51 13 13-0002 Axial Vane Vertical Discharge Fans (23 51 13 13-0001)					
23 51 13 13-0003	EA	450 CFM Vertical Discharge Chimney Fan, Axial Vane	2,024.98		185.53
23 51 13 13-0004	EA	950 CFM Vertical Discharge Chimney Fan, Axial Vane	2,292.17		202.41
23 51 13 13-0005	EA	1,400 CFM Vertical Discharge Chimney Fan, Axial Vane	2,742.90		223.48
23 51 13 13-0006	EA	1,800 CFM Vertical Discharge Chimney Fan, Axial Vane	3,570.29		259.33
23 51 13 13-0007 Centrifugal Impeller Vertical Discharge Fans (23 51 13 13-0001)					
23 51 13 13-0008	EA	700 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller	2,425.20		202.41
23 51 13 13-0009	EA	1,100 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller	2,947.29		223.48
23 51 13 13-0010	EA	2,300 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller	3,814.51		261.45
23 51 13 13-0011	EA	3,000 CFM Vertical Discharge Chimney Fan, Centrifugal Impeller	4,510.12		293.06
23 51 13 13-0012 Accessories For Vertical Discharge Fans (23 51 13 13-0001)					
23 51 13 13-0013	EA	Modulating Fan Controller And Sensor	301.62		63.25
23 51 13 16 Vent Dampers (23 51 13)					
23 51 13 16-0001 Flue Shutter Draft Control Damper, Parallel Blade (23 51 13 16)					
23 51 13 16-0002	EA	3" Round Flue Shutter Draft Control Damper	350.38		37.45
23 51 13 16-0003	EA	4" Round Flue Shutter Draft Control Damper	380.83		39.72
23 51 13 16-0004	EA	5" Round Flue Shutter Draft Control Damper	416.21		42.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 13 16-0005 EA 6" Round Flue Shutter Draft Control Damper.....	444.47	44.97
23 51 13 16-0006 EA 7" Round Flue Shutter Draft Control Damper.....	482.95	48.17
23 51 13 16-0007 EA 8" Round Flue Shutter Draft Control Damper.....	514.79	51.86
23 51 13 16-0008 EA 10" Round Flue Shutter Draft Control Damper.....	566.37	56.23
23 51 13 16-0009 EA 12" Round Flue Shutter Draft Control Damper.....	620.86	61.32
23 51 13 16-0010 EA 14" Round Flue Shutter Draft Control Damper.....	684.10	64.30
23 51 13 16-0011 EA 16" Round Flue Shutter Draft Control Damper.....	730.85	67.47
23 51 13 16-0012 EA 18" Round Flue Shutter Draft Control Damper.....	791.29	70.84
23 51 13 16-0013 EA 20" Round Flue Shutter Draft Control Damper.....	1,007.75	112.17
23 51 13 16-0014 EA 22" Round Flue Shutter Draft Control Damper.....	1,095.35	119.13
23 51 13 16-0015 EA 24" Round Flue Shutter Draft Control Damper.....	1,180.43	126.50
23 51 13 16-0016 EA 26" Round Flue Shutter Draft Control Damper.....	1,205.74	130.72
23 51 13 16-0017 EA 28" Round Flue Shutter Draft Control Damper.....	1,243.97	134.94
23 51 13 16-0018 EA 30" Round Flue Shutter Draft Control Damper.....	1,290.51	143.37
23 51 13 16-0019 EA 32" Round Flue Shutter Draft Control Damper.....	1,341.59	147.49
23 51 13 16-0020 EA 34" Round Flue Shutter Draft Control Damper.....	1,404.98	155.92
23 51 13 16-0021 EA 36" Round Flue Shutter Draft Control Damper.....	1,485.61	168.67
23 51 13 16-0022 EA 38" Round Flue Shutter Draft Control Damper.....	1,553.80	174.46
23 51 13 16-0023 EA 40" Round Flue Shutter Draft Control Damper.....	1,609.90	177.11
23 51 13 16-0024 EA 42" Round Flue Shutter Draft Control Damper.....	1,688.31	185.53
23 51 13 16-0025 EA 44" Round Flue Shutter Draft Control Damper.....	1,767.04	193.97
23 51 13 16-0026 EA 46" Round Flue Shutter Draft Control Damper.....	1,845.92	202.41
23 51 13 16-0027 EA 48" Round Flue Shutter Draft Control Damper.....	1,924.57	210.84

23 51 13 19 Barometric Dampers (23 51 13)

23 51 13 19-0001 Barometric Dampers (23 51 13 19)

23 51 13 19-0002 EA 6" x 6" Barometric Damper.....	135.36	7.31
23 51 13 19-0003 EA 12" x 12" Barometric Damper.....	194.13	10.04
23 51 13 19-0004 EA 18" x 18" Barometric Damper.....	266.53	15.53
23 51 13 19-0005 EA 24" x 24" Barometric Damper.....	347.93	29.22
23 51 13 19-0006 EA 6" Diameter Barometric Damper.....	75.85	7.31
<i>For Stainless Steel, Add</i>		
23 51 13 19-0007 EA 7" Diameter Barometric Damper.....	89.32	8.22
<i>For Stainless Steel, Add</i>		
23 51 13 19-0008 EA 8" Diameter Barometric Damper.....	103.69	9.13
<i>For Stainless Steel, Add</i>		
23 51 13 19-0009 EA 9" Diameter Barometric Damper.....	123.10	9.13
<i>For Stainless Steel, Add</i>		
23 51 13 19-0010 EA 10" Diameter Barometric Damper.....	155.11	10.96
<i>For Stainless Steel, Add</i>		
23 51 13 19-0011 EA 12" Diameter Barometric Damper.....	192.66	11.87
<i>For Stainless Steel, Add</i>		
23 51 13 19-0012 EA 14" Diameter Barometric Damper.....	237.18	12.78
<i>For Stainless Steel, Add</i>		
23 51 13 19-0013 EA 15" Diameter Barometric Damper.....	280.02	13.70
<i>For Stainless Steel, Add</i>		
23 51 13 19-0014 EA 16" Diameter Barometric Damper.....	321.66	15.53
<i>For Stainless Steel, Add</i>		
23 51 13 19-0015 EA 18" Diameter Barometric Damper.....	414.16	16.43
<i>For Stainless Steel, Add</i>		
23 51 13 19-0016 EA 20" Diameter Barometric Damper.....	488.51	18.26
<i>For Stainless Steel, Add</i>		
23 51 13 19-0017 EA 24" Diameter Barometric Damper.....	581.50	18.26
<i>For Stainless Steel, Add</i>		
23 51 13 19-0018 EA 30" Diameter Barometric Damper.....	710.39	21.00
<i>For Stainless Steel, Add</i>		
23 51 13 19-0019 EA 36" Diameter Barometric Damper.....	894.19	21.92
<i>For Stainless Steel, Add</i>		

23 51 16 Fabricated Breechings And Accessories (23 51)

23 51 16 00-0001 Round Galvanized Double Wall Flue/Vent Pipe And Fittings (23 51 16)

23 51 16 00-0002 Round Galvanized Double Wall Flue/Vent Pipe (23 51 16 00-0001)

23 51 16 00-0003 LF 3" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	23.05	7.51
<i>Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness</i>		
<i>For Aluminum Liner, Add</i>		
<i>For 304 Stainless Steel Liner, Add</i>		
<i>For 2" Wall Instead Of 1", Add</i>		
<i>For 3" To 4" Wall Instead Of 1", Add</i>		
23 51 16 00-0004 LF 4" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe.....	24.65	7.93
<i>Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness</i>		
<i>For Aluminum Liner, Add</i>		
<i>For 304 Stainless Steel Liner, Add</i>		
<i>For 2" Wall Instead Of 1", Add</i>		
<i>For 3" To 4" Wall Instead Of 1", Add</i>		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0005	LF	5" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness	27.16	8.44
		<i>For Aluminum Liner, Add</i>	0.35	
		<i>For 304 Stainless Steel Liner, Add</i>	0.47	
		<i>For 2" Wall Instead Of 1", Add</i>	3.97	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	7.00	
23 51 16 00-0006	LF	6" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.012" (inner wall) and 0.018" (outer wall) material thickness	29.54	9.02
		<i>For Aluminum Liner, Add</i>	0.40	
		<i>For 304 Stainless Steel Liner, Add</i>	0.55	
		<i>For 2" Wall Instead Of 1", Add</i>	4.41	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	7.73	
23 51 16 00-0007	LF	7" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness	34.34	9.61
		<i>For Aluminum Liner, Add</i>	0.59	
		<i>For 304 Stainless Steel Liner, Add</i>	0.81	
		<i>For 2" Wall Instead Of 1", Add</i>	5.59	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	9.56	
23 51 16 00-0008	LF	8" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness	38.15	10.37
		<i>For Aluminum Liner, Add</i>	0.66	
		<i>For 304 Stainless Steel Liner, Add</i>	0.90	
		<i>For 2" Wall Instead Of 1", Add</i>	6.21	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	10.62	
23 51 16 00-0009	LF	10" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness	53.61	11.13
		<i>For Aluminum Liner, Add</i>	1.39	
		<i>For 304 Stainless Steel Liner, Add</i>	1.90	
		<i>For 2" Wall Instead Of 1", Add</i>	10.42	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	17.04	
23 51 16 00-0010	LF	12" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness	64.64	12.31
		<i>For Aluminum Liner, Add</i>	1.87	
		<i>For 304 Stainless Steel Liner, Add</i>	2.55	
		<i>For 2" Wall Instead Of 1", Add</i>	13.25	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	21.41	
23 51 16 00-0011	LF	14" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness	89.12	12.81
		<i>For Aluminum Liner, Add</i>	3.13	
		<i>For 304 Stainless Steel Liner, Add</i>	4.27	
		<i>For 2" Wall Instead Of 1", Add</i>	20.31	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	32.07	
23 51 16 00-0012	LF	16" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness	110.42	13.49
		<i>For Aluminum Liner, Add</i>	4.23	
		<i>For 304 Stainless Steel Liner, Add</i>	5.76	
		<i>For 2" Wall Instead Of 1", Add</i>	26.41	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	41.29	
23 51 16 00-0013	LF	18" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.014" (inner wall) and 0.018" (outer wall) material thickness	135.04	14.16
		<i>For Aluminum Liner, Add</i>	5.46	
		<i>For 304 Stainless Steel Liner, Add</i>	7.44	
		<i>For 2" Wall Instead Of 1", Add</i>	33.35	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	51.82	
23 51 16 00-0014	LF	20" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness	173.38	22.52
		<i>For Aluminum Liner, Add</i>	6.48	
		<i>For 304 Stainless Steel Liner, Add</i>	8.84	
		<i>For 2" Wall Instead Of 1", Add</i>	40.90	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	64.13	
23 51 16 00-0015	LF	22" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness	208.57	23.79
		<i>For Aluminum Liner, Add</i>	8.17	
		<i>For 304 Stainless Steel Liner, Add</i>	11.14	
		<i>For 2" Wall Instead Of 1", Add</i>	50.57	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	78.85	
23 51 16 00-0016	LF	24" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness	246.89	25.30
		<i>For Aluminum Liner, Add</i>	10.07	
		<i>For 304 Stainless Steel Liner, Add</i>	13.73	
		<i>For 2" Wall Instead Of 1", Add</i>	61.32	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	95.16	
23 51 16 00-0017	LF	26" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness	285.53	26.14
		<i>For Aluminum Liner, Add</i>	12.11	
		<i>For 304 Stainless Steel Liner, Add</i>	16.52	
		<i>For 2" Wall Instead Of 1", Add</i>	72.61	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	112.17	
23 51 16 00-0018	LF	28" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness	299.23	26.99
		<i>For Aluminum Liner, Add</i>	12.75	
		<i>For 304 Stainless Steel Liner, Add</i>	17.38	
		<i>For 2" Wall Instead Of 1", Add</i>	76.28	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>	117.79	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0019 LF 30" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe Note: 0.022" (inner wall) and 0.018" (outer wall) material thickness For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	318.09 13.52 18.44 80.99 125.09	28.93
23 51 16 00-0020 LF 32" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	359.19 15.64 21.32 92.78 142.91	30.03
23 51 16 00-0021 LF 34" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	401.76 17.82 24.30 104.97 161.35	31.12
23 51 16 00-0022 LF 36" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	422.79 18.81 25.64 110.66 170.04	32.38
23 51 16 00-0023 LF 38" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	458.18 20.57 28.05 120.61 185.12	33.73
23 51 16 00-0024 LF 40" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	504.16 22.89 31.22 133.66 204.88	35.17
23 51 16 00-0025 LF 42" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	527.44 23.95 32.66 139.83 214.34	36.77
23 51 16 00-0026 LF 44" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	583.04 26.76 36.50 155.63 238.27	38.54
23 51 16 00-0027 LF 46" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	632.67 29.23 39.86 169.56 259.40	40.48
23 51 16 00-0028 LF 48" Round Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	695.40 32.40 44.18 187.36 286.35	42.59
23 51 16 00-0029 90 Degree Elbows (23 51 16 00-0001)		
23 51 16 00-0030 EA 3" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	57.03 1.09 1.49 9.67 16.37	15.01
23 51 16 00-0031 EA 4" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	62.96 1.29 1.76 10.98 18.45	15.85
23 51 16 00-0032 EA 5" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	69.94 1.54 2.10 12.59 20.98	16.87
23 51 16 00-0033 EA 6" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	77.10 1.79 2.44 14.21 23.54	17.96
23 51 16 00-0034 EA 7" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	91.26 2.39 3.26 17.82 29.12	19.23
23 51 16 00-0035 EA 8" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe For Aluminum Liner, Add For 304 Stainless Steel Liner, Add For 2" Wall Instead Of 1", Add For 3" To 4" Wall Instead Of 1", Add	106.29 2.99 4.08 21.52 34.87	20.75

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, And Stacks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0036	EA		10" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	181.57	22.52
			<i>For Aluminum Liner, Add</i>	6.88	
			<i>For 304 Stainless Steel Liner, Add</i>	9.39	
			<i>For 2" Wall Instead Of 1", Add</i>	43.19	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	67.61	
23 51 16 00-0037	EA		12" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	219.14	24.54
			<i>For Aluminum Liner, Add</i>	8.68	
			<i>For 304 Stainless Steel Liner, Add</i>	11.84	
			<i>For 2" Wall Instead Of 1", Add</i>	53.48	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	83.29	
23 51 16 00-0038	EA		14" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	282.51	25.72
			<i>For Aluminum Liner, Add</i>	12.00	
			<i>For 304 Stainless Steel Liner, Add</i>	16.37	
			<i>For 2" Wall Instead Of 1", Add</i>	71.90	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	111.06	
23 51 16 00-0039	EA		16" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	345.99	26.99
			<i>For Aluminum Liner, Add</i>	15.33	
			<i>For 304 Stainless Steel Liner, Add</i>	20.90	
			<i>For 2" Wall Instead Of 1", Add</i>	90.33	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	138.86	
23 51 16 00-0040	EA		18" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	445.54	28.42
			<i>For Aluminum Liner, Add</i>	20.59	
			<i>For 304 Stainless Steel Liner, Add</i>	28.08	
			<i>For 2" Wall Instead Of 1", Add</i>	119.44	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	182.72	
23 51 16 00-0041	EA		20" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	629.56	44.95
			<i>For Aluminum Liner, Add</i>	28.44	
			<i>For 304 Stainless Steel Liner, Add</i>	38.78	
			<i>For 2" Wall Instead Of 1", Add</i>	166.37	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	255.17	
23 51 16 00-0042	EA		22" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	826.66	47.65
			<i>For Aluminum Liner, Add</i>	38.91	
			<i>For 304 Stainless Steel Liner, Add</i>	53.07	
			<i>For 2" Wall Instead Of 1", Add</i>	224.17	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	342.22	
23 51 16 00-0043	EA		24" Round Flue/Vent, 90 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	932.13	50.60
			<i>For Aluminum Liner, Add</i>	44.30	
			<i>For 304 Stainless Steel Liner, Add</i>	60.41	
			<i>For 2" Wall Instead Of 1", Add</i>	254.31	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	387.80	
23 51 16 00-0044			45 Degree Elbows <small>(2351 16 00-0001)</small>		
23 51 16 00-0045	EA		3" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	48.88	15.01
			<i>For Aluminum Liner, Add</i>	0.63	
			<i>For 304 Stainless Steel Liner, Add</i>	0.86	
			<i>For 2" Wall Instead Of 1", Add</i>	7.17	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	12.63	
23 51 16 00-0046	EA		4" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	53.19	15.85
			<i>For Aluminum Liner, Add</i>	0.74	
			<i>For 304 Stainless Steel Liner, Add</i>	1.01	
			<i>For 2" Wall Instead Of 1", Add</i>	8.01	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	14.01	
23 51 16 00-0047	EA		5" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	58.03	16.87
			<i>For Aluminum Liner, Add</i>	0.87	
			<i>For 304 Stainless Steel Liner, Add</i>	1.19	
			<i>For 2" Wall Instead Of 1", Add</i>	8.97	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	15.57	
23 51 16 00-0048	EA		6" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	63.95	17.96
			<i>For Aluminum Liner, Add</i>	1.04	
			<i>For 304 Stainless Steel Liner, Add</i>	1.42	
			<i>For 2" Wall Instead Of 1", Add</i>	10.19	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	17.54	
23 51 16 00-0049	EA		7" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	75.38	19.23
			<i>For Aluminum Liner, Add</i>	1.50	
			<i>For 304 Stainless Steel Liner, Add</i>	2.04	
			<i>For 2" Wall Instead Of 1", Add</i>	12.98	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	21.88	
23 51 16 00-0050	EA		8" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	83.15	20.75
			<i>For Aluminum Liner, Add</i>	1.72	
			<i>For 304 Stainless Steel Liner, Add</i>	2.35	
			<i>For 2" Wall Instead Of 1", Add</i>	14.57	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	24.45	
23 51 16 00-0051	EA		10" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	134.48	22.52
			<i>For Aluminum Liner, Add</i>	4.30	
			<i>For 304 Stainless Steel Liner, Add</i>	5.87	
			<i>For 2" Wall Instead Of 1", Add</i>	29.10	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	46.46	
23 51 16 00-0052	EA		12" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	159.97	24.54
			<i>For Aluminum Liner, Add</i>	5.43	
			<i>For 304 Stainless Steel Liner, Add</i>	7.40	
			<i>For 2" Wall Instead Of 1", Add</i>	35.73	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	56.66	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0053 EA 14" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	203.07	25.72
For Aluminum Liner, Add	7.63	
For 304 Stainless Steel Liner, Add	10.41	
For 2" Wall Instead Of 1", Add	48.07	
For 3" To 4" Wall Instead Of 1", Add	75.31	
23 51 16 00-0054 EA 16" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	241.60	26.99
For Aluminum Liner, Add	9.58	
For 304 Stainless Steel Liner, Add	13.06	
For 2" Wall Instead Of 1", Add	58.99	
For 3" To 4" Wall Instead Of 1", Add	91.86	
23 51 16 00-0055 EA 18" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	305.04	28.42
For Aluminum Liner, Add	12.87	
For 304 Stainless Steel Liner, Add	17.55	
For 2" Wall Instead Of 1", Add	77.31	
For 3" To 4" Wall Instead Of 1", Add	119.52	
23 51 16 00-0056 EA 20" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	376.12	44.87
For Aluminum Liner, Add	14.52	
For 304 Stainless Steel Liner, Add	19.80	
For 2" Wall Instead Of 1", Add	90.41	
For 3" To 4" Wall Instead Of 1", Add	141.22	
23 51 16 00-0057 EA 22" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	516.43	47.65
For Aluminum Liner, Add	21.85	
For 304 Stainless Steel Liner, Add	29.80	
For 2" Wall Instead Of 1", Add	131.11	
For 3" To 4" Wall Instead Of 1", Add	202.61	
23 51 16 00-0058 EA 24" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	629.86	50.60
For Aluminum Liner, Add	27.69	
For 304 Stainless Steel Liner, Add	37.76	
For 2" Wall Instead Of 1", Add	163.67	
For 3" To 4" Wall Instead Of 1", Add	251.83	
23 51 16 00-0059 EA 26" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,123.91	52.28
For Aluminum Liner, Add	54.63	
For 304 Stainless Steel Liner, Add	74.50	
For 2" Wall Instead Of 1", Add	311.05	
For 3" To 4" Wall Instead Of 1", Add	473.10	
23 51 16 00-0060 EA 28" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,155.34	53.98
For Aluminum Liner, Add	56.13	
For 304 Stainless Steel Liner, Add	76.54	
For 2" Wall Instead Of 1", Add	319.63	
For 3" To 4" Wall Instead Of 1", Add	486.19	
23 51 16 00-0061 EA 30" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,218.20	57.35
For Aluminum Liner, Add	59.12	
For 304 Stainless Steel Liner, Add	80.62	
For 2" Wall Instead Of 1", Add	336.80	
For 3" To 4" Wall Instead Of 1", Add	512.37	
23 51 16 00-0062 EA 32" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,358.47	59.04
For Aluminum Liner, Add	66.60	
For 304 Stainless Steel Liner, Add	90.82	
For 2" Wall Instead Of 1", Add	378.04	
For 3" To 4" Wall Instead Of 1", Add	574.44	
23 51 16 00-0063 EA 34" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,482.55	62.41
For Aluminum Liner, Add	72.96	
For 304 Stainless Steel Liner, Add	99.50	
For 2" Wall Instead Of 1", Add	413.58	
For 3" To 4" Wall Instead Of 1", Add	628.17	
23 51 16 00-0064 EA 36" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,529.21	67.47
For Aluminum Liner, Add	74.84	
For 304 Stainless Steel Liner, Add	102.05	
For 2" Wall Instead Of 1", Add	425.05	
For 3" To 4" Wall Instead Of 1", Add	646.00	
23 51 16 00-0065 EA 38" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,637.16	69.83
For Aluminum Liner, Add	80.45	
For 304 Stainless Steel Liner, Add	109.70	
For 2" Wall Instead Of 1", Add	456.26	
For 3" To 4" Wall Instead Of 1", Add	693.11	
23 51 16 00-0066 EA 40" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,741.74	70.84
For Aluminum Liner, Add	86.06	
For 304 Stainless Steel Liner, Add	117.36	
For 2" Wall Instead Of 1", Add	487.12	
For 3" To 4" Wall Instead Of 1", Add	739.53	
23 51 16 00-0067 EA 42" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,818.19	74.22
For Aluminum Liner, Add	89.80	
For 304 Stainless Steel Liner, Add	122.46	
For 2" Wall Instead Of 1", Add	508.38	
For 3" To 4" Wall Instead Of 1", Add	771.83	
23 51 16 00-0068 EA 44" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	1,928.66	77.59
For Aluminum Liner, Add	95.42	
For 304 Stainless Steel Liner, Add	130.11	
For 2" Wall Instead Of 1", Add	539.83	
For 3" To 4" Wall Instead Of 1", Add	819.44	
23 51 16 00-0069 EA 46" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....	2,073.15	80.96
For Aluminum Liner, Add	102.90	
For 304 Stainless Steel Liner, Add	140.32	
For 2" Wall Instead Of 1", Add	581.49	
For 3" To 4" Wall Instead Of 1", Add	882.35	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, And Stacks



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 51 16 00-0070	EA	48" Round Flue/Vent, 45 Degree Elbow, Galvanized Double Wall Breech/Smoke Pipe.....		2,149.61	84.34
		<i>For Aluminum Liner, Add</i>		106.64	
		<i>For 304 Stainless Steel Liner, Add</i>		145.42	
		<i>For 2" Wall Instead Of 1", Add</i>		602.75	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		914.65	
23 51 16 00-0071		Tees <small>(23 51 16 00-0001)</small>			
23 51 16 00-0072	EA	3" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		77.93	19.99
		<i>For Aluminum Liner, Add</i>		1.53	
		<i>For 304 Stainless Steel Liner, Add</i>		2.09	
		<i>For 2" Wall Instead Of 1", Add</i>		13.37	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		22.56	
23 51 16 00-0073	EA	4" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		81.11	20.75
		<i>For Aluminum Liner, Add</i>		1.61	
		<i>For 304 Stainless Steel Liner, Add</i>		2.19	
		<i>For 2" Wall Instead Of 1", Add</i>		13.96	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		23.53	
23 51 16 00-0074	EA	5" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		84.59	21.59
		<i>For Aluminum Liner, Add</i>		1.68	
		<i>For 304 Stainless Steel Liner, Add</i>		2.30	
		<i>For 2" Wall Instead Of 1", Add</i>		14.58	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		24.57	
23 51 16 00-0075	EA	6" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		90.27	22.52
		<i>For Aluminum Liner, Add</i>		1.87	
		<i>For 304 Stainless Steel Liner, Add</i>		2.55	
		<i>For 2" Wall Instead Of 1", Add</i>		15.83	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		26.56	
23 51 16 00-0076	EA	7" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		105.64	23.44
		<i>For Aluminum Liner, Add</i>		2.58	
		<i>For 304 Stainless Steel Liner, Add</i>		3.52	
		<i>For 2" Wall Instead Of 1", Add</i>		19.95	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		32.86	
23 51 16 00-0077	EA	8" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		113.00	24.54
		<i>For Aluminum Liner, Add</i>		2.84	
		<i>For 304 Stainless Steel Liner, Add</i>		3.88	
		<i>For 2" Wall Instead Of 1", Add</i>		21.64	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		35.53	
23 51 16 00-0078	EA	10" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		204.41	25.72
		<i>For Aluminum Liner, Add</i>		7.71	
		<i>For 304 Stainless Steel Liner, Add</i>		10.51	
		<i>For 2" Wall Instead Of 1", Add</i>		48.47	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		75.92	
23 51 16 00-0079	EA	12" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		236.16	26.99
		<i>For Aluminum Liner, Add</i>		9.28	
		<i>For 304 Stainless Steel Liner, Add</i>		12.65	
		<i>For 2" Wall Instead Of 1", Add</i>		57.36	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		89.41	
23 51 16 00-0080	EA	14" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		349.80	30.03
		<i>For Aluminum Liner, Add</i>		15.12	
		<i>For 304 Stainless Steel Liner, Add</i>		20.61	
		<i>For 2" Wall Instead Of 1", Add</i>		89.95	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		138.67	
23 51 16 00-0081	EA	16" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		473.46	33.73
		<i>For Aluminum Liner, Add</i>		21.40	
		<i>For 304 Stainless Steel Liner, Add</i>		29.19	
		<i>For 2" Wall Instead Of 1", Add</i>		125.18	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		191.98	
23 51 16 00-0082	EA	18" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		586.20	38.54
		<i>For Aluminum Liner, Add</i>		26.94	
		<i>For 304 Stainless Steel Liner, Add</i>		36.74	
		<i>For 2" Wall Instead Of 1", Add</i>		156.59	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		239.70	
23 51 16 00-0083	EA	20" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		778.90	47.65
		<i>For Aluminum Liner, Add</i>		36.30	
		<i>For 304 Stainless Steel Liner, Add</i>		49.49	
		<i>For 2" Wall Instead Of 1", Add</i>		209.87	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		320.76	
23 51 16 00-0084	EA	22" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		978.79	62.24
		<i>For Aluminum Liner, Add</i>		45.28	
		<i>For 304 Stainless Steel Liner, Add</i>		61.74	
		<i>For 2" Wall Instead Of 1", Add</i>		262.52	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		401.56	
23 51 16 00-0085	EA	24" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		1,123.73	65.78
		<i>For Aluminum Liner, Add</i>		52.76	
		<i>For 304 Stainless Steel Liner, Add</i>		71.94	
		<i>For 2" Wall Instead Of 1", Add</i>		304.23	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		464.56	
23 51 16 00-0086	EA	26" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe.....		1,537.83	70.84
		<i>For Aluminum Liner, Add</i>		74.84	
		<i>For 304 Stainless Steel Liner, Add</i>		102.05	
		<i>For 2" Wall Instead Of 1", Add</i>		425.91	
		<i>For 3" To 4" Wall Instead Of 1", Add</i>		647.73	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0087 EA 28" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	1,714.70	73.63
<i>For Aluminum Liner, Add</i>	84.19	
<i>For 304 Stainless Steel Liner, Add</i>	114.80	
<i>For 2" Wall Instead Of 1", Add</i>	477.62	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	725.62	
23 51 16 00-0088 EA 30" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	1,860.75	77.59
<i>For Aluminum Liner, Add</i>	91.67	
<i>For 304 Stainless Steel Liner, Add</i>	125.01	
<i>For 2" Wall Instead Of 1", Add</i>	519.43	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	788.85	
23 51 16 00-0089 EA 32" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	2,141.27	80.96
<i>For Aluminum Liner, Add</i>	106.64	
<i>For 304 Stainless Steel Liner, Add</i>	145.42	
<i>For 2" Wall Instead Of 1", Add</i>	601.91	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	912.98	
23 51 16 00-0090 EA 34" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	2,183.78	84.34
<i>For Aluminum Liner, Add</i>	108.51	
<i>For 304 Stainless Steel Liner, Add</i>	147.97	
<i>For 2" Wall Instead Of 1", Add</i>	612.97	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	929.99	
23 51 16 00-0091 EA 36" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	2,538.11	89.98
<i>For Aluminum Liner, Add</i>	127.22	
<i>For 304 Stainless Steel Liner, Add</i>	173.48	
<i>For 2" Wall Instead Of 1", Add</i>	716.43	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,085.90	
23 51 16 00-0092 EA 38" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	2,600.23	101.21
<i>For Aluminum Liner, Add</i>	129.09	
<i>For 304 Stainless Steel Liner, Add</i>	176.03	
<i>For 2" Wall Instead Of 1", Add</i>	729.45	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,106.83	
23 51 16 00-0093 EA 40" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	2,840.43	115.70
<i>For Aluminum Liner, Add</i>	140.32	
<i>For 304 Stainless Steel Liner, Add</i>	191.34	
<i>For 2" Wall Instead Of 1", Add</i>	794.29	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,205.89	
23 51 16 00-0094 EA 42" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	3,126.68	134.94
<i>For Aluminum Liner, Add</i>	153.41	
<i>For 304 Stainless Steel Liner, Add</i>	209.20	
<i>For 2" Wall Instead Of 1", Add</i>	870.53	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,322.67	
23 51 16 00-0095 EA 44" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	3,406.64	151.80
<i>For Aluminum Liner, Add</i>	166.51	
<i>For 304 Stainless Steel Liner, Add</i>	227.06	
<i>For 2" Wall Instead Of 1", Add</i>	946.15	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,438.19	
23 51 16 00-0096 EA 46" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	3,725.49	156.87
<i>For Aluminum Liner, Add</i>	183.35	
<i>For 304 Stainless Steel Liner, Add</i>	250.02	
<i>For 2" Wall Instead Of 1", Add</i>	1,039.27	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,578.50	
23 51 16 00-0097 EA 48" Round Flue/Vent, Tee, Galvanized Double Wall Breech/Smoke Pipe	3,942.36	161.93
<i>For Aluminum Liner, Add</i>	194.57	
<i>For 304 Stainless Steel Liner, Add</i>	265.33	
<i>For 2" Wall Instead Of 1", Add</i>	1,101.77	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	1,672.89	
23 51 16 00-0098 Vent Top Caps <small>(23 51 16 00-0001)</small>		
23 51 16 00-0099 EA 3" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	39.87	11.73
<i>For Aluminum Liner, Add</i>	0.58	
<i>For 304 Stainless Steel Liner, Add</i>	0.79	
<i>For 2" Wall Instead Of 1", Add</i>	6.10	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	10.61	
23 51 16 00-0100 EA 4" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	41.78	12.31
<i>For Aluminum Liner, Add</i>	0.61	
<i>For 304 Stainless Steel Liner, Add</i>	0.83	
<i>For 2" Wall Instead Of 1", Add</i>	6.40	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	11.13	
23 51 16 00-0101 EA 6" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	52.98	13.49
<i>For Aluminum Liner, Add</i>	1.06	
<i>For 304 Stainless Steel Liner, Add</i>	1.44	
<i>For 2" Wall Instead Of 1", Add</i>	9.15	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	15.41	
23 51 16 00-0102 EA 8" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	56.70	15.01
<i>For Aluminum Liner, Add</i>	1.06	
<i>For 304 Stainless Steel Liner, Add</i>	1.44	
<i>For 2" Wall Instead Of 1", Add</i>	9.52	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	16.15	
23 51 16 00-0103 EA 10" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe	68.01	15.85
<i>For Aluminum Liner, Add</i>	1.56	
<i>For 304 Stainless Steel Liner, Add</i>	2.13	
<i>For 2" Wall Instead Of 1", Add</i>	12.48	
<i>For 3" To 4" Wall Instead Of 1", Add</i>	20.69	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, And Stacks



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0104 EA 12" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	79.59	16.87
For Aluminum Liner, Add	2.06	
For 304 Stainless Steel Liner, Add	2.81	
For 2" Wall Instead Of 1", Add	15.44	
For 3" To 4" Wall Instead Of 1", Add	25.27	
23 51 16 00-0105 EA 16" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	179.46	19.23
For Aluminum Liner, Add	7.22	
For 304 Stainless Steel Liner, Add	9.85	
For 2" Wall Instead Of 1", Add	44.21	
For 3" To 4" Wall Instead Of 1", Add	68.72	
23 51 16 00-0106 EA 18" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	329.64	24.12
For Aluminum Liner, Add	14.82	
For 304 Stainless Steel Liner, Add	20.21	
For 2" Wall Instead Of 1", Add	86.85	
For 3" To 4" Wall Instead Of 1", Add	133.28	
23 51 16 00-0107 EA 20" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	602.93	28.93
For Aluminum Liner, Add	29.19	
For 304 Stainless Steel Liner, Add	39.80	
For 2" Wall Instead Of 1", Add	166.42	
For 3" To 4" Wall Instead Of 1", Add	253.25	
23 51 16 00-0108 EA 24" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	999.25	40.48
For Aluminum Liner, Add	49.39	
For 304 Stainless Steel Liner, Add	67.35	
For 2" Wall Instead Of 1", Add	279.53	
For 3" To 4" Wall Instead Of 1", Add	424.36	
23 51 16 00-0109 EA 26" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	1,467.13	42.59
For Aluminum Liner, Add	74.84	
For 304 Stainless Steel Liner, Add	102.05	
For 2" Wall Instead Of 1", Add	418.84	
For 3" To 4" Wall Instead Of 1", Add	633.59	
23 51 16 00-0110 EA 28" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	1,643.18	44.95
For Aluminum Liner, Add	84.19	
For 304 Stainless Steel Liner, Add	114.80	
For 2" Wall Instead Of 1", Add	470.46	
For 3" To 4" Wall Instead Of 1", Add	711.32	
23 51 16 00-0111 EA 30" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	1,853.94	47.65
For Aluminum Liner, Add	95.42	
For 304 Stainless Steel Liner, Add	130.11	
For 2" Wall Instead Of 1", Add	532.36	
For 3" To 4" Wall Instead Of 1", Add	804.49	
23 51 16 00-0112 EA 32" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	1,963.43	50.60
For Aluminum Liner, Add	101.03	
For 304 Stainless Steel Liner, Add	137.77	
For 2" Wall Instead Of 1", Add	563.72	
For 3" To 4" Wall Instead Of 1", Add	851.90	
23 51 16 00-0113 EA 34" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	2,073.90	53.98
For Aluminum Liner, Add	106.64	
For 304 Stainless Steel Liner, Add	145.42	
For 2" Wall Instead Of 1", Add	595.17	
For 3" To 4" Wall Instead Of 1", Add	899.51	
23 51 16 00-0114 EA 36" Round Flue/Vent Top Caps, Galvanized Double Wall Breech/Smoke Pipe.....	2,219.50	57.85
For Aluminum Liner, Add	114.12	
For 304 Stainless Steel Liner, Add	155.62	
For 2" Wall Instead Of 1", Add	636.95	
For 3" To 4" Wall Instead Of 1", Add	962.65	
23 51 16 00-0115 Wall Thimbles <small>(23 51 16 00-0001)</small>		
23 51 16 00-0116 EA 3" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	16.97	6.32
For Aluminum Liner, Add	0.07	
For 304 Stainless Steel Liner, Add	0.09	
For 2" Wall Instead Of 1", Add	1.94	
For 3" To 4" Wall Instead Of 1", Add	3.70	
23 51 16 00-0117 EA 4" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	21.56	8.09
For Aluminum Liner, Add	0.07	
For 304 Stainless Steel Liner, Add	0.09	
For 2" Wall Instead Of 1", Add	2.40	
For 3" To 4" Wall Instead Of 1", Add	4.62	
23 51 16 00-0118 EA 5" Or 6" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	28.73	10.88
For Aluminum Liner, Add	0.08	
For 304 Stainless Steel Liner, Add	0.11	
For 2" Wall Instead Of 1", Add	3.18	
For 3" To 4" Wall Instead Of 1", Add	6.13	
23 51 16 00-0119 EA 7" Or 8" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	35.90	13.49
For Aluminum Liner, Add	0.12	
For 304 Stainless Steel Liner, Add	0.16	
For 2" Wall Instead Of 1", Add	4.02	
For 3" To 4" Wall Instead Of 1", Add	7.72	
23 51 16 00-0120 EA 10" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	51.11	18.22
For Aluminum Liner, Add	0.31	
For 304 Stainless Steel Liner, Add	0.42	
For 2" Wall Instead Of 1", Add	6.23	
For 3" To 4" Wall Instead Of 1", Add	11.61	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0121 EA 12" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	64.39	22.60
For Aluminum Liner, Add	0.43	
For 304 Stainless Steel Liner, Add	0.59	
For 2" Wall Instead Of 1", Add	8.02	
For 3" To 4" Wall Instead Of 1", Add	14.85	
23 51 16 00-0122 EA 14" Or 16" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	80.85	26.99
For Aluminum Liner, Add	0.74	
For 304 Stainless Steel Liner, Add	1.00	
For 2" Wall Instead Of 1", Add	10.76	
For 3" To 4" Wall Instead Of 1", Add	19.52	
23 51 16 00-0123 EA 18" Or 20" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	104.06	32.05
For Aluminum Liner, Add	1.32	
For 304 Stainless Steel Liner, Add	1.80	
For 2" Wall Instead Of 1", Add	15.19	
For 3" To 4" Wall Instead Of 1", Add	26.80	
23 51 16 00-0124 EA 22" Or 24" Round Flue/Vent Wall Thimbles, Galvanized Double Wall Breech/Smoke Pipe.....	136.69	35.42
For Aluminum Liner, Add	2.65	
For 304 Stainless Steel Liner, Add	3.61	
For 2" Wall Instead Of 1", Add	23.30	
For 3" To 4" Wall Instead Of 1", Add	39.37	
23 51 16 00-0125 Adjustable Roof Flashing <small>(23 51 16 00-0001)</small>		
23 51 16 00-0126 EA 3" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	45.27	15.01
For Aluminum Liner, Add	0.43	
For 304 Stainless Steel Liner, Add	0.59	
For 2" Wall Instead Of 1", Add	6.09	
For 3" To 4" Wall Instead Of 1", Add	11.01	
23 51 16 00-0127 EA 4" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	49.78	15.85
For Aluminum Liner, Add	0.55	
For 304 Stainless Steel Liner, Add	0.76	
For 2" Wall Instead Of 1", Add	6.99	
For 3" To 4" Wall Instead Of 1", Add	12.47	
23 51 16 00-0128 EA 6" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	61.82	17.96
For Aluminum Liner, Add	0.93	
For 304 Stainless Steel Liner, Add	1.27	
For 2" Wall Instead Of 1", Add	9.56	
For 3" To 4" Wall Instead Of 1", Add	16.58	
23 51 16 00-0129 EA 8" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	74.92	20.75
For Aluminum Liner, Add	1.27	
For 304 Stainless Steel Liner, Add	1.73	
For 2" Wall Instead Of 1", Add	12.10	
For 3" To 4" Wall Instead Of 1", Add	20.75	
23 51 16 00-0130 EA 10" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	119.52	22.52
For Aluminum Liner, Add	3.48	
For 304 Stainless Steel Liner, Add	4.75	
For 2" Wall Instead Of 1", Add	24.61	
For 3" To 4" Wall Instead Of 1", Add	39.72	
23 51 16 00-0131 EA 12" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	141.58	24.54
For Aluminum Liner, Add	4.42	
For 304 Stainless Steel Liner, Add	6.02	
For 2" Wall Instead Of 1", Add	30.21	
For 3" To 4" Wall Instead Of 1", Add	48.39	
23 51 16 00-0132 EA 14" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	166.12	26.99
For Aluminum Liner, Add	5.43	
For 304 Stainless Steel Liner, Add	7.40	
For 2" Wall Instead Of 1", Add	36.34	
For 3" To 4" Wall Instead Of 1", Add	57.89	
23 51 16 00-0133 EA 16" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	197.52	30.03
For Aluminum Liner, Add	6.74	
For 304 Stainless Steel Liner, Add	9.18	
For 2" Wall Instead Of 1", Add	44.24	
For 3" To 4" Wall Instead Of 1", Add	70.12	
23 51 16 00-0134 EA 18" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	295.27	33.73
For Aluminum Liner, Add	11.60	
For 304 Stainless Steel Liner, Add	15.82	
For 2" Wall Instead Of 1", Add	71.71	
For 3" To 4" Wall Instead Of 1", Add	111.78	
23 51 16 00-0135 EA 20" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	327.43	44.95
For Aluminum Liner, Add	11.82	
For 304 Stainless Steel Liner, Add	16.12	
For 2" Wall Instead Of 1", Add	75.74	
For 3" To 4" Wall Instead Of 1", Add	119.23	
23 51 16 00-0136 EA 22" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	416.73	57.85
For Aluminum Liner, Add	14.97	
For 304 Stainless Steel Liner, Add	20.41	
For 2" Wall Instead Of 1", Add	96.10	
For 3" To 4" Wall Instead Of 1", Add	151.38	
23 51 16 00-0137 EA 24" Round Flue/Vent Adjustable Roof Flashing, Galvanized Double Wall Breech/Smoke Pipe	495.23	67.47
For Aluminum Liner, Add	17.96	
For 304 Stainless Steel Liner, Add	24.49	
For 2" Wall Instead Of 1", Add	114.84	
For 3" To 4" Wall Instead Of 1", Add	180.69	

23 51 16 00-0138 Galvanized Storm Collars (23 51 16 00-0001)

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, And Stacks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0139	EA		3" Round Galvanized Storm Collar, Double Wall	18.02	6.32
			<i>For Aluminum Liner, Add</i>	0.12	
			<i>For 304 Stainless Steel Liner, Add</i>	0.17	
			<i>For 2" Wall Instead Of 1", Add</i>	2.25	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	4.17	
23 51 16 00-0140	EA		4" Round Galvanized Storm Collar, Double Wall	22.83	8.09
			<i>For Aluminum Liner, Add</i>	0.14	
			<i>For 304 Stainless Steel Liner, Add</i>	0.19	
			<i>For 2" Wall Instead Of 1", Add</i>	2.80	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	5.21	
23 51 16 00-0141	EA		5" Round Galvanized Storm Collar, Double Wall	26.84	9.44
			<i>For Aluminum Liner, Add</i>	0.18	
			<i>For 304 Stainless Steel Liner, Add</i>	0.24	
			<i>For 2" Wall Instead Of 1", Add</i>	3.33	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	6.17	
23 51 16 00-0142	EA		6" Round Galvanized Storm Collar, Double Wall	30.86	10.79
			<i>For Aluminum Liner, Add</i>	0.21	
			<i>For 304 Stainless Steel Liner, Add</i>	0.29	
			<i>For 2" Wall Instead Of 1", Add</i>	3.86	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	7.14	
23 51 16 00-0143	EA		7" Or 8" Round Galvanized Storm Collar, Double Wall	38.88	13.49
			<i>For Aluminum Liner, Add</i>	0.28	
			<i>For 304 Stainless Steel Liner, Add</i>	0.39	
			<i>For 2" Wall Instead Of 1", Add</i>	4.92	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	9.06	
23 51 16 00-0144	EA		10" Round Galvanized Storm Collar, Double Wall	53.62	18.22
			<i>For Aluminum Liner, Add</i>	0.44	
			<i>For 304 Stainless Steel Liner, Add</i>	0.61	
			<i>For 2" Wall Instead Of 1", Add</i>	6.98	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	12.74	
23 51 16 00-0145	EA		12" Round Galvanized Storm Collar, Double Wall	66.21	22.60
			<i>For Aluminum Liner, Add</i>	0.53	
			<i>For 304 Stainless Steel Liner, Add</i>	0.73	
			<i>For 2" Wall Instead Of 1", Add</i>	8.56	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	15.67	
23 51 16 00-0146	EA		14" Or 16" Round Galvanized Storm Collar, Double Wall	83.94	26.99
			<i>For Aluminum Liner, Add</i>	0.91	
			<i>For 304 Stainless Steel Liner, Add</i>	1.24	
			<i>For 2" Wall Instead Of 1", Add</i>	11.69	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	20.91	
23 51 16 00-0147	EA		18" Or 20" Round Galvanized Storm Collar, Double Wall	109.93	32.05
			<i>For Aluminum Liner, Add</i>	1.64	
			<i>For 304 Stainless Steel Liner, Add</i>	2.24	
			<i>For 2" Wall Instead Of 1", Add</i>	16.96	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	29.44	
23 51 16 00-0148	EA		22" Or 24" Round Galvanized Storm Collar, Double Wall	151.35	35.42
			<i>For Aluminum Liner, Add</i>	3.45	
			<i>For 304 Stainless Steel Liner, Add</i>	4.71	
			<i>For 2" Wall Instead Of 1", Add</i>	27.70	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	45.97	
23 51 16 00-0149			Oval Galvanized Double Wall Flue/Vent Pipe And Fittings <small>(23 51 16)</small>		
23 51 16 00-0150			Oval Galvanized Double Wall Flue/Vent Pipe <small>(23 51 16 00-0149)</small>		
23 51 16 00-0151	LF		4" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	29.58	7.93
			<i>For 2" Wall Instead Of 1", Add</i>	4.91	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	8.36	
23 51 16 00-0152	LF		5" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	32.51	8.44
			<i>For 2" Wall Instead Of 1", Add</i>	5.57	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	9.40	
23 51 16 00-0153	LF		6" Oval Flue/Vent Pipe, Galvanized Double Wall Breech/Smoke Pipe	35.94	9.02
			<i>For 2" Wall Instead Of 1", Add</i>	6.28	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	10.55	
23 51 16 00-0154			45 Degree Elbows <small>(23 51 16 00-0149)</small>		
23 51 16 00-0155	EA		4" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe	64.51	16.45
			<i>For 2" Wall Instead Of 1", Add</i>	11.13	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	18.74	
23 51 16 00-0156	EA		5" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe	75.28	19.23
			<i>For 2" Wall Instead Of 1", Add</i>	12.97	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	21.86	
23 51 16 00-0157	EA		6" Standard Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe	89.30	21.76
			<i>For 2" Wall Instead Of 1", Add</i>	15.91	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	26.58	
23 51 16 00-0158	EA		4" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe	65.68	16.45
			<i>For 2" Wall Instead Of 1", Add</i>	11.48	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	19.27	
23 51 16 00-0159	EA		5" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe	78.12	19.23
			<i>For 2" Wall Instead Of 1", Add</i>	13.82	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	23.14	
23 51 16 00-0160	EA		6" Flat Oval Flue/Vent 45 Elbow, Galvanized Double Wall Breech/Smoke Pipe	91.14	21.76
			<i>For 2" Wall Instead Of 1", Add</i>	16.46	
			<i>For 3" To 4" Wall Instead Of 1", Add</i>	27.41	



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0161	Tees <small>(23 51 16 00-0149)</small>			
23 51 16 00-0162	EA 4" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe.....	107.05	24.96	
	For 2" Wall Instead Of 1", Add	19.62		
	For 3" To 4" Wall Instead Of 1", Add	32.56		
23 51 16 00-0163	EA 4" Short Snout Oval Flue/Vent Tee, Galvanized Double Wall Breech/Smoke Pipe	108.88	24.96	
	For 2" Wall Instead Of 1", Add	20.17		
	For 3" To 4" Wall Instead Of 1", Add	33.38		
23 51 16 00-0164	EA 5" Standard Oval Flue/Vent Pipe Tee, Galvanized Double Wall Breech/Smoke Pipe.....	125.11	28.67	
	For 2" Wall Instead Of 1", Add	23.20		
	For 3" To 4" Wall Instead Of 1", Add	38.38		
23 51 16 00-0165	EA 6" Oval Flue/Vent Tee With Round Coupling, Galvanized Double Wall Breech/Smoke Pipe	142.93	32.13	
	For 2" Wall Instead Of 1", Add	26.82		
	For 3" To 4" Wall Instead Of 1", Add	44.24		
23 51 16 00-0166	Tops/Caps And Adjustable Flashing <small>(23 51 16 00-0149)</small>			
23 51 16 00-0167	EA 4" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe.....	40.52	8.09	
	For 2" Wall Instead Of 1", Add	8.09		
	For 3" To 4" Wall Instead Of 1", Add	13.15		
23 51 16 00-0168	EA 6" Oval Flue/Vent Pipe Top/Cap, Galvanized Double Wall Breech/Smoke Pipe.....	62.69	10.88	
	For 2" Wall Instead Of 1", Add	13.37		
	For 3" To 4" Wall Instead Of 1", Add	21.41		
23 51 16 00-0169	EA 4" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe	33.34	8.09	
	For 2" Wall Instead Of 1", Add	5.94		
	For 3" To 4" Wall Instead Of 1", Add	9.92		
23 51 16 00-0170	EA 6" Oval Flue/Vent Adjustable Flashing, Galvanized Double Wall Breech/Smoke Pipe	55.93	10.88	
	For 2" Wall Instead Of 1", Add	11.34		
	For 3" To 4" Wall Instead Of 1", Add	18.37		
23 51 16 00-0171	Storm Collars <small>(23 51 16 00-0149)</small>			
23 51 16 00-0172	EA 4" Oval Galvanized Storm Collar, Double Wall	22.83	8.09	
	For 2" Wall Instead Of 1", Add	2.80		
	For 3" To 4" Wall Instead Of 1", Add	5.21		
23 51 16 00-0173	EA 5" Oval Galvanized Storm Collar, Double Wall	26.84	9.44	
	For 2" Wall Instead Of 1", Add	3.33		
	For 3" To 4" Wall Instead Of 1", Add	6.17		
23 51 16 00-0174	EA 6" Oval Galvanized Storm Collar, Double Wall	30.86	10.79	
	For 2" Wall Instead Of 1", Add	3.86		
	For 3" To 4" Wall Instead Of 1", Add	7.14		
23 51 16 00-0175	Round Double Wall Flue/Vent Pipe And Fittings <small>(23 51 16)</small>			
	Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.			
23 51 16 00-0176	Round Double Wall Flue/Vent Pipe <small>(23 51 16 00-0175)</small>			
	Note: 304 Stainless steel inner wall and aluminum steel outer jacket, with 1" insulation.			
23 51 16 00-0177	LF 6" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	85.51	9.02	
	For 316 Stainless Steel, Add	10.08		
	For 2" Insulated Wall Instead Of 1" Thickness, Add	6.30		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	12.60		
23 51 16 00-0178	LF 8" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	102.86	10.37	
	For 316 Stainless Steel, Add	12.30		
	For 2" Insulated Wall Instead Of 1" Thickness, Add	7.69		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	15.38		
23 51 16 00-0179	LF 10" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	114.21	11.21	
	For 316 Stainless Steel, Add	13.78		
	For 2" Insulated Wall Instead Of 1" Thickness, Add	8.61		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	17.23		
23 51 16 00-0180	LF 12" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	128.84	12.23	
	For 316 Stainless Steel, Add	15.71		
	For 2" Insulated Wall Instead Of 1" Thickness, Add	9.82		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	19.64		
23 51 16 00-0181	LF 14" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	145.13	12.81	
	For 316 Stainless Steel, Add	18.08		
	For 2" Insulated Wall Instead Of 1" Thickness, Add	11.30		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	22.60		
23 51 16 00-0182	LF 16" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	153.27	13.49	
	For 316 Stainless Steel, Add	19.12		
	For 2" Insulated Wall Instead Of 1" Thickness, Add	11.95		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	23.90		
23 51 16 00-0183	LF 18" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	169.85	14.25	
	For 316 Stainless Steel, Add	21.49		
	For 2" Insulated Wall Instead Of 1" Thickness, Add	13.43		
	For 3" Insulated Wall Instead Of 1" Thickness, Add	26.86		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, And Stacks



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0184 LF 20" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	210.00	22.52
For 316 Stainless Steel, Add	24.60	
For 2" Insulated Wall Instead Of 1" Thickness, Add	15.38	
For 3" Insulated Wall Instead Of 1" Thickness, Add	30.75	
23 51 16 00-0185 LF 24" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	261.48	25.30
For 316 Stainless Steel, Add	31.71	
For 2" Insulated Wall Instead Of 1" Thickness, Add	19.82	
For 3" Insulated Wall Instead Of 1" Thickness, Add	39.64	
23 51 16 00-0186 LF 28" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	295.29	26.99
For 316 Stainless Steel, Add	36.46	
For 2" Insulated Wall Instead Of 1" Thickness, Add	22.79	
For 3" Insulated Wall Instead Of 1" Thickness, Add	45.57	
23 51 16 00-0187 LF 32" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	330.52	29.94
For 316 Stainless Steel, Add	40.90	
For 2" Insulated Wall Instead Of 1" Thickness, Add	25.56	
For 3" Insulated Wall Instead Of 1" Thickness, Add	51.13	
23 51 16 00-0188 LF 36" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	367.98	32.38
For 316 Stainless Steel, Add	45.94	
For 2" Insulated Wall Instead Of 1" Thickness, Add	28.71	
For 3" Insulated Wall Instead Of 1" Thickness, Add	57.42	
23 51 16 00-0189 LF 42" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	420.09	36.85
For 316 Stainless Steel, Add	52.46	
For 2" Insulated Wall Instead Of 1" Thickness, Add	32.79	
For 3" Insulated Wall Instead Of 1" Thickness, Add	65.58	
23 51 16 00-0190 LF 48" Round Flue/Vent Pipe, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	491.99	42.67
For 316 Stainless Steel, Add	61.65	
For 2" Insulated Wall Instead Of 1" Thickness, Add	38.53	
For 3" Insulated Wall Instead Of 1" Thickness, Add	77.06	
23 51 16 00-0191 90 Degree Elbows <small>(23 51 16 00-0175)</small>		
23 51 16 00-0192 EA 6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	404.09	18.64
For 316 Stainless Steel, Add	71.50	
For 2" Insulated Wall Instead Of 1" Thickness, Add	35.75	
For 3" Insulated Wall Instead Of 1" Thickness, Add	71.50	
23 51 16 00-0193 EA 8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	446.42	20.75
For 316 Stainless Steel, Add	78.91	
For 2" Insulated Wall Instead Of 1" Thickness, Add	39.46	
For 3" Insulated Wall Instead Of 1" Thickness, Add	78.91	
23 51 16 00-0194 EA 10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	508.27	22.52
For 316 Stainless Steel, Add	90.40	
For 2" Insulated Wall Instead Of 1" Thickness, Add	45.20	
For 3" Insulated Wall Instead Of 1" Thickness, Add	90.40	
23 51 16 00-0195 EA 12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	574.43	24.54
For 316 Stainless Steel, Add	102.62	
For 2" Insulated Wall Instead Of 1" Thickness, Add	51.31	
For 3" Insulated Wall Instead Of 1" Thickness, Add	102.62	
23 51 16 00-0196 EA 14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	666.31	25.72
For 316 Stainless Steel, Add	120.41	
For 2" Insulated Wall Instead Of 1" Thickness, Add	60.20	
For 3" Insulated Wall Instead Of 1" Thickness, Add	120.41	
23 51 16 00-0197 EA 16" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	734.33	26.99
For 316 Stainless Steel, Add	133.37	
For 2" Insulated Wall Instead Of 1" Thickness, Add	66.69	
For 3" Insulated Wall Instead Of 1" Thickness, Add	133.37	
23 51 16 00-0198 EA 18" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	849.01	28.42
For 316 Stainless Steel, Add	155.60	
For 2" Insulated Wall Instead Of 1" Thickness, Add	77.80	
For 3" Insulated Wall Instead Of 1" Thickness, Add	155.60	
23 51 16 00-0199 EA 20" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	983.09	44.95
For 316 Stainless Steel, Add	174.13	
For 2" Insulated Wall Instead Of 1" Thickness, Add	87.06	
For 3" Insulated Wall Instead Of 1" Thickness, Add	174.13	
23 51 16 00-0200 EA 24" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,210.16	50.60
For 316 Stainless Steel, Add	216.73	
For 2" Insulated Wall Instead Of 1" Thickness, Add	108.37	
For 3" Insulated Wall Instead Of 1" Thickness, Add	216.73	



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0201	EA		28" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,468.68	53.98
			<i>For 316 Stainless Steel, Add</i>	266.75	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	133.37	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	266.75	
23 51 16 00-0202	EA		32" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,941.36	57.77
			<i>For 316 Stainless Steel, Add</i>	359.37	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	179.68	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	359.37	
23 51 16 00-0203	EA		36" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,206.33	67.47
			<i>For 316 Stainless Steel, Add</i>	407.53	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	203.77	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	407.53	
23 51 16 00-0204	EA		42" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	3,240.44	73.63
			<i>For 316 Stainless Steel, Add</i>	611.30	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	305.65	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	611.30	
23 51 16 00-0205	EA		48" Round Flue/Vent, 90 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	4,046.16	80.96
			<i>For 316 Stainless Steel, Add</i>	768.75	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	384.38	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	768.75	
23 51 16 00-0206			45 Degree Elbows (23 51 16 00-0175)		
23 51 16 00-0207	EA		6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	269.09	17.96
			<i>For 316 Stainless Steel, Add</i>	44.83	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	22.41	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	44.83	
23 51 16 00-0208	EA		8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	307.49	20.75
			<i>For 316 Stainless Steel, Add</i>	51.13	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	25.56	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	51.13	
23 51 16 00-0209	EA		10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	341.53	22.52
			<i>For 316 Stainless Steel, Add</i>	57.05	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	28.53	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	57.05	
23 51 16 00-0210	EA		12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	389.20	24.54
			<i>For 316 Stainless Steel, Add</i>	65.58	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	32.79	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	65.58	
23 51 16 00-0211	EA		14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	438.46	25.72
			<i>For 316 Stainless Steel, Add</i>	74.84	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	37.42	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	74.84	
23 51 16 00-0212	EA		16" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	491.66	26.99
			<i>For 316 Stainless Steel, Add</i>	84.84	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	42.42	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	84.84	
23 51 16 00-0213	EA		18" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	550.78	28.42
			<i>For 316 Stainless Steel, Add</i>	95.96	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	47.98	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	95.96	
23 51 16 00-0214	EA		20" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	660.78	44.95
			<i>For 316 Stainless Steel, Add</i>	109.66	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	54.83	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	109.66	
23 51 16 00-0215	EA		24" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	830.42	50.60
			<i>For 316 Stainless Steel, Add</i>	140.78	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	70.39	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	140.78	
23 51 16 00-0216	EA		28" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	931.48	53.98
			<i>For 316 Stainless Steel, Add</i>	159.31	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	79.65	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	159.31	
23 51 16 00-0217	EA		32" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,209.66	57.77
			<i>For 316 Stainless Steel, Add</i>	213.03	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	106.51	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	213.03	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, And Stacks



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0218	EA		36" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,604.29	67.47
			<i>For 316 Stainless Steel, Add</i>	287.12	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	143.56	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	287.12	
23 51 16 00-0219	EA		42" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,129.00	73.63
			<i>For 316 Stainless Steel, Add</i>	389.01	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	194.50	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	389.01	
23 51 16 00-0220	EA		48" Round Flue/Vent, 45 Degree Elbow, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	2,842.11	80.96
			<i>For 316 Stainless Steel, Add</i>	527.94	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	263.97	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	527.94	
23 51 16 00-0221			Tees (23 51 16 00-0175)		
23 51 16 00-0222	EA		6" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	291.54	22.52
			<i>For 316 Stainless Steel, Add</i>	51.76	
			<i>For Tee Cap, Add</i>	66.75	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	23.53	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	47.05	
23 51 16 00-0223	EA		8" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	331.76	24.54
			<i>For 316 Stainless Steel, Add</i>	59.50	
			<i>For Tee Cap, Add</i>	75.55	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	27.05	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	54.09	
23 51 16 00-0224	EA		10" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	381.00	25.72
			<i>For 316 Stainless Steel, Add</i>	69.69	
			<i>For Tee Cap, Add</i>	85.84	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	31.68	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	63.35	
23 51 16 00-0225	EA		12" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	437.93	26.99
			<i>For 316 Stainless Steel, Add</i>	81.51	
			<i>For Tee Cap, Add</i>	97.70	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	37.05	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	74.10	
23 51 16 00-0226	EA		14" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	512.13	30.03
			<i>For 316 Stainless Steel, Add</i>	96.18	
			<i>For Tee Cap, Add</i>	113.67	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	43.72	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	87.43	
23 51 16 00-0227	EA		16" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	575.18	33.73
			<i>For 316 Stainless Steel, Add</i>	108.00	
			<i>For Tee Cap, Add</i>	127.68	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	49.09	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	98.18	
23 51 16 00-0228	EA		18" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	670.56	38.54
			<i>For 316 Stainless Steel, Add</i>	126.34	
			<i>For Tee Cap, Add</i>	148.56	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	57.43	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	114.85	
23 51 16 00-0229	EA		20" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	767.41	47.65
			<i>For 316 Stainless Steel, Add</i>	142.64	
			<i>For Tee Cap, Add</i>	171.34	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	64.84	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	129.67	
23 51 16 00-0230	EA		24" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	974.47	67.47
			<i>For 316 Stainless Steel, Add</i>	177.28	
			<i>For Tee Cap, Add</i>	220.19	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	80.58	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	161.16	
23 51 16 00-0231	EA		28" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,184.26	73.63
			<i>For 316 Stainless Steel, Add</i>	220.07	
			<i>For Tee Cap, Add</i>	264.45	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	100.03	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	200.06	
23 51 16 00-0232	EA		32" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,573.19	80.96
			<i>For 316 Stainless Steel, Add</i>	301.57	
			<i>For Tee Cap, Add</i>	345.00	
			<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	137.08	
			<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	274.16	



	MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0233	EA			36" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....1,753.25		89.98
				<i>For 316 Stainless Steel, Add</i> .....336.21		
				<i>For Tee Cap, Add</i> .....384.40		
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....152.82		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....305.65		
23 51 16 00-0234	EA			42" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....2,791.80		134.94
				<i>For 316 Stainless Steel, Add</i> .....539.98		
				<i>For Tee Cap, Add</i> .....608.96		
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....245.45		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....490.89		
23 51 16 00-0235	EA			48" Round Flue/Vent, Tee, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....3,507.64		161.93
				<i>For 316 Stainless Steel, Add</i> .....682.62		
				<i>For Tee Cap, Add</i> .....762.25		
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....310.28		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....620.56		
23 51 16 00-0236				Bellows <small>(23 51 16 00-0175)</small>		
23 51 16 00-0237	EA			6" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....552.51		17.96
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....50.76		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....101.51		
23 51 16 00-0238	EA			8" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....602.03		20.75
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....55.02		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....110.03		
23 51 16 00-0239	EA			10" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....658.32		22.52
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....60.20		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....120.41		
23 51 16 00-0240	EA			12" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....728.18		24.54
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....66.69		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....133.37		
23 51 16 00-0241	EA			14" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....814.50		25.72
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....75.02		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....150.05		
23 51 16 00-0242	EA			16" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....901.05		26.99
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....83.36		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....166.72		
23 51 16 00-0243	EA			18" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....1,006.47		28.42
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....93.55		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....187.09		
23 51 16 00-0244	EA			20" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....1,168.32		44.95
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....105.59		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....211.18		
23 51 16 00-0245	EA			24" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....1,441.72		50.60
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....131.52		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....263.04		
23 51 16 00-0246	EA			28" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....1,616.88		53.98
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....148.19		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....296.39		
23 51 16 00-0247	EA			32" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....1,848.82		57.85
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....170.42		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....340.84		
23 51 16 00-0248	EA			36" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....2,113.72		67.47
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....194.50		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....389.01		
23 51 16 00-0249	EA			42" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....2,684.73		73.63
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....250.08		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....500.15		
23 51 16 00-0250	EA			48" Round Flue/Vent, Bellows, Lined, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....3,258.90		80.96
				<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> .....305.65		
				<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i> .....611.30		
23 51 16 00-0251				Ventilated Roof Thimbles <small>(23 51 16 00-0175)</small>		
23 51 16 00-0252	EA			6" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket .....366.80		20.75
				<i>For 316 Stainless Steel, Add</i> .....31.49		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0253	EA	8" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	398.46	24.54
		<i>For 316 Stainless Steel, Add</i>	33.71	
23 51 16 00-0254	EA	10" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	436.07	26.99
		<i>For 316 Stainless Steel, Add</i>	36.86	
23 51 16 00-0255	EA	12" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	471.44	30.03
		<i>For 316 Stainless Steel, Add</i>	39.64	
23 51 16 00-0256	EA	14" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	599.92	31.79
		<i>For 316 Stainless Steel, Add</i>	52.05	
23 51 16 00-0257	EA	16" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	536.31	33.73
		<i>For 316 Stainless Steel, Add</i>	45.20	
23 51 16 00-0258	EA	18" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	577.18	36.01
		<i>For 316 Stainless Steel, Add</i>	48.72	
23 51 16 00-0259	EA	20" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	648.89	50.60
		<i>For 316 Stainless Steel, Add</i>	52.24	
23 51 16 00-0260	EA	24" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	727.93	57.77
		<i>For 316 Stainless Steel, Add</i>	58.35	
23 51 16 00-0261	EA	28" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	831.73	62.24
		<i>For 316 Stainless Steel, Add</i>	67.61	
23 51 16 00-0262	EA	32" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	928.05	67.38
		<i>For 316 Stainless Steel, Add</i>	75.95	
23 51 16 00-0263	EA	36" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,035.87	80.87
		<i>For 316 Stainless Steel, Add</i>	83.36	
23 51 16 00-0264	EA	42" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,326.99	89.90
		<i>For 316 Stainless Steel, Add</i>	110.22	
23 51 16 00-0265	EA	48" Round Flue/Vent, Ventilated Roof Thimble, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,642.15	101.12
		<i>For 316 Stainless Steel, Add</i>	138.93	
23 51 16 00-0266		Exit Cones <small>(23 51 16 00-0175)</small>		
23 51 16 00-0267	EA	6" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	253.50	11.73
23 51 16 00-0268	EA	8" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	267.39	12.81
23 51 16 00-0269	EA	10" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	287.50	13.49
23 51 16 00-0270	EA	12" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	300.40	14.16
23 51 16 00-0271	EA	14" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	330.99	14.59
23 51 16 00-0272	EA	16" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	361.58	14.93
23 51 16 00-0273	EA	18" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	438.64	15.43
23 51 16 00-0274	EA	20" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	548.37	28.93
23 51 16 00-0275	EA	24" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	689.13	31.12
23 51 16 00-0276	EA	28" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	821.94	32.38
23 51 16 00-0277	EA	32" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,010.56	33.73
23 51 16 00-0278	EA	36" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,147.92	36.85
23 51 16 00-0279	EA	42" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,448.68	38.54
23 51 16 00-0280	EA	48" Round Flue/Vent, Exit Cone, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	1,851.75	40.48
23 51 16 00-0281		Vent Top Caps <small>(23 51 16 00-0175)</small>		
23 51 16 00-0282	EA	6" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	277.51	11.73
23 51 16 00-0283	EA	8" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	321.11	12.81
23 51 16 00-0284	EA	10" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	372.69	13.49
23 51 16 00-0285	EA	12" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	428.19	14.16
23 51 16 00-0286	EA	14" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket.....	499.52	14.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0287 EA 16" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	567.25	15.01
23 51 16 00-0288 EA 18" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	631.31	15.43
23 51 16 00-0289 EA 20" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	757.61	28.93
23 51 16 00-0290 EA 24" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	902.15	31.12
23 51 16 00-0291 EA 28" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	979.34	32.38
23 51 16 00-0292 EA 32" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,112.39	33.73
23 51 16 00-0293 EA 36" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,296.01	36.77
23 51 16 00-0294 EA 42" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,578.29	38.54
23 51 16 00-0295 EA 48" Round Flue/Vent Top Caps, 316 Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,833.16	40.48
23 51 16 00-0296 Roof Support Assemblies (23 51 16 00-0175)		
23 51 16 00-0297 EA 6" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	418.84	21.59
<i>For 316 Stainless Steel, Add</i>	72.99	
23 51 16 00-0298 EA 8" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	462.54	25.72
<i>For 316 Stainless Steel, Add</i>	79.65	
23 51 16 00-0299 EA 10" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	508.13	28.42
<i>For 316 Stainless Steel, Add</i>	87.43	
23 51 16 00-0300 EA 12" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	542.42	31.71
<i>For 316 Stainless Steel, Add</i>	92.62	
23 51 16 00-0301 EA 14" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	604.87	33.73
<i>For 316 Stainless Steel, Add</i>	104.11	
23 51 16 00-0302 EA 16" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	641.99	36.01
<i>For 316 Stainless Steel, Add</i>	110.40	
23 51 16 00-0303 EA 18" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	689.24	38.62
<i>For 316 Stainless Steel, Add</i>	118.55	
23 51 16 00-0304 EA 20" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	764.76	53.98
<i>For 316 Stainless Steel, Add</i>	125.96	
23 51 16 00-0305 EA 24" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	859.64	62.32
<i>For 316 Stainless Steel, Add</i>	140.78	
23 51 16 00-0306 EA 28" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	992.99	67.47
<i>For 316 Stainless Steel, Add</i>	164.86	
23 51 16 00-0307 EA 32" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,184.27	73.63
<i>For 316 Stainless Steel, Add</i>	200.06	
23 51 16 00-0308 EA 36" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	1,373.51	89.98
<i>For 316 Stainless Steel, Add</i>	229.70	
23 51 16 00-0309 EA 42" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,049.83	101.21
<i>For 316 Stainless Steel, Add</i>	359.37	
23 51 16 00-0310 EA 48" Round Flue/Vent, Roof Support Assembly, Stainless Steel/Aluminum Flue/Vent Pipe, Stainless Steel Inner Wall/Aluminum Steel Outer Jacket	2,510.54	115.03
<i>For 316 Stainless Steel, Add</i>	444.58	
23 51 16 00-0311 Round Stainless Steel Double Wall Flue/Vent Pipe And Fittings (23 51 16)		
Note: With 1" insulation.		
23 51 16 00-0312 Round Stainless Steel Double Wall Flue/Vent Pipe (23 51 16 00-0311)		
Note: With 1" insulation.		
23 51 16 00-0313 LF 6" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe.....	74.40	9.02
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	5.19	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	10.37	
23 51 16 00-0314 LF 7" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe.....	90.80	9.61
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	6.67	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	13.34	
23 51 16 00-0315 LF 8" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe.....	103.78	10.37
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	7.78	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	15.56	
23 51 16 00-0316 LF 10" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe.....	141.03	11.21
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	11.30	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	22.60	
23 51 16 00-0317 LF 12" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe.....	182.60	12.31
<i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i>	15.19	
<i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	30.38	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0318 LF 14" Round Flue/Vent Pipe, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	232.26 20.01 40.01	12.91
23 51 16 00-0319 90 Degree Elbows (23 51 16 00-0311)		
23 51 16 00-0320 EA 6" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	160.77 11.58 23.16	17.96
23 51 16 00-0321 EA 7" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	177.82 12.97 25.93	19.23
23 51 16 00-0322 EA 8" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	200.08 14.82 29.64	20.75
23 51 16 00-0323 EA 10" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	248.90 19.27 38.53	22.52
23 51 16 00-0324 EA 12" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	296.58 23.53 47.05	24.54
23 51 16 00-0325 EA 14" Round Flue/Vent, 90 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	345.79 28.16 56.31	25.72
23 51 16 00-0326 45 Degree Elbows (23 51 16 00-0311)		
23 51 16 00-0327 EA 6" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	131.82 8.68 17.37	17.96
23 51 16 00-0328 EA 7" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	145.40 9.73 19.45	19.23
23 51 16 00-0329 EA 8" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	163.04 11.11 22.23	20.75
23 51 16 00-0330 EA 10" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	200.74 14.45 28.90	22.52
23 51 16 00-0331 EA 12" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	237.75 17.64 35.29	24.54
23 51 16 00-0332 EA 14" Round Flue/Vent, 45 Degree Elbow, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	275.44 21.12 42.24	25.72
23 51 16 00-0333 Tees With Tee Caps (23 51 16 00-0311)		
23 51 16 00-0334 EA 6" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	263.53 21.86 43.72	17.96
23 51 16 00-0335 EA 7" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	333.43 28.53 57.05	19.23
23 51 16 00-0336 EA 8" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	374.18 32.23 64.46	20.75
23 51 16 00-0337 EA 10" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	510.03 45.38 90.77	22.52
23 51 16 00-0338 EA 12" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	700.37 63.91 127.82	24.54
23 51 16 00-0339 EA 14" Round Flue/Vent, Tee, Stainless Steel Flue/Vent Pipe..... <i>For 2" Insulated Wall Instead Of 1" Thickness, Add</i> <i>For 3" Insulated Wall Instead Of 1" Thickness, Add</i>	897.79 83.36 166.72	25.72
23 51 16 00-0340 Joist Shields (23 51 16 00-0311)		
23 51 16 00-0341 EA 6" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe.....	111.65	17.96
23 51 16 00-0342 EA 7" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe.....	120.40	19.23
23 51 16 00-0343 EA 8" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe.....	140.78	20.75
23 51 16 00-0344 EA 10" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe.....	175.76	22.52
23 51 16 00-0345 EA 12" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe.....	210.43	24.54
23 51 16 00-0346 EA 14" Round Flue/Vent, Joist Shield, Stainless Steel Flue/Vent Pipe.....	249.46	25.72
23 51 16 00-0347 Adjustable Roof Flashing (23 51 16 00-0311)		
23 51 16 00-0348 EA 6" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe.....	132.94	17.96
23 51 16 00-0349 EA 7" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe.....	148.18	19.23
23 51 16 00-0350 EA 8" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe.....	161.14	20.75
23 51 16 00-0351 EA 10" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe.....	196.12	22.52
23 51 16 00-0352 EA 12" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe.....	241.98	24.54



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51	16 00-0353	EA	14" Round Flue/Vent, Adjustable Roof Flashing, Stainless Steel Flue/Vent Pipe	290.18	25.64
23 51	16 00-0354		Vent Top Caps (23 51 16 00-0311)		
	23 51 16 00-0355	EA	6" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	119.06	17.96
	23 51 16 00-0356	EA	7" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	149.11	19.23
	23 51 16 00-0357	EA	8" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	187.09	20.75
	23 51 16 00-0358	EA	10" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	298.96	22.52
	23 51 16 00-0359	EA	12" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	407.76	24.54
	23 51 16 00-0360	EA	14" Round Flue/Vent Top Caps, Stainless Steel Flue/Vent Pipe	519.93	25.72
23 51	16 00-0361		Roof Support Assemblies (23 51 16 00-0311)		
	23 51 16 00-0362	EA	6" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	177.34	17.96
	23 51 16 00-0363	EA	7" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	197.27	19.23
	23 51 16 00-0364	EA	8" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	213.94	20.75
	23 51 16 00-0365	EA	10" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	269.24	22.52
	23 51 16 00-0366	EA	12" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	318.81	24.54
	23 51 16 00-0367	EA	14" Round Flue/Vent, Roof Support Assembly, Stainless Steel Flue/Vent Pipe	390.27	25.72
23 51	16 00-0368		Polyvinyl Chloride (PVC) Flue/Vent Accessories (23 51 16)		
23 51	16 00-0369		Concentric Polyvinyl Chloride (PVC) Vent Termination (23 51 16 00-0368)		
	23 51 16 00-0370	EA	2" Concentric Polyvinyl Chloride (PVC) Vent Termination	153.44	34.34
	23 51 16 00-0371	EA	3" Concentric Polyvinyl Chloride (PVC) Vent Termination	165.55	34.34
23 51	16 00-0372		Polypropylene (PP) Flue/Vent Pipe And Fittings (23 51 16)		
			Note: Centrotherm InnoFlue® Vent System		
23 51	16 00-0373		Polypropylene Flue/Vent Rigid Pipe Sections (23 51 16 00-0372)		
			Note: Gasketed rigid single wall polypropylene vent lengths with dedicated male and female ends.		
	23 51 16 00-0374	EA	2" x 12" Polypropylene Flue/Vent Rigid Pipe Section	30.88	10.43
	23 51 16 00-0375	EA	2" x 24" Polypropylene Flue/Vent Rigid Pipe Section	34.79	10.98
	23 51 16 00-0376	EA	2" x 36" Polypropylene Flue/Vent Rigid Pipe Section	39.73	12.20
	23 51 16 00-0377	EA	2" x 72" Polypropylene Flue/Vent Rigid Pipe Section	49.05	14.35
	23 51 16 00-0378	EA	3" x 12" Polypropylene Flue/Vent Rigid Pipe Section	36.92	11.96
	23 51 16 00-0379	EA	3" x 24" Polypropylene Flue/Vent Rigid Pipe Section	43.89	12.59
	23 51 16 00-0380	EA	3" x 36" Polypropylene Flue/Vent Rigid Pipe Section	53.31	13.99
	23 51 16 00-0381	EA	3" x 72" Polypropylene Flue/Vent Rigid Pipe Section	65.63	16.46
	23 51 16 00-0382	EA	4" x 12" Polypropylene Flue/Vent Rigid Pipe Section	59.57	15.82
	23 51 16 00-0383	EA	4" x 24" Polypropylene Flue/Vent Rigid Pipe Section	69.61	16.65
	23 51 16 00-0384	EA	4" x 36" Polypropylene Flue/Vent Rigid Pipe Section	85.77	18.50
	23 51 16 00-0385	EA	4" x 72" Polypropylene Flue/Vent Rigid Pipe Section	110.32	21.76
	23 51 16 00-0386	EA	5" x 12" Polypropylene Flue/Vent Rigid Pipe Section	88.33	23.35
	23 51 16 00-0387	EA	5" x 24" Polypropylene Flue/Vent Rigid Pipe Section	100.23	24.57
	23 51 16 00-0388	EA	5" x 36" Polypropylene Flue/Vent Rigid Pipe Section	128.63	27.31
	23 51 16 00-0389	EA	5" x 72" Polypropylene Flue/Vent Rigid Pipe Section	165.97	32.13
23 51	16 00-0390		Polypropylene Flue/Vent Elbows (23 51 16 00-0372)		
			Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
	23 51 16 00-0391	EA	2" Polypropylene Flue/Vent 15 Degree Elbow	38.09	12.67
	23 51 16 00-0392	EA	3" Polypropylene Flue/Vent 15 Degree Elbow	44.02	13.34
	23 51 16 00-0393	EA	4" Polypropylene Flue/Vent 15 Degree Elbow	53.94	13.83
	23 51 16 00-0394	EA	5" Polypropylene Flue/Vent 15 Degree Elbow	62.02	14.40
	23 51 16 00-0395	EA	2" Polypropylene Flue/Vent 30 Degree Elbow	38.09	12.67
	23 51 16 00-0396	EA	3" Polypropylene Flue/Vent 30 Degree Elbow	44.02	13.34
	23 51 16 00-0397	EA	4" Polypropylene Flue/Vent 30 Degree Elbow	53.94	13.83
	23 51 16 00-0398	EA	5" Polypropylene Flue/Vent 30 Degree Elbow	62.02	14.40
	23 51 16 00-0399	EA	2" Polypropylene Flue/Vent 45 Degree Elbow	38.09	12.67
	23 51 16 00-0400	EA	3" Polypropylene Flue/Vent 45 Degree Elbow	44.02	13.34
	23 51 16 00-0401	EA	4" Polypropylene Flue/Vent 45 Degree Elbow	53.94	13.83
	23 51 16 00-0402	EA	5" Polypropylene Flue/Vent 45 Degree Elbow	62.02	14.40
	23 51 16 00-0403	EA	2" Polypropylene Flue/Vent 87 Degree Elbow	38.09	12.67
	23 51 16 00-0404	EA	3" Polypropylene Flue/Vent 87 Degree Elbow	44.02	13.34
	23 51 16 00-0405	EA	4" Polypropylene Flue/Vent 87 Degree Elbow	53.33	13.83
	23 51 16 00-0406	EA	5" Polypropylene Flue/Vent 87 Degree Elbow	63.51	14.40
23 51	16 00-0407		Polypropylene Flue/Vent Tees (23 51 16 00-0372)		
			Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
	23 51 16 00-0408	EA	2" Polypropylene Flue/Vent Tee.....	110.93	19.02
	23 51 16 00-0409	EA	3" Polypropylene Flue/Vent Tee.....	137.93	20.02
	23 51 16 00-0410	EA	4" Polypropylene Flue/Vent Tee.....	160.84	20.75
	23 51 16 00-0411	EA	5" Polypropylene Flue/Vent Tee.....	175.58	21.59
23 51	16 00-0412		Polypropylene Flue/Vent Adaptors (23 51 16 00-0372)		
			Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 51 Breechings, Chimneys, And Stacks**

SAN BERNARDINO
COUNTY

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0413 EA 2" Polypropylene Flue/Vent Adaptor With Gasket.....	43.96	12.67
23 51 16 00-0414 EA 3" Polypropylene Flue/Vent Adaptor With Gasket.....	61.11	13.34
23 51 16 00-0415 EA 4" Polypropylene Flue/Vent Adaptor With Gasket.....	70.49	13.83
23 51 16 00-0416 EA 5" Polypropylene Flue/Vent Adaptor With Gasket.....	94.37	14.40
23 51 16 00-0417 Polypropylene Flue/Vent Increases (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0418 EA 2" to 3" Polypropylene Flue/Vent Centric Increaser	48.31	13.02
23 51 16 00-0419 EA 3" to 4" Polypropylene Flue/Vent Centric Increaser	52.65	13.59
23 51 16 00-0420 EA 4" to 5" Polypropylene Flue/Vent Centric Increaser	90.66	14.11
23 51 16 00-0421 EA 2" to 3" Polypropylene Flue/Vent Eccentric Increaser.....	63.37	13.02
23 51 16 00-0422 EA 3" to 4" Polypropylene Flue/Vent Eccentric Increaser.....	51.43	13.59
23 51 16 00-0423 EA 4" to 5" Polypropylene Flue/Vent Eccentric Increaser.....	122.83	14.11
23 51 16 00-0424 Polypropylene Flue/Vent Reducers (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0425 EA 3" to 2" Polypropylene Flue/Vent Reducer	48.31	13.02
23 51 16 00-0426 EA 4" to 3" Polypropylene Flue/Vent Reducer	52.65	13.59
23 51 16 00-0427 EA 5" to 4" Polypropylene Flue/Vent Reducer	110.71	14.11
23 51 16 00-0428 Polypropylene Flue/Vent Test Ports (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0429 EA 2" Polypropylene Flue/Vent Test Port	62.27	19.02
23 51 16 00-0430 EA 3" Polypropylene Flue/Vent Test Port	69.33	20.02
23 51 16 00-0431 EA 4" Polypropylene Flue/Vent Test Port	102.24	20.75
23 51 16 00-0432 EA 5" Polypropylene Flue/Vent Test Port	108.96	21.59
23 51 16 00-0433 Polypropylene Flue/Vent Cascade Components (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0434 EA 4" x 15" Polypropylene Flue/Vent Branch Tee With 4" Feeder.....	163.55	20.75
23 51 16 00-0435 EA 4" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder.....	213.71	25.93
23 51 16 00-0436 EA 5" x 12" Polypropylene Flue/Vent Branch Tee With 4" Feeder.....	136.31	21.59
23 51 16 00-0437 EA 5" x 42" Polypropylene Flue/Vent Branch Tee With 4" Feeder.....	199.94	26.99
23 51 16 00-0438 EA 3" to 4" Polypropylene Flue/Vent Non-Return Valve	203.69	13.59
23 51 16 00-0439 EA 4" to 4" Polypropylene Flue/Vent Non-Return Valve	235.18	14.11
23 51 16 00-0440 Polypropylene Flue/Vent Condensate Management (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0441 EA 2" Polypropylene Flue/Vent Horizontal Drain Tee	82.61	19.02
23 51 16 00-0442 EA 3" Polypropylene Flue/Vent Horizontal Drain Tee	98.66	20.02
23 51 16 00-0443 EA 4" Polypropylene Flue/Vent Horizontal Drain Tee	112.15	20.75
23 51 16 00-0444 EA 5" Polypropylene Flue/Vent Horizontal Drain Tee	127.16	21.59
23 51 16 00-0445 EA 4" Polypropylene Flue/Vent Horizontal Drain Fittings.....	139.67	20.75
23 51 16 00-0446 EA 5" Polypropylene Flue/Vent Horizontal Drain Fittings.....	153.49	21.59
23 51 16 00-0447 EA 2" Polypropylene Flue/Vent Tee Cap	45.78	6.34
23 51 16 00-0448 EA 3" Polypropylene Flue/Vent Tee Cap	58.20	6.67
23 51 16 00-0449 EA 4" Polypropylene Flue/Vent Tee Cap	68.76	6.92
23 51 16 00-0450 EA 5" Polypropylene Flue/Vent Tee Cap	89.10	7.20
23 51 16 00-0451 EA 2" Polypropylene Flue/Vent Tee Cap With Drain	91.41	19.02
23 51 16 00-0452 EA 3" Polypropylene Flue/Vent Tee Cap With Drain	110.87	20.02
23 51 16 00-0453 EA 4" Polypropylene Flue/Vent Tee Cap With Drain	127.29	20.75
23 51 16 00-0454 EA 5" Polypropylene Flue/Vent Tee Cap With Drain	152.04	21.59
23 51 16 00-0455 Polypropylene Flue/Vent Terminations (23 51 16 00-0372)		
23 51 16 00-0456 EA 2" Polypropylene-UV Black Flue/Vent Chimney Cover	114.06	12.67
23 51 16 00-0457 EA 3" Polypropylene-UV Black Flue/Vent Chimney Cover	101.48	13.34
23 51 16 00-0458 EA 4" Polypropylene-UV Black Flue/Vent Chimney Cover	125.86	13.83
23 51 16 00-0459 EA 3" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	251.20	13.34
23 51 16 00-0460 EA 4" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	268.07	13.83
23 51 16 00-0461 EA 5" Stainless Steel Chimney Cover With Polypropylene-UV Black End Pipe	312.24	14.40
23 51 16 00-0462 EA 2"/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	69.41	12.67
23 51 16 00-0463 EA 2"/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	73.18	12.67
23 51 16 00-0464 EA 2"/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	76.95	12.67
23 51 16 00-0465 EA 2"/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	80.72	12.67
23 51 16 00-0466 EA 3"/4" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	74.85	13.34
23 51 16 00-0467 EA 3"/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	78.62	13.34
23 51 16 00-0468 EA 3"/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	82.39	13.34
23 51 16 00-0469 EA 3"/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	86.16	13.34
23 51 16 00-0470 EA 4"/5" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	83.61	13.83
23 51 16 00-0471 EA 4"/6" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	87.38	13.83
23 51 16 00-0472 EA 4"/7" Polypropylene-UV Black Flue/Vent B-Vent Chimney Cover Rain Collar.....	91.15	13.83
23 51 16 00-0473 EA 2" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination	73.14	12.67
23 51 16 00-0474 EA 3" Polypropylene-UV Black Flue/Vent Low Profile Wall Termination	92.57	13.34
23 51 16 00-0475 EA 2" Polypropylene-UV Black Flue/Vent Termination Tee.....	86.70	19.02
23 51 16 00-0476 EA 3" Polypropylene-UV Black Flue/Vent Termination Tee.....	112.20	20.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 51 16 00-0477 EA 4" Polypropylene-UV Black Flue/Vent Termination Tee.....	131.51	20.75
23 51 16 00-0478 EA 5" Polypropylene-UV Black Flue/Vent Termination Tee.....	144.41	21.59
23 51 16 00-0479 EA 2" x 20" Polypropylene-UV Black Flue/Vent End Pipe.....	32.50	10.98
23 51 16 00-0480 EA 2" x 39" Polypropylene-UV Black Flue/Vent End Pipe.....	38.52	12.20
23 51 16 00-0481 EA 3" x 20" Polypropylene-UV Black Flue/Vent End Pipe.....	38.86	12.59
23 51 16 00-0482 EA 3" x 39" Polypropylene-UV Black Flue/Vent End Pipe.....	47.87	13.99
23 51 16 00-0483 EA 4" x 20" Polypropylene-UV Black Flue/Vent End Pipe.....	57.74	16.65
23 51 16 00-0484 EA 5" x 20" Polypropylene-UV Black Flue/Vent End Pipe.....	80.32	24.57
23 51 16 00-0485 EA 5" x 39" Polypropylene-UV Black Flue/Vent End Pipe.....	96.39	27.31
23 51 16 00-0486 EA 2" x 24" Polypropylene-UV Black Flue/Vent Vent Length.....	35.52	10.98
23 51 16 00-0487 EA 3" x 24" Polypropylene-UV Black Flue/Vent Vent Length.....	45.13	12.59
23 51 16 00-0488 EA 4" x 24" Polypropylene-UV Black Flue/Vent Vent Length.....	72.40	16.65
23 51 16 00-0489 EA 2" Polypropylene-UV Black Flue/Vent 45 Degree Elbow.....	39.29	12.67
23 51 16 00-0490 EA 3" Polypropylene-UV Black Flue/Vent 45 Degree Elbow.....	45.53	13.34
23 51 16 00-0491 EA 4" Polypropylene-UV Black Flue/Vent 45 Degree Elbow.....	55.87	13.83
23 51 16 00-0492 EA 2" Polypropylene-UV Black Flue/Vent 87 Degree Elbow.....	38.73	12.67
23 51 16 00-0493 EA 3" Polypropylene-UV Black Flue/Vent 87 Degree Elbow.....	45.15	13.34
23 51 16 00-0494 EA 4" Polypropylene-UV Black Flue/Vent 87 Degree Elbow.....	55.20	13.83
23 51 16 00-0495 EA 2" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent.....	24.54	6.34
23 51 16 00-0496 EA 3" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent.....	28.33	6.67
23 51 16 00-0497 EA 4" Polypropylene-UV Black Bird Screen For Polypropylene Flue/Vent.....	31.54	6.92
23 51 16 00-0498 EA 3" Stainless Steel Bird Screen For Polypropylene Flue/Vent.....	59.24	6.67
23 51 16 00-0499 EA 5" Stainless Steel Bird Screen For Polypropylene Flue/Vent.....	67.91	7.20
23 51 16 00-0500 Polypropylene Flue/Vent Accessories (23 51 16 00-0372)		
23 51 16 00-0501 EA 2" Spacer For Polypropylene Flue/Vent.....	12.49	3.17
23 51 16 00-0502 EA 3" Spacer For Polypropylene Flue/Vent.....	12.02	3.34
23 51 16 00-0503 EA 4" Spacer For Polypropylene Flue/Vent.....	12.38	3.45
23 51 16 00-0504 EA 5" Spacer For Polypropylene Flue/Vent.....	18.87	3.60
23 51 16 00-0505 EA 2" Flue Clamp For Polypropylene Flue/Vent.....	23.13	4.76
23 51 16 00-0506 EA 3" Flue Clamp For Polypropylene Flue/Vent.....	26.96	5.00
23 51 16 00-0507 EA 4" Flue Clamp For Polypropylene Flue/Vent.....	31.08	5.18
23 51 16 00-0508 EA 2" Support Clamp For Polypropylene Flue/Vent.....	22.08	4.76
23 51 16 00-0509 EA 4" Support Clamp For Polypropylene Flue/Vent.....	22.20	5.18
23 51 16 00-0510 EA 5" Support Clamp For Polypropylene Flue/Vent.....	26.71	5.40
23 51 16 00-0511 EA 3" Plastic Support Clamp For Polypropylene Flue/Vent.....	17.34	5.00
23 51 16 00-0512 EA 2" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	35.49	12.67
23 51 16 00-0513 EA 3" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	38.90	13.34
23 51 16 00-0514 EA 4" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	41.71	13.83
23 51 16 00-0515 EA 5" Polypropylene-UV Black Wall Plate For Polypropylene Flue/Vent.....	46.21	14.40
23 51 16 00-0516 EA 2" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	2.42	
23 51 16 00-0517 EA 3" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	2.71	
23 51 16 00-0518 EA 4" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	3.67	
23 51 16 00-0519 EA 5" Single Wall EDPM Gasket For Polypropylene Flue/Vent.....	6.06	
23 51 16 00-0520 EA 2" Connector Ring For Polypropylene Flue/Vent.....	10.52	3.17
23 51 16 00-0521 EA 3" Connector Ring For Polypropylene Flue/Vent.....	11.83	3.34
23 51 16 00-0522 EA 4" Connector Ring For Polypropylene Flue/Vent.....	12.69	3.45
23 51 16 00-0523 EA 5" Connector Ring For Polypropylene Flue/Vent.....	13.95	3.60
23 51 16 00-0524 EA 2 1/4" Polypropylene Flue/Vent Air Intake, White.....	49.56	6.34
23 51 16 00-0525 EA 3 1/5" Polypropylene Flue/Vent Air Intake, White.....	50.87	6.67
23 51 16 00-0526 EA 4 1/6" Polypropylene Flue/Vent Air Intake, White.....	38.46	6.92
23 51 16 00-0527 EA 2" Base Support For Polypropylene Flue/Vent.....	42.83	4.76
23 51 16 00-0528 EA 3" Base Support For Polypropylene Flue/Vent.....	44.21	5.00
23 51 16 00-0529 EA 4" Base Support For Polypropylene Flue/Vent.....	58.84	5.18
23 51 16 00-0530 EA 5" Base Support For Polypropylene Flue/Vent.....	98.54	5.40
23 51 16 00-0531 Polypropylene Flue/Vent Flex Pipe (23 51 16 00-0372)		
23 51 16 00-0532 LF 2", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	7.81	1.12
23 51 16 00-0533 LF 2", > 50', Polypropylene Flue/Vent Flex Pipe.....	6.81	1.12
23 51 16 00-0534 LF 3", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	9.59	1.32
23 51 16 00-0535 LF 3", > 50', Polypropylene Flue/Vent Flex Pipe.....	8.33	1.32
23 51 16 00-0536 LF 4", Up To 50', Polypropylene Flue/Vent Flex Pipe.....	13.74	1.62
23 51 16 00-0537 LF 4", > 50', Polypropylene Flue/Vent Flex Pipe.....	11.80	1.62
23 51 16 00-0538 Polypropylene Flue/Vent Couplers (23 51 16 00-0372)		
Note: Gasketed rigid single wall polypropylene vent fittings with dedicated male and female ends.		
23 51 16 00-0539 EA 2" Polypropylene Flue/Vent Coupler, Single Wall to Flex.....	56.68	12.67
23 51 16 00-0540 EA 2" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	62.98	12.67
23 51 16 00-0541 EA 3" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	124.07	13.34
23 51 16 00-0542 EA 4" Polypropylene Flue/Vent Coupler, Flex to Single Wall.....	223.16	13.83
23 51 16 00-0543 EA 2" Polypropylene Flue/Vent Coupler, Flex to Flex.....	64.83	12.67
23 51 16 00-0544 EA 3" Polypropylene Flue/Vent Coupler, Flex to Flex.....	147.07	13.34
23 51 16 00-0545 EA 4" Polypropylene Flue/Vent Coupler, Flex to Flex.....	374.03	13.83
23 51 16 00-0546 Polypropylene Flue/Vent Flex End Terminations (23 51 16 00-0372)		
23 51 16 00-0547 EA 2" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	73.19	12.67
23 51 16 00-0548 EA 3" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....	68.16	13.34

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 51 Breechings, Chimneys, And Stacks



MINOR CSI UOM DESCRIPTION

TOTAL DIRECT UNIT COST DEMOLITION UNIT COST

23 51 16 00-0549 EA 4" Polypropylene-UV Black Flue/Vent Flex End Pipe Termination.....83.41 13.83

23 51 16 00-0550 Aluminum Flue/Vent Fittings (23 51 16)

23 51 16 00-0551 Aluminum Vent Top Caps (23 51 16 00-0550)

23 51 16 00-0552 EA 3" Aluminum Vent Cap (Star-Kap® 3-SK).....69.77 12.56
23 51 16 00-0553 EA 4" Aluminum Vent Cap (Star-Kap® 4-SK).....74.15 12.31
23 51 16 00-0554 EA 5" Aluminum Vent Cap (Star-Kap® 5-SK).....80.28 12.91
23 51 16 00-0555 EA 6" Aluminum Vent Cap (Star-Kap® 6-SK).....110.68 13.49
23 51 16 00-0556 EA 8" Aluminum Vent Cap (Star-Kap® 8-SK).....123.77 15.01
23 51 16 00-0557 EA 10" Aluminum Vent Cap (Star-Kap® 10-SK).....345.52 15.85
23 51 16 00-0558 EA 12" Aluminum Vent Cap (Star-Kap® 12-SK).....354.30 16.87

23 52 Heating Boilers (23 50)

23 52 13 Electric Boilers (23 52)

23 52 13 00-0001 Packaged Electric Steam Boiler (23 52 13)

Note: Includes burners, standard controls and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Rated by KW and MBH output.

23 52 13 00-0002 EA 12 KW, 42 MBH Electric Steam Boiler With Packaged Standard Controls6,921.74 532.77
23 52 13 00-0003 EA 24 KW, 84 MBH Electric Steam Boiler With Packaged Standard Controls7,542.98 621.57
23 52 13 00-0004 EA 36 KW, 126 MBH Electric Steam Boiler With Packaged Standard Controls8,252.88 665.98
23 52 13 00-0005 EA 48 KW, 168 MBH Electric Steam Boiler With Packaged Standard Controls9,264.47 710.37
23 52 13 00-0006 EA 60 KW, 210 MBH Electric Steam Boiler With Packaged Standard Controls10,249.43 754.77
23 52 13 00-0007 EA 80 KW, 280 MBH Electric Steam Boiler With Packaged Standard Controls12,024.17 843.57
23 52 13 00-0008 EA 100 KW, 350 MBH Electric Steam Boiler With Packaged Standard Controls13,798.90 932.36
23 52 13 00-0009 EA 120 KW, 420 MBH Electric Steam Boiler With Packaged Standard Controls14,224.88 976.76
23 52 13 00-0010 EA 140 KW, 490 MBH Electric Steam Boiler With Packaged Standard Controls14,641.98 1,021.16
23 52 13 00-0011 EA 160 KW, 560 MBH Electric Steam Boiler With Packaged Standard Controls19,522.26 1,109.95
23 52 13 00-0012 EA 180 KW, 630 MBH Electric Steam Boiler With Packaged Standard Controls20,409.62 1,154.35
23 52 13 00-0013 EA 200 KW, 700 MBH Electric Steam Boiler With Packaged Standard Controls21,430.41 1,265.46
23 52 13 00-0014 EA 220 KW, 770 MBH Electric Steam Boiler With Packaged Standard Controls22,416.46 1,359.19
23 52 13 00-0015 EA 240 KW, 840 MBH Electric Steam Boiler With Packaged Standard Controls24,272.05 1,452.94
23 52 13 00-0016 EA 260 KW, 910 MBH Electric Steam Boiler With Packaged Standard Controls26,256.88 1,593.55
23 52 13 00-0017 EA 280 KW, 980 MBH Electric Steam Boiler With Packaged Standard Controls27,681.57 1,640.41
23 52 13 00-0018 EA 300 KW, 1,050 MBH Electric Steam Boiler With Packaged Standard Controls29,106.27 1,687.28
23 52 13 00-0019 EA 320 KW, 1,120 MBH Electric Steam Boiler With Packaged Standard Controls30,087.30 1,734.15
23 52 13 00-0020 EA 360 KW, 1,260 MBH Electric Steam Boiler With Packaged Standard Controls31,068.34 1,781.02
23 52 13 00-0021 EA 400 KW, 1,400 MBH Electric Steam Boiler With Packaged Standard Controls33,207.88 1,874.75
23 52 13 00-0022 EA 460 KW, 1,610 MBH Electric Steam Boiler With Packaged Standard Controls35,347.41 1,968.50
23 52 13 00-0023 EA 500 KW, 1,750 MBH Electric Steam Boiler With Packaged Standard Controls37,393.20 2,015.36
23 52 13 00-0024 EA 600 KW, 2,100 MBH Electric Steam Boiler With Packaged Standard Controls41,923.45 2,062.23
23 52 13 00-0025 EA 700 KW, 2,450 MBH Electric Steam Boiler With Packaged Standard Controls45,039.01 2,155.97
23 52 13 00-0026 EA 756 KW, 2,646 MBH Electric Steam Boiler With Packaged Standard Controls46,202.52 2,249.70
23 52 13 00-0027 EA 828 KW, 2,898 MBH Electric Steam Boiler With Packaged Standard Controls51,452.60 2,390.31
23 52 13 00-0028 EA 936 KW, 3,276 MBH Electric Steam Boiler With Packaged Standard Controls52,976.04 2,530.92
23 52 13 00-0029 EA 1,008 KW, 3,528 MBH Electric Steam Boiler With Packaged Standard Controls54,499.47 2,671.53
23 52 13 00-0030 EA 1,116 KW, 3,906 MBH Electric Steam Boiler With Packaged Standard Controls58,507.35 2,812.13
23 52 13 00-0031 EA 1,224 KW, 4,284 MBH Electric Steam Boiler With Packaged Standard Controls60,291.96 2,905.87
23 52 13 00-0032 EA 1,368 KW, 4,788 MBH Electric Steam Boiler With Packaged Standard Controls62,796.43 3,093.35
23 52 13 00-0033 EA 1,440 KW, 5,040 MBH Electric Steam Boiler With Packaged Standard Controls65,123.45 3,280.82
23 52 13 00-0034 EA 1,512 KW, 5,292 MBH Electric Steam Boiler With Packaged Standard Controls71,709.50 3,468.30
23 52 13 00-0035 EA 1,620 KW, 5,670 MBH Electric Steam Boiler With Packaged Standard Controls75,811.11 3,655.77

23 52 13 00-0036 Packaged Electric Hot Water Boiler (23 52 13)

Note: Flush jacketed steel shell. Includes burners, and safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.). Rated by KW and MBH output.

23 52 13 00-0037 EA 9 KW, 31 MBH, Electric Hot Boiler With Packaged Standard Controls5,474.11 488.38
23 52 13 00-0038 EA 12 KW, 41 MBH, Electric Hot Boiler With Packaged Standard Controls5,889.99 532.77
23 52 13 00-0039 EA 18 KW, 61 MBH, Electric Hot Boiler With Packaged Standard Controls6,305.86 577.17
23 52 13 00-0040 EA 24 KW, 82 MBH, Electric Hot Boiler With Packaged Standard Controls6,664.50 621.57
23 52 13 00-0041 EA 36 KW, 123 MBH, Electric Hot Boiler With Packaged Standard Controls7,031.31 665.98
23 52 13 00-0042 EA 48 KW, 164 MBH, Electric Hot Boiler With Packaged Standard Controls7,389.95 710.37
23 52 13 00-0043 EA 60 KW, 205 MBH Electric Hot Boiler With Packaged Standard Controls7,805.82 754.77
23 52 13 00-0044 EA 72 KW, 246 MBH Electric Hot Boiler With Packaged Standard Controls8,385.24 799.17
23 52 13 00-0045 EA 84 KW, 287 MBH Electric Hot Boiler With Packaged Standard Controls8,743.88 843.57
23 52 13 00-0046 EA 90 KW, 307 MBH Electric Hot Boiler With Packaged Standard Controls9,094.34 887.97
23 52 13 00-0047 EA 105 KW, 358 MBH Electric Hot Boiler With Packaged Standard Controls9,673.76 932.36
23 52 13 00-0048 EA 120 KW, 409 MBH Electric Hot Boiler With Packaged Standard Controls10,171.40 976.76
23 52 13 00-0049 EA 135 KW, 461 MBH Electric Hot Boiler With Packaged Standard Controls10,955.25 1,021.16
23 52 13 00-0050 EA 150 KW, 512 MBH Electric Hot Boiler With Packaged Standard Controls11,371.12 1,065.56
23 52 13 00-0051 EA 165 KW, 563 MBH Electric Hot Boiler With Packaged Standard Controls11,827.89 1,109.95
23 52 13 00-0052 EA 180 KW, 614 MBH Electric Hot Boiler With Packaged Standard Controls12,996.04 1,154.35
23 52 13 00-0053 EA 195 KW, 665 MBH Electric Hot Boiler With Packaged Standard Controls14,305.80 1,265.46
23 52 13 00-0054 EA 225 KW, 768 MBH Electric Hot Boiler With Packaged Standard Controls15,572.64 1,359.19
23 52 13 00-0055 EA 240 KW, 819 MBH Electric Hot Boiler With Packaged Standard Controls16,847.65 1,452.94
23 52 13 00-0056 EA 270 KW, 921 MBH Electric Hot Boiler With Packaged Standard Controls18,208.23 1,593.55
23 52 13 00-0057 EA 300 KW, 1,024 MBH Electric Hot Boiler With Packaged Standard Controls19,483.26 1,687.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 13 00-0058 EA 330 KW, 1,126 MBH Electric Hot Boiler With Packaged Standard Controls	20,529.32	1,781.02
23 52 13 00-0059 EA 360 KW, 1,228 MBH Electric Hot Boiler With Packaged Standard Controls	21,481.63	1,827.89
23 52 13 00-0060 EA 390 KW, 1,331 MBH Electric Hot Boiler With Packaged Standard Controls	22,834.64	1,874.75
23 52 13 00-0061 EA 420 KW, 1,433 MBH Electric Hot Boiler With Packaged Standard Controls	24,215.95	1,968.50
23 52 13 00-0062 EA 450 KW, 1,535 MBH Electric Hot Boiler With Packaged Standard Controls	25,524.27	1,968.50
23 52 13 00-0063 EA 504 KW, 1,720 MBH Electric Hot Boiler With Packaged Standard Controls	27,907.56	2,015.36
23 52 13 00-0064 EA 612 KW, 2,088 MBH Electric Hot Boiler With Packaged Standard Controls	29,268.75	2,062.23
23 52 13 00-0065 EA 684 KW, 2,334 MBH Electric Hot Boiler With Packaged Standard Controls	30,723.65	2,155.97
23 52 13 00-0066 EA 720 KW, 2,457 MBH Electric Hot Boiler With Packaged Standard Controls	32,084.81	2,202.84
23 52 13 00-0067 EA 750 KW, 2,559 MBH Electric Hot Boiler With Packaged Standard Controls	33,446.00	2,249.70
23 52 13 00-0068 EA 810 KW, 2,764 MBH Electric Hot Boiler With Packaged Standard Controls	34,544.90	2,390.31
23 52 13 00-0069 EA 900 KW, 3,071 MBH Electric Hot Boiler With Packaged Standard Controls	36,461.52	2,530.92
23 52 13 00-0070 EA 1,020 KW, 3,480 MBH Electric Hot Boiler With Packaged Standard Controls	42,793.71	2,671.53
23 52 13 00-0071 EA 1,110 KW, 3,787 MBH Electric Hot Boiler With Packaged Standard Controls	46,999.89	2,812.13
23 52 13 00-0072 EA 1,200 KW, 4,094 MBH Electric Hot Boiler With Packaged Standard Controls	49,149.84	2,905.87
23 52 13 00-0073 EA 1350 KW, 4,606 MBH Electric Hot Boiler With Packaged Standard Controls	51,569.04	3,093.35
23 52 13 00-0074 EA 1,440 KW, 4,913 MBH Electric Hot Boiler With Packaged Standard Controls	53,988.25	3,280.82
23 52 13 00-0075 EA 1,560 KW, 5,323 MBH Electric Hot Boiler With Packaged Standard Controls	60,250.64	3,468.30
23 52 13 00-0076 EA 1,680 KW, 5,732 MBH Electric Hot Boiler With Packaged Standard Controls	64,223.47	3,655.77
23 52 13 00-0077 EA 1,740 KW, 5,937 MBH Electric Hot Boiler With Packaged Standard Controls	65,964.57	3,749.92
23 52 13 00-0078 EA 1,800 KW, 6,142 MBH Electric Hot Boiler With Packaged Standard Controls	67,705.68	3,843.25
23 52 13 00-0079 EA 1,980 KW, 6,756 MBH Electric Hot Boiler With Packaged Standard Controls	67,986.89	3,983.86
23 52 13 00-0080 EA 2,100 KW, 7,165 MBH Electric Hot Boiler With Packaged Standard Controls	72,917.03	4,077.59
23 52 13 00-0081 EA 2,220 KW, 7,575 MBH Electric Hot Boiler With Packaged Standard Controls	76,305.50	4,218.20
23 52 13 00-0082 EA 2,600 KW, 8,871 MBH Electric Hot Boiler With Packaged Standard Controls	81,774.12	4,499.42
23 52 13 00-0083 EA 2,960 KW, 10,100 MBH Electric Hot Boiler With Packaged Standard Controls	87,535.90	4,968.10
23 52 13 00-0084 EA 3,240 KW, 11,055 MBH Electric Hot Boiler With Packaged Standard Controls	93,812.30	5,530.53
23 52 13 00-0085 EA 3,360 KW, 11,464 MBH Electric Hot Boiler With Packaged Standard Controls	99,843.35	6,092.96

23 52 16 Condensing Boilers (23 52)

23 52 16 13 Stainless-Steel Condensing Boilers (23 52 16)

23 52 16 13-0001 Hamilton Evo Series Stainless Steel Condensing Boilers (23 52 16 13)

Note: Includes circulating pump, mounting rack, disconnect panel, plumbing and gas manifold, manual reset high limit and LWCO (Cal Code).

23 52 16 13-0002 EA 75 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW79)	9,977.68	355.18
23 52 16 13-0003 EA 127 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW129)	10,553.98	473.10
23 52 16 13-0004 EA 168 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW179)	11,256.41	532.69
23 52 16 13-0005 EA 187 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW199.1)	11,932.32	562.35
23 52 16 13-0006 EA 281 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW299)	15,745.51	651.14
23 52 16 13-0007 EA 374 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW399)	18,223.25	710.28
23 52 16 13-0008 EA 589 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW599)	24,612.20	828.65
23 52 16 13-0009 EA 785 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW798)	34,204.82	947.10
23 52 16 13-0010 EA 980 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW998)	41,824.05	1,035.89
23 52 16 13-0011 EA 1,425 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1499)	60,371.70	1,213.41
23 52 16 13-0012 EA 1,900 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Hamilton Evo HW1999)	66,528.24	1,302.20

23 52 16 13-0013 Buderus SB615 Stainless Steel Condensing Boilers (23 52 16 13)

Note: Includes Riello burners. Capacity given is IBR rating.

23 52 16 13-0014 EA 484 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/145)	30,548.97	769.51
23 52 16 13-0015 EA 612 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/185)	32,041.85	828.65
23 52 16 13-0016 EA 791 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/240)	35,684.95	947.10
23 52 16 13-0017 EA 1,022 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/310)	38,670.69	1,065.47
23 52 16 13-0018 EA 1,317 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/400)	43,029.06	1,154.26
23 52 16 13-0019 EA 1,459 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/510)	49,177.77	1,213.41
23 52 16 13-0020 EA 2,104 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB615/640)	58,742.04	1,302.20

23 52 16 13-0021 Buderus SB735 Stainless Steel Condensing Boilers (23 52 16 13)

Note: Includes Riello burners.

23 52 16 13-0022 EA 2,650 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/790)	62,209.95	1,420.56
23 52 16 13-0023 EA 3,251 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/970)	72,045.50	1,479.79
23 52 16 13-0024 EA 4,079 MBH Water, Gas Fired, Stainless Steel Condensing Boiler (Buderus SB735/1200)	83,495.80	1,539.01

23 52 16 13-0025 Lochinvar Knight Stainless Steel Condensing Boilers (23 52 16 13)

23 52 16 13-0026 EA 165 MBH 95.7% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN211)	9,254.11	532.69
23 52 16 13-0027 EA 226 MBH 96% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight KBN286)	12,123.08	591.91

23 52 16 13-0028 Lochinvar Knight XL Stainless Steel Condensing Boilers (23 52 16 13)

23 52 16 13-0029 EA 324 MBH 93.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN400)	14,616.54	680.71
23 52 16 13-0030 EA 406 MBH 93.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN501)	17,959.16	710.28

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 52 Heating Boilers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 13-0031 EA 493 MBH 94.6% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN601)	21,095.14	769.51
23 52 16 13-0032 EA 574 MBH 94.3% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN701)	24,271.46	799.08
23 52 16 13-0033 EA 654 MBH 94% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar Knight XL KBN801)	27,839.23	858.30
23 52 16 13-0034 Lochinvar SYNC Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0035 EA 941 MBH 94.1% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1000)	38,130.37	1,035.89
23 52 16 13-0036 EA 1,240 MBH 95.4% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1300)	43,422.12	1,124.60
23 52 16 13-0037 EA 1,443 MBH 96.2% Efficient, Gas Fired, Stainless Steel Heat Exchanger, Condensing Boiler (Lochinvar SYNC SBN1500)	46,634.51	1,213.41
23 52 16 13-0038 Lochinvar Crest Stainless Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0039 EA 1,380 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN1500)	46,330.90	1,154.26
23 52 16 13-0040 EA 1,840 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2000)	55,555.03	1,302.20
23 52 16 13-0041 EA 2,300 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN2500)	72,259.99	1,361.42
23 52 16 13-0042 EA 2,760 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3000)	79,668.30	1,420.56
23 52 16 13-0043 EA 3,220 MBH 92% Efficient, Gas Fired, Stainless Steel Firetube, Condensing Boiler (Lochinvar Crest FBN3500)	94,823.81	1,479.79
23 52 16 13-0044 Laars Neotherm Stainless Steel Condensing Boiler (23 52 16 13)		
Note: Compliant with SCAQMD.		
23 52 16 13-0045 EA 80 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH080)	6,824.61	384.76
23 52 16 13-0046 EA 105 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH105)	7,790.10	443.98
23 52 16 13-0047 EA 150 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH150)	8,725.79	532.69
23 52 16 13-0048 EA 210 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH210)	9,717.91	591.91
23 52 16 13-0049 EA 285 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH285)	12,472.24	651.14
23 52 16 13-0050 EA 399 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH399)	15,494.03	710.28
23 52 16 13-0051 EA 500 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH500)	19,920.99	769.51
23 52 16 13-0052 EA 600 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH600)	21,403.29	828.65
23 52 16 13-0053 EA 750 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH750)	23,124.01	887.88
23 52 16 13-0054 EA 850 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH850)	24,982.38	1,006.24
23 52 16 13-0055 EA 1,000 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1000)	35,883.23	1,065.47
23 52 16 13-0056 EA 1,700 MBH, Gas Fired, Stainless Steel, Condensing Boiler (Laars Neotherm NTH1700)	47,716.58	1,243.06
23 52 16 13-0057 EA 150 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV150)	9,353.93	532.69
23 52 16 13-0058 EA 199 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV199)	10,938.66	562.35
23 52 16 13-0059 EA 285 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV285)	14,181.18	651.14
23 52 16 13-0060 EA 399 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV399)	17,073.47	710.28
23 52 16 13-0061 EA 500 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV500)	21,322.51	769.51
23 52 16 13-0062 EA 600 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV600)	22,226.29	828.65
23 52 16 13-0063 EA 750 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV750)	24,364.57	887.88
23 52 16 13-0064 EA 800 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV800)	26,143.39	947.10
23 52 16 13-0065 EA 1,000 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV1000)	35,883.23	1,065.47
23 52 16 13-0066 EA 1,700 MBH, Gas Fired, Stainless Steel, Condensing Domestic Boiler (Laars Neotherm NTV1700)	47,716.58	1,243.06
23 52 16 13-0067 AERCO Benchmark Stainless-Steel Condensing Boilers (23 52 16 13)		
23 52 16 13-0068 EA 1,500 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK1.5LN)	38,711.60	1,213.41
Note: Includes gas PRV and pump delay relay.		
23 52 16 13-0069 EA 2,000 MBH Water, 120 Volt, 1 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK2.0LN)	45,933.09	1,302.20
Note: Includes gas PRV and pump delay relay.		
23 52 16 13-0070 EA 3,000 MBH Water, 220 Volt, 1 Phase, 230 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000)	66,028.34	1,450.22
Note: Includes gas PRV and pump delay relay.		
23 52 16 13-0071 EA 3,000 MBH Water, 480 Volt, 3 Phase, Gas Fired, Stainless Steel Condensing Boiler (AERCO BMK3000)	70,348.02	1,450.22
Note: Includes gas PRV and pump delay relay.		
23 52 16 16 Aluminum Condensing Boilers (23 52 16)		
23 52 16 16-0001 Weil McLain Aluminum Condensing Boilers (23 52 16 16)		
23 52 16 16-0002 EA 80 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80)	5,519.90	384.76
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0003 EA 105 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80)	6,094.96	443.98
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0004 EA 155 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80)	6,891.31	532.69
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0005 EA 230 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80)	7,731.35	591.91
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0006 EA 310 MBH Water Gas Fired Condensing Boiler (Weil McLain Ultra 80)	9,985.10	680.71
Note: Aluminum block with stainless steel burner. Includes boiler inline circulating pump.		
23 52 16 16-0007 Patterson Kelly Mach Series Aluminum Condensing Boilers (23 52 16 16)		
23 52 16 16-0008 EA 300 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C300)	15,786.04	651.14
23 52 16 16-0009 EA 450 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C450)	17,759.71	739.94
23 52 16 16-0010 EA 750 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C750)	20,112.79	887.88



	MINOR CSI UOM DESCRIPTION		TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
	23 52 16 16-0011 EA	900 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C900).....	29,807.85	1,006.24
	23 52 16 16-0012 EA	1,050 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C1050).....	31,137.65	1,065.47
	23 52 16 16-0013 EA	1,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C1500).....	48,323.72	1,213.41
	23 52 16 16-0014 EA	2,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C2000).....	52,328.71	1,302.20
	23 52 16 16-0015 EA	2,500 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C2500).....	60,579.90	1,420.56
	23 52 16 16-0016 EA	3,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C3000).....	75,014.38	1,450.22
	23 52 16 16-0017 EA	4,000 MBH Water, Gas Fired, Aluminum Condensing Boiler (Patterson Kelly Mach C4000).....	91,578.68	1,539.01
	23 52 16 16-0018	Buderus GB142 Wall Hung Aluminum Condensing Boilers <small>(23 52 16 16)</small>		
		Note: Includes standard controls.		
	23 52 16 16-0019 EA	75 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/24).....	6,563.42	355.18
		Note: Includes an aluminum heat exchanger and three speed circulating pump.		
	23 52 16 16-0020 EA	95 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/30).....	7,620.79	414.32
		Note: Includes an aluminum heat exchanger and three speed circulating pump.		
	23 52 16 16-0021 EA	143 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/45).....	8,764.02	503.12
		Note: Includes an aluminum heat exchanger and three speed circulating pump.		
	23 52 16 16-0022 EA	193 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB142/60).....	9,583.18	562.35
		Note: Includes an aluminum heat exchanger and three speed circulating pump.		
	23 52 16 16-0023 EA	Optional Vertical Or Horizontal 3" Concentric Termination Kit For GB142 (Buderus 60L46).....	298.89	88.80
	23 52 16 16-0024 EA	Optional Stainless Steel Concentric Hood For GB142 (Buderus SJT3).....	399.73	88.80
	23 52 16 16-0025 EA	Optional GB Floor Stand For GB142 (Buderus 7098265).....	884.92	88.80
	23 52 16 16-0026	Buderus GB162 Wall Hung Aluminum Condensing Boilers <small>(23 52 16 16)</small>		
		Note: Includes standard controls.		
	23 52 16 16-0027 EA	290 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/80).....	9,046.05	651.14
		Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.		
	23 52 16 16-0028 EA	333 MBH Water, Gas Fired, Wall Hung Aluminum Condensing Boiler (Buderus GB162/100).....	11,172.93	680.71
		Note: Includes an aluminum heat exchanger, connection pump module, low loss header, outdoor reset module, outdoor temperature sensor, and 1-1/2" unions.		
	23 52 16 16-0029 EA	580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/80-TL2).....	21,629.82	799.08
		Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
	23 52 16 16-0030 EA	580 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/80-TR2).....	20,207.95	799.08
		Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
	23 52 16 16-0031 EA	666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Two Boilers) (Buderus GB162/100-TL2).....	25,883.57	858.30
		Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
	23 52 16 16-0032 EA	666 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Two Boilers) (Buderus GB162/100-TR2).....	24,461.71	858.30
		Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
	23 52 16 16-0033 EA	870 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/80-TL3).....	30,092.01	1,006.24
		Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
	23 52 16 16-0034 EA	999 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Three Boilers) (Buderus GB162/100-TL3).....	36,383.85	1,065.47
		Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
	23 52 16 16-0035 EA	1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/80-TL4).....	37,394.67	1,124.60
		Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
	23 52 16 16-0036 EA	1,160 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/80-TR4).....	37,964.14	1,124.60
		Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
	23 52 16 16-0037 EA	1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler In Line Cascade Package (Four Boilers) (Buderus GB162/100-TL4).....	45,635.81	1,154.26
		Note: Includes an aluminum heat exchangers, connection pump module, inline cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
	23 52 16 16-0038 EA	1,332 MBH Water, Gas Fired, Frame Mounted Aluminum Condensing Boiler Back To Back Cascade Package (Four Boilers) (Buderus GB162/100-TR4).....	46,205.27	1,154.26
		Note: Includes an aluminum heat exchangers, connection pump module, back to back cascade package (stand), RC35 controller, outdoor temperature sensor, MCM10 intelligent sequencing module, WM10 low loss header module and insulation package.		
	23 52 16 16-0039 EA	EMS Control Module For Condensing Boiler (Buderus RC35).....	609.11	88.80

23	23 Heating, Ventilating, And Air-Conditioning (HVAC)
	23 50 Central Heating Equipment
	23 52 Heating Boilers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 16 16-0040 Buderus GB312 Aluminum Condensing Boilers (23 52 16 16) Note: Includes standard controls.		
23 52 16 16-0041 EA 305 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/90).....	17,707.63	651.14
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0042 EA 409 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/120).....	19,478.17	710.28
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0043 EA 544 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/160).....	23,134.49	784.25
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0044 EA 676 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/200).....	26,630.06	858.30
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0045 EA 810 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/240).....	31,923.74	947.10
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0046 EA 944 MBH Water, Gas Fired, Aluminum Condensing Boiler (Buderus GB312/280).....	35,259.10	1,035.89
Note: Includes an aluminum heat exchanger.		
23 52 16 16-0047 EA Optional CSD-1 Kit Consisting Of High And Low Gas Pressure Switches For GB312 (Buderus 7747019985).....	527.23	44.40
23 52 16 16-0048 EA Optional L4006E1125 Manual Reset Aquastat For GB312 (Buderus L4006E1125).....	249.56	44.40
23 52 16 16-0049 EA Optional Hydrolevel 550 low Water Cut-Off For GB312 (Buderus 550).....	362.09	44.40
23 52 16 16-0050 EA Optional Condensate Neutralization Tank For GB312 (Buderus 63035899).....	780.05	44.40
23 52 16 19 Copper Water-Tube Condensing Boilers (23 52 16) 23 52 16 19-0001 Laars Rheos+ Copper Fin Tube Condensing Boilers (23 52 16 19)		
23 52 16 19-0002 EA 1,200 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	36,398.54	1,124.60
23 52 16 19-0003 EA 1,600 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	41,040.13	1,243.06
23 52 16 19-0004 EA 2,000 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	44,909.39	1,302.20
23 52 16 19-0005 EA 2,400 MBH Water, Gas Fired, Copper Fin Tube Condensing Boiler (Laars Rheos+).....	48,463.51	1,361.42
23 52 16 23 Cast Iron Condensing Boilers (23 52 16) 23 52 16 23-0001 Hydrotherm KN Cast Iron Condensing Boilers (23 52 16 23)		
23 52 16 23-0002 EA 199 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-2).....	12,283.31	562.35
23 52 16 23-0003 EA 399 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-4).....	17,963.04	710.28
23 52 16 23-0004 EA 600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-6).....	29,480.83	828.65
23 52 16 23-0005 EA 1,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-10).....	38,693.55	1,065.47
23 52 16 23-0006 EA 1,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-16).....	51,554.44	1,243.06
23 52 16 23-0007 EA 1,999 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-20).....	56,228.30	1,302.20
23 52 16 23-0008 EA 2,600 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-26).....	71,527.06	1,420.56
23 52 16 23-0009 EA 3,000 MBH Water, Gas Fired, Cast Iron Condensing Boiler (Hydrotherm KN-30).....	78,166.00	1,450.22
23 52 23 Cast-Iron Boilers (23 52) 23 52 23 00-0001 Weil-McLain Model 80 Cast Iron Boiler (23 52 23) Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0002 Gas Fired Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001) Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0003 EA 209 MBH Steam, 242 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 380).....	13,983.95	2,814.25
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0004 EA 297 MBH Steam, 344 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 480).....	15,256.48	3,001.88
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0005 EA 386 MBH Steam, 448 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 580).....	16,646.45	3,189.49
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0006 EA 476 MBH Steam, 551 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 680).....	17,941.16	3,377.11
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0007 EA 565 MBH Steam, 655 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 780).....	19,139.14	3,564.72
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0008 EA 654 MBH Steam, 758 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 880).....	20,767.99	3,752.35
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0009 EA 743 MBH Steam, 862 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 980).....	22,033.68	3,939.96
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0010 EA 833 MBH Steam, 965 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1080).....	23,044.75	4,127.58
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0011 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1180).....	24,052.18	4,315.19
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0012 EA 1,018 MBH Steam, 1,172 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1280).....	25,210.83	4,502.82
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0013 Gas Fired Package Weil-McLain Model 80 Cast Iron Boiler (23 52 23 00-0001)		
23 52 23 00-0014 EA 209 MBH Steam, 242 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 380).....	9,553.20	374.95
Note: Fire tested factory assembled package unit.		
23 52 23 00-0015 EA 297 MBH Steam, 344 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 480).....	10,612.74	374.95
Note: Fire tested factory assembled package unit.		
23 52 23 00-0016 EA 386 MBH Steam, 448 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 580).....	12,166.66	468.69
Note: Fire tested factory assembled package unit.		
23 52 23 00-0017 EA 476 MBH Steam, 551 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 680).....	13,247.02	468.69
Note: Fire tested factory assembled package unit.		
23 52 23 00-0018 EA 565 MBH Steam, 655 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 780).....	14,609.20	562.43
Note: Fire tested factory assembled package unit.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0019 EA 654 MBH Steam, 758 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 880) Note: Fire tested factory assembled package unit.	16,037.99	562.43
23 52 23 00-0020 EA 743 MBH Steam, 862 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 980) Note: Fire tested factory assembled package unit.	17,465.92	656.17
23 52 23 00-0021 EA 833 MBH Steam, 965 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1080) Note: Fire tested factory assembled package unit.	18,639.62	749.90
23 52 23 00-0022 EA 922 MBH Steam, 1,069 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1180) Note: Fire tested factory assembled package unit.	19,436.20	749.90
23 52 23 00-0023 EA 1018 MBH Steam, 1172 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1280) Note: Fire tested factory assembled package unit.	20,755.66	843.64
23 52 23 00-0024 Gas/Oil Fired Weil-McLain Model 80 Cast Iron Boiler <small>(23 52 23 00-0001)</small> Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0025 EA 209 MBH Steam, 242 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 380) Note: Includes field assembly of individual sections and testing.	14,603.02	2,814.25
23 52 23 00-0026 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	15,986.21	3,001.88
23 52 23 00-0027 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	17,309.35	3,189.49
23 52 23 00-0028 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	18,783.75	3,377.11
23 52 23 00-0029 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	20,004.74	3,564.72
23 52 23 00-0030 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	21,773.84	3,752.35
23 52 23 00-0031 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	22,897.10	3,939.96
23 52 23 00-0032 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	23,990.34	4,127.58
23 52 23 00-0033 EA 922 MBH Steam, 1069 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	24,998.86	4,315.19
23 52 23 00-0034 EA 1,018 MBH Steam, 1172 MBH Water Gas/Oil Fired Cast Iron Boiler Note: Weil-McLain Model 80. Includes field assembly of individual sections and testing.	26,187.10	4,502.82
23 52 23 00-0035 Gas/Oil Fired Package Weil-McLain Model 80 Cast Iron Boiler <small>(23 52 23 00-0001)</small>		
23 52 23 00-0036 EA 209 MBH Steam, 242 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 380) Note: Fire tested factory assembled package cast iron unit.	10,172.27	374.95
23 52 23 00-0037 EA 297 MBH Steam, 344 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 480) Note: Fire tested factory assembled package cast iron unit.	11,342.47	374.95
23 52 23 00-0038 EA 386 MBH Steam, 448 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 580) Note: Fire tested factory assembled package cast iron unit.	12,829.56	468.69
23 52 23 00-0039 EA 476 MBH Steam, 551 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 680) Note: Fire tested factory assembled package cast iron unit.	14,089.61	468.69
23 52 23 00-0040 EA 565 MBH Steam, 655 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 780) Note: Fire tested factory assembled package cast iron unit.	15,474.80	562.43
23 52 23 00-0041 EA 654 MBH Steam, 758 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 880) Note: Fire tested factory assembled package cast iron unit.	17,043.84	562.43
23 52 23 00-0042 EA 743 MBH Steam, 862 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 980) Note: Fire tested factory assembled package cast iron unit.	18,329.33	656.17
23 52 23 00-0043 EA 833 MBH Steam, 965 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1080) Note: Fire tested factory assembled package cast iron unit.	19,585.21	749.90
23 52 23 00-0044 EA 922 MBH Steam, 1,069 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1180) Note: Fire tested factory assembled package cast iron unit.	20,382.88	749.90
23 52 23 00-0045 EA 1,018 MBH Steam, 1,172 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1280) Note: Fire tested factory assembled package cast iron unit.	21,731.93	843.64
23 52 23 00-0046 Weil-McLain Model 88 Cast Iron Boiler <small>(23 52 23)</small> Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0047 Gas Fired Weil-McLain Model 88 Cast Iron Boiler <small>(23 52 23 00-0046)</small> Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0048 EA 629 MBH Steam, 730 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 488) Note: Includes field assembly of individual sections and testing.	22,546.16	4,221.39
23 52 23 00-0049 EA 845 MBH Steam, 979 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 588) Note: Includes field assembly of individual sections and testing.	24,847.03	4,479.36
23 52 23 00-0050 EA 1072 MBH Steam, 1229 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 688) Note: Includes field assembly of individual sections and testing.	27,684.85	4,737.34
23 52 23 00-0051 EA 1,311 MBH Steam, 1,478 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 788) Note: Includes field assembly of individual sections and testing.	30,190.27	4,995.31
23 52 23 00-0052 EA 1,543 MBH Steam, 1,728 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 888) Note: Includes field assembly of individual sections and testing.	32,374.28	5,253.27
23 52 23 00-0053 EA 1,766 MBH Steam, 1,977 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 988) Note: Includes field assembly of individual sections and testing.	35,520.16	5,511.25
23 52 23 00-0054 EA 1,988 MBH Steam, 2,227 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1088) Note: Includes field assembly of individual sections and testing.	37,724.27	5,769.22
23 52 23 00-0055 EA 2,211 MBH Steam, 2,477 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1188) Note: Includes field assembly of individual sections and testing.	39,679.16	6,027.20
23 52 23 00-0056 EA 2,434 MBH Steam, 2,726 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1288) Note: Includes field assembly of individual sections and testing.	42,274.68	6,285.17

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0057	EA	2,657 MBH Steam, 2,976 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1388) Note: Includes field assembly of individual sections and testing.	44,370.66	6,543.14
23 52 23 00-0058	EA	2,880 MBH Steam, 3,225 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1488) Note: Includes field assembly of individual sections and testing.	47,900.93	6,801.12
23 52 23 00-0059	EA	3,102 MBH Steam, 3,475 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1588) Note: Includes field assembly of individual sections and testing.	49,897.34	7,059.09
23 52 23 00-0060	EA	3,325 MBH Steam, 3,724 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1688) Note: Includes field assembly of individual sections and testing.	52,012.18	7,317.07
23 52 23 00-0061	EA	3,548 MBH Steam, 3,974 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1788) Note: Includes field assembly of individual sections and testing.	54,363.86	7,575.04
23 52 23 00-0062	EA	3,771 MBH Steam, 4,223 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain 1888) Note: Includes field assembly of individual sections and testing.	56,285.14	7,833.02
23 52 23 00-0063		Gas Fired Package Weil-McLain Model 88 Cast Iron Boiler <small>(23 52 23 00-0046)</small>		
23 52 23 00-0064	EA	629 MBH Steam, 730 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 488) Note: Fire tested factory assembled package unit.	17,481.26	656.17
23 52 23 00-0065	EA	845 MBH Steam, 979 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 588) Note: Fire tested factory assembled package unit.	19,828.46	749.90
23 52 23 00-0066	EA	1,072 MBH Steam, 1,229 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 688) Note: Fire tested factory assembled package unit.	22,725.73	843.64
23 52 23 00-0067	EA	1,311 MBH Steam, 1,478 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 788) Note: Fire tested factory assembled package unit.	25,266.88	937.38
23 52 23 00-0068	EA	1,543 MBH Steam, 1,728 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 888) Note: Fire tested factory assembled package unit.	27,120.80	937.38
23 52 23 00-0069	EA	1,766 MBH Steam, 1,977 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 988) Note: Fire tested factory assembled package unit.	30,316.07	1,031.12
23 52 23 00-0070	EA	1,988 MBH Steam, 2,227 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1088) Note: Fire tested factory assembled package unit.	32,193.01	1,031.12
23 52 23 00-0071	EA	2,211 MBH Steam, 2,477 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1188) Note: Fire tested factory assembled package unit.	34,193.99	1,124.85
23 52 23 00-0072	EA	2,434 MBH Steam, 2,726 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1288) Note: Fire tested factory assembled package unit.	36,463.18	1,124.85
23 52 23 00-0073	EA	2,657 MBH Steam, 2,976 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1388) Note: Fire tested factory assembled package unit.	38,605.51	1,218.59
23 52 23 00-0074	EA	2,880 MBH Steam, 3,225 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1488) Note: Fire tested factory assembled package unit.	40,680.98	1,312.33
23 52 23 00-0075	EA	3,102 MBH Steam, 3,475 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1588) Note: Fire tested factory assembled package unit.	42,350.83	1,312.33
23 52 23 00-0076	EA	3,325 MBH Steam, 3,724 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1688) Note: Fire tested factory assembled package unit.	44,512.85	1,406.07
23 52 23 00-0077	EA	3,548 MBH Steam, 3,974 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1788) Note: Fire tested factory assembled package unit.	46,536.61	1,406.07
23 52 23 00-0078	EA	3,771 MBH Steam, 4,223 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain 1888) Note: Fire tested factory assembled package unit.	48,527.68	1,499.80
23 52 23 00-0079		Gas/Oil Fired Weil-McLain Model 88 Cast Iron Boiler <small>(23 52 23 00-0046)</small> Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0080	EA	629 MBH Steam, 730 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 488) Note: Includes field assembly of individual sections and testing.	23,308.77	4,221.39
23 52 23 00-0081	EA	845 MBH Steam, 979 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 588) Note: Includes field assembly of individual sections and testing.	25,605.25	4,479.36
23 52 23 00-0082	EA	1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 688) Note: Includes field assembly of individual sections and testing.	28,640.30	4,737.34
23 52 23 00-0083	EA	1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 788) Note: Includes field assembly of individual sections and testing.	31,242.14	4,995.31
23 52 23 00-0084	EA	1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 888) Note: Includes field assembly of individual sections and testing.	33,318.78	5,253.27
23 52 23 00-0085	EA	1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 988) Note: Includes field assembly of individual sections and testing.	36,405.49	5,511.25
23 52 23 00-0086	EA	1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1088) Note: Includes field assembly of individual sections and testing.	39,053.35	5,769.22
23 52 23 00-0087	EA	2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1188) Note: Includes field assembly of individual sections and testing.	41,008.24	6,027.20
23 52 23 00-0088	EA	2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1288) Note: Includes field assembly of individual sections and testing.	43,577.47	6,285.17
23 52 23 00-0089	EA	2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1388) Note: Includes field assembly of individual sections and testing.	46,233.35	6,543.14
23 52 23 00-0090	EA	2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1488) Note: Includes field assembly of individual sections and testing.	49,857.85	6,801.12
23 52 23 00-0091	EA	3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1588) Note: Includes field assembly of individual sections and testing.	52,512.78	7,059.09
23 52 23 00-0092	EA	3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1688) Note: Includes field assembly of individual sections and testing.	53,968.01	7,317.07
23 52 23 00-0093	EA	3,548 MBH Steam, 3,974 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1788) Note: Includes field assembly of individual sections and testing.	56,260.52	7,575.04
23 52 23 00-0094	EA	3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain 1888) Note: Includes field assembly of individual sections and testing.	58,202.62	7,833.02
23 52 23 00-0095		Gas/Oil Fired Package Weil-McLain Model 88 Cast Iron Boiler <small>(23 52 23 00-0046)</small>		
23 52 23 00-0096	EA	629 MBH Steam, 730 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 488) Note: Fire tested factory assembled package cast iron unit.	18,243.86	656.17



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0097 EA 845 MBH Steam, 979 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 588).....	20,586.68	749.90
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0098 EA 1,072 MBH Steam, 1,229 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 688).....	23,670.22	843.64
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0099 EA 1,311 MBH Steam, 1,478 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 788).....	26,318.75	937.38
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0100 EA 1,543 MBH Steam, 1,728 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 888).....	28,067.49	937.38
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0101 EA 1,766 MBH Steam, 1,977 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 988).....	31,201.40	1,031.12
Note: Weil-McLain Model 88. Fire tested factory assembled package cast iron unit.		
23 52 23 00-0102 EA 1,988 MBH Steam, 2,227 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1088).....	33,522.09	1,031.12
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0103 EA 2,211 MBH Steam, 2,477 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1188).....	35,523.07	1,124.85
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0104 EA 2,434 MBH Steam, 2,726 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1288).....	37,765.97	1,124.85
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0105 EA 2,657 MBH Steam, 2,976 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1388).....	40,473.68	1,218.59
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0106 EA 2,880 MBH Steam, 3,225 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1488).....	42,637.90	1,312.33
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0107 EA 3,102 MBH Steam, 3,475 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1588).....	43,870.56	1,312.33
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0108 EA 3,325 MBH Steam, 3,724 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1688).....	46,468.68	1,406.07
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0109 EA 3,548 MBH Steam, 3,974 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1788).....	48,433.27	1,406.07
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0110 EA 3,771 MBH Steam, 4,223 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain 1888).....	50,423.24	1,499.80
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0111 Weil-McLain Model 94 Cast Iron Boiler ^(23 52 23)		
Note: Capacities are the net AHRI ratings for steam or water MBH output. Includes burner unit and controls. Excludes flue piping, fuel piping, boiler base or pad.		
23 52 23 00-0112 Gas Fired Weil-McLain Model 94 Cast Iron Boiler ^(23 52 23 00-0111)		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0113 EA 1,584 MBH Steam, 1,784 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-894).....	60,663.19	8,208.24
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0114 EA 1,800 MBH Steam, 2,050 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-994).....	65,722.35	8,677.29
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0115 EA 2,024 MBH Steam, 2,310 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1094).....	70,348.35	9,146.34
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0116 EA 2,249 MBH Steam, 2,571 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1194).....	74,878.91	9,615.38
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0117 EA 2,474 MBH Steam, 2,834 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1294).....	79,451.29	10,084.42
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0118 EA 2,703 MBH Steam, 3,098 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1394).....	85,378.80	10,553.47
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0119 EA 2,928 MBH Steam, 3,362 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1494).....	89,690.59	11,022.51
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0120 EA 3,154 MBH Steam, 3,628 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1594).....	93,864.78	11,491.55
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0121 EA 3,378 MBH Steam, 3,894 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1694).....	100,619.06	11,960.59
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0122 EA 3,604 MBH Steam, 4,162 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1794).....	104,790.88	12,429.63
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0123 EA 3,834 MBH Steam, 4,430 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1894).....	108,378.41	12,898.67
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0124 EA 4,059 MBH Steam, 4,700 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-1994).....	114,899.47	13,367.72
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0125 EA 4,285 MBH Steam, 4,970 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2094).....	119,105.35	13,836.76
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0126 EA 4,510 MBH Steam, 5,241 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2194).....	125,775.20	14,305.80
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0127 EA 4,781 MBH Steam, 5,568 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2294).....	130,199.35	14,774.85
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0128 EA 4,961 MBH Steam, 5,787 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2394).....	135,034.54	15,243.90
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0129 EA 5,232 MBH Steam, 6,117 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2494).....	139,196.30	15,712.94
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0130 EA 5,413 MBH Steam, 6,338 MBH Water Gas Fired Cast Iron Boiler (Weil-McLain H-2594).....	143,475.87	16,181.98
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0131 Gas Fired Package Weil-McLain Model 94 Cast Iron Boiler ^(23 52 23 00-0111)		
23 52 23 00-0132 EA 1,584 MBH Steam, 1,784 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-894).....	53,430.34	1,218.59
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0133 EA 1,800 MBH Steam, 2,050 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-994).....	58,272.44	1,312.33
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0134 EA 2,024 MBH Steam, 2,310 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1094).....	62,678.46	1,406.07
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0135 EA 2,249 MBH Steam, 2,571 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1194).....	66,992.42	1,499.80
Note: Fire tested factory assembled package cast iron unit.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0136 EA 2,474 MBH Steam, 2,834 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1294).....	70,969.81	1,499.80
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0137 EA 2,703 MBH Steam, 3,098 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1394).....	75,180.88	1,593.55
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0138 EA 2,928 MBH Steam, 3,362 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1494).....	78,898.59	1,593.55
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0139 EA 3,154 MBH Steam, 3,628 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1594).....	82,854.25	1,687.28
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0140 EA 3,378 MBH Steam, 3,894 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1694).....	89,015.37	1,687.28
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0141 EA 3,604 MBH Steam, 4,162 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1794).....	92,969.92	1,781.02
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0142 EA 3,834 MBH Steam, 4,430 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1894).....	95,963.38	1,781.02
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0143 EA 4,059 MBH Steam, 4,700 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-1994).....	102,268.30	1,874.75
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0144 EA 4,285 MBH Steam, 4,970 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2094).....	105,879.73	1,874.75
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0145 EA 4,510 MBH Steam, 5,241 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2194).....	112,351.23	1,968.50
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0146 EA 4,781 MBH Steam, 5,568 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2294).....	116,160.98	1,968.50
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0147 EA 4,961 MBH Steam, 5,787 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2394).....	120,776.28	2,062.23
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0148 EA 5,232 MBH Steam, 6,117 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2494).....	124,344.98	2,062.23
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0149 EA 5,413 MBH Steam, 6,338 MBH Water Gas Fired Package Cast Iron Boiler (Weil-McLain H-2594).....	128,405.80	2,155.97
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0150 Oil Fired Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0151 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-894).....	57,393.62	8,208.24
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0152 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-994).....	62,452.78	8,677.29
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0153 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1094).....	68,593.04	9,146.34
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0154 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1194).....	72,728.05	9,615.38
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0155 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1294).....	77,030.89	10,084.42
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0156 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1394).....	82,657.08	10,553.47
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0157 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1494).....	87,172.67	11,022.51
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0158 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1594).....	91,349.05	11,491.55
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0159 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1694).....	98,885.67	11,960.59
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0160 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1794).....	103,058.58	12,429.63
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0161 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1894).....	107,230.11	12,898.67
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0162 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-1994).....	114,907.14	13,367.72
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0163 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2094).....	119,113.02	13,836.76
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0164 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2194).....	125,959.28	14,305.80
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0165 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2294).....	130,382.33	14,774.85
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0166 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2394).....	135,123.29	15,243.90
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0167 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2494).....	139,285.05	15,712.94
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0168 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Cast Iron Boiler (Weil-McLain H-2594).....	143,571.19	16,181.98
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0169 Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler (23 52 23 00-0111)		
23 52 23 00-0170 EA 1,584 MBH Steam, 1,784 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-894).....	49,983.26	1,218.59
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0171 EA 1,800 MBH Steam, 2,050 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-994).....	54,825.37	1,312.33
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0172 EA 2,024 MBH Steam, 2,310 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094).....	60,745.65	1,406.07
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0173 EA 2,249 MBH Steam, 2,571 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194).....	64,664.05	1,499.80
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0174 EA 2,474 MBH Steam, 2,834 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294).....	68,371.90	1,499.80
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0175 EA 2,703 MBH Steam, 3,098 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394).....	72,281.66	1,593.55
Note: Fire tested factory assembled package cast iron unit.		



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0176 EA 2,928 MBH Steam, 3,362 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494).....	76,203.17	1,593.55
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0177 EA 3,154 MBH Steam, 3,628 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594).....	80,158.83	1,687.28
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0178 EA 3,378 MBH Steam, 3,894 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694).....	87,104.47	1,687.28
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0179 EA 3,604 MBH Steam, 4,162 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794).....	91,057.93	1,781.02
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0180 EA 3,834 MBH Steam, 4,430 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894).....	94,637.58	1,781.02
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0181 EA 4,059 MBH Steam, 4,700 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994).....	102,098.47	1,874.75
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0182 EA 4,285 MBH Steam, 4,970 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094).....	105,709.90	1,874.75
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0183 EA 4,510 MBH Steam, 5,241 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194).....	112,335.89	1,968.50
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0184 EA 4,781 MBH Steam, 5,568 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294).....	116,166.45	1,968.50
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0185 EA 4,961 MBH Steam, 5,787 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394).....	120,687.53	2,062.23
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0186 EA 5,232 MBH Steam, 6,117 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494).....	124,256.23	2,062.23
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0187 EA 5,413 MBH Steam, 6,338 MBH Water Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594).....	128,323.63	2,155.97
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0188 Gas/Oil Fired Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
Note: Field assembled boilers can only be used in situations where package units cannot be installed.		
23 52 23 00-0189 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-894).....	61,690.96	8,208.24
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0190 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-994).....	66,751.22	8,677.29
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0191 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1094).....	71,657.71	9,146.34
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0192 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1194).....	76,298.94	9,615.38
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0193 EA 2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1294).....	80,846.12	10,084.42
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0194 EA 2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1394).....	85,893.77	10,553.47
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0195 EA 2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1494).....	91,400.98	11,022.51
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0196 EA 3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1594).....	95,844.71	11,491.55
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0197 EA 3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1694).....	102,771.02	11,960.59
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0198 EA 3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1794).....	106,942.83	12,429.63
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0199 EA 3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1894).....	110,607.06	12,898.67
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0200 EA 4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-1994).....	117,202.63	13,367.72
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0201 EA 4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2094).....	122,504.21	13,836.76
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0202 EA 4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2194).....	129,761.36	14,305.80
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0203 EA 4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2294).....	134,152.63	14,774.85
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0204 EA 4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2394).....	139,191.63	15,243.90
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0205 EA 5,232 MBH Steam, 6,117 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2494).....	143,354.48	15,712.94
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0206 EA 5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Cast Iron Boiler (Weil-McLain H-2594).....	147,637.34	16,181.98
Note: Includes field assembly of individual sections and testing.		
23 52 23 00-0207 Gas/Oil Fired Package Weil-McLain Model 94 Cast Iron Boiler <small>(23 52 23 00-0111)</small>		
23 52 23 00-0208 EA 1,584 MBH Steam, 1,784 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-894).....	54,538.09	1,218.59
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0209 EA 1,800 MBH Steam, 2,050 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-994).....	59,381.29	1,312.33
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0210 EA 2,024 MBH Steam, 2,310 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1094).....	64,071.10	1,406.07
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0211 EA 2,249 MBH Steam, 2,571 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1194).....	68,493.53	1,499.80
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0212 EA 2,474 MBH Steam, 2,834 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1294).....	72,445.72	1,499.80
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0213 EA 2,703 MBH Steam, 3,098 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1394).....	75,775.85	1,593.55
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0214 EA 2,928 MBH Steam, 3,362 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1494).....	80,688.97	1,593.55
Note: Fire tested factory assembled package cast iron unit.		
23 52 23 00-0215 EA 3,154 MBH Steam, 3,628 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1594).....	84,913.07	1,687.28
Note: Fire tested factory assembled package cast iron unit.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 52 Heating Boilers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 23 00-0216 EA 3,378 MBH Steam, 3,894 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1694) Note: Fire tested factory assembled package cast iron unit.	91,248.41	1,687.28
23 52 23 00-0217 EA 3,604 MBH Steam, 4,162 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1794) Note: Fire tested factory assembled package cast iron unit.	95,200.77	1,781.02
23 52 23 00-0218 EA 3,834 MBH Steam, 4,430 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1894) Note: Fire tested factory assembled package cast iron unit.	98,272.02	1,781.02
23 52 23 00-0219 EA 4,059 MBH Steam, 4,700 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-1994) Note: Fire tested factory assembled package cast iron unit.	104,651.45	1,874.75
23 52 23 00-0220 EA 4,285 MBH Steam, 4,970 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2094) Note: Fire tested factory assembled package cast iron unit.	109,359.67	1,874.75
23 52 23 00-0221 EA 4,510 MBH Steam, 5,241 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2194) Note: Fire tested factory assembled package cast iron unit.	116,396.55	1,968.50
23 52 23 00-0222 EA 4,781 MBH Steam, 5,568 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2294) Note: Fire tested factory assembled package cast iron unit.	120,195.34	1,968.50
23 52 23 00-0223 EA 4,961 MBH Steam, 5,787 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2394) Note: Fire tested factory assembled package cast iron unit.	125,013.36	2,062.23
23 52 23 00-0224 EA 5,232 MBH Steam, 6,117 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2494) Note: Fire tested factory assembled package cast iron unit.	128,583.15	2,062.23
23 52 23 00-0225 EA 5,413 MBH Steam, 6,338 MBH Water Gas/Oil Fired Package Cast Iron Boiler (Weil-McLain H-2594) Note: Fire tested factory assembled package cast iron unit.	132,648.35	2,155.97

23 52 33 Water-Tube Boilers (23 52)

23 52 33 13 Finned Water-Tube Boilers (23 52 33)

23 52 33 13-0001 Laars Pennant 85% Efficient Water, Gas Fired, Copper Fin Tube LoNox Boiler (23 52 33 13)

23 52 33 13-0002 EA 200 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant)	7,207.64	527.45
23 52 33 13-0003 EA 300 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant)	7,932.95	586.05
23 52 33 13-0004 EA 400 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant)	9,119.24	703.27
23 52 33 13-0005 EA 500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant)	11,614.93	732.57
23 52 33 13-0006 EA 750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant)	13,648.69	879.08
23 52 33 13-0007 EA 1,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant)	16,766.26	1,054.90
23 52 33 13-0008 EA 1,250 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant)	19,029.25	1,113.50
23 52 33 13-0009 EA 1,500 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant)	21,072.21	1,201.42
23 52 33 13-0010 EA 1,750 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant)	22,967.93	1,260.02
23 52 33 13-0011 EA 2,000 MBH 85% Efficient, Water, Gas Fired, Copper Fin Tube LoNox Boiler (Laars Pennant)	24,633.78	1,289.32

23 52 33 13-0012 Patterson Kelly Modufire Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (23 52 33 13)

23 52 33 13-0013 EA 1,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire)	25,002.32	1,054.90
23 52 33 13-0014 EA 1,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire)	31,204.30	1,201.42
23 52 33 13-0015 EA 2,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire)	33,252.34	1,289.32
23 52 33 13-0016 EA 2,500 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire)	46,978.57	1,465.14
23 52 33 13-0017 EA 3,000 MBH Forced Draft, Water, Gas Fired, Copper Fin Tube Boiler (Patterson Kelly Modufire)	49,295.55	1,640.95

23 52 33 13-0018 Lochinvar Copper-Fin II Finned Tube Boiler (23 52 33 13)

23 52 33 13-0019 EA 340 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0402)	8,435.20	473.29
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i> 299.18		
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i> 265.03		
23 52 33 13-0020 EA 425 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0502)	10,144.82	591.39
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i> 299.18		
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i> 265.03		
23 52 33 13-0021 EA 552.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0652)	10,945.53	710.37
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i> 299.18		
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i> 265.03		
23 52 33 13-0022 EA 637.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0752)	11,230.88	710.37
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i> 299.18		
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i> 265.03		
23 52 33 13-0023 EA 841.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN0992)	13,936.78	887.97
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i> 299.18		
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i> 265.03		
23 52 33 13-0024 EA 1,071 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1262)	16,031.04	887.97
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i> 299.18		
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i> 265.03		
23 52 33 13-0025 EA 1,224 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1442)	17,416.37	887.97
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i> 299.18		
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i> 265.03		
23 52 33 13-0026 EA 1,530 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN1802)	18,858.06	1,065.56
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i> 299.18		
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i> 265.03		
23 52 33 13-0027 EA 1,759.5 MBH, 85% Efficient, Gas Fired, Copper Finned Tube Boiler (Lochinvar CHN2072)	22,290.77	1,243.15
<i>For High And Low Gas Pressure Switch With Manual Reset, Add</i> 299.18		
<i>For Low Water Cut-Off, Probe Type, Manual Reset With Test, Add</i> 265.03		

23 52 33 13-0028 Raypak Cupro-Nickel Finned-Tube Boiler With Pump (23 52 33 13)

23 52 33 13-0029 EA 385 MBH Water, Gas Fired, On/Off, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H4-399B)	8,282.51	650.52
23 52 33 13-0030 EA 420 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-499B)	8,924.49	586.05
23 52 33 13-0031 EA 546 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-649B)	9,887.87	703.27



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 13-0032 EA 630 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-749B).....	10,505.21	798.37
23 52 33 13-0033 EA 756 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-899B).....	11,669.58	879.08
23 52 33 13-0034 EA 832 MBH Water, Gas Fired, Two Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H3-989B).....	12,545.60	946.21
23 52 33 13-0035 EA 1,058 MBH Water, Gas Fired, Three Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H8-1259B).....	14,322.28	1,054.90
23 52 33 13-0036 EA 1,285 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1529B).....	16,563.14	1,113.50
23 52 33 13-0037 EA 1,512 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1799B).....	17,588.32	1,201.42
23 52 33 13-0038 EA 1,679 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-1999B).....	20,881.02	1,230.72
23 52 33 13-0039 EA 1,739 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2069B).....	20,969.82	1,260.02
23 52 33 13-0040 EA 1,966 MBH Water, Gas Fired, Four Stage, Cupro-Nickel Finned-Tube Boiler With Pump (Raypak H9-2339B).....	24,406.65	1,289.32
 23 52 33 16 Steel Water-Tube Boilers (23 52 33)		
23 52 33 16-0001 Unilux 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (23 52 33 16)		
Note: Compliant with SCAQMD.		
23 52 33 16-0002 EA 1,250 MBH Input/1,062 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF100).....	51,132.45	1,420.74
23 52 33 16-0003 EA 1,750 MBH Input/1,488 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF150).....	55,111.36	1,775.92
23 52 33 16-0004 EA 2,200 MBH Input/1,870 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF200).....	114,287.48	1,953.52
23 52 33 16-0005 EA 2,750 MBH Input/2,338 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF250).....	118,636.84	2,131.11
23 52 33 16-0006 EA 3,000 MBH Input/2,550 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux ZF300).....	120,803.89	2,397.50
23 52 33 16-0007 EA 3,750 MBH Input/3,188 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ350).....	127,327.28	2,663.89
23 52 33 16-0008 EA 4,300 MBH Input/3,655 MBH Output, 85% Efficient, Gas Fired, Forced Draft, Hot Water, Steel Flexible Watertube Boiler (Unilux VZ400).....	130,228.23	2,752.68
 23 52 33 16-0009 Unilux 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (23 52 33 16)		
Note: Compliant with SCAQMD.		
23 52 33 16-0010 EA 1,250 MBH, 31 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF100LSG).....	59,657.70	1,598.33
23 52 33 16-0011 EA 1,750 MBH, 43.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF150LSG).....	62,732.11	1,864.72
23 52 33 16-0012 EA 2,200 MBH, 54.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF200LSG).....	122,635.15	2,042.32
23 52 33 16-0013 EA 2,750 MBH, 68 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF250LSG).....	130,251.77	2,219.91
23 52 33 16-0014 EA 3,000 MBH, 74 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF300LSG).....	132,966.86	2,397.50
23 52 33 16-0015 EA 3,750 MBH, 93 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF350LSG).....	138,219.44	2,663.89
23 52 33 16-0016 EA 4,300 MBH, 106.5 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF400LSG).....	142,936.06	2,841.48
23 52 33 16-0017 EA 5,400 MBH, 134 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF500LSG).....	140,926.27	3,019.07
23 52 33 16-0018 EA 6,250 MBH, 155 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF600LSG).....	152,537.05	3,196.66
23 52 33 16-0019 EA 7,235 MBH, 179 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF700LSG).....	160,517.13	3,374.26
23 52 33 16-0020 EA 8,270 MBH, 205 HP, 83% Efficient, Gas Fired, Forced Draft, Low Pressure Steam, Steel Flexible Watertube Boiler (Unilux ZF800LSG).....	164,684.75	3,551.85
 23 52 33 16-0021 Unilux 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (23 52 33 16)		
Note: Compliant with SCAQMD.		
23 52 33 16-0022 EA 1,250 MBH, 31 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 100HS).....	64,195.78	1,598.33
23 52 33 16-0023 EA 1,750 MBH, 43.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 150HS).....	68,178.82	1,864.72
23 52 33 16-0024 EA 2,200 MBH, 54.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 200HS).....	128,807.50	2,042.32
23 52 33 16-0025 EA 2,750 MBH, 68 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 250HS).....	136,605.84	2,219.91
23 52 33 16-0026 EA 3,000 MBH, 74 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 300HS).....	139,320.93	2,397.50
23 52 33 16-0027 EA 3,750 MBH, 93 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 350HS).....	143,666.15	2,663.89
23 52 33 16-0028 EA 4,300 MBH, 106.5 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 400HS).....	148,560.69	2,841.48
23 52 33 16-0029 EA 5,400 MBH, 134 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 500HS).....	146,191.25	3,019.07
23 52 33 16-0030 EA 6,250 MBH, 155 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 600HS).....	158,710.67	3,196.66
23 52 33 16-0031 EA 7,235 MBH, 179 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 700HS).....	163,785.66	3,374.26

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 33 16-0032 EA 8,270 MBH, 205 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 800HS)	170,858.37	3,551.85
23 52 33 16-0033 EA 9,300 MBH, 230 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 900HS)	189,912.34	3,729.44
23 52 33 16-0034 EA 10,330 MBH, 256 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1000HS)	274,049.81	3,907.03
23 52 33 16-0035 EA 12,400 MBH, 307 HP, 81% Efficient, Gas Fired, Forced Draft, High Pressure Steam, Steel Flexible Watertube Boiler (Unilux 1200HS)	287,930.28	4,084.63

23 52 36 Fire-Box Boiler (23 52)**23 52 36 00-0001 Package Oil Fired Firebox Boilers (23 52 36)**

Note: Prices are good for 15 PSI steam or 30 PSI water. Packaged type, complete with burner and all basic safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.) Normally required (Boiler HP). boiler sizes are based on HP rating and gross output.

23 52 36 00-0002 EA 40 HP, 1,339 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	74,822.33	2,249.70
23 52 36 00-0003 EA 46 HP, 1,553 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	78,207.23	2,437.18
23 52 36 00-0004 EA 53 HP, 1,784 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	81,865.73	2,624.65
23 52 36 00-0005 EA 61 HP, 2,062 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	88,534.16	2,812.13
23 52 36 00-0006 EA 69 HP, 2,313 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	92,466.26	2,999.60
23 52 36 00-0007 EA 80 HP, 2,678 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	96,330.07	3,187.09
23 52 36 00-0008 EA 100 HP, 3,348 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	107,185.01	3,374.57
23 52 36 00-0009 EA 127 HP, 4,251 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	124,065.40	3,749.52
23 52 36 00-0010 EA 151 HP, 5,055 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	141,233.17	4,124.47
23 52 36 00-0011 EA 183 HP, 6,126 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	154,937.30	4,546.28
23 52 36 00-0012 EA 220 HP, 7,388 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	168,641.57	4,968.10
23 52 36 00-0013 EA 257 HP, 8,606 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	177,169.74	5,811.74
23 52 36 00-0014 EA 294 HP, 9,842 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	216,002.25	6,655.39
23 52 36 00-0015 EA 368 HP, 12,302 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	255,792.44	7,499.02
23 52 36 00-0016 EA 441 HP, 14,766 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	295,975.41	8,436.40
23 52 36 00-0017 EA 514 HP, 17,220 MBH Oil Fired Firebox Boiler, 15 PSI Steam Or 30 PSI Water	335,279.17	9,139.43

23 52 39 Fire-Tube Boilers (23 52)**23 52 39 13 Scotch Marine Boilers (23 52 39)****23 52 39 13-0001 15 PSI Steam Scotch Marine Boilers (23 52 39 13)**

Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH output.

23 52 39 13-0002 15 PSI Gas Fired Steam Scotch Marine Boilers (23 52 39 13-0001)

23 52 39 13-0003 EA 30 HP, 1,033 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	59,577.31	1,031.12
23 52 39 13-0004 EA 40 HP, 1,339 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	64,123.72	1,124.85
23 52 39 13-0005 EA 50 HP, 1,674 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	69,647.50	1,218.59
23 52 39 13-0006 EA 60 HP, 2,009 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	72,718.35	1,406.07
23 52 39 13-0007 EA 70 HP, 2,343 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	76,186.39	1,499.80
23 52 39 13-0008 EA 80 HP, 2,678 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	79,743.06	1,593.55
23 52 39 13-0009 EA 90 HP, 3,013 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	82,205.20	1,640.41
23 52 39 13-0010 EA 100 HP, 3,348 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	86,796.84	1,687.28
23 52 39 13-0011 EA 125 HP, 4,184 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	98,151.46	1,874.75
23 52 39 13-0012 EA 150 HP, 5,021 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	111,558.33	2,062.23
23 52 39 13-0013 EA 175 HP, 5,858 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	122,360.09	2,273.14
23 52 39 13-0014 EA 200 HP, 6,695 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	133,159.92	2,484.06
23 52 39 13-0015 EA 250 HP, 8,369 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	140,338.68	2,905.87
23 52 39 13-0016 EA 300 HP, 10,043 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	170,758.80	3,327.69
23 52 39 13-0017 EA 350 HP, 11,716 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	184,798.81	3,749.52
23 52 39 13-0018 EA 400 HP, 13,390 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	217,686.80	4,171.33
23 52 39 13-0019 EA 500 HP, 16,738 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	264,585.12	4,593.15
23 52 39 13-0020 EA 600 HP, 20,085 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	309,669.30	5,014.98
23 52 39 13-0021 EA 700 HP, 23,433 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	352,832.87	5,436.79
23 52 39 13-0022 EA 800 HP, 26,780 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	394,255.09	5,858.61



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0023 EA 900 HP, 30,128 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	609,525.56	6,280.44
23 52 39 13-0024 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	663,229.46	6,702.25
23 52 39 13-0025 15 PSI Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0026 EA 30 HP, 1,033 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	55,187.60	1,031.12
23 52 39 13-0027 EA 40 HP, 1,339 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	59,403.61	1,124.85
23 52 39 13-0028 EA 50 HP, 1,674 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	64,516.93	1,218.59
23 52 39 13-0029 EA 60 HP, 2,009 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	70,263.88	1,406.07
23 52 39 13-0030 EA 70 HP, 2,343 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	73,291.38	1,499.80
23 52 39 13-0031 EA 80 HP, 2,678 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	76,314.47	1,593.55
23 52 39 13-0032 EA 90 HP, 3,013 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	79,156.97	1,640.41
23 52 39 13-0033 EA 100 HP, 3,348 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	84,845.86	1,687.28
23 52 39 13-0034 EA 125 HP, 4,184 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	98,244.50	1,874.75
23 52 39 13-0035 EA 150 HP, 5,021 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	111,659.58	2,062.23
23 52 39 13-0036 EA 175 HP, 5,858 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	122,472.28	2,273.14
23 52 39 13-0037 EA 200 HP, 6,695 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	133,283.06	2,484.06
23 52 39 13-0038 EA 250 HP, 8,369 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	140,467.28	2,905.87
23 52 39 13-0039 EA 300 HP, 10,043 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	170,917.51	3,327.69
23 52 39 13-0040 EA 350 HP, 11,716 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	184,968.46	3,749.52
23 52 39 13-0041 EA 400 HP, 13,390 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	217,889.29	4,171.33
23 52 39 13-0042 EA 500 HP, 16,738 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	264,831.39	4,593.15
23 52 39 13-0043 EA 600 HP, 20,085 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	309,959.35	5,014.98
23 52 39 13-0044 EA 700 HP, 23,433 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	353,163.97	5,436.79
23 52 39 13-0045 EA 800 HP, 26,780 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	394,627.23	5,858.61
23 52 39 13-0046 EA 900 HP, 30,128 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	610,108.37	6,280.44
23 52 39 13-0047 EA 1,000 HP, 33,476 MBH 15 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	663,867.03	6,702.25
23 52 39 13-0048 15 PSI Gas/Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0001)		
23 52 39 13-0049 EA 30 HP, 1,033 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	61,498.61	1,031.12
23 52 39 13-0050 EA 40 HP, 1,339 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	66,189.63	1,124.85
23 52 39 13-0051 EA 50 HP, 1,674 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	71,888.53	1,218.59
23 52 39 13-0052 EA 60 HP, 2,009 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	75,503.90	1,406.07
23 52 39 13-0053 EA 70 HP, 2,343 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	78,747.56	1,499.80
23 52 39 13-0054 EA 80 HP, 2,678 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	81,986.82	1,593.55
23 52 39 13-0055 EA 90 HP, 3,013 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	85,042.75	1,640.41
23 52 39 13-0056 EA 100 HP, 3,348 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	88,099.32	1,687.28
23 52 39 13-0057 EA 125 HP, 4,184 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	102,026.06	1,874.75
23 52 39 13-0058 EA 150 HP, 5,021 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	115,969.25	2,062.23
23 52 39 13-0059 EA 175 HP, 5,858 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	127,197.87	2,273.14
23 52 39 13-0060 EA 200 HP, 6,695 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	138,421.83	2,484.06
23 52 39 13-0061 EA 250 HP, 8,369 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	145,835.91	2,905.87
23 52 39 13-0062 EA 300 HP, 10,043 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	177,484.63	3,327.69
23 52 39 13-0063 EA 350 HP, 11,716 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	192,050.00	3,749.52

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0064 EA 400 HP, 13,390 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	226,273.31	4,171.33
23 52 39 13-0065 EA 500 HP, 16,738 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	275,100.72	4,593.15
23 52 39 13-0066 EA 600 HP, 20,085 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	322,037.37	5,014.98
23 52 39 13-0067 EA 700 HP, 23,433 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	366,974.07	5,436.79
23 52 39 13-0068 EA 800 HP, 26,780 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	410,092.79	5,858.61
23 52 39 13-0069 EA 900 HP, 30,128 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	634,484.84	6,280.44
23 52 39 13-0070 EA 1,000 HP, 33,476 MBH 15 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	690,410.47	6,702.25
23 52 39 13-0071 125 PSI Water Scotch Marine Boilers (23 52 39 13) Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH output.		
23 52 39 13-0072 125 PSI Gas Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0073 EA 40 HP, 1,339 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	70,567.71	1,124.85
23 52 39 13-0074 EA 50 HP, 1,674 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	79,208.13	1,218.59
23 52 39 13-0075 EA 60 HP, 2,009 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	85,056.32	1,406.07
23 52 39 13-0076 EA 70 HP, 2,343 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	91,435.78	1,499.80
23 52 39 13-0077 EA 80 HP, 2,678 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	97,950.40	1,593.55
23 52 39 13-0078 EA 90 HP, 3,013 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	103,143.37	1,640.41
23 52 39 13-0079 EA 100 HP, 3,348 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	111,084.24	1,687.28
23 52 39 13-0080 EA 125 HP, 4,184 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	119,152.56	1,874.75
23 52 39 13-0081 EA 150 HP, 5,021 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	129,888.81	2,062.23
23 52 39 13-0082 EA 175 HP, 5,858 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	138,137.59	2,273.14
23 52 39 13-0083 EA 200 HP, 6,695 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	142,972.29	2,484.06
23 52 39 13-0084 EA 250 HP, 8,369 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	173,114.08	2,905.87
23 52 39 13-0085 EA 300 HP, 10,043 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	201,580.49	3,327.69
23 52 39 13-0086 EA 350 HP, 11,716 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	217,207.54	3,749.52
23 52 39 13-0087 EA 400 HP, 13,390 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	242,354.55	4,171.33
23 52 39 13-0088 EA 500 HP, 16,738 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	293,852.58	4,593.15
23 52 39 13-0089 EA 600 HP, 20,085 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	344,089.22	5,014.98
23 52 39 13-0090 EA 700 HP, 23,433 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	392,186.34	5,436.79
23 52 39 13-0091 EA 800 HP, 26,780 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	438,331.41	5,858.61
23 52 39 13-0092 EA 900 HP, 30,128 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	678,989.88	6,280.44
23 52 39 13-0093 EA 1,000 HP, 33,476 MBH 125 PSI Water Gas Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	738,873.95	6,702.25
23 52 39 13-0094 125 PSI Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0095 EA 40 HP, 1,339 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	65,335.90	1,124.85
23 52 39 13-0096 EA 50 HP, 1,674 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	73,319.61	1,218.59
23 52 39 13-0097 EA 60 HP, 2,009 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	82,147.64	1,406.07
23 52 39 13-0098 EA 70 HP, 2,343 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	87,914.17	1,499.80
23 52 39 13-0099 EA 80 HP, 2,678 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	93,673.56	1,593.55
23 52 39 13-0100 EA 90 HP, 3,013 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	99,249.62	1,640.41
23 52 39 13-0101 EA 100 HP, 3,348 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	108,539.48	1,687.28
23 52 39 13-0102 EA 125 HP, 4,184 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	119,264.75	1,874.75



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0103 EA 150 HP, 5,021 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	130,009.20	2,062.23
23 52 39 13-0104 EA 175 HP, 5,858 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	138,266.20	2,273.14
23 52 39 13-0105 EA 200 HP, 6,695 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	143,106.37	2,484.06
23 52 39 13-0106 EA 250 HP, 8,369 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	173,275.52	2,905.87
23 52 39 13-0107 EA 300 HP, 10,043 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	201,769.29	3,327.69
23 52 39 13-0108 EA 350 HP, 11,716 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	217,410.03	3,749.52
23 52 39 13-0109 EA 400 HP, 13,390 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	242,581.66	4,171.33
23 52 39 13-0110 EA 500 HP, 16,738 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	294,128.95	4,593.15
23 52 39 13-0111 EA 600 HP, 20,085 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	344,414.84	5,014.98
23 52 39 13-0112 EA 700 HP, 23,433 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	392,558.48	5,436.79
23 52 39 13-0113 EA 800 HP, 26,780 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	438,747.33	5,858.61
23 52 39 13-0114 EA 900 HP, 30,128 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	679,643.10	6,280.44
23 52 39 13-0115 EA 1,000 HP, 33,476 MBH 125 PSI Water Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	739,585.85	6,702.25
23 52 39 13-0116 125 PSI Gas/Oil Fired Water Scotch Marine Boilers (23 52 39 13-0071)		
23 52 39 13-0117 EA 40 HP, 1,339 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	72,855.26	1,124.85
23 52 39 13-0118 EA 50 HP, 1,674 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	81,780.25	1,218.59
23 52 39 13-0119 EA 60 HP, 2,009 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	88,353.56	1,406.07
23 52 39 13-0120 EA 70 HP, 2,343 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	94,555.17	1,499.80
23 52 39 13-0121 EA 80 HP, 2,678 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	100,752.37	1,593.55
23 52 39 13-0122 EA 90 HP, 3,013 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	106,766.23	1,640.41
23 52 39 13-0123 EA 100 HP, 3,348 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	112,780.74	1,687.28
23 52 39 13-0124 EA 125 HP, 4,184 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	123,921.93	1,874.75
23 52 39 13-0125 EA 150 HP, 5,021 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	135,082.30	2,062.23
23 52 39 13-0126 EA 175 HP, 5,858 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	143,648.50	2,273.14
23 52 39 13-0127 EA 200 HP, 6,695 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	148,655.59	2,484.06
23 52 39 13-0128 EA 250 HP, 8,369 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	180,012.29	2,905.87
23 52 39 13-0129 EA 300 HP, 10,043 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	209,622.47	3,327.69
23 52 39 13-0130 EA 350 HP, 11,716 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	225,843.31	3,749.52
23 52 39 13-0131 EA 400 HP, 13,390 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	251,994.53	4,171.33
23 52 39 13-0132 EA 500 HP, 16,738 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	305,621.41	4,593.15
23 52 39 13-0133 EA 600 HP, 20,085 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	357,929.42	5,014.98
23 52 39 13-0134 EA 700 HP, 23,433 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	408,010.36	5,436.79
23 52 39 13-0135 EA 800 HP, 26,780 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	456,051.69	5,858.61
23 52 39 13-0136 EA 900 HP, 30,128 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	706,917.99	6,280.44
23 52 39 13-0137 EA 1,000 HP, 33,476 MBH 125 PSI Water Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. 125 PSI Water. Fire tested factory assembled package unit.	769,281.95	6,702.25
23 52 39 13-0138 150 PSI Steam Scotch Marine Boilers (23 52 39 13) Note: Includes all standard safety controls (low water cut-off, high/low temperature and pressure operating controls, flame failure, main and pilot gas control, etc.), setting boilers and controls. Rated by boiler horsepower and MBH output.		
23 52 39 13-0139 150 PSI Gas Fired Steam Scotch Marine Boilers (23 52 39 13-0138)		
23 52 39 13-0140 EA 40 HP, 1,339 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	82,010.92	1,124.85
23 52 39 13-0141 EA 50 HP, 1,674 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	89,077.96	1,218.59

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 52 Heating Boilers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0142 EA 60 HP, 2,009 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	92,846.57	1,406.07
23 52 39 13-0143 EA 70 HP, 2,343 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	97,242.21	1,499.80
23 52 39 13-0144 EA 80 HP, 2,678 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	101,753.86	1,593.55
23 52 39 13-0145 EA 90 HP, 3,013 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	104,900.08	1,640.41
23 52 39 13-0146 EA 100 HP, 3,348 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	110,813.35	1,687.28
23 52 39 13-0147 EA 125 HP, 4,184 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	125,350.28	1,874.75
23 52 39 13-0148 EA 150 HP, 5,021 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	142,549.67	2,062.23
23 52 39 13-0149 EA 175 HP, 5,858 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	156,339.46	2,273.14
23 52 39 13-0150 EA 200 HP, 6,695 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	170,127.34	2,484.06
23 52 39 13-0151 EA 250 HP, 8,369 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	178,953.34	2,905.87
23 52 39 13-0152 EA 300 HP, 10,043 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	217,995.55	3,327.69
23 52 39 13-0153 EA 350 HP, 11,716 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	235,721.68	3,749.52
23 52 39 13-0154 EA 400 HP, 13,390 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	277,992.12	4,171.33
23 52 39 13-0155 EA 500 HP, 16,738 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	338,457.01	4,593.15
23 52 39 13-0156 EA 600 HP, 20,085 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	396,544.09	5,014.98
23 52 39 13-0157 EA 700 HP, 23,433 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	452,160.56	5,436.79
23 52 39 13-0158 EA 800 HP, 26,780 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	505,502.10	5,858.61
23 52 39 13-0159 EA 900 HP, 30,128 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	784,850.72	6,280.44
23 52 39 13-0160 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	854,138.04	6,702.25
23 52 39 13-0161 150 PSI Oil Fired Steam Scotch Marine Boilers (23 52 39 13-0138)		
23 52 39 13-0162 EA 40 HP, 1,339 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	75,873.40	1,124.85
23 52 39 13-0163 EA 50 HP, 1,674 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	82,409.60	1,218.59
23 52 39 13-0164 EA 60 HP, 2,009 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	89,653.31	1,406.07
23 52 39 13-0165 EA 70 HP, 2,343 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	93,479.80	1,499.80
23 52 39 13-0166 EA 80 HP, 2,678 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	97,299.16	1,593.55
23 52 39 13-0167 EA 90 HP, 3,013 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	100,935.18	1,640.41
23 52 39 13-0168 EA 100 HP, 3,348 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	108,274.06	1,687.28
23 52 39 13-0169 EA 125 HP, 4,184 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	125,467.94	1,874.75
23 52 39 13-0170 EA 150 HP, 5,021 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	142,683.75	2,062.23
23 52 39 13-0171 EA 175 HP, 5,858 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	156,487.22	2,273.14
23 52 39 13-0172 EA 200 HP, 6,695 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	170,288.78	2,484.06
23 52 39 13-0173 EA 250 HP, 8,369 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	179,120.26	2,905.87
23 52 39 13-0174 EA 300 HP, 10,043 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	218,200.77	3,327.69
23 52 39 13-0175 EA 350 HP, 11,716 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	235,943.32	3,749.52
23 52 39 13-0176 EA 400 HP, 13,390 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	278,254.80	4,171.33
23 52 39 13-0177 EA 500 HP, 16,738 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	338,777.16	4,593.15
23 52 39 13-0178 EA 600 HP, 20,085 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	396,921.70	5,014.98
23 52 39 13-0179 EA 700 HP, 23,433 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	452,590.16	5,436.79
23 52 39 13-0180 EA 800 HP, 26,780 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	505,983.69	5,858.61
23 52 39 13-0181 EA 900 HP, 30,128 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	785,609.55	6,280.44
23 52 39 13-0182 EA 1,000 HP, 33,476 MBH 150 PSI Steam Oil Fired Scotch Marine Boiler..... Note: Burnham Series 3. Fire tested factory assembled unit.	854,967.27	6,702.25



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 52 39 13-0183 150 PSI Gas/Oil Fired Steam Scotch Marine Boilers <small>(23 52 39 13-0138)</small>		
23 52 39 13-0184 EA 40 HP, 1,339 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	84,695.23	1,124.85
23 52 39 13-0185 EA 50 HP, 1,674 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	91,992.12	1,218.59
23 52 39 13-0186 EA 60 HP, 2,009 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	96,466.69	1,406.07
23 52 39 13-0187 EA 70 HP, 2,343 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	100,572.29	1,499.80
23 52 39 13-0188 EA 80 HP, 2,678 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	104,670.75	1,593.55
23 52 39 13-0189 EA 90 HP, 3,013 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	108,588.61	1,640.41
23 52 39 13-0190 EA 100 HP, 3,348 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	112,504.38	1,687.28
23 52 39 13-0191 EA 125 HP, 4,184 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	130,385.08	1,874.75
23 52 39 13-0192 EA 150 HP, 5,021 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	148,284.95	2,062.23
23 52 39 13-0193 EA 175 HP, 5,858 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	162,627.48	2,273.14
23 52 39 13-0194 EA 200 HP, 6,695 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	176,970.82	2,484.06
23 52 39 13-0195 EA 250 HP, 8,369 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	186,100.56	2,905.87
23 52 39 13-0196 EA 300 HP, 10,043 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	226,738.03	3,327.69
23 52 39 13-0197 EA 350 HP, 11,716 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	245,148.23	3,749.52
23 52 39 13-0198 EA 400 HP, 13,390 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	289,153.48	4,171.33
23 52 39 13-0199 EA 500 HP, 16,738 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	352,130.30	4,593.15
23 52 39 13-0200 EA 600 HP, 20,085 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	412,622.59	5,014.98
23 52 39 13-0201 EA 700 HP, 23,433 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	470,543.03	5,436.79
23 52 39 13-0202 EA 800 HP, 26,780 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	526,090.02	5,858.61
23 52 39 13-0203 EA 900 HP, 30,128 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	817,296.61	6,280.44
23 52 39 13-0204 EA 1,000 HP, 33,476 MBH 150 PSI Steam Gas/Oil Fired Scotch Marine Boiler Note: Burnham Series 3. Fire tested factory assembled unit.	889,470.62	6,702.25
23 53 Heating Boiler Feedwater Equipment <small>(23 50)</small>		
23 53 13 Boiler Feedwater Pumps <small>(23 53)</small>		
See CSI section 23 53 16 00-0001 for boiler feedwater units.		
23 53 16 Deaerators <small>(23 53)</small>		
23 53 16 00-0001 Boiler Feed System <small>(23 53 16)</small>		
23 53 16 00-0002 Low Pressure Boiler Feed System <small>(23 53 16 00-0001)</small>		
Note: With deaerator includes pumps and accessories.		
23 53 16 00-0003 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	4,632.18	1,109.73
23 53 16 00-0004 EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	5,070.84	1,307.38
23 53 16 00-0005 EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	5,414.02	1,353.18
23 53 16 00-0006 EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	5,591.57	1,402.84
23 53 16 00-0007 EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	5,926.10	1,499.25
23 53 16 00-0008 EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	8,984.08	1,624.59
23 53 16 00-0009 EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	10,075.13	1,735.47
23 53 16 00-0010 EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	11,540.41	1,976.50
23 53 16 00-0011 EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	12,666.06	2,121.14
23 53 16 00-0012 EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, Low Pressure System	13,633.16	2,265.76
23 53 16 00-0013 High Pressure Boiler Feed System <small>(23 53 16 00-0001)</small>		
Note: With deaerator includes pumps and accessories.		
23 53 16 00-0014 EA 10 HP, 100 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	6,048.36	946.12
23 53 16 00-0015 EA 20 HP, 200 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	6,378.71	1,109.73
23 53 16 00-0016 EA 34 HP, 340 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	7,149.23	1,307.38
23 53 16 00-0017 EA 54 HP, 530 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	7,687.18	1,353.18
23 53 16 00-0018 EA 67 HP, 660 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	7,836.49	1,402.84
23 53 16 00-0019 EA 78 HP, 760 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	9,340.77	1,499.25
23 53 16 00-0020 EA 104 HP, 1,020 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	11,942.92	1,624.59
23 53 16 00-0021 EA 158 HP, 1,550 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	12,299.58	1,735.47
23 53 16 00-0022 EA 183 HP, 1,800 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	13,491.06	1,858.49
23 53 16 00-0023 EA 219 HP, 2,150 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	14,501.43	1,976.50
23 53 16 00-0024 EA 254 HP, 2,500 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	15,513.49	2,121.14
23 53 16 00-0025 EA 305 HP, 3,000 KW Boiler Feed System With Deaerator, Pumps And Accessories, High Pressure System	16,731.91	2,265.76

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 53 Heating Boiler Feedwater Equipment**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 53 16 00-0026		Boiler Feedwater System <small>(23 53 16)</small>		
Note: With deaerator includes pumps and accessories.				
23 53 16 00-0027	EA	1,380 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	7,637.05	1,307.38
23 53 16 00-0028	EA	2,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	9,826.52	1,497.81
23 53 16 00-0029	EA	4,300 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	12,805.25	1,714.25
23 53 16 00-0030	EA	6,900 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	15,352.36	1,977.47
23 53 16 00-0031	EA	8,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	16,307.02	2,121.14
23 53 16 00-0032	EA	11,000 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	17,225.41	2,265.76
23 53 16 00-0033	EA	13,800 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	19,221.46	2,603.30
23 53 16 00-0034	EA	17,250 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	24,624.51	2,989.06
23 53 16 00-0035	EA	20,700 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	31,702.29	3,453.78
23 53 16 00-0036	EA	27,600 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	39,914.85	3,964.59
23 53 16 00-0037	EA	34,500 LB/Hour Feedwater System With Deaerator, Pumps, And Accessories	50,792.80	4,561.39

23 53 16 00-0038		Duplex Vacuum Condensate Pumps <small>(23 53 16)</small>		
23 53 16 00-0039	EA	7 CFM, 15 GPM, 45 Gallon Duplex Vacuum Condensate Pump	19,445.80	771.32
Note: Two 3/4 HP vacuum pumps rated for 7 CFM, two 3/4 HP condensate pumps rated for 15 GPM at 20 PSI and 45 GAL cast iron receiver. Skidmore JVC-7-45-102.				
23 53 16 00-0040	EA	9 CFM, 30 GPM, 45 Gallon Duplex Vacuum Condensate Pump	19,901.58	819.53
Note: Two 1 HP vacuum pumps rated for 9 CFM, two 3/4 HP condensate pumps rated for 30 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-9-45-201.5.				
23 53 16 00-0041	EA	12 CFM, 45 GPM, 45 Gallon Duplex Vacuum Condensate Pump	20,422.71	867.74
Note: Two 1-1/2 HP vacuum pumps rated for 12 CFM, two 1 HP condensate pumps rated for 45 GPM at 15 PSI and 45 GAL cast iron receiver. Skidmore JVC-12-45-301.5.				
23 53 16 00-0042	EA	18 CFM, 37.5 GPM, 65 Gallon Duplex Vacuum Condensate Pump	19,782.23	915.95
Note: Two 2 HP vacuum pumps rated for 18 CFM, two 1 HP condensate pumps rated for 37.5 GPM at 20 PSI and 65 GAL cast iron receiver. Skidmore JVC-18-65-252.				
23 53 16 00-0043	EA	28 CFM, 60 GPM, 110 Gallon Duplex Vacuum Condensate Pump	26,692.16	964.15
Note: Two 3 HP vacuum pumps rated for 28 CFM, two 1-1/2 HP condensate pumps rated for 60 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-28-110-402.				
23 53 16 00-0044	EA	42 CFM, 75 GPM, 110 Gallon Duplex Vacuum Condensate Pump	28,095.37	1,012.36
Note: Two 5 HP vacuum pumps rated for 42 CFM, two 2 HP condensate pumps rated for 75 GPM at 20 PSI and 110 GAL cast iron receiver. Skidmore JVC-42-110-502.				

23 54 Furnaces (23 50)

Note: All units based on output. See CSI section 23 84 13 00-0000 for humidifiers.

23 54 13 Electric-Resistance Furnaces (23 54)

23 54 13 00-0001		Down Flow Multi-Speed Air Handler/Electric Furnace <small>(23 54 13)</small>		
23 54 13 00-0002	EA	Up To 2 Ton Down Flow Multi-Speed Air Handler/Electric Furnace.....	1,010.59	84.34
Note: Excludes cooling equipment.				
23 54 13 00-0003	EA	>2 To 3.5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	1,339.88	105.42
Note: Excludes cooling equipment.				
23 54 13 00-0004	EA	>3.5 To 5 Ton Down Flow Multi-Speed Air Handler/Electric Furnace	1,741.30	126.50
Note: Excludes cooling equipment.				

23 54 13 00-0005 Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace (23 54 13)

23 54 13 00-0006	EA	Up To 2 Ton Up/Horizontal Flow Multi-Speed Air Handler/Electric Furnace	1,010.59	84.34
Note: Excludes cooling equipment.				
23 54 13 00-0007	EA	>2 To 2.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace.....	1,213.55	94.88
Note: Excludes cooling equipment.				
23 54 13 00-0008	EA	>2.5 To 3 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace.....	1,324.85	105.42
Note: Excludes cooling equipment.				
23 54 13 00-0009	EA	>3 to 3.5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace	1,382.05	115.97
Note: Excludes cooling equipment.				
23 54 13 00-0010	EA	>3.5 To 5 Ton Up/Horizontal Flow Multi-Speed Air Handler/ Electric Furnace.....	1,741.30	126.50
Note: Excludes cooling equipment.				

23 54 13 00-0011 Heating Coil For Air Handler/Electric Furnace (23 54 13)

23 54 13 00-0012	EA	5 KW Heating Coil For Air Handler/Electric Furnace.....	161.84	19.80
23 54 13 00-0013	EA	7 KW Heating Coil For Air Handler/Electric Furnace.....	186.29	21.78
23 54 13 00-0014	EA	10 KW Heating Coil For Air Handler/Electric Furnace.....	201.73	23.76
23 54 13 00-0015	EA	15 KW Heating Coil For Air Handler/Electric Furnace.....	284.79	25.74
23 54 13 00-0016	EA	20 KW Heating Coil For Air Handler/Electric Furnace.....	307.73	27.72

23 54 16 Fuel-Fired Furnaces (23 54)**23 54 16 13 Gas-Fired Furnaces** (23 54 16)

23 54 16 13-0001		Natural Gas Fired Forced Air Furnaces <small>(23 54 16 13)</small>		
Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.				
23 54 16 13-0002		Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace <small>(23 54 16 13-0001)</small>		
23 54 16 13-0003	EA	40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace.....	1,635.68	73.80
Note: Blower cooling capacity up to 3 tons.				



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 54 16 13-0004 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace.....	1,737.94	84.34
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0005 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace.....	2,007.03	94.88
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0006 EA 100 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace.....	2,342.33	115.97
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0007 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, Two Stage 96% AFUE Gas Furnace.....	2,497.21	126.50
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0008 Up/Horizontal Flow Variable Speed, Two Stage 95% AFUE Gas Furnace <small>(23 54 16 13-0001)</small>		
23 54 16 13-0009 EA 40 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	1,828.02	73.80
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0010 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	1,999.43	84.34
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0011 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,116.39	94.88
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0012 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	1,854.41	105.42
Note: Blower cooling capacity up to 3.5 tons.		
23 54 16 13-0013 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,494.12	115.97
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0014 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Variable Speed, Two Stage 96% AFUE Gas Furnace	2,626.45	126.50
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0015 Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace <small>(23 54 16 13-0001)</small>		
23 54 16 13-0016 EA 45 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	1,602.54	73.80
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0017 EA 70 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	1,840.07	84.34
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0018 EA 90 MBH, 1,600 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	1,984.52	105.42
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0019 EA 90 MBH, 2,000 CFM Down Flow Multi-Speed, Two Stage 95% AFUE Gas Furnace	2,116.85	115.97
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0020 Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace <small>(23 54 16 13-0001)</small>		
23 54 16 13-0021 EA 40 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....	2,122.57	73.80
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0022 EA 60 MBH, 1,200 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....	2,230.86	84.34
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0023 EA 80 MBH, 1,600 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....	2,483.41	94.88
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0024 EA 100 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 96% AFUE Gas Furnace.....	2,703.01	115.97
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0025 EA 120 MBH, 2,000 CFM Down Flow Variable Speed, Two Stage 93% AFUE Gas Furnace.....	2,895.45	126.50
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0026 Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace <small>(23 54 16 13-0001)</small>		
23 54 16 13-0027 EA 40 MBH, 800 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....	1,452.32	73.80
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0028 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....	1,526.05	84.34
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0029 EA 80 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....	1,701.96	94.88
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0030 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....	1,716.99	94.88
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0031 EA 80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....	1,871.87	105.42
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0032 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....	1,969.64	115.97
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0033 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 96% AFUE Gas Furnace.....	2,085.45	126.50
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0034 Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace <small>(23 54 16 13-0001)</small>		
23 54 16 13-0035 EA 40 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....	990.96	73.80
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0036 EA 60 MBH, 1,200 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....	1,081.22	84.34
Note: Blower cooling capacity up to 3 tons.		
23 54 16 13-0037 EA 60 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....	1,237.59	94.88
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0038 EA 80 MBH, 1,600 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....	1,239.10	94.88
Note: Blower cooling capacity up to 4 tons.		
23 54 16 13-0039 EA 80 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....	1,359.41	105.42
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0040 EA 100 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....	1,389.56	115.97
Note: Blower cooling capacity up to 5 tons.		
23 54 16 13-0041 EA 120 MBH, 2,000 CFM Up/Horizontal Flow Multi-Speed, One Stage 80% AFUE Gas Furnace.....	1,545.93	126.50
Note: Blower cooling capacity up to 5 tons.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 50 Central Heating Equipment****23 54 Furnaces**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 54 16 13-0042	Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace (23 54 16 13-0001)		
23 54 16 13-0043	EA 40 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,005.99	73.80
23 54 16 13-0044	EA 60 MBH, 1,200 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 3 tons.	1,085.73	84.34
23 54 16 13-0045	EA 80 MBH, 1,600 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 4 tons.	1,305.22	94.88
23 54 16 13-0046	EA 100 MBH, 2,000 CFM Down Flow Multi-Speed, One Stage 80% AFUE Gas Furnace Note: Blower cooling capacity up to 5 tons.	1,436.06	105.42
23 54 16 13-0047	75% AFUE Gas Wall/Recessed Furnace (23 54 16 13-0001)		
23 54 16 13-0048	EA 35 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace.....	1,757.24	63.25
23 54 16 13-0049	EA 55 MBH 75% AFUE Electronic Ignition Gas Wall/Recessed Furnace.....	2,023.37	79.10
23 54 16 13-0050	EA 35 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,584.42	63.25
23 54 16 13-0051	EA 40 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,692.66	68.56
23 54 16 13-0052	EA 50 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,673.17	73.80
23 54 16 13-0053	EA 65 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,721.38	79.10
23 54 16 13-0054	EA 75 MBH 75% AFUE Gas Wall/Recessed Furnace.....	1,784.61	79.10
23 54 16 13-0055	Gas Fired Indoor Duct Furnace (23 54 16 13-0001) Note: Includes burner, controls and electronic ignition.		
23 54 16 13-0056	Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055)		
23 54 16 13-0057	EA 100 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	1,981.25	164.46
23 54 16 13-0058	EA 150 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	2,203.23	202.41
23 54 16 13-0059	EA 200 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	2,489.04	290.96
23 54 16 13-0060	EA 250 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	2,807.22	328.91
23 54 16 13-0061	EA 300 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	3,272.70	379.51
23 54 16 13-0062	EA 350 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	3,589.03	455.41
23 54 16 13-0063	EA 400 MBH, Aluminized Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	4,077.42	607.22
23 54 16 13-0064	Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace (23 54 16 13-0055) Note: Includes burner, controls and electronic ignition.		
23 54 16 13-0065	EA 100 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	2,222.90	164.46
23 54 16 13-0066	EA 150 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	2,441.27	202.41
23 54 16 13-0067	EA 200 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	2,816.05	290.96
23 54 16 13-0068	EA 250 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	3,193.14	328.91
23 54 16 13-0069	EA 300 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	3,938.74	379.51
23 54 16 13-0070	EA 350 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	4,311.58	455.41
23 54 16 13-0071	EA 400 MBH, Stainless Steel Heat Exchanger Gas Fired Indoor Duct Furnace.....	4,760.29	607.22
23 54 16 16	Oil-Fired Furnaces (23 54 16)		
23 54 16 16-0001	Oil Fired Forced Air Furnaces (23 54 16 16) Note: Excludes flue, condenser, evaporator coil, piping, thermostat, ductwork and electrical connections.		
23 54 16 16-0002	Up Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0003	EA 72 MBH, 1,220 CFM Up Flow Single Speed, One Stage 84% AFUE Oil Furnace Note: Blower cooling capacity up to 3 tons.	2,850.02	84.34
23 54 16 16-0004	EA 95 MBH, 1,590 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace Note: Blower cooling capacity up to 4 tons.	3,009.58	115.97
23 54 16 16-0005	EA 126 MBH, 1,835 CFM Up Flow Single Speed, One Stage 83% AFUE Oil Furnace Note: Blower cooling capacity up to 5 tons.	3,471.12	137.04
23 54 16 16-0006	Down/Horizontal Flow Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0007	EA 95 MBH, 1,210 CFM Down/Horizontal Flow Single Speed, One Stage 83% AFUE Oil Furnace Note: Blower cooling capacity up to 3 tons.	3,289.10	115.97
23 54 16 16-0008	EA 126 MBH, 2,005 CFM Down/Horizontal Flow Single Speed, One Stage 84% AFUE Oil Furnace Note: Blower cooling capacity up to 5 tons.	3,301.30	137.04
23 54 16 16-0009	Up Flow Lowboy Single Speed, One Stage 81% AFUE Oil Furnace (23 54 16 16-0001)		
23 54 16 16-0010	EA 95 MBH, 1,550 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 4 tons.	2,832.25	115.97
23 54 16 16-0011	EA 127 MBH, 2,130 CFM Up Flow Lowboy Single Speed, One Stage 83% AFUE Oil Furnace..... Note: Blower cooling capacity up to 5 tons.	3,362.92	137.04
23 54 19	Furnace Accessories (23 54)		
23 54 19 00-0001	EA LP Gas Furnace Conversion Kit.....	136.11	21.08
23 54 19 00-0002	EA 1" Furnace External Filter Rack.....	40.63	
23 54 19 00-0003	EA Removal And Reinstallation Of Forced Air Furnace..... Note: Includes storage and cleaning. Excludes ductwork.	390.45	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 55 Fuel-Fired Heaters (23 50)

23 55 23 Gas-Fired Radiant Heaters (23 55)

23 55 23 13 Low-Intensity Gas-Fired Radiant Heaters (23 55 23)

23 55 23 13-0001 Infrared Heaters-Radiant Energy (23 55 23 13)

Note: For spot localized or total heating, ceiling hung units, no fan required.

23 55 23 13-0002 Gas Fired Electric Ignition Infrared Gas Heater (23 55 23 13-0001)

Note: Ceramic combustion, surface chromized wire screen aluminized steel housing and polished aluminum reflector.

23 55 23 13-0003	EA	15,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan	746.28	96.41
23 55 23 13-0004	EA	37,500 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan	828.94	106.06
23 55 23 13-0005	EA	50,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan	883.87	106.06
23 55 23 13-0006	EA	75,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan	1,106.41	127.27
23 55 23 13-0007	EA	100,000 BTU Infrared Gas Heater, Electric Ignition, Ceiling Hung Unit Without Fan	1,115.67	127.27

23 55 23 13-0008 Rolled Steel Or Aluminum Housing Infrared Electric Heater (23 55 23 13-0001)

Note: Anodized aluminum reflector and quartz/tungsten tubular element with an inner heavy-duty coiled element.

23 55 23 13-0009	EA	1,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	805.29	92.77
		<i>For Stainless Steel Housing, Add</i>	131.05	
23 55 23 13-0010	EA	3,200 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	861.74	92.77
		<i>For Stainless Steel Housing, Add</i>	145.16	
23 55 23 13-0011	EA	5,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	926.25	92.77
		<i>For Stainless Steel Housing, Add</i>	161.29	
23 55 23 13-0012	EA	7,300 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,003.81	92.77
		<i>For Stainless Steel Housing, Add</i>	180.68	
23 55 23 13-0013	EA	10,950 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,096.27	101.21
		<i>For Stainless Steel Housing, Add</i>	201.33	
23 55 23 13-0014	EA	13,500 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,171.14	109.63
		<i>For Stainless Steel Housing, Add</i>	216.81	
23 55 23 13-0015	EA	24,000 Watt Infrared Elect Heater, Ceiling Hung Unit, No Fan Required	1,886.32	118.07
		<i>For Stainless Steel Housing, Add</i>	387.16	

23 55 23 13-0016 Gas Fired Tubular Infrared Heater (23 55 23 13-0001)

Note: Per Tube Length. Includes controls and supports.

23 55 23 13-0017 "U" Package (23 55 23 13-0016)

23 55 23 13-0018	LF	Up To 75 MBH Input Radiant Heater	70.31	4.82
23 55 23 13-0019	LF	76 To 105 MBH Input Radiant Heater	81.17	5.78
23 55 23 13-0020	LF	106 To 130 MBH Input Radiant Heater	99.06	6.75

23 55 23 13-0021 "S" Straight Package (23 55 23 13-0016)

23 55 23 13-0022	LF	Up To 75 MBH Input Radiant Heater	57.21	3.85
23 55 23 13-0023	LF	76 To 105 MBH Input Radiant Heater	72.71	4.82
23 55 23 13-0024	LF	106 To 130 MBH Input Radiant Heater	88.19	5.78

23 55 33 Fuel-Fired Unit Heaters (23 55)

23 55 33 00-0001 Oil-Fired Unit Heaters (23 55 33)

23 55 33 00-0002 Oil Fired Unit Heater (23 55 33 00-0001)

23 55 33 00-0003 Horizontal Fan Propelled Oil Fired Unit Heater, 115 Volt (23 55 33 00-0002)

23 55 33 00-0004	EA	97 MBH Output, 2,000 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	6,150.81	443.98
23 55 33 00-0005	EA	142 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	6,600.40	488.38
23 55 33 00-0006	EA	188 MBH Output, 3,200 CFM Oil Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	7,091.18	532.77

23 55 33 00-0007 Gas-Fired Unit Heaters (23 55 33)

23 55 33 00-0008 Removal And Reinstallation Of Unit Heaters (23 55 33 00-0007)

Note: Includes disconnection/reconnection of power and piping, storage, cleaning and reinstallation. Excludes removal and reinstallation of equipment supports.

23 55 33 00-0009	EA	Removal And Reinstallation Of Up To 101.3 MBH Output Gas or Oil Unit Heater	554.39	
23 55 33 00-0010	EA	Removal And Reinstallation Of >101.3 MBH Output Gas or Oil Unit Heater	747.22	

23 55 33 00-0011 Gas Fired Unit Heaters (23 55 33 00-0007)

23 55 33 00-0012 Horizontal Fan Propelled Gas Fired Unit Heaters, 115 Volt (23 55 33 00-0011)

23 55 33 00-0013	EA	24.3 MBH Output, 30 MBH Input, 500 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,549.29	166.49
23 55 33 00-0014	EA	36.5 MBH Output, 45 MBH Input, 750 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,699.47	199.79
23 55 33 00-0015	EA	48.6 MBH Output, 60 MBH Input, 1,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,724.95	199.79
23 55 33 00-0016	EA	60.8 MBH Output, 75 MBH Input, 1,250 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	1,887.40	233.09
23 55 33 00-0017	EA	72.9 MBH Output, 90 MBH Input, 1,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,078.35	266.39
23 55 33 00-0018	EA	81 MBH Output, 100 MBH Input, 1,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt	2,229.89	283.04

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 50 Central Heating Equipment

23 55 Fuel-Fired Heaters



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 55 33 00-0019	EA		101.3 MBH Output, 125 MBH Input, 2,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,294.13	283.04
23 55 33 00-0020	EA		121.5 MBH Output, 150 MBH Input, 2,400 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,239.08	283.04
23 55 33 00-0021	EA		141.8 MBH Output, 175 MBH Input, 2,850 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,654.71	299.69
23 55 33 00-0022	EA		162 MBH Output, 200 MBH Input, 3,200 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	2,905.52	299.69
23 55 33 00-0023	EA		202.5 MBH Output, 250 MBH Input, 3,450 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	3,113.50	299.69
23 55 33 00-0024	EA		243 MBH Output, 300 MBH Input, 5,000 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	3,716.49	332.99
23 55 33 00-0025	EA		283.5 MBH Output, 350 MBH Input, 5,600 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	4,187.52	332.99
23 55 33 00-0026	EA		324 MBH Output, 400 MBH Input, 5,800 CFM Gas Fired Unit Heater Fan Propelled, Horizontal, 115 Volt.....	4,494.66	366.29

23 57 Heat Exchangers for HVAC (23 50)

23 57 13 Steam-To-Steam Heat Exchangers (23 57)

23 57 13 00-0001 Steam Generator Heat Exchanger (23 57 13)

Note: 35 PSI generated steam using 180 degree feed water; 400 degree F water to valve.

23 57 13 00-0002	EA		75 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	13,507.35	1,542.64
23 57 13 00-0003	EA		300 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	17,993.11	1,639.05
23 57 13 00-0004	EA		525 LB/Hour Steam Generator Heat Exchanger, 35 PSI.....	24,143.37	2,011.11

23 57 16 Steam-To-Water Heat Exchangers (23 57)

23 57 16 00-0001 Heat Exchanger, Hot Water 40 To 180 Degree By Steam 10 PSI (23 57 16)

Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes. Excludes controls expansion tank and accessories.

23 57 16 00-0002	EA		8 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	1,562.63	241.04
			<i>For Bronze Head And Tube Sheet, Add</i>	558.56	
			<i>For Copper Nickel Tubes, Add</i>	124.12	
			<i>For Double Wall Tube Bundles, Add</i>	186.19	
23 57 16 00-0003	EA		10 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	2,265.26	241.04
			<i>For Bronze Head And Tube Sheet, Add</i>	845.82	
			<i>For Copper Nickel Tubes, Add</i>	187.96	
			<i>For Double Wall Tube Bundles, Add</i>	281.94	
23 57 16 00-0004	EA		40 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	3,390.13	337.45
			<i>For Bronze Head And Tube Sheet, Add</i>	1,308.63	
			<i>For Copper Nickel Tubes, Add</i>	290.81	
			<i>For Double Wall Tube Bundles, Add</i>	436.21	
23 57 16 00-0005	EA		64 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	5,397.17	337.45
			<i>For Bronze Head And Tube Sheet, Add</i>	1,994.86	
			<i>For Copper Nickel Tubes, Add</i>	443.30	
			<i>For Double Wall Tube Bundles, Add</i>	664.95	
23 57 16 00-0006	EA		96 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	7,092.23	397.23
			<i>For Bronze Head And Tube Sheet, Add</i>	2,649.17	
			<i>For Copper Nickel Tubes, Add</i>	588.70	
			<i>For Double Wall Tube Bundles, Add</i>	883.06	
23 57 16 00-0007	EA		120 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	9,314.17	498.57
			<i>For Bronze Head And Tube Sheet, Add</i>	3,479.03	
			<i>For Copper Nickel Tubes, Add</i>	773.12	
			<i>For Double Wall Tube Bundles, Add</i>	1,159.68	
23 57 16 00-0008	EA		168 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	11,526.81	748.33
			<i>For Bronze Head And Tube Sheet, Add</i>	4,261.01	
			<i>For Copper Nickel Tubes, Add</i>	946.89	
			<i>For Double Wall Tube Bundles, Add</i>	1,420.34	
23 57 16 00-0009	EA		240 GPM Heat Exchanger By Steam At 10 PSI, 40-180 Degree, 4 Pass 3/4" Outside Diameter Copper Tube.....	17,325.44	748.33
			<i>For Bronze Head And Tube Sheet, Add</i>	6,638.89	
			<i>For Copper Nickel Tubes, Add</i>	1,475.31	
			<i>For Double Wall Tube Bundles, Add</i>	2,212.96	

23 57 19 Liquid-To-Liquid Heat Exchangers (23 57)

23 57 19 13 Plate-Type, Liquid-To-Liquid Heat Exchangers (23 57 19)

23 57 19 13-0001 Plate And Frame Heat Exchanger (23 57 19 13)

23 57 19 13-0002	EA		8" W x 18-7/8"H Plate And Frame Heat Exchanger.....	2,457.84	241.04
23 57 19 13-0003	EA		8" W x 24-9/16"H Plate And Frame Heat Exchanger.....	3,228.87	241.04
23 57 19 13-0004	EA		11-3/16" W x 34-11/16"H Plate And Frame Heat Exchanger.....	4,289.03	289.24
23 57 19 13-0005	EA		16-3/4" W x 46-1/4"H Plate And Frame Heat Exchanger.....	5,783.00	313.35
23 57 19 13-0006	EA		16-1/2" W x 49-5/8"H Plate And Frame Heat Exchanger.....	6,313.08	313.35
23 57 19 13-0007	EA		24" W x 57-11/16"H Plate And Frame Heat Exchanger.....	8,192.55	337.45
23 57 19 13-0008	EA		26-5/16" W x 56-5/8"H Plate And Frame Heat Exchanger.....	8,626.26	337.45
23 57 19 13-0009	EA		24-1/4" W x 68-3/8"H Plate And Frame Heat Exchanger.....	10,650.16	385.66
23 57 19 13-0010	EA		24" W x 69-11/16"H Plate And Frame Heat Exchanger.....	13,011.42	433.86
23 57 19 13-0011	EA		26-5/16" W x 68-3/4"H Plate And Frame Heat Exchanger.....	13,493.32	433.86
23 57 19 13-0012	EA		24" W x 89-13/16"H Plate And Frame Heat Exchanger.....	16,690.53	505.12
23 57 19 13-0013	EA		26-5/16" W x 88-9/16"H Plate And Frame Heat Exchanger.....	20,118.36	555.54
23 57 19 13-0014	EA		40-13/16" W x 89-1/4"H Plate And Frame Heat Exchanger.....	23,208.74	605.96

23 57 19 19 Copper Tube, Water-To-Water Heat Exchanger (23 57 19)

23 57 19 19-0001 Heat Exchanger Hot Water 40-140 Degree By Water At 200 Degree F (23 57 19)

Note: Cast iron head steel shell 4 pass 3/4" outside diameter copper tubes.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 57 19 19-0002 EA 7 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	1,846.35 152.50 228.74	241.04
23 57 19 19-0003 EA 16 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	2,548.97 216.33 324.50	241.04
23 57 19 19-0004 EA 34 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	3,780.23 329.82 494.72	337.45
23 57 19 19-0005 EA 55 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	5,394.96 475.22 712.83	337.45
23 57 19 19-0006 EA 74 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	6,689.97 585.16 877.74	385.66
23 57 19 19-0007 EA 86 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	8,887.93 787.30 1,180.96	385.66
23 57 19 19-0008 EA 112 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	10,998.63 978.81 1,468.22	374.16
23 57 19 19-0009 EA 126 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	13,669.58 1,219.97 1,829.95	374.16
23 57 19 19-0010 EA 152 GPM Heat Exchanger By 200 Degree Water, 40-140 Degree, 4 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	17,475.03 1,560.42 2,340.63	374.16

23 57 19 23 Refrigerant-To-Water Heat Exchanger (23 57 19)

23 57 19 23-0001 Heat Exchanger Refrigerant To Water (23 57 19 23)

23 57 19 23-0002 EA 10 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	2,092.68 170.70 256.05	192.83
23 57 19 23-0003 EA 53 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	5,470.52 482.78 724.16	321.36
23 57 19 23-0004 EA 70 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	7,363.41 652.65 978.97	419.21
23 57 19 23-0005 EA 87 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	7,930.36 691.76 1,037.64	507.44
23 57 19 23-0006 EA 105 GPM Heat Exchanger By 385 Degree Water, 40-180 Degree, 3 Pass 3/4" Outside Diameter Copper Tube <i>For Copper Nickel Tubes, Add</i> <i>For Double Wall Tube Bundles, Add</i>	9,553.97 834.63 1,251.94	594.26

23 60 Central Cooling Equipment (23)

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 61 Refrigerant Compressors (23 60)

23 61 16 Reciprocating Refrigerant Compressors (23 61)

23 61 16 00-0001 Reciprocating Open Type Refrigerant Compressors (23 61 16)

Note: Includes manual reversible oil pump and automatic pressure regulator. Excludes muffler, vibration isolators, crank case oil heaters, couplings and flywheel.

23 61 16 00-0002 EA 1/4 Ton Refrigerant Compressor, Reciprocating Open Type	433.90	91.67
23 61 16 00-0003 EA 1/3 Ton Refrigerant Compressor, Reciprocating Open Type	503.02	91.67
23 61 16 00-0004 EA 1/2 Ton Refrigerant Compressor, Reciprocating Open Type	675.56	114.56
23 61 16 00-0005 EA 3/4 Ton Refrigerant Compressor, Reciprocating Open Type	818.11	114.56
23 61 16 00-0006 EA 1 Ton Refrigerant Compressor, Reciprocating Open Type	904.50	114.56
23 61 16 00-0007 EA 1-1/4 Ton Refrigerant Compressor, Reciprocating Open Type	918.71	119.18
23 61 16 00-0008 EA 1-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	923.75	119.18
23 61 16 00-0009 EA 1-3/4 Ton Refrigerant Compressor, Reciprocating Open Type	1,012.65	128.34
23 61 16 00-0010 EA 2 Ton Refrigerant Compressor, Reciprocating Open Type	1,088.58	137.51
23 61 16 00-0011 EA 2-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	1,184.66	146.69
23 61 16 00-0012 EA 3 Ton Refrigerant Compressor, Reciprocating Open Type	1,332.97	146.69
23 61 16 00-0013 EA 3-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	1,489.52	155.85
23 61 16 00-0014 EA 4 Ton Refrigerant Compressor, Reciprocating Open Type	1,525.16	165.02
23 61 16 00-0015 EA 4-1/2 Ton Refrigerant Compressor, Reciprocating Open Type	1,551.59	169.56
23 61 16 00-0016 EA 5 Ton Refrigerant Compressor, Reciprocating Open Type	2,592.68	887.63
23 61 16 00-0017 EA 7.5 Ton Refrigerant Compressor, Reciprocating Open Type	3,742.71	1,014.39
23 61 16 00-0018 EA 10 Ton Refrigerant Compressor, Reciprocating Open Type	4,892.86	1,141.23
23 61 16 00-0019 EA 12.5 Ton Refrigerant Compressor, Reciprocating Open Type	6,325.66	1,236.25
23 61 16 00-0020 EA 15 Ton Refrigerant Compressor, Reciprocating Open Type	7,758.76	1,331.44
23 61 16 00-0021 EA 20 Ton Refrigerant Compressor, Reciprocating Open Type	9,310.51	1,597.73
23 61 16 00-0022 EA 25 Ton Refrigerant Compressor, Reciprocating Open Type	11,098.34	1,717.25
23 61 16 00-0023 EA 30 Ton Refrigerant Compressor, Reciprocating Open Type	12,805.42	1,815.60
23 61 16 00-0024 EA 50 Ton Refrigerant Compressor, Reciprocating Open Type	16,610.68	2,048.39
23 61 16 00-0025 EA 60 Ton Refrigerant Compressor, Reciprocating Open Type	19,427.43	2,102.11

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 61 Refrigerant Compressors**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 61 16 00-0026	EA	70 Ton Refrigerant Compressor, Reciprocating Open Type	24,067.96	2,155.74
23 61 16 00-0027	EA	75 Ton Refrigerant Compressor, Reciprocating Open Type	25,234.34	2,182.65
23 61 16 00-0028	EA	80 Ton Refrigerant Compressor, Reciprocating Open Type	26,352.70	2,209.47
23 61 16 00-0029	EA	90 Ton Refrigerant Compressor, Reciprocating Open Type	28,447.45	2,263.10
23 61 16 00-0030	EA	100 Ton Refrigerant Compressor, Reciprocating Open Type	30,353.09	2,316.90
23 61 16 00-0031	EA	110 Ton Refrigerant Compressor, Reciprocating Open Type	32,581.26	2,592.69
23 61 16 00-0032	EA	120 Ton Refrigerant Compressor, Reciprocating Open Type	34,108.23	2,650.72
23 61 16 00-0033	EA	130 Ton Refrigerant Compressor, Reciprocating Open Type	35,409.31	2,684.46
23 61 16 00-0034	EA	140 Ton Refrigerant Compressor, Reciprocating Open Type	36,593.78	2,767.52
23 61 16 00-0035	EA	150 Ton Refrigerant Compressor, Reciprocating Open Type	37,549.27	2,825.54
23 61 16 00-0036	EA	175 Ton Refrigerant Compressor, Reciprocating Open Type	38,533.22	2,902.97
23 61 16 00-0037	EA	185 Ton Refrigerant Compressor, Reciprocating Open Type	39,446.99	2,934.18
23 61 16 00-0038	EA	200 Ton Refrigerant Compressor, Reciprocating Open Type	40,387.77	2,982.73
23 61 16 00-0039	EA	225 Ton Refrigerant Compressor, Reciprocating Open Type	41,568.62	3,183.90
23 61 16 00-0040	EA	250 Ton Refrigerant Compressor, Reciprocating Open Type	42,701.52	3,355.54

23 61 16 00-0041 Reciprocating Hermetic Type Refrigerant Compressors (23 61 16)

Note: Includes automatic reversible oil pump, suction and discharge shut-off valves, device for loading and unloading compressor cylinders and crank case oil heater. Excludes mufflers and vibration isolators.

23 61 16 00-0042 Reciprocating Hermetic Type Refrigerant Compressors <5 Tons (23 61 16 00-0041)

23 61 16 00-0043	EA	1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,253.06	91.67
23 61 16 00-0044	EA	1/3 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,298.58	91.67
23 61 16 00-0045	EA	1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,389.94	114.56
23 61 16 00-0046	EA	3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,435.43	114.56
23 61 16 00-0047	EA	1 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,458.19	114.56
23 61 16 00-0048	EA	1-1/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,503.78	119.18
23 61 16 00-0049	EA	1-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,553.86	119.18
23 61 16 00-0050	EA	1-3/4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,667.78	128.34
23 61 16 00-0051	EA	2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,777.17	137.51
23 61 16 00-0052	EA	2-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	1,932.03	146.69
23 61 16 00-0053	EA	3 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,023.08	146.69
23 61 16 00-0054	EA	3-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,177.95	155.85
23 61 16 00-0055	EA	4 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,605.98	165.02
23 61 16 00-0056	EA	4-1/2 Ton Refrigerant Compressor, Reciprocating Hermetic Type	2,865.49	169.56

23 61 16 00-0057 Reciprocating Hermetic Type Refrigerant Compressors (23 61 16 00-0041)

23 61 16 00-0058	EA	5 Ton Refrigerant Compressor, Reciprocating Hermetic Type	3,476.56	456.49
23 61 16 00-0059	EA	10 Ton Refrigerant Compressor, Reciprocating Hermetic Type	6,837.78	570.62
23 61 16 00-0060	EA	15 Ton Refrigerant Compressor, Reciprocating Hermetic Type	11,610.76	694.68
23 61 16 00-0061	EA	20 Ton Refrigerant Compressor, Reciprocating Hermetic Type	14,854.48	798.86
23 61 16 00-0062	EA	25 Ton Refrigerant Compressor, Reciprocating Hermetic Type	16,401.35	887.63
23 61 16 00-0063	EA	30 Ton Refrigerant Compressor, Reciprocating Hermetic Type	18,173.50	998.58
23 61 16 00-0064	EA	35 Ton Refrigerant Compressor, Reciprocating Hermetic Type	23,618.27	1,141.23
23 61 16 00-0065	EA	40 Ton Refrigerant Compressor, Reciprocating Hermetic Type	30,620.56	1,141.23
23 61 16 00-0066	EA	50 Ton Refrigerant Compressor, Reciprocating Hermetic Type	37,877.61	1,331.44
23 61 16 00-0067	EA	60 Ton Refrigerant Compressor, Reciprocating Hermetic Type	42,697.52	1,426.54
23 61 16 00-0068	EA	70 Ton Refrigerant Compressor, Reciprocating Hermetic Type	45,122.69	1,495.00
23 61 16 00-0069	EA	75 Ton Refrigerant Compressor, Reciprocating Hermetic Type	46,363.59	1,568.85
23 61 16 00-0070	EA	80 Ton Refrigerant Compressor, Reciprocating Hermetic Type	47,708.57	1,574.94
23 61 16 00-0071	EA	90 Ton Refrigerant Compressor, Reciprocating Hermetic Type	50,118.61	1,649.04
23 61 16 00-0072	EA	100 Ton Refrigerant Compressor, Reciprocating Hermetic Type	52,557.98	1,717.25

23 61 19 Scroll Refrigerant Compressors (23 61)**23 61 19 00-0001 Scroll Refrigerant Compressors (23 61 19)**

23 61 19 00-0002	EA	Up To 3 Ton Scroll Refrigerant Compressor	1,106.83	146.51
23 61 19 00-0003	EA	3.5 Ton Scroll Refrigerant Compressor	1,160.91	155.93
23 61 19 00-0004	EA	4 Ton Scroll Refrigerant Compressor	1,190.18	164.93
23 61 19 00-0005	EA	4.5 Ton Scroll Refrigerant Compressor	1,213.70	169.64
23 61 19 00-0006	EA	5 Ton Scroll Refrigerant Compressor	1,504.31	214.20
23 61 19 00-0007	EA	7.5 Ton Scroll Refrigerant Compressor	2,850.37	321.29
23 61 19 00-0008	EA	8.75 Ton Scroll Refrigerant Compressor	3,262.47	374.84
23 61 19 00-0009	EA	10 Ton Scroll Refrigerant Compressor	3,656.61	428.39
23 61 19 00-0010	EA	12 Ton Scroll Refrigerant Compressor	4,418.59	514.06
23 61 19 00-0011	EA	13.5 Ton Scroll Refrigerant Compressor	5,205.39	578.32
23 61 19 00-0012	EA	15 Ton Scroll Refrigerant Compressor	6,099.70	642.59
23 61 19 00-0013	EA	20 Ton Scroll Refrigerant Compressor	8,588.57	856.78
23 61 19 00-0014	EA	25 Ton Scroll Refrigerant Compressor	9,699.72	1,070.97
23 61 19 00-0015	EA	30 Ton Scroll Refrigerant Compressor	10,393.85	1,285.17

23 61 23 Rotary-Screw Refrigerant Compressors (23 61)**23 61 23 00-0001 Rotary Screw Type Refrigerant Compressors (23 61 23)**

23 61 23 00-0002	EA	75 Ton Refrigerant Compressor, Rotary Screw Type	53,914.35	2,182.65
23 61 23 00-0003	EA	80 Ton Refrigerant Compressor, Rotary Screw Type	55,587.66	2,209.47
23 61 23 00-0004	EA	90 Ton Refrigerant Compressor, Rotary Screw Type	59,219.31	2,263.10
23 61 23 00-0005	EA	100 Ton Refrigerant Compressor, Rotary Screw Type	62,810.50	2,316.90



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 61 23 00-0006 EA 110 Ton Refrigerant Compressor, Rotary Screw Type	67,535.21	2,592.69
23 61 23 00-0007 EA 120 Ton Refrigerant Compressor, Rotary Screw Type	71,748.18	2,650.72
23 61 23 00-0008 EA 130 Ton Refrigerant Compressor, Rotary Screw Type	75,885.93	2,684.46
23 61 23 00-0009 EA 140 Ton Refrigerant Compressor, Rotary Screw Type	80,131.44	2,767.52
23 61 23 00-0010 EA 150 Ton Refrigerant Compressor, Rotary Screw Type	84,346.61	2,825.54
23 61 23 00-0011 EA 170 Ton Refrigerant Compressor, Rotary Screw Type	90,291.96	2,902.97
23 61 23 00-0012 EA 185 Ton Refrigerant Compressor, Rotary Screw Type	94,449.96	2,934.18
23 61 23 00-0013 EA 200 Ton Refrigerant Compressor, Rotary Screw Type	96,363.93	2,982.73
23 61 23 00-0014 EA 215 Ton Refrigerant Compressor, Rotary Screw Type	108,296.73	3,183.90
23 61 23 00-0015 EA 225 Ton Refrigerant Compressor, Rotary Screw Type	120,108.29	3,355.54

23 62 Packaged Compressor and Condenser Units (23 60)

23 62 13 Packaged Air-Cooled Refrigerant Compressor and Condenser Units (23 62)

23 62 13 00-0001 Combination Direct-Expansion Liquid Cooler And Compressors (23 62 13)

Note: Shell and tube type. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

23 62 13 00-0002 EA 1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	5,911.89	791.66
23 62 13 00-0003 EA 5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	13,110.22	848.22
23 62 13 00-0004 EA 10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	23,022.35	904.76
23 62 13 00-0005 EA 15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	27,271.78	961.31
23 62 13 00-0006 EA 20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	32,353.95	1,017.85
23 62 13 00-0007 EA 25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	35,856.31	1,130.95
23 62 13 00-0008 EA 30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	36,911.11	1,277.51
23 62 13 00-0009 EA 40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	39,744.88	1,484.60
23 62 13 00-0010 EA 50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	42,408.83	1,608.31
23 62 13 00-0011 EA 60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	48,605.92	1,732.03
23 62 13 00-0012 EA 75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	54,952.33	1,917.60
23 62 13 00-0013 EA 80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	58,077.59	1,991.64
23 62 13 00-0014 EA 90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	65,573.82	2,116.12
23 62 13 00-0015 EA 100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube	71,674.60	2,240.60

23 62 13 00-0016 Direct-Expansion Liquid Cooler Shell And Tube Type (23 62 13)

Note: For built-up systems. Chilled water temperature rise is 12 degree F. Rated by cooling capacity in tons. Excludes compressors. Includes power panel, factory wired and installed control panel, pressure and safety switches and gauges for oil pressure and high and low refrigerant pressure, flow switches, phase monitoring, sight glasses and filter dryers, start-up costs and equipment rigging. Units greater than 5 tons include dual compressors. Excludes motor starter, piping or power wiring.

23 62 13 00-0017 EA 1 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	5,642.96	791.66
23 62 13 00-0018 EA 5 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	11,579.55	848.22
23 62 13 00-0019 EA 10 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	18,070.42	904.76
23 62 13 00-0020 EA 15 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	19,516.80	961.31
23 62 13 00-0021 EA 20 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	20,963.18	1,017.85
23 62 13 00-0022 EA 25 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	24,845.55	1,130.95
23 62 13 00-0023 EA 30 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	28,160.12	1,277.51
23 62 13 00-0024 EA 40 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	36,143.32	1,484.60
23 62 13 00-0025 EA 50 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	40,536.58	1,608.31
23 62 13 00-0026 EA 60 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	43,876.50	1,732.03
23 62 13 00-0027 EA 75 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	50,454.27	1,917.60
23 62 13 00-0028 EA 80 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	53,436.86	1,991.64
23 62 13 00-0029 EA 90 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	58,618.53	2,116.12
23 62 13 00-0030 EA 100 Ton Chiller, Direct-Expansion Liquid Cooler Shell And Tube For Built-Up Systems	66,847.66	2,240.60

23 62 13 00-0031 Packaged Chiller With Remote Air Cooled Condenser (23 62 13)

Note: With remote air cooled condenser rated by cooling capacity. Units are factory assembled package type and include hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, vibration eliminators, phase monitoring for 3 phase units, start-up and equipment rigging. Units include dual compressors. Excludes piping and power wiring.

23 62 13 00-0032 EA 15 Ton Packaged Chiller With Remote Air Cooled Condensers	33,364.10	7,213.21
For Gas Fired Engine Driven, Add	5,591.39	
23 62 13 00-0033 EA 20 Ton Packaged Chiller With Remote Air Cooled Condensers	37,543.55	7,603.11
For Gas Fired Engine Driven, Add	6,368.82	
23 62 13 00-0034 EA 25 Ton Packaged Chiller With Remote Air Cooled Condensers	43,451.45	8,273.90
For Gas Fired Engine Driven, Add	7,449.82	
23 62 13 00-0035 EA 30 Ton Packaged Chiller With Remote Air Cooled Condensers	48,475.25	8,791.06
For Gas Fired Engine Driven, Add	8,377.05	
23 62 13 00-0036 EA 40 Ton Packaged Chiller With Remote Air Cooled Condensers	60,296.55	9,700.47
For Gas Fired Engine Driven, Add	10,604.97	
23 62 13 00-0037 EA 50 Ton Packaged Chiller With Remote Air Cooled Condensers	66,371.70	10,046.88
For Gas Fired Engine Driven, Add	11,768.06	
23 62 13 00-0038 EA 60 Ton Packaged Chiller With Remote Air Cooled Condensers	72,105.69	10,819.72
For Gas Fired Engine Driven, Add	12,798.99	
23 62 13 00-0039 EA 70 Ton Packaged Chiller With Remote Air Cooled Condensers	87,346.83	11,576.73
For Gas Fired Engine Driven, Add	15,712.03	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 60 Central Cooling Equipment

23 62 Packaged Compressor and Condenser Units



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 62 13 00-0040 EA 75 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	88,353.73 15,902.60	11,793.51
23 62 13 00-0041 EA 80 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	90,021.21 16,159.22	12,306.32
23 62 13 00-0042 EA 90 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	99,719.98 18,015.11	12,865.71
23 62 13 00-0043 EA 100 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	110,170.40 20,013.34	13,478.39
23 62 13 00-0044 EA 110 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	121,983.60 22,274.94	14,152.27
23 62 13 00-0045 EA 120 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	131,815.20 24,129.59	14,897.15
23 62 13 00-0046 EA 140 Ton Packaged Chiller With Remote Air Cooled Condensers <i>For Gas Fired Engine Driven, Add</i>	145,311.31 26,704.73	15,724.74

23 62 23 Packaged Water-Cooled Refrigerant Compressor and Condenser Units (23 62)

23 62 23 00-0001 Water Cooled Condensing Units (23 62 23)

Note: Includes compressor, condenser and motor, and equipment rigging. Excludes piping and power wiring.

23 62 23 00-0002 EA 5 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	4,943.62	617.14
23 62 23 00-0003 EA 10 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	7,484.98	901.28
23 62 23 00-0004 EA 15 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	8,548.31	976.76
23 62 23 00-0005 EA 20 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	10,585.01	1,172.11
23 62 23 00-0006 EA 30 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	11,477.67	1,379.01
23 62 23 00-0007 EA 60 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	23,963.52	2,021.19
23 62 23 00-0008 EA 80 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	29,714.53	2,439.40
23 62 23 00-0009 EA 120 Ton Water Cooled Condensing Unit With Compressor, Condenser And Motor	40,827.14	2,669.08

23 63 Refrigerant Condensers (23 60)

23 63 13 Air-Cooled Refrigerant Condensers (23 63)

23 63 13 00-0001 Air Cooled Condensing Units (23 63 13)

Note: Includes compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers and phase monitoring for 3 phase units and equipment rigging. Meets minimum ASHRAE EER requirements. Excludes piping and power wiring.

23 63 13 00-0002 EA 6 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	4,182.10	617.14
<i>For >10 To 25, Deduct</i>	-97.42	
<i>For >25 To 50, Deduct</i>	-162.37	
<i>For >50, Deduct</i>	-259.79	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	655.84	
<i>For Winter Start Control, Add</i>	223.37	
23 63 13 00-0003 EA 7.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	5,006.84	732.57
<i>For >10 To 25, Deduct</i>	-116.91	
<i>For >25 To 50, Deduct</i>	-194.84	
<i>For >50, Deduct</i>	-311.75	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	589.24	
<i>For Winter Start Control, Add</i>	188.93	
23 63 13 00-0004 EA 10 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	6,492.20	901.28
<i>For >10 To 25, Deduct</i>	-153.78	
<i>For >25 To 50, Deduct</i>	-256.31	
<i>For >50, Deduct</i>	-410.09	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	700.35	
<i>For Winter Start Control, Add</i>	239.13	
23 63 13 00-0005 EA 12.5 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	7,972.22	937.69
<i>For >10 To 25, Deduct</i>	-196.54	
<i>For >25 To 50, Deduct</i>	-327.57	
<i>For >50, Deduct</i>	-524.12	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	813.79	
<i>For Winter Start Control, Add</i>	273.10	
23 63 13 00-0006 EA 15 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	9,456.79	976.76
<i>For >10 To 25, Deduct</i>	-239.31	
<i>For >25 To 50, Deduct</i>	-398.84	
<i>For >50, Deduct</i>	-638.15	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	848.60	
<i>For Winter Start Control, Add</i>	227.76	
23 63 13 00-0007 EA 20 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	12,158.90	1,172.11
<i>For >10 To 25, Deduct</i>	-311.49	
<i>For >25 To 50, Deduct</i>	-519.15	
<i>For >50, Deduct</i>	-830.64	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,066.96	
<i>For Winter Start Control, Add</i>	281.42	
23 63 13 00-0008 EA 25 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor	13,808.66	1,260.91
<i>For >10 To 25, Deduct</i>	-357.00	
<i>For >25 To 50, Deduct</i>	-594.99	
<i>For >50, Deduct</i>	-951.99	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,131.69	
<i>For Winter Start Control, Add</i>	309.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0009 EA 30 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	15,813.11	1,376.34
<i>For >10 To 25, Deduct</i>	-411.92	
<i>For >25 To 50, Deduct</i>	-686.53	
<i>For >50, Deduct</i>	-1,098.45	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,207.15	
<i>For Winter Start Control, Add</i>	345.55	
23 63 13 00-0010 EA 40 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	21,637.02	1,607.77
<i>For >10 To 25, Deduct</i>	-574.73	
<i>For >25 To 50, Deduct</i>	-957.88	
<i>For >50, Deduct</i>	-1,532.60	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,577.75	
<i>For Winter Start Control, Add</i>	439.53	
23 63 13 00-0011 EA 50 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	26,295.73	2,021.19
<i>For >10 To 25, Deduct</i>	-695.36	
<i>For >25 To 50, Deduct</i>	-1,158.93	
<i>For >50, Deduct</i>	-1,854.29	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,706.42	
<i>For Winter Start Control, Add</i>	427.60	
23 63 13 00-0012 EA 60 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	30,245.85	2,230.77
<i>For >10 To 25, Deduct</i>	-806.89	
<i>For >25 To 50, Deduct</i>	-1,344.82	
<i>For >50, Deduct</i>	-2,151.71	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,913.23	
<i>For Winter Start Control, Add</i>	469.43	
23 63 13 00-0013 EA 80 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	39,069.37	2,439.40
<i>For >10 To 25, Deduct</i>	-1,059.22	
<i>For >25 To 50, Deduct</i>	-1,765.37	
<i>For >50, Deduct</i>	-2,824.59	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	2,352.80	
<i>For Winter Start Control, Add</i>	552.74	
23 63 13 00-0014 EA 100 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	53,770.78	2,196.41
<i>For >10 To 25, Deduct</i>	-1,478.99	
<i>For >25 To 50, Deduct</i>	-2,464.98	
<i>For >50, Deduct</i>	-3,943.96	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	2,596.80	
<i>For Winter Start Control, Add</i>	693.62	
23 63 13 00-0015 EA 120 Ton Air Cooled Condensing Unit With Compressor, Condenser, Fan And Motor.....	66,083.77	2,270.87
<i>For >10 To 25, Deduct</i>	-1,843.83	
<i>For >25 To 50, Deduct</i>	-3,073.05	
<i>For >50, Deduct</i>	-4,916.88	
<i>For Low Ambient Protection, 0 Degree F, Add</i>	2,999.53	
23 63 13 00-0016 Air Cooled Condensing Units <small>(23 63 13)</small>		
Note: Include compressor(s), condenser, fan, motors, discharge/suction gauges, sight glass, fan cycling controls, standard oil hi/low safety control switches, standard controls and liquid line filter dryers, 14 SEER, 1 or 3 phase and equipment rigging. Higher SEER ratings can be obtained by oversizing evaporators. Excludes piping and power wiring.		
23 63 13 00-0017 EA 1.5 Ton, 14 SEER, Air Cooled Condensing Unit.....	1,621.84	273.96
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For >10 To 25, Deduct</i>	-36.33	
<i>For >25 To 50, Deduct</i>	-60.55	
<i>For >50, Deduct</i>	-96.87	
<i>For 15 SEER, Add</i>	290.62	
<i>For 16 SEER, Add</i>	496.47	
<i>For 18 SEER, Add</i>	1,041.38	
23 63 13 00-0018 EA 2 Ton, 14 SEER, Air Cooled Condensing Unit.....	1,744.66	304.55
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For >10 To 25, Deduct</i>	-38.64	
<i>For >25 To 50, Deduct</i>	-64.40	
<i>For >50, Deduct</i>	-103.04	
<i>For 15 SEER, Add</i>	309.13	
<i>For 16 SEER, Add</i>	528.10	
<i>For 18 SEER, Add</i>	1,107.73	
23 63 13 00-0019 EA 2.5 Ton, 14 SEER, Air Cooled Condensing Unit.....	1,851.78	335.00
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For >10 To 25, Deduct</i>	-40.49	
<i>For >25 To 50, Deduct</i>	-67.48	
<i>For >50, Deduct</i>	-107.96	
<i>For 15 SEER, Add</i>	323.89	
<i>For 16 SEER, Add</i>	553.31	
<i>For 18 SEER, Add</i>	1,160.60	
23 63 13 00-0020 EA 3 Ton, 14 SEER, Air Cooled Condensing Unit.....	2,126.28	365.27
Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.		
<i>For >10 To 25, Deduct</i>	-47.35	
<i>For >25 To 50, Deduct</i>	-78.92	
<i>For >50, Deduct</i>	-126.27	
<i>For 15 SEER, Add</i>	378.81	
<i>For 16 SEER, Add</i>	647.13	
<i>For 18 SEER, Add</i>	1,357.40	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 60 Central Cooling Equipment

23 63 Refrigerant Condensers



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 63 13 00-0021	EA		3.5 Ton, 14 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	2,251.71	395.92
			For >10 To 25, Deduct	-49.74	
			For >25 To 50, Deduct	-82.91	
			For >50, Deduct	-132.65	
			For 15 SEER, Add	397.95	
			For 16 SEER, Add	679.84	
			For 18 SEER, Add	1,426.00	
23 63 13 00-0022	EA		4 Ton, 14 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	2,509.21	426.37
			For >10 To 25, Deduct	-56.10	
			For >25 To 50, Deduct	-93.50	
			For >50, Deduct	-149.60	
			For 15 SEER, Add	448.80	
			For 16 SEER, Add	766.69	
			For 18 SEER, Add	1,608.18	
23 63 13 00-0023	EA		5 Ton, 14 SEER, Air Cooled Condensing Unit..... Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	2,831.39	456.60
			For >10 To 25, Deduct	-64.40	
			For >25 To 50, Deduct	-107.33	
			For >50, Deduct	-171.72	
			For 15 SEER, Add	515.16	
			For 16 SEER, Add	880.07	
			For 18 SEER, Add	1,845.99	
23 63 13 00-0024			Removal And Reinstallation Of AC Condensing Unit (23 63 13) Note: Includes storage and cleaning.		
23 63 13 00-0025	EA		Removal And Reinstallation Of Up To 5 Tons Air Cooled Condensing Unit.....	281.11	
23 63 13 00-0026	EA		Removal And Reinstallation Of 7.5 To 15 Tons Air Cooled Condensing Unit.....	1,054.20	
23 63 13 00-0027	EA		Removal And Reinstallation Of 20 To 40 Tons Air Cooled Condensing Unit.....	1,865.47	
23 64			Packaged Water Chillers (23 60) See CSI section 26 29 23 00-0000 for variable frequency motor controllers.		
23 64 13			Absorption Water Chillers (23 64)		
23 64 13 16			Indirect-Fired Absorption Water Chillers (23 64 13)		
23 64 13 16-0001			Packaged, Steam Driven, Water Cooled Absorption Chillers (23 64 13 16) Note: Includes refrigerant monitor with scanner, audible alarm, and lights, 460 V motor, and all accessories, controls (water temperature controller with PE switches, flow switch, etc.) factory wired and installed control panel, and also includes start-up. Price includes closed transition starter. (rated by cooling capacity in tons). Units are factory assembled package type consisting of motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, controls, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Exclude piping and power wiring.		
23 64 13 16-0002	EA		50 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	103,792.36 68,987.18	5,757.86
23 64 13 16-0003	EA		100 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	131,850.52 87,886.47	6,861.74
23 64 13 16-0004	EA		150 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	167,176.73 112,497.25	7,044.68
23 64 13 16-0005	EA		200 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	185,265.90 125,073.57	7,178.68
23 64 13 16-0006	EA		250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	207,242.01 140,341.21	7,358.62
23 64 13 16-0007	EA		300 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	234,154.48 158,900.98	7,792.78
23 64 13 16-0008	EA		350 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	251,139.34 170,669.37	7,981.10
23 64 13 16-0009	EA		400 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	299,327.23 204,191.25	8,307.38
23 64 13 16-0010	EA		500 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	335,463.74 229,331.34	8,549.35
23 64 13 16-0011	EA		650 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	412,603.21 281,071.45	12,062.83
23 64 13 16-0012	EA		750 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	449,162.99 305,385.25	14,051.93
23 64 13 16-0013	EA		850 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	481,147.66 327,373.23	14,676.40
23 64 13 16-0014	EA		950 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	514,917.57 350,850.06	15,089.64
23 64 13 16-0015	EA		1,125 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	589,627.44 402,814.57	15,612.58
23 64 13 16-0016	EA		1,250 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	645,200.32 441,411.77	16,090.52
23 64 13 16-0017	EA		1,450 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	758,394.36 518,267.39	19,834.81
23 64 13 16-0018	EA		1,700 Ton Packaged, Steam Driven, Water Cooled Absorption Chiller..... For Two Stage Unit, Add	886,611.72 607,351.54	20,885.72
23 64 16			Centrifugal Water Chillers (23 64)		



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 64 16 13 Air-Cooled Centrifugal Water Chillers (23 64 16)

23 64 16 13-0001			Magnetic Bearing, Air Cooled Centrifugal Chillers <small>(23 64 16 13)</small> Note: SMARTT air cooled oil-free centrifugal chiller with variable speed control, magnetic bearings, lowest ARI IPLV in industry. Includes start up, freight, R-134a refrigerant charge, BACnet or equivalent interface.		
23 64 16 13-0002	EA		85 Ton, Single Compressor, Magnetic Bearing, Air Cooled Centrifugal Chiller.....	139,423.11	5,228.88
			<i>For 5 Year Parts Only Compressor Warranty, Add</i>	3,812.40	
23 64 16 13-0003	EA		175 Ton, Two Compressor, Magnetic Bearing, Air Cooled Centrifugal Chiller.....	197,700.32	7,006.12
			<i>For 5 Year Parts Only Compressor Warranty, Add</i>	7,624.80	
23 64 16 13-0004	EA		240 Ton, Three Compressor, Magnetic Bearing, Air Cooled Centrifugal Chiller.....	246,650.30	7,409.53
			<i>For 5 Year Parts Only Compressor Warranty, Add</i>	11,437.20	

23 64 16 16 Water-Cooled Centrifugal Water Chillers (23 64 16)

23 64 16 16-0001			Packaged Water-Cooled Centrifugal Water Chillers <small>(23 64 16 16)</small> Note: Includes integral heat exchanger, refrigerant monitor with scanner, audible alarm, and lights, 460 V motor, controls (water temperature controller with PE switches, flow switch, etc.), start-up, and closed transition starter. Rated by cooling capacity in tons. Units are factory assembled package type consisting of compressor, motor, cooler, condenser, internal piping and wiring, motor starters, insulation, purge unit, factory wired and installed control panel, gauges, lubrication system, refrigerant charge, oil, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.		
23 64 16 16-0002	EA		180 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	139,875.26	5,380.36
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	5,249.30	
23 64 16 16-0003	EA		200 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	152,961.44	5,516.63
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	5,763.88	
23 64 16 16-0004	EA		225 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	168,782.18	5,656.85
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	6,387.81	
23 64 16 16-0005	EA		250 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	184,208.43	5,883.65
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	6,990.29	
23 64 16 16-0006	EA		275 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	199,267.83	6,215.87
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	7,571.32	
23 64 16 16-0007	EA		300 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	213,776.24	6,539.04
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	8,130.90	
23 64 16 16-0008	EA		325 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	227,803.71	6,897.58
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	8,668.96	
23 64 16 16-0009	EA		350 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	241,266.94	7,237.72
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	9,185.63	
23 64 16 16-0010	EA		375 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	254,144.17	7,547.87
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	9,680.79	
23 64 16 16-0011	EA		400 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	266,380.28	7,792.78
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	10,154.50	
23 64 16 16-0012	EA		425 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	278,306.75	8,178.84
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	10,606.75	
23 64 16 16-0013	EA		450 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	289,583.79	8,494.38
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	11,037.56	
23 64 16 16-0014	EA		475 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	300,317.93	8,805.86
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	11,446.91	
23 64 16 16-0015	EA		500 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	310,403.01	9,047.08
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	11,834.81	
23 64 16 16-0016	EA		550 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	328,703.01	9,367.89
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	12,546.20	
23 64 16 16-0017	EA		600 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	344,669.66	9,571.58
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	13,171.78	
23 64 16 16-0018	EA		650 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	358,922.43	10,044.69
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	13,711.49	
23 64 16 16-0019	EA		700 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	371,041.48	10,524.97
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	14,165.39	
23 64 16 16-0020	EA		750 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	381,096.04	11,053.34
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	14,533.62	
23 64 16 16-0021	EA		800 Ton Packaged Water-Cooled Centrifugal Water Chiller.....	404,817.73	11,586.62
			Note: Includes integral heat exchanger, controls, and 440/460 V motor.		
			<i>For 208/230 Volt Motor, Add</i>	15,448.23	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 60 Central Cooling Equipment

23 64 Packaged Water Chillers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 16 16-0022 EA 850 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	428,371.56 16,356.23	12,118.19
23 64 16 16-0023 EA 900 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	451,839.29 17,257.50	12,700.79
23 64 16 16-0024 EA 950 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	475,231.78 18,151.99	13,342.22
23 64 16 16-0025 EA 1,000 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	498,267.31 19,039.68	14,016.61
23 64 16 16-0026 EA 1,100 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	540,451.13 20,589.95	16,173.07
23 64 16 16-0027 EA 1,200 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	581,039.23 22,076.00	18,335.68
23 64 16 16-0028 EA 1,300 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	619,365.55 23,497.69	20,087.49
23 64 16 16-0029 EA 1,400 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	655,013.02 24,855.03	21,166.10
23 64 16 16-0030 EA 1,500 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	688,991.05 26,147.83	22,209.43
23 64 16 16-0031 EA 1,600 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	720,740.98 27,376.90	22,853.23
23 64 16 16-0032 EA 1,700 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	752,388.08 28,541.43	24,447.60
23 64 16 16-0033 EA 1,800 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	781,787.71 29,641.61	25,640.15
23 64 16 16-0034 EA 1,900 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	810,142.17 30,677.43	27,187.43
23 64 16 16-0035 EA 2,000 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	835,975.13 31,649.03	28,158.42
23 64 16 16-0036 EA 2,250 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	890,479.06 33,796.64	29,752.31
23 64 16 16-0037 EA 2,500 Ton Packaged Water-Cooled Centrifugal Water Chiller Note: Includes integral heat exchanger, controls, and 440/460 V motor. <i>For 208/230 Volt Motor, Add</i>	938,677.50 35,542.32	31,537.42
23 64 16 16-0038 Magnetic Bearing, Water Cooled Centrifugal Water Chillers (23 64 16 16) Note: SMART1 water cooled oil-free centrifugal chiller with variable speed control, magnetic bearings, 10 amp maximum inrush current and ARI part load <0.4kW per ton. Includes start up, freight, R-134a refrigerant charge, BAConet or equivalent interface, 12/18 month compressor warranty.		
23 64 16 16-0039 EA 60 To 85 Ton, Single Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller <i>For 5 Year Parts Only Compressor Warranty, Add</i> <i>For Marine Water Box Connections, Add</i>	88,324.22 3,812.40 3,558.24	4,526.47
23 64 16 16-0040 EA 130 To 137 Ton, Single Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller <i>For 5 Year Parts Only Compressor Warranty, Add</i> <i>For Marine Water Box Connections, Add</i>	111,023.24 3,812.40 3,558.24	5,261.07
23 64 16 16-0041 EA 125 To 170 Ton, Dual Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller <i>For 5 Year Parts Only Compressor Warranty, Add</i> <i>For Marine Water Box Connections, Add</i>	138,698.89 7,624.80 3,558.24	5,380.36
23 64 16 16-0042 EA 240 To 270 Ton, Dual Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller <i>For 5 Year Parts Only Compressor Warranty, Add</i> <i>For Marine Water Box Connections, Add</i>	180,260.61 7,624.80 3,558.24	6,215.87
23 64 16 16-0043 EA 210 To 260 Ton, Three Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller <i>For 5 Year Parts Only Compressor Warranty, Add</i> <i>For Marine Water Box Connections, Add</i>	181,476.79 11,437.20 3,558.24	5,883.65
23 64 16 16-0044 EA 355 To 405 Ton, Three Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller <i>For 5 Year Parts Only Compressor Warranty, Add</i> <i>For Marine Water Box Connections, Add</i>	271,786.50 11,437.20 3,558.24	7,792.78
23 64 16 16-0045 EA 299 To 340 Ton, Four Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller <i>For 5 Year Parts Only Compressor Warranty, Add</i> <i>For Marine Water Box Connections, Add</i>	240,944.59 13,978.80 4,956.12	7,237.72
23 64 16 16-0046 EA 540 Ton, Four Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller <i>For 5 Year Parts Only Compressor Warranty, Add</i> <i>For Marine Water Box Connections, Add</i>	334,459.85 13,978.80 4,956.12	9,367.89
23 64 16 16-0047 EA 425 Ton, Five Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller <i>For 5 Year Parts Only Compressor Warranty, Add</i> <i>For Marine Water Box Connections, Add</i>	299,503.83 16,520.40 4,956.12	8,178.84
23 64 16 16-0048 EA 650 Ton, Five Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller <i>For 5 Year Parts Only Compressor Warranty, Add</i> <i>For Marine Water Box Connections, Add</i>	400,445.45 16,520.40 4,956.12	10,044.69



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 16 16-0049 EA 510 Ton, Six Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller..... <i>For 5 Year Parts Only Compressor Warranty, Add For Marine Water Box Connections, Add</i>	356,306.77 19,062.00 5,210.28	9,047.08
23 64 16 16-0050 EA 800 Ton, Six Compressor, Magnetic Bearing, Water Cooled Centrifugal Water Chiller..... <i>For 5 Year Parts Only Compressor Warranty, Add For Marine Water Box Connections, Add</i>	459,045.96 19,062.00 5,210.28	11,586.62
23 64 23 Scroll Water Chillers (23 64)		
23 64 23 13 Air-Cooled Scroll Water Chillers (23 64 23)		
23 64 23 13-0001 Packaged Air Cooled Scroll Water Chillers (23 64 23 13)		
Note: With integral heat exchanger. Rated by cooling capacity, tons. Units are factory assembled package type and include scroll compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, factory charge of refrigerant, start-up and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 64 23 13-0002 EA 10 Ton Packaged Air Cooled Scroll Water Chiller.....	19,625.16	1,401.29
23 64 23 13-0003 EA 15 Ton Packaged Air Cooled Scroll Water Chiller.....	28,660.74	1,419.27
23 64 23 13-0004 EA 18 Ton Packaged Air Cooled Scroll Water Chiller.....	31,273.39	1,518.07
23 64 23 13-0005 EA 22 Ton Packaged Air Cooled Scroll Water Chiller.....	34,395.96	1,625.86
23 64 23 13-0006 EA 25 Ton Packaged Air Cooled Scroll Water Chiller.....	34,973.63	1,733.65
23 64 23 13-0007 EA 30 Ton Packaged Air Cooled Scroll Water Chiller.....	36,911.12	1,859.41
23 64 23 13-0008 EA 40 Ton Packaged Air Cooled Scroll Water Chiller.....	42,180.82	2,012.12
23 64 23 13-0009 EA 45 Ton Packaged Air Cooled Scroll Water Chiller.....	45,302.41	2,182.79
23 64 23 13-0010 EA 50 Ton Packaged Air Cooled Scroll Water Chiller.....	47,826.73	2,245.67
23 64 23 13-0011 EA 55 Ton Packaged Air Cooled Scroll Water Chiller.....	49,951.40	2,344.48
23 64 23 13-0012 EA 60 Ton Packaged Air Cooled Scroll Water Chiller.....	51,629.60	2,425.32
23 64 23 13-0013 EA 70 Ton Packaged Air Cooled Scroll Water Chiller.....	59,550.53	2,730.73
23 64 23 13-0014 EA 80 Ton Packaged Air Cooled Scroll Water Chiller.....	64,112.94	2,991.23
23 64 23 13-0015 EA 90 Ton Packaged Air Cooled Scroll Water Chiller.....	65,270.29	3,000.21
23 64 23 13-0016 EA 100 Ton Packaged Air Cooled Scroll Water Chiller.....	69,025.11	3,009.19
23 64 23 13-0017 EA 110 Ton Packaged Air Cooled Scroll Water Chiller.....	72,679.54	3,018.17
23 64 23 13-0018 EA 120 Ton Packaged Air Cooled Scroll Water Chiller.....	76,379.38	3,027.15
23 64 23 13-0019 EA 130 Ton Packaged Air Cooled Scroll Water Chiller.....	80,270.39	3,036.15
23 64 23 16 Water-Cooled Scroll Water Chillers (23 64 23)		
23 64 23 16-0001 Packaged Water Cooled Scroll Water Chillers (23 64 23 16)		
Note: Integral heat exchanger. Rated by cooling capacity in tons. Units are factory assembled package type and include hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gauges, lead lag switch, compressor unloaders, removable core filter drier with 3 valve by-pass, sight glass, internal wiring, motor starters, insulation, fan cycling controls, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, refrigerant charge, vibration eliminators, phase monitoring for 3 phase units, start-up costs and equipment rigging. Units greater than 20 tons include dual compressors. Excludes piping and power wiring.		
23 64 23 16-0002 EA 20 Ton Packaged Water Cooled Scroll Water Chiller.....	40,464.09	1,764.93
23 64 23 16-0003 EA 25 Ton Packaged Water Cooled Scroll Water Chiller.....	46,715.71	1,818.25
23 64 23 16-0004 EA 30 Ton Packaged Water Cooled Scroll Water Chiller.....	51,841.01	1,996.05
23 64 23 16-0005 EA 40 Ton Packaged Water Cooled Scroll Water Chiller.....	63,644.21	2,511.71
23 64 23 16-0006 EA 50 Ton Packaged Water Cooled Scroll Water Chiller.....	70,426.49	2,752.59
23 64 23 16-0007 EA 60 Ton Packaged Water Cooled Scroll Water Chiller.....	73,892.56	3,041.26
23 64 26 Rotary-Screw Water Chillers (23 64)		
23 64 26 13 Air-Cooled, Rotary-Screw Water Chillers (23 64 26)		
23 64 26 13-0001 Packaged Air Cooled Rotary-Screw Water Chillers (23 64 26 13)		
Note: Includes hermetic direct-drive compressors start-up, coil guards, copper fins, copper tubes, factory wired and installed control panel, refrigerant monitor with scanner, audible alarm, and lights, phase monitoring for 3 phase units, 440/460 V motor, motor starters, factory charge of refrigerant and equipment rigging. Units greater than 20 tons include dual compressors. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 64 26 13-0002 EA 70 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add</i>	95,760.85 -1,359.07 3,624.19	3,440.37
23 64 26 13-0003 EA 80 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add</i>	102,909.94 -1,459.71 3,892.55	3,736.79
23 64 26 13-0004 EA 90 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add</i>	108,259.01 -1,536.17 4,096.45	3,898.48
23 64 26 13-0005 EA 100 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add</i>	112,225.79 -1,589.07 4,237.52	4,194.91
23 64 26 13-0006 EA 110 Ton Packaged Air Cooled Rotary-Screw Water Chiller..... <i>For Aluminum Fins Instead Of Copper, Deduct For 208/230 Volt Motor, Add</i>	120,466.79 -1,708.10 4,554.94	4,401.50

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 60 Central Cooling Equipment

23 64 Packaged Water Chillers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 64 26 13-0007 EA 120 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	128,058.22 -1,819.82 4,852.85	4,491.34
23 64 26 13-0008 EA 130 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	135,202.20 -1,923.61 5,129.63	4,644.03
23 64 26 13-0009 EA 140 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	139,536.67 -1,986.34 5,296.90	4,742.85
23 64 26 13-0010 EA 160 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	147,380.33 -2,101.70 5,604.53	4,841.66
23 64 26 13-0011 EA 170 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	153,853.15 -2,195.42 5,854.46	4,994.36
23 64 26 13-0012 EA 180 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	162,255.21 -2,317.01 6,178.69	5,191.98
23 64 26 13-0013 EA 200 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	169,635.40 -2,425.42 6,467.79	5,299.78
23 64 26 13-0014 EA 215 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	181,906.22 -2,607.33 6,952.87	5,389.60
23 64 26 13-0015 EA 225 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	190,062.82 -2,728.60 7,276.26	5,443.49
23 64 26 13-0016 EA 240 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	198,219.42 -2,849.87 7,599.65	5,488.41
23 64 26 13-0017 EA 260 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	222,635.31 -3,213.68 8,569.82	5,596.20
23 64 26 13-0018 EA 280 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	234,915.13 -3,395.59 9,054.90	5,704.00
23 64 26 13-0019 EA 300 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	251,228.33 -3,638.13 9,701.68	5,793.82
23 64 26 13-0020 EA 325 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	275,626.25 -4,001.94 10,671.85	5,892.63
23 64 26 13-0021 EA 350 Ton Packaged Air Cooled Rotary-Screw Water Chiller <i>For Aluminum Fins Instead Of Copper, Deduct</i> <i>For 208/230 Volt Motor, Add</i>	300,585.22 -4,374.58 11,665.54	5,964.49

23 64 26 16 Water-Cooled, Rotary-Screw Water Chillers (23 64 26)

23 64 26 16-0001 Packaged Water Cooled Helical Rotary Water Chillers (23 64 26 16)

Note: Integral heat exchanger. Rated by cooling capacity in tons. Factory assembled package type includes semi-hermetic compressor, motor, cooler, condenser, internal piping, oil, discharge/suction gages, lead-lag switch, compressor unloaders, removable core filter dryer, 3-valve by-pass, sight glass, internal wiring, motor starters, insulation, standard oil hi/low safety control switches, operation and safety controls, factory wired and installed control panel, full factory refrigerant charge, vibration eliminators, NEMA 1 flow switches, wye-delta starter, extended warranty on compressor(s), start-up costs and equipment rigging. Excludes piping and power wiring.

23 64 26 16-0002 EA 70 Ton Packaged Water Cooled Helical Rotary Water Chiller	78,897.03	4,243.56
23 64 26 16-0003 EA 80 Ton Packaged Water Cooled Helical Rotary Water Chiller	85,777.77	4,408.59
23 64 26 16-0004 EA 90 Ton Packaged Water Cooled Helical Rotary Water Chiller	91,744.68	4,526.47
23 64 26 16-0005 EA 100 Ton Packaged Water Cooled Helical Rotary Water Chiller	96,890.35	4,717.42
23 64 26 16-0006 EA 110 Ton Packaged Water Cooled Helical Rotary Water Chiller	102,039.36	4,847.09
23 64 26 16-0007 EA 125 Ton Packaged Water Cooled Helical Rotary Water Chiller	108,319.05	4,983.16
23 64 26 16-0008 EA 130 Ton Packaged Water Cooled Helical Rotary Water Chiller	111,097.31	5,122.45
23 64 26 16-0009 EA 150 Ton Packaged Water Cooled Helical Rotary Water Chiller	120,457.65	5,261.07
23 64 26 16-0010 EA 175 Ton Packaged Water Cooled Helical Rotary Water Chiller	129,559.11	5,391.31
23 64 26 16-0011 EA 190 Ton Packaged Water Cooled Helical Rotary Water Chiller	133,954.63	5,660.90
23 64 26 16-0012 EA 200 Ton Packaged Water Cooled Helical Rotary Water Chiller	168,528.28	5,933.91
23 64 26 16-0013 EA 210 Ton Packaged Water Cooled Helical Rotary Water Chiller	170,781.35	6,060.94
23 64 26 16-0014 EA 235 Ton Packaged Water Cooled Helical Rotary Water Chiller	185,877.57	6,193.52
23 64 26 16-0015 EA 255 Ton Packaged Water Cooled Helical Rotary Water Chiller	197,553.99	6,477.00
23 64 26 16-0016 EA 275 Ton Packaged Water Cooled Helical Rotary Water Chiller	208,604.94	6,739.15
23 64 26 16-0017 EA 300 Ton Packaged Water Cooled Helical Rotary Water Chiller	221,494.85	7,006.12
23 64 26 16-0018 EA 350 Ton Packaged Water Cooled Helical Rotary Water Chiller	243,140.69	7,627.09
23 64 26 16-0019 EA 400 Ton Packaged Water Cooled Helical Rotary Water Chiller	260,726.37	8,389.05
23 64 26 16-0020 EA 450 Ton Packaged Water Cooled Helical Rotary Water Chiller	274,267.59	9,228.33

23 65 Cooling Towers (23 60)

23 65 13 Forced-Draft Cooling Towers (23 65)

23 65 13 16 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13)

23 65 13 16-0001 Closed-Circuit, Forced-Draft Cooling Towers (23 65 13 16)



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 65 13 16-0002**Blow-Thru Centrifugal Fan Type Cooling Towers** (23 65 13 16-0001)

Note: Including 2-speed motor internal piping, vibration switch, basin, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Design temperature 95 degree F in, 85 degree F out. Excludes crane and associated personnel.

23 65 13 16-0003	EA		50 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	15,252.89 7,809.72	1,491.12
23 65 13 16-0004	EA		75 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	21,002.93 10,968.71	1,823.49
23 65 13 16-0005	EA		100 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	26,351.57 13,601.20	2,290.58
23 65 13 16-0006	EA		125 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	30,383.25 15,761.51	2,560.06
23 65 13 16-0007	EA		150 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	34,720.65 18,051.36	2,883.44
23 65 13 16-0008	EA		175 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	39,038.28 20,307.78	3,233.76
23 65 13 16-0009	EA		200 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	43,809.70 22,814.92	3,602.05
23 65 13 16-0010	EA		225 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	47,889.12 24,820.62	4,060.16
23 65 13 16-0011	EA		250 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	52,182.42 26,960.04	4,509.30
23 65 13 16-0012	EA		275 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	57,179.99 29,166.32	5,335.70
23 65 13 16-0013	EA		300 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	62,153.47 31,589.88	5,910.59
23 65 13 16-0014	EA		325 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	65,496.10 33,261.31	6,287.87
23 65 13 16-0015	EA		350 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	69,407.07 35,225.23	6,656.15
23 65 13 16-0016	EA		375 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	73,201.26 37,189.15	6,979.53
23 65 13 16-0017	EA		400 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	77,543.61 39,487.35	7,302.90
23 65 13 16-0018	EA		425 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	82,151.01 41,869.13	7,698.14
23 65 13 16-0019	EA		450 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	87,376.21 44,626.97	8,093.38
23 65 13 16-0020	EA		475 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	92,450.93 47,343.04	8,434.72
23 65 13 16-0021	EA		500 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	97,534.62 50,059.10	8,776.07
23 65 13 16-0022	EA		550 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	107,172.03 55,491.22	9,144.35
23 65 13 16-0023	EA		600 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	117,645.16 61,424.77	9,503.67
23 65 13 16-0024	EA		650 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	121,895.57 63,931.90	9,701.28
23 65 13 16-0025	EA		700 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	126,981.69 66,940.46	9,827.04
23 65 13 16-0026	EA		750 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	132,925.73 70,032.59	10,330.07
23 65 13 16-0027	EA		800 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	139,844.74 73,709.72	10,833.09
23 65 13 16-0028	EA		850 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	146,835.64 77,386.85	11,381.04
23 65 13 16-0029	EA		900 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	154,940.80 81,732.55	11,928.99
23 65 13 16-0030	EA		950 Ton Blow-Thru Centrifugal Fan Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	163,311.02 86,161.82	12,557.77
23 65 13 16-0031	EA		1,000 Ton Centrifugal Type Cooling Tower <i>For Stainless Steel Cooling Tower, Add</i>	172,786.51 91,259.66	13,186.56

23 65 14 Induced-Draft Cooling Towers (23 65)**23 65 14 13 Open-Circuit, Induced-Draft Counterflow Cooling Towers** (23 65 14)**23 65 14 13-0001 Galvanized Induced Draft Axial Single Flow Propeller Type Cooling Towers**(23 65 14 13)

Note: Includes internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.

23 65 14 13-0002	EA		10 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	7,797.82 943.31 1,886.62	1,006.05
23 65 14 13-0003	EA		20 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	9,239.81 1,140.75 2,281.49	1,086.90
23 65 14 13-0004	EA		30 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	11,046.19 1,382.06 2,764.12	1,221.64
23 65 14 13-0005	EA		40 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	12,258.56 1,535.62 3,071.24	1,347.40

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 60 Central Cooling Equipment

23 65 Cooling Towers



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 13-0006 EA 50 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	14,521.64 1,842.74 3,685.49	1,491.12
23 65 14 13-0007 EA 60 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	16,892.73 2,172.81 4,345.61	1,607.90
23 65 14 13-0008 EA 75 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	19,394.19 2,500.87 5,001.73	1,823.49
23 65 14 13-0009 EA 100 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	24,157.82 3,071.24 6,142.48	2,290.58
23 65 14 13-0010 EA 125 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	26,343.98 3,334.49 6,668.98	2,560.06
23 65 14 13-0011 EA 150 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	40,204.53 5,335.42 10,670.84	2,883.44
23 65 14 13-0012 EA 200 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	48,653.35 6,430.28 12,860.55	3,602.05
23 65 14 13-0013 EA 300 Ton Induced Draft Axial Single Flow Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	62,980.55 8,021.53 16,043.06	5,910.59
23 65 14 13-0014 Galvanized Induced Draft Double Flow Propeller Type Packaged Cooling Towers <small>(23 65 14 13)</small> Note: 3 GPM/ton draft. Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel.		
23 65 14 13-0015 EA 100 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	24,157.82 3,071.24 6,142.48	2,290.58
23 65 14 13-0016 EA 150 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	32,178.70 4,131.55 8,263.10	2,883.44
23 65 14 13-0017 EA 200 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	40,884.71 5,264.98 10,529.96	3,602.05
23 65 14 13-0018 EA 250 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	48,519.22 6,190.53 12,381.06	4,509.30
23 65 14 13-0019 EA 300 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	57,675.45 7,225.77 14,451.53	5,910.59
23 65 14 13-0020 EA 350 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	64,288.34 8,038.50 16,076.99	6,656.15
23 65 14 13-0021 EA 400 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	71,693.64 8,994.34 17,988.68	7,302.90
23 65 14 13-0022 EA 450 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	81,247.67 10,237.46 20,474.93	8,093.38
23 65 14 13-0023 EA 500 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	91,615.00 11,626.83 23,253.66	8,776.07
23 65 14 13-0024 EA 550 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	98,118.49 12,514.77 25,029.55	9,252.15
23 65 14 13-0025 EA 600 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	105,147.10 13,481.48 26,962.97	9,503.67
23 65 14 13-0026 EA 700 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	119,251.36 15,575.57 31,151.13	9,827.04
23 65 14 13-0027 EA 800 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	130,791.20 17,069.40 34,138.80	10,833.09
23 65 14 13-0028 EA 900 Ton Induced Draft Double Flow Propeller Type Packaged Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	144,494.41 18,866.18 37,732.36	11,928.99
23 65 14 13-0029 Stainless Steel Packaged Propeller Type Cooling Towers <small>(23 65 14 13)</small> Note: Including internal piping, fan, motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping or power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 79 degree F wet Bulb. 3 GPM/ton.		
23 65 14 13-0030 Draw-Thru Stainless Steel Propeller Type Cooling Towers <small>(23 65 14 13-0029)</small> Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 65 14 13-0031 EA 50 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	27,959.19	1,491.12
23 65 14 13-0032 EA 75 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	39,717.97	1,823.49
23 65 14 13-0033 EA 100 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	46,832.01	2,290.58
23 65 14 13-0034 EA 125 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	53,087.38	2,560.06



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 13-0035 EA 150 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	58,242.76	2,883.44
23 65 14 13-0036 EA 200 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	69,851.15	3,602.05
23 65 14 13-0037 EA 250 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	82,227.50	4,509.30
23 65 14 13-0038 EA 300 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	97,517.60	5,910.59
23 65 14 13-0039 EA 350 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	106,771.52	6,656.15
23 65 14 13-0040 EA 400 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	121,033.89	7,302.90
23 65 14 13-0041 EA 500 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	140,325.77	8,776.07
23 65 14 13-0042 EA 600 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	158,384.39	9,503.67
23 65 14 13-0043 EA 750 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	195,813.10	10,330.07
23 65 14 13-0044 EA 1,000 Ton Draw-Thru Stainless Steel Propeller Type Cooling Tower	249,366.19	13,042.83
23 65 14 13-0045 Belt Driven Stainless Steel Propeller Type Cooling Towers ^(23 65 14 13-0029)		
Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 65 14 13-0046 EA 100 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	48,774.51	2,290.58
23 65 14 13-0047 EA 125 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	52,784.99	2,560.06
23 65 14 13-0048 EA 150 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	56,888.60	2,883.44
23 65 14 13-0049 EA 200 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	67,290.73	3,602.05
23 65 14 13-0050 EA 250 Ton Belt Driven Stainless Steel Propeller Type Cooling Tower	74,211.00	4,509.30
23 65 14 13-0051 Fiberglass Packaged Draw-Thru Propeller Type Cooling Towers ^(23 65 14 13)		
Note: Includes internal piping, fan, 2-speed motor, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Rated by cooling capacity in tons. Based on design water temperature 95 degree F in, 85 degree F out 78 degree F wet bulb. 3 GPM/ton. Excludes crane and associated personnel.		
23 65 14 13-0052 EA 5 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	3,358.90	934.20
23 65 14 13-0053 EA 8 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	3,535.45	979.11
23 65 14 13-0054 EA 10 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	4,084.34	1,006.05
23 65 14 13-0055 EA 15 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	4,594.32	1,024.03
23 65 14 13-0056 EA 20 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	5,973.33	1,113.85
23 65 14 13-0057 EA 25 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	6,315.89	1,167.74
23 65 14 13-0058 EA 30 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	7,119.06	1,221.64
23 65 14 13-0059 EA 40 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	8,197.52	1,347.40
23 65 14 13-0060 EA 50 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	9,145.90	1,491.12
23 65 14 13-0061 EA 60 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	10,237.80	1,607.90
23 65 14 13-0062 EA 70 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	11,787.33	1,733.65
23 65 14 13-0063 EA 80 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	12,848.03	1,976.18
23 65 14 13-0064 EA 100 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	15,565.14	2,290.58
23 65 14 13-0065 EA 125 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	19,188.70	2,560.06
23 65 14 13-0066 EA 150 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	21,552.15	2,883.44
23 65 14 13-0067 EA 175 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	26,118.51	3,233.76
23 65 14 13-0068 EA 200 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	29,129.60	3,602.05
23 65 14 13-0069 EA 225 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	32,211.12	4,060.16
23 65 14 13-0070 EA 250 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	35,158.04	4,509.30
23 65 14 13-0071 EA 300 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	42,217.73	5,910.59
23 65 14 13-0072 EA 350 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	47,966.22	6,656.15
23 65 14 13-0073 EA 400 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	53,291.30	7,302.90
23 65 14 13-0074 EA 500 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	64,770.33	8,596.41
23 65 14 13-0075 EA 600 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	73,894.14	9,503.67
23 65 14 13-0076 EA 700 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	77,762.34	7,302.90
23 65 14 13-0077 EA 800 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	89,395.35	10,833.09
23 65 14 13-0078 EA 1,000 Ton Draw-Thru Fiberglass Packaged Propeller Type Cooling Tower	101,566.23	9,027.58
23 65 14 14 Open-Circuit, Induced-Draft Crossflow Cooling Towers ^(23 65 14)		
23 65 14 14-0001 Galvanized Induced Draft Crossflow Film Filled Propeller Type Cooling Towers ^(23 65 14 14)		
Note: Includes fan, 2-speed motor, geared speed reducer, louvers, drift eliminators, hot water distribution system, cold water collection basin, float valve and access door, vibration switch, start-up costs and equipment rigging. Excludes motor starter, piping and power wiring. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 65 14 14-0002 EA 10 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	6,631.33	1,006.05
For Polymer Coating Over Galvanized Components, Add	768.34	
For Stainless Steel Support Structure, Add	1,536.67	
23 65 14 14-0003 EA 15 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	7,154.92	1,024.03
For Polymer Coating Over Galvanized Components, Add	844.18	
For Stainless Steel Support Structure, Add	1,688.36	
23 65 14 14-0004 EA 20 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	7,782.29	1,113.85
For Polymer Coating Over Galvanized Components, Add	916.73	
For Stainless Steel Support Structure, Add	1,833.45	
23 65 14 14-0005 EA 25 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	9,094.23	1,167.74
For Polymer Coating Over Galvanized Components, Add	1,101.39	
For Stainless Steel Support Structure, Add	2,202.78	
23 65 14 14-0006 EA 30 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	10,296.25	1,221.64
For Polymer Coating Over Galvanized Components, Add	1,269.57	
For Stainless Steel Support Structure, Add	2,539.13	
23 65 14 14-0007 EA 35 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	11,472.26	1,284.52
For Polymer Coating Over Galvanized Components, Add	1,431.15	
For Stainless Steel Support Structure, Add	2,862.30	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 14-0008 EA 40 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	12,551.36	1,347.40
For Polymer Coating Over Galvanized Components, Add	1,579.54	
For Stainless Steel Support Structure, Add	3,159.08	
23 65 14 14-0009 EA 45 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	13,749.37	1,419.27
For Polymer Coating Over Galvanized Components, Add	1,744.42	
For Stainless Steel Support Structure, Add	3,488.84	
23 65 14 14-0010 EA 50 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	14,921.37	1,491.12
For Polymer Coating Over Galvanized Components, Add	1,902.70	
For Stainless Steel Support Structure, Add	3,805.40	
23 65 14 14-0011 EA 60 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	17,224.47	1,607.90
For Polymer Coating Over Galvanized Components, Add	2,222.57	
For Stainless Steel Support Structure, Add	4,445.13	
23 65 14 14-0012 EA 70 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	19,721.41	1,733.65
For Polymer Coating Over Galvanized Components, Add	2,568.81	
For Stainless Steel Support Structure, Add	5,137.63	
23 65 14 14-0013 EA 75 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	20,880.41	1,823.49
For Polymer Coating Over Galvanized Components, Add	2,723.80	
For Stainless Steel Support Structure, Add	5,447.60	
23 65 14 14-0014 EA 80 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	22,147.20	1,976.18
For Polymer Coating Over Galvanized Components, Add	2,878.79	
For Stainless Steel Support Structure, Add	5,757.57	
23 65 14 14-0015 EA 90 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	23,084.22	2,128.89
For Polymer Coating Over Galvanized Components, Add	2,984.31	
For Stainless Steel Support Structure, Add	5,968.61	
23 65 14 14-0016 EA 100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	24,831.36	2,290.58
For Polymer Coating Over Galvanized Components, Add	3,172.27	
For Stainless Steel Support Structure, Add	6,344.54	
23 65 14 14-0017 EA 125 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	25,856.09	2,560.06
For Polymer Coating Over Galvanized Components, Add	3,261.30	
For Stainless Steel Support Structure, Add	6,522.61	
23 65 14 14-0018 EA 150 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	30,026.40	2,883.44
For Polymer Coating Over Galvanized Components, Add	3,808.70	
For Stainless Steel Support Structure, Add	7,617.41	
23 65 14 14-0019 EA 175 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	33,177.42	3,233.76
For Polymer Coating Over Galvanized Components, Add	4,197.82	
For Stainless Steel Support Structure, Add	8,395.63	
23 65 14 14-0020 EA 200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	34,935.43	3,602.05
For Polymer Coating Over Galvanized Components, Add	4,372.59	
For Stainless Steel Support Structure, Add	8,745.18	
23 65 14 14-0021 EA 225 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	40,376.55	4,060.16
For Polymer Coating Over Galvanized Components, Add	5,078.27	
For Stainless Steel Support Structure, Add	10,156.54	
23 65 14 14-0022 EA 250 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	44,269.82	4,509.30
For Polymer Coating Over Galvanized Components, Add	5,553.12	
For Stainless Steel Support Structure, Add	11,106.24	
23 65 14 14-0023 EA 275 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	47,370.96	5,335.70
For Polymer Coating Over Galvanized Components, Add	5,820.23	
For Stainless Steel Support Structure, Add	11,640.45	
23 65 14 14-0024 EA 300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	51,119.10	5,910.59
For Polymer Coating Over Galvanized Components, Add	6,242.31	
For Stainless Steel Support Structure, Add	12,484.63	
23 65 14 14-0025 EA 350 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	58,425.30	6,656.15
For Polymer Coating Over Galvanized Components, Add	7,159.04	
For Stainless Steel Support Structure, Add	14,318.08	
23 65 14 14-0026 EA 400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	64,404.66	7,302.90
For Polymer Coating Over Galvanized Components, Add	7,901.00	
For Stainless Steel Support Structure, Add	15,801.99	
23 65 14 14-0027 EA 450 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	71,189.17	8,093.38
For Polymer Coating Over Galvanized Components, Add	8,728.69	
For Stainless Steel Support Structure, Add	17,457.38	
23 65 14 14-0028 EA 500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	77,570.17	8,776.07
For Polymer Coating Over Galvanized Components, Add	9,520.11	
For Stainless Steel Support Structure, Add	19,040.21	
23 65 14 14-0029 EA 600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	88,630.65	9,503.67
For Polymer Coating Over Galvanized Components, Add	11,004.02	
For Stainless Steel Support Structure, Add	22,008.03	
23 65 14 14-0030 EA 700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	99,348.59	9,827.04
For Polymer Coating Over Galvanized Components, Add	12,590.15	
For Stainless Steel Support Structure, Add	25,180.30	
23 65 14 14-0031 EA 800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	111,042.11	10,833.09
For Polymer Coating Over Galvanized Components, Add	14,107.04	
For Stainless Steel Support Structure, Add	28,214.07	
23 65 14 14-0032 EA 900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	122,395.72	11,928.99
For Polymer Coating Over Galvanized Components, Add	15,551.38	
For Stainless Steel Support Structure, Add	31,102.75	
23 65 14 14-0033 EA 1,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	133,530.18	13,186.56
For Polymer Coating Over Galvanized Components, Add	16,926.47	
For Stainless Steel Support Structure, Add	33,852.93	
23 65 14 14-0034 EA 1,100 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	146,112.74	13,824.33
For Polymer Coating Over Galvanized Components, Add	18,664.29	
For Stainless Steel Support Structure, Add	37,328.58	
23 65 14 14-0035 EA 1,200 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower	158,245.72	14,417.18
For Polymer Coating Over Galvanized Components, Add	20,342.76	
For Stainless Steel Support Structure, Add	40,685.51	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 65 14 14-0036 EA 1,300 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	168,341.97 21,566.16 43,132.31	15,656.79
23 65 14 14-0037 EA 1,400 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	178,120.31 22,720.31 45,440.62	16,986.22
23 65 14 14-0038 EA 1,500 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	187,553.75 23,805.21 47,610.42	18,387.52
23 65 14 14-0039 EA 1,600 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	196,257.00 24,814.27 49,628.54	19,654.07
23 65 14 14-0040 EA 1,700 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	204,773.02 25,750.78 51,501.56	21,100.28
23 65 14 14-0041 EA 1,800 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	213,186.66 26,618.05 53,236.09	22,771.07
23 65 14 14-0042 EA 1,900 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	221,085.76 27,409.46 54,818.93	24,441.84
23 65 14 14-0043 EA 2,000 Ton Induced Draft Crossflow Film Filled Propeller Type Cooling Tower <i>For Polymer Coating Over Galvanized Components, Add</i> <i>For Stainless Steel Support Structure, Add</i>	229,475.33 28,131.63 56,263.27	26,723.44
23 65 14 14-0044 Induced Draft Crossflow Stainless Steel Propeller Type Cooling Towers (23 65 <small>^{14 14}</small> Note: Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 65 14 14-0045 EA 100 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	66,460.78 3,138.89	2,290.58
23 65 14 14-0046 EA 125 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	75,325.87 3,560.59	2,542.09
23 65 14 14-0047 EA 150 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	82,328.43 3,884.67	2,883.44
23 65 14 14-0048 EA 200 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	91,547.31 4,288.12	3,602.05
23 65 14 14-0049 EA 250 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	103,723.17 4,823.71	4,509.30
23 65 14 14-0050 EA 300 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	119,134.88 5,481.56	5,910.59
23 65 14 14-0051 EA 350 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	129,808.71 5,955.52	6,656.15
23 65 14 14-0052 EA 400 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	140,320.84 6,429.47	7,302.90
23 65 14 14-0053 EA 500 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	161,982.50 7,393.99	8,776.07
23 65 14 14-0054 EA 600 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	182,936.51 8,383.30	9,503.67
23 65 14 14-0055 EA 750 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	226,479.81 10,470.64	10,330.07
23 65 14 14-0056 EA 1,000 Ton Induced Draft Crossflow Stainless Steel Propeller Type Cooling Tower..... <i>For Induced Draft Counter Flow Type, Add</i>	293,907.94 13,661.04	13,186.56
23 65 43 Cooling Tower Basins And Accessories (23 65)		
23 65 43 00-0001 Fiberglass Cooling Tower Remote Sump Basins (23 65 43) Note: Includes one inlet sleeve. Excludes cover, excavation, backfill, concrete cut and concrete patch. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 65 43 00-0002 EA 30" Diameter x 30" Depth, 92 Gallon Capacity, Fiberglass Cooling Tower Sump Basin..... <i>For Anti-Flotation Flanges, Add</i> <i>For Perforated Basins, Add</i>	945.88 115.00 80.00	
23 65 43 00-0003 EA 30" Diameter x 36" Depth, 110 Gallon Capacity, Fiberglass Cooling Tower Sump Basin..... <i>For Anti-Flotation Flanges, Add</i> <i>For Perforated Basins, Add</i>	1,072.42 115.00 80.00	
23 65 43 00-0004 EA 36" Diameter x 30" Depth, 132 Gallon Capacity, Fiberglass Cooling Tower Sump Basin..... <i>For Anti-Flotation Flanges, Add</i> <i>For Perforated Basins, Add</i>	1,044.20 253.00 80.00	
23 65 43 00-0005 EA 36" Diameter x 36" Depth, 159 Gallon Capacity, Fiberglass Cooling Tower Sump Basin..... <i>For Anti-Flotation Flanges, Add</i> <i>For Perforated Basins, Add</i>	1,229.00 253.00 80.00	
23 65 43 00-0006 EA 42" Diameter x 30" Depth, 180 Gallon Capacity, Fiberglass Cooling Tower Sump Basin..... <i>For Anti-Flotation Flanges, Add</i> <i>For Perforated Basins, Add</i>	1,338.86 276.00 100.00	
23 65 43 00-0007 EA 42" Diameter x 36" Depth, 216 Gallon Capacity, Fiberglass Cooling Tower Sump Basin..... <i>For Anti-Flotation Flanges, Add</i> <i>For Perforated Basins, Add</i>	1,483.75 276.00 100.00	
23 65 43 00-0008 EA 42" Diameter x 42" Depth, 252 Gallon Capacity, Fiberglass Cooling Tower Sump Basin..... <i>For Anti-Flotation Flanges, Add</i> <i>For Perforated Basins, Add</i>	1,628.66 276.00 100.00	
23 65 43 00-0009 EA 48" Diameter x 36" Depth, 282 Gallon Capacity, Fiberglass Cooling Tower Sump Basin..... <i>For Anti-Flotation Flanges, Add</i> <i>For Perforated Basins, Add</i>	1,632.15 294.00 140.00	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 60 Central Cooling Equipment****23 65 Cooling Towers**MINOR
CSI UOM DESCRIPTIONTOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 65 43 00-0010	EA	48" Diameter x 42" Depth, 329 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	1,798.73	
		<i>For Anti-Flotation Flanges, Add</i>	294.00	
		<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0011	EA	48" Diameter x 48" Depth, 376 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,056.83	
		<i>For Anti-Flotation Flanges, Add</i>	294.00	
		<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0012	EA	48" Diameter x 54" Depth, 423 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,316.59	
		<i>For Anti-Flotation Flanges, Add</i>	294.00	
		<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0013	EA	48" Diameter x 60" Depth, 470 Gallon Capacity, Fiberglass Cooling Tower Sump Basin.....	2,479.84	
		<i>For Anti-Flotation Flanges, Add</i>	294.00	
		<i>For Perforated Basins, Add</i>	140.00	
23 65 43 00-0014		Cooling Tower Accessories (23 65 43)		
23 65 43 00-0015	EA	2" Deflection Vibration Isolator, Cooling Tower Accessory (M.M. Sausse RMLS-SB-EQ).....	21,103.72	
23 65 43 00-0016	EA	3" Deflection Vibration Isolator, Cooling Tower Accessory (M.M. Sausse RMLS-SB-EQ).....	24,554.52	

23 70 Central HVAC Equipment (23)

Note: New air filters shall be provided on HVAC equipment prior to turning over to owner. Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 71 Thermal Storage (23 70)**23 71 13 Thermal Heat Storage (23 71)****23 71 13 23 Pressurized-Water Thermal Storage Tanks (23 71 13)****23 71 13 23-0001 Nickelshield Storage Tanks (23 71 13 23)**

23 71 13 23-0002	EA	325 Gallon Nickelshield Storage Tank.....	17,294.05	171.18
23 71 13 23-0003	EA	490 Gallon Nickelshield Storage Tank.....	24,128.73	226.96
23 71 13 23-0004	EA	605 Gallon Nickelshield Storage Tank.....	27,630.02	274.52
23 71 13 23-0005	EA	740 Gallon Nickelshield Storage Tank.....	32,721.98	343.14
23 71 13 23-0006	EA	940 Gallon Nickelshield Storage Tank.....	38,093.78	456.15
23 71 13 23-0007	EA	1,505 Gallon Nickelshield Storage Tank.....	49,259.50	686.36
23 71 13 23-0008	EA	1,615 Gallon Nickelshield Storage Tank.....	55,625.86	773.07
23 71 13 23-0009	EA	2,275 Gallon Nickelshield Storage Tank.....	76,374.73	1,026.85
23 71 13 23-0010	EA	3,815 Gallon Nickelshield Storage Tank.....	98,766.22	1,193.75

23 72 Air-To-Air Energy Recovery Equipment (23 70)**23 72 13 Heat-Wheel Air-To-Air Energy-Recovery Equipment (23 72)****23 72 13 00-0001 Enthalpy Recovery Wheel (23 72 13)**

23 72 13 00-0002	EA	Up To 1,000 CFM Enthalpy Recovery Wheel.....	6,467.46	642.61
23 72 13 00-0003	EA	>1,000 To 2,000 CFM Enthalpy Recovery Wheel.....	7,213.22	771.32
23 72 13 00-0004	EA	>2,000 To 4,000 CFM Enthalpy Recovery Wheel.....	9,025.30	964.15
23 72 13 00-0005	EA	>4,000 To 6,000 CFM Enthalpy Recovery Wheel.....	10,539.43	1,101.54
23 72 13 00-0006	EA	>6,000 To 8,000 CFM Enthalpy Recovery Wheel.....	11,625.68	1,156.98
23 72 13 00-0007	EA	>8,000 To 10,000 CFM Enthalpy Recovery Wheel.....	14,060.08	1,285.69
23 72 13 00-0008	EA	>10,000 To 15,000 CFM Enthalpy Recovery Wheel.....	18,470.29	1,349.81
23 72 13 00-0009	EA	>15,000 To 20,000 CFM Enthalpy Recovery Wheel.....	22,870.34	1,446.22
23 72 13 00-0010	EA	>20,000 To 25,000 CFM Enthalpy Recovery Wheel.....	27,638.97	1,652.55
23 72 13 00-0011	EA	>25,000 To 30,000 CFM Enthalpy Recovery Wheel.....	31,129.60	2,121.14
23 72 13 00-0012	EA	>30,000 To 40,000 CFM Enthalpy Recovery Wheel.....	41,469.79	2,410.38
23 72 13 00-0013	EA	>40,000 To 50,000 CFM Enthalpy Recovery Wheel.....	49,338.56	2,892.45

23 72 16 Heat-Pipe Air-To-Air Energy-Recovery Equipment (23 72)**23 72 16 00-0001 Glycol Heat Pipe Type, 50 Percent Efficient (23 72 16)**

23 72 16 00-0002	EA	100 MBH, 1,700 CFM Glycol Heat Recovery Unit.....	11,268.87	482.07
23 72 16 00-0003	EA	160 MBH, 2,700 CFM Glycol Heat Recovery Unit.....	17,651.84	642.80
23 72 16 00-0004	EA	620 MBH, 4,000 CFM Glycol Heat Recovery Unit.....	26,174.69	964.15

23 73 Indoor Central-Station Air-Handling Units (23 70)**23 73 13 Modular Indoor Central-Station Air-Handling Units (23 73)**

Note: Sized by CFM. Includes motor drive vibration isolators. Use modifiers for Filters and heating and cooling coils. Includes double wall insulated casing, fan section, fan motor, internal dampers, starter, vibration isolators and equipment rigging. Variable speed drives are included on units with 10 HP or greater fans. Modifiers include cooling coil sections with 6 row aluminum fin coil and drain pan, heating coil section with 1 row aluminum fin coil, and filter section with replaceable filters.

23 73 13 00-0001 Single Zone Units (23 73 13)

Note: Horizontal/vertical draw-thru fan, motor and cabinet.



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0002 EA 300 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	2,010.96	470.39
For Flat Filter Box And Throwaway Filters, Add	167.50	
For Medium Capacity Filter Box And Throwaway Filters, Add	314.83	
For Combination Filter Mixing Box And Throwaway Filters, Add	468.89	
For Manual Roll Filter, Add	803.63	
For Automatic Roll Filter, Add	870.58	
For Hot Water Heating Coil, Aluminum Fins, Add	401.94	
For Electric Heating Coil, Add	669.74	
For Chilled Water Cooling Coil, Aluminum Fins, Add	669.74	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	602.79	
For Steam Heating Coil, Aluminum Fins, Add	535.84	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	435.29	
For Chilled Water Cooling Coil, Copper Fins, Add	803.63	
For Direct Expansion Cooling Coil, Copper Fins, Add	736.68	
For Hot Water Heating Coil, Copper Fins, Add	535.84	
For Variable Air Volume, Add	187.46	
For Economizer, Panel, Controls And Damper(s), Add	1,110.39	
For 2 Coils, Independent Circuits, Add	227.88	
23 73 13 00-0003 EA 500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	3,174.69	564.47
For Flat Filter Box And Throwaway Filters, Add	277.18	
For Medium Capacity Filter Box And Throwaway Filters, Add	530.19	
For Combination Filter Mixing Box And Throwaway Filters, Add	791.26	
For Manual Roll Filter, Add	1,383.50	
For Automatic Roll Filter, Add	1,501.94	
For Hot Water Heating Coil, Aluminum Fins, Add	672.81	
For Electric Heating Coil, Add	1,146.60	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,146.60	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,028.15	
For Steam Heating Coil, Aluminum Fins, Add	909.71	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	750.97	
For Chilled Water Cooling Coil, Copper Fins, Add	1,383.50	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,265.05	
For Hot Water Heating Coil, Copper Fins, Add	909.71	
For Variable Air Volume, Add	331.65	
For Economizer, Panel, Controls And Damper(s), Add	1,204.02	
For 2 Coils, Independent Circuits, Add	364.85	
23 73 13 00-0004 EA 800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	3,588.45	606.22
For Flat Filter Box And Throwaway Filters, Add	315.55	
For Medium Capacity Filter Box And Throwaway Filters, Add	605.11	
For Combination Filter Mixing Box And Throwaway Filters, Add	903.34	
For Manual Roll Filter, Add	1,583.96	
For Automatic Roll Filter, Add	1,720.09	
For Hot Water Heating Coil, Aluminum Fins, Add	767.22	
For Electric Heating Coil, Add	1,311.71	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,311.71	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,175.59	
For Steam Heating Coil, Aluminum Fins, Add	1,039.47	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	860.04	
For Chilled Water Cooling Coil, Copper Fins, Add	1,583.96	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,447.84	
For Hot Water Heating Coil, Copper Fins, Add	1,039.47	
For Variable Air Volume, Add	381.15	
For Economizer, Panel, Controls And Damper(s), Add	1,246.18	
For 2 Coils, Independent Circuits, Add	413.29	
23 73 13 00-0005 EA 1,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	4,048.51	651.41
For Flat Filter Box And Throwaway Filters, Add	358.31	
For Medium Capacity Filter Box And Throwaway Filters, Add	688.71	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,028.41	
For Manual Roll Filter, Add	1,807.85	
For Automatic Roll Filter, Add	1,963.74	
For Hot Water Heating Coil, Aluminum Fins, Add	872.52	
For Electric Heating Coil, Add	1,496.07	
For Chilled Water Cooling Coil, Aluminum Fins, Add	1,496.07	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,340.18	
For Steam Heating Coil, Aluminum Fins, Add	1,184.29	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	981.87	
For Chilled Water Cooling Coil, Copper Fins, Add	1,807.85	
For Direct Expansion Cooling Coil, Copper Fins, Add	1,651.96	
For Hot Water Heating Coil, Copper Fins, Add	1,184.29	
For Variable Air Volume, Add	436.49	
For Economizer, Panel, Controls And Damper(s), Add	1,291.52	
For 2 Coils, Independent Circuits, Add	467.21	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 73 Indoor Central-Station Air-Handling Units



MINOR		TOTAL DIRECT	DEMOLITION
CSI	UOM DESCRIPTION	UNIT COST	UNIT COST
23 73 13 00-0006	EA 1,200 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	4,590.99	700.81
	For Flat Filter Box And Throwaway Filters, Add	409.10	
	For Medium Capacity Filter Box And Throwaway Filters, Add	788.20	
	For Combination Filter Mixing Box And Throwaway Filters, Add	1,177.30	
	For Manual Roll Filter, Add	2,075.05	
	For Automatic Roll Filter, Add	2,254.60	
	For Hot Water Heating Coil, Aluminum Fins, Add	997.75	
	For Electric Heating Coil, Add	1,715.95	
	For Chilled Water Cooling Coil, Aluminum Fins, Add	1,715.95	
	For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,536.40	
	For Steam Heating Coil, Aluminum Fins, Add	1,356.85	
	For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,127.30	
	For Chilled Water Cooling Coil, Copper Fins, Add	2,075.05	
	For Direct Expansion Cooling Coil, Copper Fins, Add	1,895.50	
	For Hot Water Heating Coil, Copper Fins, Add	1,356.85	
	For Variable Air Volume, Add	502.74	
	For Economizer, Panel, Controls And Damper(s), Add	1,339.99	
	For 2 Coils, Independent Circuits, Add	530.92	
23 73 13 00-0007	EA 1,400 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	5,223.63	753.14
	For Flat Filter Box And Throwaway Filters, Add	468.57	
	For Medium Capacity Filter Box And Throwaway Filters, Add	904.86	
	For Combination Filter Mixing Box And Throwaway Filters, Add	1,351.91	
	For Manual Roll Filter, Add	2,388.85	
	For Automatic Roll Filter, Add	2,596.24	
	For Hot Water Heating Coil, Aluminum Fins, Add	1,144.53	
	For Electric Heating Coil, Add	1,974.08	
	For Chilled Water Cooling Coil, Aluminum Fins, Add	1,974.08	
	For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,766.69	
	For Steam Heating Coil, Aluminum Fins, Add	1,559.30	
	For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,298.12	
	For Chilled Water Cooling Coil, Copper Fins, Add	2,388.85	
	For Direct Expansion Cooling Coil, Copper Fins, Add	2,181.46	
	For Hot Water Heating Coil, Copper Fins, Add	1,559.30	
	For Variable Air Volume, Add	580.69	
	For Economizer, Panel, Controls And Damper(s), Add	1,393.12	
	For 2 Coils, Independent Circuits, Add	605.32	
23 73 13 00-0008	EA 1,600 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	5,719.54	809.67
	For Flat Filter Box And Throwaway Filters, Add	514.24	
	For Medium Capacity Filter Box And Throwaway Filters, Add	993.86	
	For Combination Filter Mixing Box And Throwaway Filters, Add	1,485.02	
	For Manual Roll Filter, Add	2,626.34	
	For Automatic Roll Filter, Add	2,854.61	
	For Hot Water Heating Coil, Aluminum Fins, Add	1,256.75	
	For Electric Heating Coil, Add	2,169.81	
	For Chilled Water Cooling Coil, Aluminum Fins, Add	2,169.81	
	For Direct Expansion Cooling Coil, Aluminum Fins, Add	1,941.55	
	For Steam Heating Coil, Aluminum Fins, Add	1,713.28	
	For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,427.30	
	For Chilled Water Cooling Coil, Copper Fins, Add	2,626.34	
	For Direct Expansion Cooling Coil, Copper Fins, Add	2,398.08	
	For Hot Water Heating Coil, Copper Fins, Add	1,713.28	
	For Variable Air Volume, Add	639.14	
	For Economizer, Panel, Controls And Damper(s), Add	1,447.96	
	For 2 Coils, Independent Circuits, Add	663.26	
23 73 13 00-0009	EA 1,800 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	6,256.97	872.58
	For Flat Filter Box And Throwaway Filters, Add	563.38	
	For Medium Capacity Filter Box And Throwaway Filters, Add	1,089.38	
	For Combination Filter Mixing Box And Throwaway Filters, Add	1,627.84	
	For Manual Roll Filter, Add	2,880.51	
	For Automatic Roll Filter, Add	3,131.05	
	For Hot Water Heating Coil, Aluminum Fins, Add	1,377.30	
	For Electric Heating Coil, Add	2,379.44	
	For Chilled Water Cooling Coil, Aluminum Fins, Add	2,379.44	
	For Direct Expansion Cooling Coil, Aluminum Fins, Add	2,128.91	
	For Steam Heating Coil, Aluminum Fins, Add	1,878.37	
	For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	1,565.52	
	For Chilled Water Cooling Coil, Copper Fins, Add	2,880.51	
	For Direct Expansion Cooling Coil, Copper Fins, Add	2,629.98	
	For Hot Water Heating Coil, Copper Fins, Add	1,878.37	
	For Variable Air Volume, Add	701.50	
	For Economizer, Panel, Controls And Damper(s), Add	1,435.45	
	For 2 Coils, Independent Circuits, Add	725.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0010 EA 2,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	6,848.27 618.00 1,195.91 1,787.18 3,165.12 3,440.71 1,511.59 2,613.95 2,613.95 2,338.36 2,062.77 1,720.36 3,165.12 2,889.54 2,062.77 771.65 1,485.08 795.06	935.50
23 73 13 00-0011 EA 2,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	7,393.67 667.54 1,291.99 1,930.80 3,420.09 3,717.95 1,632.94 2,824.38 2,824.38 2,526.52 2,228.66 1,858.98 3,420.09 3,122.24 2,228.66 834.00 1,540.08 858.51	1,005.56
23 73 13 00-0012 EA 2,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	7,975.92 720.32 1,394.27 2,083.67 3,691.27 4,012.79 1,762.15 3,048.23 3,048.23 2,726.71 2,405.19 2,006.40 3,691.27 3,369.75 2,405.19 900.26 1,600.04 926.20	1,081.99
23 73 13 00-0013 EA 3,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	9,277.34 838.28 1,622.88 2,425.38 4,297.43 4,671.84 2,050.97 3,548.61 3,548.61 3,174.20 2,799.79 2,335.92 4,297.43 3,923.02 2,799.79 1,048.35 1,734.02 1,077.50	1,252.43

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0014 EA 3,250 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	9,717.70	1,345.92
For Flat Filter Box And Throwaway Filters, Add	875.61	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,693.51	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,530.66	
For Manual Roll Filter, Add	4,479.26	
For Automatic Roll Filter, Add	4,868.99	
For Hot Water Heating Coil, Aluminum Fins, Add	2,140.93	
For Electric Heating Coil, Add	3,699.82	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,699.82	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,310.10	
For Steam Heating Coil, Aluminum Fins, Add	2,920.38	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,434.49	
For Chilled Water Cooling Coil, Copper Fins, Add	4,479.26	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,089.54	
For Hot Water Heating Coil, Copper Fins, Add	2,920.38	
For Variable Air Volume, Add	1,091.22	
For Economizer, Panel, Controls And Damper(s), Add	1,807.80	
For 2 Coils, Independent Circuits, Add	1,127.66	
23 73 13 00-0015 EA 3,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	10,167.04	1,446.47
For Flat Filter Box And Throwaway Filters, Add	913.38	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,764.78	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,636.83	
For Manual Roll Filter, Add	4,661.99	
For Automatic Roll Filter, Add	5,067.02	
For Hot Water Heating Coil, Aluminum Fins, Add	2,231.80	
For Electric Heating Coil, Add	3,851.93	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,851.93	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,446.90	
For Steam Heating Coil, Aluminum Fins, Add	3,041.86	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,533.51	
For Chilled Water Cooling Coil, Copper Fins, Add	4,661.99	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,256.96	
For Hot Water Heating Coil, Copper Fins, Add	3,041.86	
For Variable Air Volume, Add	1,134.09	
For Economizer, Panel, Controls And Damper(s), Add	1,886.52	
For 2 Coils, Independent Circuits, Add	1,178.72	
23 73 13 00-0016 EA 4,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	11,155.07	1,669.90
For Flat Filter Box And Throwaway Filters, Add	996.19	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,920.79	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,869.25	
For Manual Roll Filter, Add	5,061.44	
For Automatic Roll Filter, Add	5,499.87	
For Hot Water Heating Coil, Aluminum Fins, Add	2,430.82	
For Electric Heating Coil, Add	4,184.56	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,184.56	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,746.13	
For Steam Heating Coil, Aluminum Fins, Add	3,307.69	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,749.94	
For Chilled Water Cooling Coil, Copper Fins, Add	5,061.44	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,623.00	
For Hot Water Heating Coil, Copper Fins, Add	3,307.69	
For Variable Air Volume, Add	1,227.62	
For Economizer, Panel, Controls And Damper(s), Add	1,894.54	
For 2 Coils, Independent Circuits, Add	1,290.88	
23 73 13 00-0017 EA 4,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	11,155.07	1,669.90
For Flat Filter Box And Throwaway Filters, Add	996.19	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,920.79	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,869.25	
For Manual Roll Filter, Add	5,061.44	
For Automatic Roll Filter, Add	5,499.87	
For Hot Water Heating Coil, Aluminum Fins, Add	2,430.82	
For Electric Heating Coil, Add	4,184.56	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,184.56	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,746.13	
For Steam Heating Coil, Aluminum Fins, Add	3,307.69	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,749.94	
For Chilled Water Cooling Coil, Copper Fins, Add	5,061.44	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,623.00	
For Hot Water Heating Coil, Copper Fins, Add	3,307.69	
For Variable Air Volume, Add	1,227.62	
For Economizer, Panel, Controls And Damper(s), Add	1,894.54	
For 2 Coils, Independent Circuits, Add	1,290.88	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0018 EA 5,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....12,233.09	1,918.03	
For Flat Filter Box And Throwaway Filters, Add	1,086.28	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,090.34	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,121.81	
For Manual Roll Filter, Add	5,494.93	
For Automatic Roll Filter, Add	5,969.56	
For Hot Water Heating Coil, Aluminum Fins, Add	2,647.18	
For Electric Heating Coil, Add	4,545.68	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,545.68	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,071.06	
For Steam Heating Coil, Aluminum Fins, Add	3,596.43	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	2,984.78	
For Chilled Water Cooling Coil, Copper Fins, Add	5,494.93	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,020.31	
For Hot Water Heating Coil, Copper Fins, Add	3,596.43	
For Variable Air Volume, Add	1,328.95	
For Economizer, Panel, Controls And Damper(s), Add	2,036.24	
For 2 Coils, Independent Circuits, Add	1,413.16	
23 73 13 00-0019 EA 5,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....12,855.64	2,080.90	
For Flat Filter Box And Throwaway Filters, Add	1,136.89	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,184.58	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,262.01	
For Manual Roll Filter, Add	5,732.56	
For Automatic Roll Filter, Add	6,226.67	
For Hot Water Heating Coil, Aluminum Fins, Add	2,767.90	
For Electric Heating Coil, Add	4,744.34	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,744.34	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,250.23	
For Steam Heating Coil, Aluminum Fins, Add	3,756.12	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,113.34	
For Chilled Water Cooling Coil, Copper Fins, Add	5,732.56	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,238.45	
For Hot Water Heating Coil, Copper Fins, Add	3,756.12	
For Variable Air Volume, Add	1,383.51	
For Economizer, Panel, Controls And Damper(s), Add	2,129.37	
For 2 Coils, Independent Circuits, Add	1,483.21	
23 73 13 00-0020 EA 6,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....13,465.82	2,235.55	
For Flat Filter Box And Throwaway Filters, Add	1,186.89	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,277.96	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,400.97	
For Manual Roll Filter, Add	5,968.96	
For Automatic Roll Filter, Add	6,482.55	
For Hot Water Heating Coil, Aluminum Fins, Add	2,887.37	
For Electric Heating Coil, Add	4,941.76	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,941.76	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,428.16	
For Steam Heating Coil, Aluminum Fins, Add	3,914.57	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,241.28	
For Chilled Water Cooling Coil, Copper Fins, Add	5,968.96	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,455.36	
For Hot Water Heating Coil, Copper Fins, Add	3,914.57	
For Variable Air Volume, Add	1,438.07	
For Economizer, Panel, Controls And Damper(s), Add	2,217.55	
For 2 Coils, Independent Circuits, Add	1,552.02	
23 73 13 00-0021 EA 6,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....14,079.73	2,393.13	
For Flat Filter Box And Throwaway Filters, Add	1,237.07	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,371.60	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,540.31	
For Manual Roll Filter, Add	6,205.72	
For Automatic Roll Filter, Add	6,738.80	
For Hot Water Heating Coil, Aluminum Fins, Add	3,007.22	
For Electric Heating Coil, Add	5,139.55	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,139.55	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,606.47	
For Steam Heating Coil, Aluminum Fins, Add	4,073.39	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,369.40	
For Chilled Water Cooling Coil, Copper Fins, Add	6,205.72	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,672.64	
For Hot Water Heating Coil, Copper Fins, Add	4,073.39	
For Variable Air Volume, Add	1,492.63	
For Economizer, Panel, Controls And Damper(s), Add	2,307.23	
For 2 Coils, Independent Circuits, Add	1,621.21	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0022 EA 7,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	14,787.20	2,576.00
For Flat Filter Box And Throwaway Filters, Add	1,294.71	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,479.02	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,700.13	
For Manual Roll Filter, Add	6,476.90	
For Automatic Roll Filter, Add	7,032.25	
For Hot Water Heating Coil, Aluminum Fins, Add	3,144.78	
For Electric Heating Coil, Add	5,366.19	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,366.19	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,810.84	
For Steam Heating Coil, Aluminum Fins, Add	4,255.49	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,516.13	
For Chilled Water Cooling Coil, Copper Fins, Add	6,476.90	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,921.54	
For Hot Water Heating Coil, Copper Fins, Add	4,255.49	
For Variable Air Volume, Add	1,554.99	
For Economizer, Panel, Controls And Damper(s), Add	2,412.06	
For 2 Coils, Independent Circuits, Add	1,700.86	
23 73 13 00-0023 EA 7,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	15,505.35	2,760.04
For Flat Filter Box And Throwaway Filters, Add	1,352.89	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,587.19	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,861.03	
For Manual Roll Filter, Add	6,749.14	
For Automatic Roll Filter, Add	7,326.77	
For Hot Water Heating Coil, Aluminum Fins, Add	3,283.40	
For Electric Heating Coil, Add	5,593.90	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,593.90	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,016.27	
For Steam Heating Coil, Aluminum Fins, Add	4,438.65	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,663.38	
For Chilled Water Cooling Coil, Copper Fins, Add	6,749.14	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,171.52	
For Hot Water Heating Coil, Copper Fins, Add	4,438.65	
For Variable Air Volume, Add	1,617.34	
For Economizer, Panel, Controls And Damper(s), Add	2,365.87	
For 2 Coils, Independent Circuits, Add	1,781.58	
23 73 13 00-0024 EA 8,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	16,245.60	2,972.22
For Flat Filter Box And Throwaway Filters, Add	1,412.17	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,696.91	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,024.13	
For Manual Roll Filter, Add	7,023.59	
For Automatic Roll Filter, Add	7,623.49	
For Hot Water Heating Coil, Aluminum Fins, Add	3,424.24	
For Electric Heating Coil, Add	5,823.81	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,823.81	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,223.92	
For Steam Heating Coil, Aluminum Fins, Add	4,624.02	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,811.74	
For Chilled Water Cooling Coil, Copper Fins, Add	7,023.59	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,423.70	
For Hot Water Heating Coil, Copper Fins, Add	4,624.02	
For Variable Air Volume, Add	1,679.70	
For Economizer, Panel, Controls And Damper(s), Add	2,454.33	
For 2 Coils, Independent Circuits, Add	1,864.52	
23 73 13 00-0025 EA 9,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan	17,089.03	3,219.85
For Flat Filter Box And Throwaway Filters, Add	1,479.40	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,821.09	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,208.69	
For Manual Roll Filter, Add	7,333.42	
For Automatic Roll Filter, Add	7,958.36	
For Hot Water Heating Coil, Aluminum Fins, Add	3,583.74	
For Electric Heating Coil, Add	6,083.53	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,083.53	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,458.58	
For Steam Heating Coil, Aluminum Fins, Add	4,833.63	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	3,979.18	
For Chilled Water Cooling Coil, Copper Fins, Add	7,333.42	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,708.47	
For Hot Water Heating Coil, Copper Fins, Add	4,833.63	
For Variable Air Volume, Add	1,749.85	
For Economizer, Panel, Controls And Damper(s), Add	2,557.03	
For 2 Coils, Independent Circuits, Add	1,958.88	



Heating, Ventilating, And Air-Conditioning (HVAC)		23
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73	13 00-0026	EA	10,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	17,912.22 1,545.61 2,943.85 4,391.22 7,641.22 8,291.22 3,741.22 6,341.22 6,341.22 5,691.22 5,041.22 4,145.61 7,641.22 6,991.22 5,041.22 1,820.00 2,653.67 2,051.22	3,437.75
23 73	13 00-0027	EA	11,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	17,989.54 1,562.00 2,981.84 4,449.06 7,761.69 8,424.22 3,786.53 6,436.64 6,436.64 5,774.11 5,111.59 4,212.11 7,761.69 7,099.17 5,111.59 1,855.07 2,601.70 2,063.96	3,328.63
23 73	13 00-0028	EA	12,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	18,775.73 1,613.84 3,069.44 4,577.79 7,953.05 8,628.10 3,902.73 6,602.94 6,602.94 5,927.89 5,252.84 4,314.05 7,953.05 7,278.00 5,252.84 1,890.15 2,762.40 2,147.59	3,693.02
23 73	13 00-0029	EA	13,700 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	19,771.70 1,704.00 3,244.10 4,838.84 8,415.92 9,131.34 4,123.42 6,985.09 6,985.09 6,269.67 5,554.26 4,565.67 8,415.92 7,700.51 5,554.26 2,003.17 2,492.67 2,263.34	3,841.37

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0030 EA 15,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 20,820.15		3,990.13
For Flat Filter Box And Throwaway Filters, Add	1,796.79	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,422.44	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,105.14	
For Manual Roll Filter, Add	8,884.04	
For Automatic Roll Filter, Add	9,639.83	
For Hot Water Heating Coil, Aluminum Fins, Add	4,349.36	
For Electric Heating Coil, Add	7,372.48	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,372.48	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,616.70	
For Steam Heating Coil, Aluminum Fins, Add	5,860.92	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	4,819.91	
For Chilled Water Cooling Coil, Copper Fins, Add	8,884.04	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,128.26	
For Hot Water Heating Coil, Copper Fins, Add	5,860.92	
For Variable Air Volume, Add	2,116.19	
For Economizer, Panel, Controls And Damper(s), Add	2,540.91	
For 2 Coils, Independent Circuits, Add	2,384.33	
23 73 13 00-0031 EA 16,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 21,931.22		4,143.60
For Flat Filter Box And Throwaway Filters, Add	1,898.27	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,619.64	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,399.97	
For Manual Roll Filter, Add	9,408.53	
For Automatic Roll Filter, Add	10,210.25	
For Hot Water Heating Coil, Aluminum Fins, Add	4,598.26	
For Electric Heating Coil, Add	7,805.11	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,805.11	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,003.40	
For Steam Heating Coil, Aluminum Fins, Add	6,201.68	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,105.12	
For Chilled Water Cooling Coil, Copper Fins, Add	9,408.53	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,606.82	
For Hot Water Heating Coil, Copper Fins, Add	6,201.68	
For Variable Air Volume, Add	2,244.80	
For Economizer, Panel, Controls And Damper(s), Add	2,579.39	
For 2 Coils, Independent Circuits, Add	2,513.81	
23 73 13 00-0032 EA 17,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 23,089.18		4,297.23
For Flat Filter Box And Throwaway Filters, Add	2,002.10	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,820.12	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,699.49	
For Manual Roll Filter, Add	9,937.71	
For Automatic Roll Filter, Add	10,785.36	
For Hot Water Heating Coil, Aluminum Fins, Add	4,851.85	
For Electric Heating Coil, Add	8,242.43	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,242.43	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,394.78	
For Steam Heating Coil, Aluminum Fins, Add	6,547.14	
For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add	5,392.68	
For Chilled Water Cooling Coil, Copper Fins, Add	9,937.71	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,090.07	
For Hot Water Heating Coil, Copper Fins, Add	6,547.14	
For Variable Air Volume, Add	2,373.40	
For Economizer, Panel, Controls And Damper(s), Add	2,627.26	
For 2 Coils, Independent Circuits, Add	2,647.98	
23 73 13 00-0033 EA 20,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 25,737.31		4,606.93
For Flat Filter Box And Throwaway Filters, Add	2,244.47	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,291.37	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,361.74	
For Manual Roll Filter, Add	10,617.58	
For Automatic Roll Filter, Add	11,192.14	
For Hot Water Heating Coil, Aluminum Fins, Add	4,488.93	
For Electric Heating Coil, Add	4,871.97	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,319.34	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,361.74	
For Steam Heating Coil, Aluminum Fins, Add	6,404.14	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	5,117.27	
For Chilled Water Cooling Coil, Copper Fins, Add	10,234.54	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,276.94	
For Hot Water Heating Coil, Copper Fins, Add	7,361.74	
For Variable Air Volume, Add	2,681.28	
For Economizer, Panel, Controls And Damper(s), Add	2,887.43	
For 2 Coils, Independent Circuits, Add	2,956.77	



Heating, Ventilating, And Air-Conditioning (HVAC)		23
Central HVAC Equipment		23 70
Indoor Central-Station Air-Handling Units		23 73

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73	13 00-0034	EA	22,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	28,553.25	4,965.01
23 73	13 00-0035	EA	25,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	31,629.10	5,319.92
23 73	13 00-0036	EA	27,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	38,914.05	5,729.41
23 73	13 00-0037	EA	30,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan For Flat Filter Box And Throwaway Filters, Add For Medium Capacity Filter Box And Throwaway Filters, Add For Combination Filter Mixing Box And Throwaway Filters, Add For Manual Roll Filter, Add For Automatic Roll Filter, Add For Hot Water Heating Coil, Aluminum Fins, Add For Electric Heating Coil, Add For Chilled Water Cooling Coil, Aluminum Fins, Add For Direct Expansion Cooling Coil, Aluminum Fins, Add For Steam Heating Coil, Aluminum Fins, Add For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add For Chilled Water Cooling Coil, Copper Fins, Add For Direct Expansion Cooling Coil, Copper Fins, Add For Hot Water Heating Coil, Copper Fins, Add For Variable Air Volume, Add For Economizer, Panel, Controls And Damper(s), Add For 2 Coils, Independent Circuits, Add	43,470.57	6,115.30

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 73 Indoor Central-Station Air-Handling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0038 EA 32,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 47,623.40		6,585.28
For Flat Filter Box And Throwaway Filters, Add	4,292.20	
For Medium Capacity Filter Box And Throwaway Filters, Add	8,302.31	
For Combination Filter Mixing Box And Throwaway Filters, Add	14,317.48	
For Manual Roll Filter, Add	20,814.97	
For Automatic Roll Filter, Add	21,961.58	
For Hot Water Heating Coil, Aluminum Fins, Add	8,584.39	
For Electric Heating Coil, Add	9,348.80	
For Chilled Water Cooling Coil, Aluminum Fins, Add	16,228.50	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	14,317.48	
For Steam Heating Coil, Aluminum Fins, Add	12,406.45	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	10,025.28	
For Chilled Water Cooling Coil, Copper Fins, Add	20,050.56	
For Direct Expansion Cooling Coil, Copper Fins, Add	18,139.53	
For Hot Water Heating Coil, Copper Fins, Add	14,317.48	
For Variable Air Volume, Add	5,350.88	
For Economizer, Panel, Controls And Damper(s), Add	3,175.43	
For 2 Coils, Independent Circuits, Add	5,526.75	
23 73 13 00-0039 EA 35,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 52,250.38		7,941.49
For Flat Filter Box And Throwaway Filters, Add	4,714.23	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,121.98	
For Combination Filter Mixing Box And Throwaway Filters, Add	15,733.60	
For Manual Roll Filter, Add	22,879.42	
For Automatic Roll Filter, Add	24,140.45	
For Hot Water Heating Coil, Aluminum Fins, Add	9,428.46	
For Electric Heating Coil, Add	10,269.15	
For Chilled Water Cooling Coil, Aluminum Fins, Add	17,835.31	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	15,733.60	
For Steam Heating Coil, Aluminum Fins, Add	13,631.89	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	11,019.37	
For Chilled Water Cooling Coil, Copper Fins, Add	22,038.73	
For Direct Expansion Cooling Coil, Copper Fins, Add	19,937.02	
For Hot Water Heating Coil, Copper Fins, Add	15,733.60	
For Variable Air Volume, Add	5,884.79	
For Economizer, Panel, Controls And Damper(s), Add	3,297.42	
For 2 Coils, Independent Circuits, Add	6,065.72	
23 73 13 00-0040 EA 37,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 56,233.39		7,585.21
For Flat Filter Box And Throwaway Filters, Add	5,081.80	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,838.67	
For Combination Filter Mixing Box And Throwaway Filters, Add	16,973.98	
For Manual Roll Filter, Add	24,692.41	
For Automatic Roll Filter, Add	26,054.49	
For Hot Water Heating Coil, Aluminum Fins, Add	10,163.59	
For Electric Heating Coil, Add	11,071.65	
For Chilled Water Cooling Coil, Aluminum Fins, Add	19,244.10	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	16,973.98	
For Steam Heating Coil, Aluminum Fins, Add	14,703.85	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	11,892.18	
For Chilled Water Cooling Coil, Copper Fins, Add	23,784.36	
For Direct Expansion Cooling Coil, Copper Fins, Add	21,514.23	
For Hot Water Heating Coil, Copper Fins, Add	16,973.98	
For Variable Air Volume, Add	6,356.36	
For Economizer, Panel, Controls And Damper(s), Add	3,389.63	
For 2 Coils, Independent Circuits, Add	6,531.39	
23 73 13 00-0041 EA 40,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan 60,652.08		8,114.31
For Flat Filter Box And Throwaway Filters, Add	5,483.67	
For Medium Capacity Filter Box And Throwaway Filters, Add	10,618.43	
For Combination Filter Mixing Box And Throwaway Filters, Add	18,320.56	
For Manual Roll Filter, Add	26,654.19	
For Automatic Roll Filter, Add	28,124.83	
For Hot Water Heating Coil, Aluminum Fins, Add	10,967.35	
For Electric Heating Coil, Add	11,947.77	
For Chilled Water Cooling Coil, Aluminum Fins, Add	20,771.63	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	18,320.56	
For Steam Heating Coil, Aluminum Fins, Add	15,869.49	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	12,836.88	
For Chilled Water Cooling Coil, Copper Fins, Add	25,673.76	
For Direct Expansion Cooling Coil, Copper Fins, Add	23,222.69	
For Hot Water Heating Coil, Copper Fins, Add	18,320.56	
For Variable Air Volume, Add	6,862.99	
For Economizer, Panel, Controls And Damper(s), Add	3,283.84	
For 2 Coils, Independent Circuits, Add	7,045.64	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0042 EA 45,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....65,462.89	8,761.19	
For Flat Filter Box And Throwaway Filters, Add	5,920.47	
For Medium Capacity Filter Box And Throwaway Filters, Add	11,465.44	
For Combination Filter Mixing Box And Throwaway Filters, Add	19,782.90	
For Manual Roll Filter, Add	28,783.79	
For Automatic Roll Filter, Add	30,372.19	
For Hot Water Heating Coil, Aluminum Fins, Add	11,840.93	
For Electric Heating Coil, Add	12,899.86	
For Chilled Water Cooling Coil, Aluminum Fins, Add	22,430.22	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	19,782.90	
For Steam Heating Coil, Aluminum Fins, Add	17,135.58	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	13,862.43	
For Chilled Water Cooling Coil, Copper Fins, Add	27,724.87	
For Direct Expansion Cooling Coil, Copper Fins, Add	25,077.54	
For Hot Water Heating Coil, Copper Fins, Add	19,782.90	
For Variable Air Volume, Add	7,412.50	
For Economizer, Panel, Controls And Damper(s), Add	3,394.56	
For 2 Coils, Independent Circuits, Add	7,605.22	
23 73 13 00-0043 EA 47,500 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....68,197.16	9,172.70	
For Flat Filter Box And Throwaway Filters, Add	6,165.75	
For Medium Capacity Filter Box And Throwaway Filters, Add	11,939.11	
For Combination Filter Mixing Box And Throwaway Filters, Add	20,599.15	
For Manual Roll Filter, Add	29,969.17	
For Automatic Roll Filter, Add	31,622.70	
For Hot Water Heating Coil, Aluminum Fins, Add	12,331.49	
For Electric Heating Coil, Add	13,433.84	
For Chilled Water Cooling Coil, Aluminum Fins, Add	23,355.04	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	20,599.15	
For Steam Heating Coil, Aluminum Fins, Add	17,843.26	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	14,433.41	
For Chilled Water Cooling Coil, Copper Fins, Add	28,866.81	
For Direct Expansion Cooling Coil, Copper Fins, Add	26,110.93	
For Hot Water Heating Coil, Copper Fins, Add	20,599.15	
For Variable Air Volume, Add	7,716.48	
For Economizer, Panel, Controls And Damper(s), Add	3,464.93	
For 2 Coils, Independent Circuits, Add	7,922.07	
23 73 13 00-0044 EA 50,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....70,774.71	9,525.49	
For Flat Filter Box And Throwaway Filters, Add	6,397.62	
For Medium Capacity Filter Box And Throwaway Filters, Add	12,387.33	
For Combination Filter Mixing Box And Throwaway Filters, Add	21,371.90	
For Manual Roll Filter, Add	31,092.11	
For Automatic Roll Filter, Add	32,807.44	
For Hot Water Heating Coil, Aluminum Fins, Add	12,795.24	
For Electric Heating Coil, Add	13,938.80	
For Chilled Water Cooling Coil, Aluminum Fins, Add	24,230.78	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	21,371.90	
For Steam Heating Coil, Aluminum Fins, Add	18,513.01	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	14,974.28	
For Chilled Water Cooling Coil, Copper Fins, Add	29,948.55	
For Direct Expansion Cooling Coil, Copper Fins, Add	27,089.67	
For Hot Water Heating Coil, Copper Fins, Add	21,371.90	
For Variable Air Volume, Add	8,004.88	
For Economizer, Panel, Controls And Damper(s), Add	3,529.63	
For 2 Coils, Independent Circuits, Add	8,221.03	
23 73 13 00-0045 EA 55,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan .....76,309.16	10,172.30	
For Flat Filter Box And Throwaway Filters, Add	6,904.00	
For Medium Capacity Filter Box And Throwaway Filters, Add	13,371.85	
For Combination Filter Mixing Box And Throwaway Filters, Add	23,073.63	
For Manual Roll Filter, Add	33,574.67	
For Automatic Roll Filter, Add	35,427.80	
For Hot Water Heating Coil, Aluminum Fins, Add	13,808.00	
For Electric Heating Coil, Add	15,043.42	
For Chilled Water Cooling Coil, Aluminum Fins, Add	26,162.17	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	23,073.63	
For Steam Heating Coil, Aluminum Fins, Add	19,985.09	
For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add	16,169.63	
For Chilled Water Cooling Coil, Copper Fins, Add	32,339.26	
For Direct Expansion Cooling Coil, Copper Fins, Add	29,250.71	
For Hot Water Heating Coil, Copper Fins, Add	23,073.63	
For Variable Air Volume, Add	8,647.92	
For Economizer, Panel, Controls And Damper(s), Add	3,647.29	
For 2 Coils, Independent Circuits, Add	8,866.33	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 73 Indoor Central-Station Air-Handling Units



MINOR CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0046	EA	60,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	83,478.25 7,570.06 14,673.45 25,328.55 36,875.43 38,913.12 15,140.11 16,498.57 28,724.69 25,328.55 21,932.40 17,758.49 35,516.98 32,120.83 25,328.55 9,509.20 3,455.54 9,706.28	10,877.88
23 73 13 00-0047	EA	65,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	91,514.99 8,311.51 16,119.02 27,830.29 40,531.87 42,773.33 16,623.02 18,117.32 31,566.05 27,830.29 24,094.53 19,518.78 39,037.57 35,301.81 27,830.29 10,460.12 3,579.98 10,645.80	11,759.88
23 73 13 00-0048	EA	70,000 CFM Single Zone Air Handling Unit, Built-Up, Constant Volume, Horizontal / Vertical, Draw-Through Fan <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Steam Heating Coil, Aluminum Fins, Add</i> <i>For Welded Exterior Waterproof Casing, Double Wall, With Insulation, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For Hot Water Heating Coil, Copper Fins, Add</i> <i>For Variable Air Volume, Add</i> <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	100,464.02 9,133.37 17,718.92 30,597.25 44,571.82 47,037.92 18,266.74 19,910.81 34,707.42 30,597.25 26,487.08 21,463.88 42,927.75 38,817.59 30,597.25 11,508.47 3,726.06 11,690.47	12,759.47
23 73 13 00-0049	Multi-Zone Units <small>(23 73 13)</small>			
		Note: Horizontal/vertical blow-thru fan, motor and cabinet.		
23 73 13 00-0050	EA	1,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan..... <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	5,965.41 1,698.02 520.97 996.59 1,264.64 2,600.82 2,600.82 596.54 685.62 2,155.43 2,155.43 2,600.82 2,600.82 685.62	1,058.22
23 73 13 00-0051	EA	1,200 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan..... <i>For Economizer, Panel, Controls And Damper(s), Add</i> <i>For Flat Filter Box And Throwaway Filters, Add</i> <i>For Medium Capacity Filter Box And Throwaway Filters, Add</i> <i>For Combination Filter Mixing Box And Throwaway Filters, Add</i> <i>For Manual Roll Filter, Add</i> <i>For Automatic Roll Filter, Add</i> <i>For Hot Water Heating Coil, Aluminum Fins, Add</i> <i>For Electric Heating Coil, Add</i> <i>For Chilled Water Cooling Coil, Aluminum Fins, Add</i> <i>For Direct Expansion Cooling Coil, Aluminum Fins, Add</i> <i>For Chilled Water Cooling Coil, Copper Fins, Add</i> <i>For Direct Expansion Cooling Coil, Copper Fins, Add</i> <i>For 2 Coils, Independent Circuits, Add</i>	7,433.61 1,965.80 648.66 1,240.50 1,574.30 3,236.19 3,236.19 743.36 854.15 2,682.22 2,682.22 3,236.19 3,236.19 854.15	1,325.76



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0052 EA 1,600 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	9,197.58	1,411.02
For Economizer, Panel, Controls And Damper(s), Add	2,050.90	
For Flat Filter Box And Throwaway Filters, Add	818.98	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,577.49	
For Combination Filter Mixing Box And Throwaway Filters, Add	1,997.06	
For Manual Roll Filter, Add	4,151.66	
For Automatic Roll Filter, Add	4,151.66	
For Hot Water Heating Coil, Aluminum Fins, Add	919.76	
For Electric Heating Coil, Add	1,063.40	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,433.46	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,433.46	
For Chilled Water Cooling Coil, Copper Fins, Add	4,151.66	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,151.66	
For 2 Coils, Independent Circuits, Add	1,063.40	
23 73 13 00-0053 EA 2,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	9,562.68	1,510.98
For Economizer, Panel, Controls And Damper(s), Add	2,150.58	
For Flat Filter Box And Throwaway Filters, Add	848.37	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,632.00	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,066.97	
For Manual Roll Filter, Add	4,288.39	
For Automatic Roll Filter, Add	4,288.39	
For Hot Water Heating Coil, Aluminum Fins, Add	956.27	
For Electric Heating Coil, Add	1,104.36	
For Chilled Water Cooling Coil, Aluminum Fins, Add	3,547.92	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	3,547.92	
For Chilled Water Cooling Coil, Copper Fins, Add	4,288.39	
For Direct Expansion Cooling Coil, Copper Fins, Add	4,288.39	
For 2 Coils, Independent Circuits, Add	1,104.36	
23 73 13 00-0054 EA 2,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	11,194.10	1,619.75
For Economizer, Panel, Controls And Damper(s), Add	2,259.81	
For Flat Filter Box And Throwaway Filters, Add	1,003.71	
For Medium Capacity Filter Box And Throwaway Filters, Add	1,938.00	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,451.42	
For Manual Roll Filter, Add	5,115.45	
For Automatic Roll Filter, Add	5,115.45	
For Hot Water Heating Coil, Aluminum Fins, Add	1,119.41	
For Electric Heating Coil, Add	1,297.01	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,227.44	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,227.44	
For Chilled Water Cooling Coil, Copper Fins, Add	5,115.45	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,115.45	
For 2 Coils, Independent Circuits, Add	1,297.01	
23 73 13 00-0055 EA 3,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	11,803.33	1,734.58
For Economizer, Panel, Controls And Damper(s), Add	2,374.50	
For Flat Filter Box And Throwaway Filters, Add	1,056.44	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,038.55	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,579.16	
For Manual Roll Filter, Add	5,376.80	
For Automatic Roll Filter, Add	5,376.80	
For Hot Water Heating Coil, Aluminum Fins, Add	1,180.33	
For Electric Heating Coil, Add	1,366.84	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,444.25	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,444.25	
For Chilled Water Cooling Coil, Copper Fins, Add	5,376.80	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,376.80	
For 2 Coils, Independent Circuits, Add	1,366.84	
23 73 13 00-0056 EA 3,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	12,444.35	1,852.09
For Economizer, Panel, Controls And Damper(s), Add	2,491.95	
For Flat Filter Box And Throwaway Filters, Add	1,112.15	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,144.94	
For Combination Filter Mixing Box And Throwaway Filters, Add	2,714.24	
For Manual Roll Filter, Add	5,653.85	
For Automatic Roll Filter, Add	5,653.85	
For Hot Water Heating Coil, Aluminum Fins, Add	1,244.44	
For Electric Heating Coil, Add	1,440.41	
For Chilled Water Cooling Coil, Aluminum Fins, Add	4,673.98	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	4,673.98	
For Chilled Water Cooling Coil, Copper Fins, Add	5,653.85	
For Direct Expansion Cooling Coil, Copper Fins, Add	5,653.85	
For 2 Coils, Independent Circuits, Add	1,440.41	
23 73 13 00-0057 EA 4,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	13,884.42	1,987.42
For Economizer, Panel, Controls And Damper(s), Add	2,308.17	
For Flat Filter Box And Throwaway Filters, Add	1,246.79	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,408.59	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,046.15	
For Manual Roll Filter, Add	6,361.57	
For Automatic Roll Filter, Add	6,361.57	
For Hot Water Heating Coil, Aluminum Fins, Add	1,388.44	
For Electric Heating Coil, Add	1,609.47	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,256.43	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,256.43	
For Chilled Water Cooling Coil, Copper Fins, Add	6,361.57	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,361.57	
For 2 Coils, Independent Circuits, Add	1,609.47	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 73 Indoor Central-Station Air-Handling Units



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0058 EA 4,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	15,177.73	2,128.37
For Economizer, Panel, Controls And Damper(s), Add	2,422.38	
For Flat Filter Box And Throwaway Filters, Add	1,365.74	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,640.26	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,338.33	
For Manual Roll Filter, Add	6,979.44	
For Automatic Roll Filter, Add	6,979.44	
For Hot Water Heating Coil, Aluminum Fins, Add	1,517.77	
For Electric Heating Coil, Add	1,760.51	
For Chilled Water Cooling Coil, Aluminum Fins, Add	5,765.74	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	5,765.74	
For Chilled Water Cooling Coil, Copper Fins, Add	6,979.44	
For Direct Expansion Cooling Coil, Copper Fins, Add	6,979.44	
For 2 Coils, Independent Circuits, Add	1,760.51	
23 73 13 00-0059 EA 5,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	16,045.21	2,273.18
For Economizer, Panel, Controls And Damper(s), Add	2,532.04	
For Flat Filter Box And Throwaway Filters, Add	1,442.52	
For Medium Capacity Filter Box And Throwaway Filters, Add	2,787.83	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,525.29	
For Manual Roll Filter, Add	7,366.83	
For Automatic Roll Filter, Add	7,366.83	
For Hot Water Heating Coil, Aluminum Fins, Add	1,604.52	
For Electric Heating Coil, Add	1,860.62	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,086.32	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,086.32	
For Chilled Water Cooling Coil, Copper Fins, Add	7,366.83	
For Direct Expansion Cooling Coil, Copper Fins, Add	7,366.83	
For 2 Coils, Independent Circuits, Add	1,860.62	
23 73 13 00-0060 EA 5,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	17,695.87	2,428.58
For Economizer, Panel, Controls And Damper(s), Add	2,659.07	
For Flat Filter Box And Throwaway Filters, Add	1,596.04	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,087.94	
For Combination Filter Mixing Box And Throwaway Filters, Add	3,903.31	
For Manual Roll Filter, Add	8,170.76	
For Automatic Roll Filter, Add	8,170.76	
For Hot Water Heating Coil, Aluminum Fins, Add	1,769.59	
For Electric Heating Coil, Add	2,054.08	
For Chilled Water Cooling Coil, Aluminum Fins, Add	6,748.28	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	6,748.28	
For Chilled Water Cooling Coil, Copper Fins, Add	8,170.76	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,170.76	
For 2 Coils, Independent Circuits, Add	2,054.08	
23 73 13 00-0061 EA 6,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	18,828.28	2,599.10
For Economizer, Panel, Controls And Damper(s), Add	2,791.96	
For Flat Filter Box And Throwaway Filters, Add	1,697.20	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,283.01	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,150.17	
For Manual Roll Filter, Add	8,684.86	
For Automatic Roll Filter, Add	8,684.86	
For Hot Water Heating Coil, Aluminum Fins, Add	1,882.83	
For Electric Heating Coil, Add	2,185.14	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,173.30	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,173.30	
For Chilled Water Cooling Coil, Copper Fins, Add	8,684.86	
For Direct Expansion Cooling Coil, Copper Fins, Add	8,684.86	
For 2 Coils, Independent Circuits, Add	2,185.14	
23 73 13 00-0062 EA 6,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	20,647.57	2,822.37
For Economizer, Panel, Controls And Damper(s), Add	2,965.80	
For Flat Filter Box And Throwaway Filters, Add	1,863.32	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,605.78	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,557.58	
For Manual Roll Filter, Add	9,543.24	
For Automatic Roll Filter, Add	9,543.24	
For Hot Water Heating Coil, Aluminum Fins, Add	2,064.76	
For Electric Heating Coil, Add	2,397.13	
For Chilled Water Cooling Coil, Aluminum Fins, Add	7,881.35	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	7,881.35	
For Chilled Water Cooling Coil, Copper Fins, Add	9,543.24	
For Direct Expansion Cooling Coil, Copper Fins, Add	9,543.24	
For 2 Coils, Independent Circuits, Add	2,397.13	
23 73 13 00-0063 EA 7,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	22,184.71	3,040.01
For Economizer, Panel, Controls And Damper(s), Add	3,137.57	
For Flat Filter Box And Throwaway Filters, Add	2,001.42	
For Medium Capacity Filter Box And Throwaway Filters, Add	3,872.61	
For Combination Filter Mixing Box And Throwaway Filters, Add	4,895.02	
For Manual Roll Filter, Add	10,248.12	
For Automatic Roll Filter, Add	10,248.12	
For Hot Water Heating Coil, Aluminum Fins, Add	2,218.47	
For Electric Heating Coil, Add	2,575.34	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,463.76	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,463.76	
For Chilled Water Cooling Coil, Copper Fins, Add	10,248.12	
For Direct Expansion Cooling Coil, Copper Fins, Add	10,248.12	
For 2 Coils, Independent Circuits, Add	2,575.34	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0064 EA 7,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	23,281.42	3,286.88
For Economizer, Panel, Controls And Damper(s), Add	2,814.46	
For Flat Filter Box And Throwaway Filters, Add	2,093.84	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,047.09	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,117.43	
For Manual Roll Filter, Add	10,696.02	
For Automatic Roll Filter, Add	10,696.02	
For Hot Water Heating Coil, Aluminum Fins, Add	2,328.14	
For Electric Heating Coil, Add	2,700.05	
For Chilled Water Cooling Coil, Aluminum Fins, Add	8,836.49	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	8,836.49	
For Chilled Water Cooling Coil, Copper Fins, Add	10,696.02	
For Direct Expansion Cooling Coil, Copper Fins, Add	10,696.02	
For 2 Coils, Independent Circuits, Add	2,700.05	
23 73 13 00-0065 EA 8,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	25,834.40	3,545.44
For Economizer, Panel, Controls And Damper(s), Add	2,967.13	
For Flat Filter Box And Throwaway Filters, Add	2,330.05	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,508.06	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,698.43	
For Manual Roll Filter, Add	11,928.40	
For Automatic Roll Filter, Add	11,928.40	
For Hot Water Heating Coil, Aluminum Fins, Add	2,583.44	
For Electric Heating Coil, Add	2,998.77	
For Chilled Water Cooling Coil, Aluminum Fins, Add	9,851.74	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	9,851.74	
For Chilled Water Cooling Coil, Copper Fins, Add	11,928.40	
For Direct Expansion Cooling Coil, Copper Fins, Add	11,928.40	
For 2 Coils, Independent Circuits, Add	2,998.77	
23 73 13 00-0066 EA 8,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	27,204.25	3,821.79
For Economizer, Panel, Controls And Damper(s), Add	3,125.34	
For Flat Filter Box And Throwaway Filters, Add	2,447.26	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,730.61	
For Combination Filter Mixing Box And Throwaway Filters, Add	5,981.56	
For Manual Roll Filter, Add	12,503.83	
For Automatic Roll Filter, Add	12,503.83	
For Hot Water Heating Coil, Aluminum Fins, Add	2,720.43	
For Electric Heating Coil, Add	3,155.24	
For Chilled Water Cooling Coil, Aluminum Fins, Add	10,329.74	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,329.74	
For Chilled Water Cooling Coil, Copper Fins, Add	12,503.83	
For Direct Expansion Cooling Coil, Copper Fins, Add	12,503.83	
For 2 Coils, Independent Circuits, Add	3,155.24	
23 73 13 00-0067 EA 9,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	28,721.21	4,139.47
For Economizer, Panel, Controls And Damper(s), Add	3,297.87	
For Flat Filter Box And Throwaway Filters, Add	2,577.39	
For Medium Capacity Filter Box And Throwaway Filters, Add	4,977.93	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,296.10	
For Manual Roll Filter, Add	13,144.06	
For Automatic Roll Filter, Add	13,144.06	
For Hot Water Heating Coil, Aluminum Fins, Add	2,872.12	
For Electric Heating Coil, Add	3,328.65	
For Chilled Water Cooling Coil, Aluminum Fins, Add	10,861.41	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	10,861.41	
For Chilled Water Cooling Coil, Copper Fins, Add	13,144.06	
For Direct Expansion Cooling Coil, Copper Fins, Add	13,144.06	
For 2 Coils, Independent Circuits, Add	3,328.65	
23 73 13 00-0068 EA 10,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	30,355.64	4,468.50
For Economizer, Panel, Controls And Damper(s), Add	3,096.33	
For Flat Filter Box And Throwaway Filters, Add	2,716.18	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,240.72	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,630.74	
For Manual Roll Filter, Add	13,821.11	
For Automatic Roll Filter, Add	13,821.11	
For Hot Water Heating Coil, Aluminum Fins, Add	3,035.56	
For Electric Heating Coil, Add	3,514.92	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,424.32	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	11,424.32	
For Chilled Water Cooling Coil, Copper Fins, Add	13,821.11	
For Direct Expansion Cooling Coil, Copper Fins, Add	13,821.11	
For 2 Coils, Independent Circuits, Add	3,514.92	
23 73 13 00-0069 EA 11,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	31,209.53	4,639.27
For Economizer, Panel, Controls And Damper(s), Add	3,172.95	
For Flat Filter Box And Throwaway Filters, Add	2,788.80	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,378.30	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,805.91	
For Manual Roll Filter, Add	14,175.82	
For Automatic Roll Filter, Add	14,175.82	
For Hot Water Heating Coil, Aluminum Fins, Add	3,120.95	
For Electric Heating Coil, Add	3,612.28	
For Chilled Water Cooling Coil, Aluminum Fins, Add	11,719.18	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	11,719.18	
For Chilled Water Cooling Coil, Copper Fins, Add	14,175.82	
For Direct Expansion Cooling Coil, Copper Fins, Add	14,175.82	
For 2 Coils, Independent Circuits, Add	3,612.28	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 73 Indoor Central-Station Air-Handling Units



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0070 EA 12,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	32,025.06	4,804.83
For Economizer, Panel, Controls And Damper(s), Add	3,238.06	
For Flat Filter Box And Throwaway Filters, Add	2,859.50	
For Medium Capacity Filter Box And Throwaway Filters, Add	5,513.19	
For Combination Filter Mixing Box And Throwaway Filters, Add	6,977.24	
For Manual Roll Filter, Add	14,526.70	
For Automatic Roll Filter, Add	14,526.70	
For Hot Water Heating Coil, Aluminum Fins, Add	3,202.51	
For Electric Heating Coil, Add	3,705.80	
For Chilled Water Cooling Coil, Aluminum Fins, Add	12,010.21	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	12,010.21	
For Chilled Water Cooling Coil, Copper Fins, Add	14,526.70	
For Direct Expansion Cooling Coil, Copper Fins, Add	14,526.70	
For 2 Coils, Independent Circuits, Add	3,705.80	
23 73 13 00-0071 EA 13,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	36,221.10	4,997.94
For Economizer, Panel, Controls And Damper(s), Add	2,831.80	
For Flat Filter Box And Throwaway Filters, Add	3,264.16	
For Medium Capacity Filter Box And Throwaway Filters, Add	6,313.55	
For Combination Filter Mixing Box And Throwaway Filters, Add	7,981.42	
For Manual Roll Filter, Add	16,700.05	
For Automatic Roll Filter, Add	16,700.05	
For Hot Water Heating Coil, Aluminum Fins, Add	3,622.11	
For Electric Heating Coil, Add	4,203.35	
For Chilled Water Cooling Coil, Aluminum Fins, Add	13,793.84	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	13,793.84	
For Chilled Water Cooling Coil, Copper Fins, Add	16,700.05	
For Direct Expansion Cooling Coil, Copper Fins, Add	16,700.05	
For 2 Coils, Independent Circuits, Add	4,203.35	
23 73 13 00-0072 EA 15,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	40,385.54	5,195.93
For Economizer, Panel, Controls And Damper(s), Add	3,034.59	
For Flat Filter Box And Throwaway Filters, Add	3,667.24	
For Medium Capacity Filter Box And Throwaway Filters, Add	7,111.70	
For Combination Filter Mixing Box And Throwaway Filters, Add	8,982.45	
For Manual Roll Filter, Add	18,870.24	
For Automatic Roll Filter, Add	18,870.24	
For Hot Water Heating Coil, Aluminum Fins, Add	4,038.55	
For Electric Heating Coil, Add	4,697.74	
For Chilled Water Cooling Coil, Aluminum Fins, Add	15,574.31	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	15,574.31	
For Chilled Water Cooling Coil, Copper Fins, Add	18,870.24	
For Direct Expansion Cooling Coil, Copper Fins, Add	18,870.24	
For 2 Coils, Independent Circuits, Add	4,697.74	
23 73 13 00-0073 EA 16,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	46,461.86	5,391.91
For Economizer, Panel, Controls And Damper(s), Add	3,082.24	
For Flat Filter Box And Throwaway Filters, Add	4,261.26	
For Medium Capacity Filter Box And Throwaway Filters, Add	8,291.57	
For Combination Filter Mixing Box And Throwaway Filters, Add	10,460.69	
For Manual Roll Filter, Add	22,089.70	
For Automatic Roll Filter, Add	22,089.70	
For Hot Water Heating Coil, Aluminum Fins, Add	4,646.19	
For Electric Heating Coil, Add	5,421.45	
For Chilled Water Cooling Coil, Aluminum Fins, Add	18,213.36	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	18,213.36	
For Chilled Water Cooling Coil, Copper Fins, Add	22,089.70	
For Direct Expansion Cooling Coil, Copper Fins, Add	22,089.70	
For 2 Coils, Independent Circuits, Add	5,421.45	
23 73 13 00-0074 EA 17,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	52,542.03	5,585.94
For Economizer, Panel, Controls And Damper(s), Add	3,130.56	
For Flat Filter Box And Throwaway Filters, Add	4,855.47	
For Medium Capacity Filter Box And Throwaway Filters, Add	9,471.71	
For Combination Filter Mixing Box And Throwaway Filters, Add	11,939.32	
For Manual Roll Filter, Add	25,309.55	
For Automatic Roll Filter, Add	25,309.55	
For Hot Water Heating Coil, Aluminum Fins, Add	5,254.20	
For Electric Heating Coil, Add	6,145.55	
For Chilled Water Cooling Coil, Aluminum Fins, Add	20,852.80	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	20,852.80	
For Chilled Water Cooling Coil, Copper Fins, Add	25,309.55	
For Direct Expansion Cooling Coil, Copper Fins, Add	25,309.55	
For 2 Coils, Independent Circuits, Add	6,145.55	
23 73 13 00-0075 EA 20,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	59,007.39	6,056.34
For Economizer, Panel, Controls And Damper(s), Add	3,248.72	
For Flat Filter Box And Throwaway Filters, Add	5,468.25	
For Medium Capacity Filter Box And Throwaway Filters, Add	8,159.12	
For Combination Filter Mixing Box And Throwaway Filters, Add	13,454.38	
For Manual Roll Filter, Add	21,008.01	
For Automatic Roll Filter, Add	26,043.77	
For Hot Water Heating Coil, Aluminum Fins, Add	5,900.74	
For Electric Heating Coil, Add	6,907.89	
For Chilled Water Cooling Coil, Aluminum Fins, Add	21,008.01	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	21,008.01	
For Steam Heating Coil, Aluminum Fins, Add	10,936.50	
For Chilled Water Cooling Coil, Copper Fins, Add	26,043.77	
For Direct Expansion Cooling Coil, Copper Fins, Add	26,043.77	
For 2 Coils, Independent Circuits, Add	6,907.89	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0076 EA 22,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	63,638.95	6,585.53
For Economizer, Panel, Controls And Damper(s), Add	3,168.45	
For Flat Filter Box And Throwaway Filters, Add	5,896.08	
For Medium Capacity Filter Box And Throwaway Filters, Add	8,797.34	
For Combination Filter Mixing Box And Throwaway Filters, Add	14,506.29	
For Manual Roll Filter, Add	22,648.68	
For Automatic Roll Filter, Add	28,076.95	
For Hot Water Heating Coil, Aluminum Fins, Add	6,363.90	
For Electric Heating Coil, Add	7,449.55	
For Chilled Water Cooling Coil, Aluminum Fins, Add	22,648.68	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	22,648.68	
For Steam Heating Coil, Aluminum Fins, Add	11,792.16	
For Chilled Water Cooling Coil, Copper Fins, Add	28,076.95	
For Direct Expansion Cooling Coil, Copper Fins, Add	28,076.95	
For 2 Coils, Independent Circuits, Add	7,449.55	
23 73 13 00-0077 EA 25,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	75,968.45	7,114.47
For Economizer, Panel, Controls And Damper(s), Add	3,289.18	
For Flat Filter Box And Throwaway Filters, Add	7,088.79	
For Medium Capacity Filter Box And Throwaway Filters, Add	10,582.37	
For Combination Filter Mixing Box And Throwaway Filters, Add	17,467.93	
For Manual Roll Filter, Add	27,339.02	
For Automatic Roll Filter, Add	33,919.75	
For Hot Water Heating Coil, Aluminum Fins, Add	7,596.85	
For Electric Heating Coil, Add	8,912.99	
For Chilled Water Cooling Coil, Aluminum Fins, Add	27,339.02	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	27,339.02	
For Steam Heating Coil, Aluminum Fins, Add	14,177.57	
For Chilled Water Cooling Coil, Copper Fins, Add	33,919.75	
For Direct Expansion Cooling Coil, Copper Fins, Add	33,919.75	
For 2 Coils, Independent Circuits, Add	8,912.99	
23 73 13 00-0078 EA 27,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	85,898.29	7,702.72
For Economizer, Panel, Controls And Damper(s), Add	3,413.24	
For Flat Filter Box And Throwaway Filters, Add	8,040.42	
For Medium Capacity Filter Box And Throwaway Filters, Add	12,005.68	
For Combination Filter Mixing Box And Throwaway Filters, Add	19,826.33	
For Manual Roll Filter, Add	31,062.84	
For Automatic Roll Filter, Add	38,553.84	
For Hot Water Heating Coil, Aluminum Fins, Add	8,589.83	
For Electric Heating Coil, Add	10,088.03	
For Chilled Water Cooling Coil, Aluminum Fins, Add	31,062.84	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	31,062.84	
For Steam Heating Coil, Aluminum Fins, Add	16,080.83	
For Chilled Water Cooling Coil, Copper Fins, Add	38,553.84	
For Direct Expansion Cooling Coil, Copper Fins, Add	38,553.84	
For 2 Coils, Independent Circuits, Add	10,088.03	
23 73 13 00-0079 EA 30,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	93,106.34	8,290.96
For Economizer, Panel, Controls And Damper(s), Add	3,542.41	
For Flat Filter Box And Throwaway Filters, Add	8,718.16	
For Medium Capacity Filter Box And Throwaway Filters, Add	13,018.00	
For Combination Filter Mixing Box And Throwaway Filters, Add	21,499.17	
For Manual Roll Filter, Add	33,687.71	
For Automatic Roll Filter, Add	41,813.40	
For Hot Water Heating Coil, Aluminum Fins, Add	9,310.63	
For Electric Heating Coil, Add	10,935.77	
For Chilled Water Cooling Coil, Aluminum Fins, Add	33,687.71	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	33,687.71	
For Steam Heating Coil, Aluminum Fins, Add	17,436.33	
For Chilled Water Cooling Coil, Copper Fins, Add	41,813.40	
For Direct Expansion Cooling Coil, Copper Fins, Add	41,813.40	
For 2 Coils, Independent Circuits, Add	10,935.77	
23 73 13 00-0080 EA 32,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	104,038.66	9,701.65
For Economizer, Panel, Controls And Damper(s), Add	3,560.75	
For Flat Filter Box And Throwaway Filters, Add	9,711.57	
For Medium Capacity Filter Box And Throwaway Filters, Add	14,498.12	
For Combination Filter Mixing Box And Throwaway Filters, Add	23,932.77	
For Manual Roll Filter, Add	37,461.67	
For Automatic Roll Filter, Add	46,480.93	
For Hot Water Heating Coil, Aluminum Fins, Add	10,403.87	
For Electric Heating Coil, Add	12,207.72	
For Chilled Water Cooling Coil, Aluminum Fins, Add	37,461.67	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	37,461.67	
For Steam Heating Coil, Aluminum Fins, Add	19,423.13	
For Chilled Water Cooling Coil, Copper Fins, Add	46,480.93	
For Direct Expansion Cooling Coil, Copper Fins, Add	46,480.93	
For 2 Coils, Independent Circuits, Add	12,207.72	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 73 Indoor Central-Station Air-Handling Units



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 73 13 00-0081 EA 35,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	104,556.52	10,054.69
For Economizer, Panel, Controls And Damper(s), Add	3,625.48	
For Flat Filter Box And Throwaway Filters, Add	9,737.46	
For Medium Capacity Filter Box And Throwaway Filters, Add	14,534.37	
For Combination Filter Mixing Box And Throwaway Filters, Add	23,984.55	
For Manual Roll Filter, Add	37,513.45	
For Automatic Roll Filter, Add	46,532.72	
For Hot Water Heating Coil, Aluminum Fins, Add	10,455.65	
For Electric Heating Coil, Add	12,259.51	
For Chilled Water Cooling Coil, Aluminum Fins, Add	37,513.45	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	37,513.45	
For Steam Heating Coil, Aluminum Fins, Add	19,474.92	
For Chilled Water Cooling Coil, Copper Fins, Add	46,532.72	
For Direct Expansion Cooling Coil, Copper Fins, Add	46,532.72	
For 2 Coils, Independent Circuits, Add	12,259.51	
23 73 13 00-0082 EA 37,500 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	109,361.32	10,407.15
For Economizer, Panel, Controls And Damper(s), Add	3,690.21	
For Flat Filter Box And Throwaway Filters, Add	10,192.05	
For Medium Capacity Filter Box And Throwaway Filters, Add	15,213.66	
For Combination Filter Mixing Box And Throwaway Filters, Add	25,108.07	
For Manual Roll Filter, Add	39,280.02	
For Automatic Roll Filter, Add	48,727.98	
For Hot Water Heating Coil, Aluminum Fins, Add	10,936.13	
For Electric Heating Coil, Add	12,825.72	
For Chilled Water Cooling Coil, Aluminum Fins, Add	39,280.02	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	39,280.02	
For Steam Heating Coil, Aluminum Fins, Add	20,384.09	
For Chilled Water Cooling Coil, Copper Fins, Add	48,727.98	
For Direct Expansion Cooling Coil, Copper Fins, Add	48,727.98	
For 2 Coils, Independent Circuits, Add	12,825.72	
23 73 13 00-0083 EA 40,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	114,409.50	11,171.88
For Economizer, Panel, Controls And Damper(s), Add	3,823.65	
For Flat Filter Box And Throwaway Filters, Add	10,643.49	
For Medium Capacity Filter Box And Throwaway Filters, Add	15,885.49	
For Combination Filter Mixing Box And Throwaway Filters, Add	26,210.00	
For Manual Roll Filter, Add	40,979.05	
For Automatic Roll Filter, Add	50,825.09	
For Hot Water Heating Coil, Aluminum Fins, Add	11,440.95	
For Electric Heating Coil, Add	13,410.16	
For Chilled Water Cooling Coil, Aluminum Fins, Add	40,979.05	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	40,979.05	
For Steam Heating Coil, Aluminum Fins, Add	21,286.98	
For Chilled Water Cooling Coil, Copper Fins, Add	50,825.09	
For Direct Expansion Cooling Coil, Copper Fins, Add	50,825.09	
For 2 Coils, Independent Circuits, Add	13,410.16	
23 73 13 00-0084 EA 45,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	123,314.29	11,759.88
For Economizer, Panel, Controls And Damper(s), Add	3,920.69	
For Flat Filter Box And Throwaway Filters, Add	11,495.16	
For Medium Capacity Filter Box And Throwaway Filters, Add	17,159.11	
For Combination Filter Mixing Box And Throwaway Filters, Add	28,319.75	
For Manual Roll Filter, Add	44,308.07	
For Automatic Roll Filter, Add	54,966.95	
For Hot Water Heating Coil, Aluminum Fins, Add	12,331.43	
For Electric Heating Coil, Add	14,463.21	
For Chilled Water Cooling Coil, Aluminum Fins, Add	44,308.07	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	44,308.07	
For Steam Heating Coil, Aluminum Fins, Add	22,990.31	
For Chilled Water Cooling Coil, Copper Fins, Add	54,966.95	
For Direct Expansion Cooling Coil, Copper Fins, Add	54,966.95	
For 2 Coils, Independent Circuits, Add	14,463.21	
23 73 13 00-0085 EA 50,000 CFM Multizone Air Handling Unit, Built-Up, Horizontal / Vertical, Draw-Through Fan.....	132,574.96	12,406.67
For Economizer, Panel, Controls And Damper(s), Add	3,674.63	
For Flat Filter Box And Throwaway Filters, Add	12,370.18	
For Medium Capacity Filter Box And Throwaway Filters, Add	18,466.54	
For Combination Filter Mixing Box And Throwaway Filters, Add	30,481.79	
For Manual Roll Filter, Add	47,706.09	
For Automatic Roll Filter, Add	59,188.95	
For Hot Water Heating Coil, Aluminum Fins, Add	13,257.50	
For Electric Heating Coil, Add	15,554.07	
For Chilled Water Cooling Coil, Aluminum Fins, Add	47,706.09	
For Direct Expansion Cooling Coil, Aluminum Fins, Add	47,706.09	
For Steam Heating Coil, Aluminum Fins, Add	24,740.36	
For Chilled Water Cooling Coil, Copper Fins, Add	59,188.95	
For Direct Expansion Cooling Coil, Copper Fins, Add	59,188.95	
For 2 Coils, Independent Circuits, Add	15,554.07	



Heating, Ventilating, And Air-Conditioning (HVAC)

23

Central HVAC Equipment

23 70

Indoor Central-Station Air-Handling Units

23 73

23

Table with columns: MINOR CSI UOM DESCRIPTION, TOTAL DIRECT UNIT COST, DEMOLITION UNIT COST. Includes items like 23 73 13 00-0086 EA 55,000 CFM Multizone Air Handling Unit, 23 73 13 00-0087 EA 60,000 CFM Multizone Air Handling Unit, and 23 73 13 00-0088 Return/Supply Air Fan.

23 73 13 00-0134

Removal And Reinstallation Of Air Handling Unit (23 73 13)

Note: Air handling units with filter and coils. Includes storage and cleaning. Excludes ductwork.

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 73 Indoor Central-Station Air-Handling Units



MINOR				TOTAL DIRECT	DEMOLITION
CSI	UOM	DESCRIPTION		UNIT COST	UNIT COST
23 73 13 00-0135	EA	Removal And Reinstallation Of Up To 11,500 CFM Air Handling Unit.....		2,153.82	
23 73 13 00-0136	EA	Removal And Reinstallation Of >11,500 To 16,500 CFM Air Handling Unit.....		2,921.71	
23 73 13 00-0137	EA	Removal And Reinstallation Of >16,500 To 22,000 CFM Air Handling Unit.....		3,634.58	
23 73 13 00-0138	EA	Removal And Reinstallation Of >22,000 CFM Air Handling Unit.....		6,631.51	
23 74 Packaged Outdoor HVAC Equipment (23 70)					
23 74 16 Packaged Rooftop Air-Conditioning Units (23 74)					
23 74 16 13 Packaged, Large-Capacity, Rooftop Air-Conditioning Units (23 74 16)					
23 74 16 13-0001		Electric Cooling, Electric Heat, Self Contained Packaged Rooftop Air-Conditioning Units (23 74 16 13)			
		Note: Units up to 5 tons have 13 SEER. Units >5 to 11 tons have 11.7 EER, >11 to 20 tons have 11.7 EER, >20 to 63 tons have 10.5 EER and >63 tons have 9.2 EER. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment, 26 28 16 16-0001 for disconnects.			
23 74 16 13-0002	EA	2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		3,142.99	249.72
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-421.59	
		For Unit Economizer, Add		426.72	
		For Equipment Base Roof Curb, Add		384.56	
23 74 16 13-0003	EA	3 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		4,593.22	282.96
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-632.39	
		For Unit Economizer, Add		627.96	
		For Equipment Base Roof Curb, Add		564.72	
23 74 16 13-0004	EA	4 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		5,698.65	290.14
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-796.86	
		For Unit Economizer, Add		782.36	
		For Equipment Base Roof Curb, Add		702.67	
23 74 16 13-0005	EA	5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		7,125.55	363.79
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-996.07	
		For Unit Economizer, Add		978.17	
		For Equipment Base Roof Curb, Add		878.57	
23 74 16 13-0006	EA	6 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		8,532.05	390.75
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-1,201.66	
		For Unit Economizer, Add		1,173.65	
		For Equipment Base Roof Curb, Add		1,053.48	
23 74 16 13-0007	EA	7-1/2 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		9,938.55	417.69
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-1,407.24	
		For Unit Economizer, Add		1,369.12	
		For Equipment Base Roof Curb, Add		1,228.40	
23 74 16 13-0008	EA	8.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		11,520.89	431.16
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-1,641.90	
		For Unit Economizer, Add		1,589.93	
		For Equipment Base Roof Curb, Add		1,425.74	
23 74 16 13-0009	EA	10 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		13,092.70	438.35
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-1,876.32	
		For Unit Economizer, Add		1,809.62	
		For Equipment Base Roof Curb, Add		1,621.99	
23 74 16 13-0010	EA	12.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		16,372.62	552.44
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-2,345.41	
		For Unit Economizer, Add		2,262.70	
		For Equipment Base Roof Curb, Add		2,028.16	
23 74 16 13-0011	EA	15 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		19,643.54	660.22
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-2,814.49	
		For Unit Economizer, Add		2,714.88	
		For Equipment Base Roof Curb, Add		2,433.44	
23 74 16 13-0012	EA	17.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		22,133.35	761.73
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-3,167.75	
		For Unit Economizer, Add		3,058.07	
		For Equipment Base Roof Curb, Add		2,741.29	
23 74 16 13-0013	EA	20 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		24,632.12	869.53
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-3,521.00	
		For Unit Economizer, Add		3,402.15	
		For Equipment Base Roof Curb, Add		3,050.05	
23 74 16 13-0014	EA	22.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....		27,566.29	869.53
		Note: Electric load approximately 1/2 the cooling capacity.			
		For Unit Without Heat, Deduct		-3,961.13	
		For Unit Economizer, Add		3,812.93	
		For Equipment Base Roof Curb, Add		3,416.82	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0015 EA 25 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	30,814.86	1,104.87
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-4,401.26	
<i>For Unit Economizer, Add</i>	4,255.15	
<i>For Equipment Base Roof Curb, Add</i>	3,815.03	
23 74 16 13-0016 EA 27.5 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	33,910.71	1,226.13
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-4,841.38	
<i>For Unit Economizer, Add</i>	4,682.11	
<i>For Equipment Base Roof Curb, Add</i>	4,197.97	
23 74 16 13-0017 EA 30 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	37,006.57	1,347.40
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-5,281.51	
<i>For Unit Economizer, Add</i>	5,109.06	
<i>For Equipment Base Roof Curb, Add</i>	4,580.91	
23 74 16 13-0018 EA 35 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	43,054.56	1,482.14
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-6,161.76	
<i>For Unit Economizer, Add</i>	5,948.59	
<i>For Equipment Base Roof Curb, Add</i>	5,332.42	
23 74 16 13-0019 EA 40 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	46,004.98	1,610.59
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-6,578.72	
<i>For Unit Economizer, Add</i>	6,354.82	
<i>For Equipment Base Roof Curb, Add</i>	5,696.95	
23 74 16 13-0020 EA 45 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	51,765.70	1,819.00
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-7,401.06	
<i>For Unit Economizer, Add</i>	7,150.19	
<i>For Equipment Base Roof Curb, Add</i>	6,410.08	
23 74 16 13-0021 EA 50 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	57,517.45	2,021.10
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-8,223.40	
<i>For Unit Economizer, Add</i>	7,944.65	
<i>For Equipment Base Roof Curb, Add</i>	7,122.31	
23 74 16 13-0022 EA 55 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	61,281.30	2,122.60
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-8,767.76	
<i>For Unit Economizer, Add</i>	8,466.20	
<i>For Equipment Base Roof Curb, Add</i>	7,589.42	
23 74 16 13-0023 EA 60 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	65,009.21	2,196.26
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-9,312.13	
<i>For Unit Economizer, Add</i>	8,984.16	
<i>For Equipment Base Roof Curb, Add</i>	8,052.94	
23 74 16 13-0024 EA 65 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	70,326.33	2,304.06
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-10,088.14	
<i>For Unit Economizer, Add</i>	9,722.80	
<i>For Equipment Base Roof Curb, Add</i>	8,713.99	
23 74 16 13-0025 EA 70 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	75,643.47	2,411.85
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-10,864.15	
<i>For Unit Economizer, Add</i>	10,461.45	
<i>For Equipment Base Roof Curb, Add</i>	9,375.04	
23 74 16 13-0026 EA 75 Ton Electric Cooling, Electric Heat, Self Contained Package Rooftop Unit.....	80,574.52	2,519.64
Note: Electric load approximately 1/2 the cooling capacity.		
<i>For Unit Without Heat, Deduct</i>	-11,582.25	
<i>For Unit Economizer, Add</i>	11,146.05	
<i>For Equipment Base Roof Curb, Add</i>	9,987.83	
23 74 16 13-0027 Electric Cooling, Gas Heat, Self Contained Packaged Rooftop Air-Conditioning Units <small>(23 74 16 13)</small>		
Note: Units up to 5 tons have 13 SEER. Units >5 to 11 tons have 11.2 EER, >11 to 20 tons have 11 EER, >20 to 63 tons have 10 EER and >63 tons have 9.7 EER. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 74 16 13-0028 EA 2 Ton Electric Cooling, 50 MBH Gas Heating, Self Contained Package Rooftop Unit.....	4,314.36	249.72
<i>For Hot Water Heating Coil Instead Of Gas, Deduct</i>	-199.10	
<i>For Steam Heating Coil Instead Of Gas, Deduct</i>	-79.64	
<i>For Unit Economizer, Add</i>	590.72	
<i>For Equipment Base Roof Curb, Add</i>	530.99	
23 74 16 13-0029 EA 3 Ton Electric Cooling, 60 To 80 MBH Gas Heating, Self Contained Package Rooftop Unit.....	4,405.39	282.96
<i>For Hot Water Heating Coil Instead Of Gas, Deduct</i>	-201.41	
<i>For Steam Heating Coil Instead Of Gas, Deduct</i>	-80.56	
<i>For Unit Economizer, Add</i>	601.66	
<i>For Equipment Base Roof Curb, Add</i>	541.24	
23 74 16 13-0030 EA 4 Ton Electric Cooling, 80 To 110 MBH Gas Heating, Self Contained Package Rooftop Unit.....	5,160.02	290.14
<i>For Hot Water Heating Coil Instead Of Gas, Deduct</i>	-238.69	
<i>For Steam Heating Coil Instead Of Gas, Deduct</i>	-95.48	
<i>For Unit Economizer, Add</i>	706.95	
<i>For Equipment Base Roof Curb, Add</i>	635.35	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 74 Packaged Outdoor HVAC Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0031 EA 5 Ton Electric Cooling, 100 To 120 MBH Gas Heating, Self Contained Package Rooftop Unit	5,815.72	363.79
For Hot Water Heating Coil Instead Of Gas, Deduct	-266.53	
For Steam Heating Coil Instead Of Gas, Deduct	-106.61	
For Unit Economizer, Add	794.80	
For Equipment Base Roof Curb, Add	714.84	
23 74 16 13-0032 EA 6 Ton Electric Cooling, 140 MBH Gas Heating, Self Contained Package Rooftop Unit	6,713.76	390.75
For Hot Water Heating Coil Instead Of Gas, Deduct	-309.64	
For Steam Heating Coil Instead Of Gas, Deduct	-123.86	
For Unit Economizer, Add	919.09	
For Equipment Base Roof Curb, Add	826.20	
23 74 16 13-0033 EA 7-1/2 Ton Electric Cooling, 150 To 180 MBH Gas Heating, Self Contained Package Rooftop Unit	8,570.32	417.69
For Hot Water Heating Coil Instead Of Gas, Deduct	-400.67	
For Steam Heating Coil Instead Of Gas, Deduct	-160.27	
For Unit Economizer, Add	1,177.57	
For Equipment Base Roof Curb, Add	1,057.37	
23 74 16 13-0034 EA 8-1/2 Ton Electric Cooling, 170 MBH Gas Heating, Self Contained Package Rooftop Unit	9,549.46	431.16
For Hot Water Heating Coil Instead Of Gas, Deduct	-448.73	
For Steam Heating Coil Instead Of Gas, Deduct	-179.49	
For Unit Economizer, Add	1,313.93	
For Equipment Base Roof Curb, Add	1,179.31	
23 74 16 13-0035 EA 10 Ton Electric Cooling, 200 To 240 MBH Gas Heating, Self Contained Package Rooftop Unit	11,226.37	438.35
For Hot Water Heating Coil Instead Of Gas, Deduct	-532.13	
For Steam Heating Coil Instead Of Gas, Deduct	-212.85	
For Unit Economizer, Add	1,548.34	
For Equipment Base Roof Curb, Add	1,388.70	
23 74 16 13-0036 EA 12.5 Ton Electric Cooling, 250 MBH Gas Heating, Self Contained Package Rooftop Unit	13,496.58	552.44
For Hot Water Heating Coil Instead Of Gas, Deduct	-638.00	
For Steam Heating Coil Instead Of Gas, Deduct	-255.20	
For Unit Economizer, Add	1,860.06	
For Equipment Base Roof Curb, Add	1,668.66	
23 74 16 13-0037 EA 15 Ton Electric Cooling, 300 MBH Gas Heating, Self Contained Package Rooftop Unit	16,775.30	660.22
For Hot Water Heating Coil Instead Of Gas, Deduct	-794.75	
For Steam Heating Coil Instead Of Gas, Deduct	-317.90	
For Unit Economizer, Add	2,313.33	
For Equipment Base Roof Curb, Add	2,074.91	
23 74 16 13-0038 EA 17.5 Ton Electric Cooling, 330 MBH Gas Heating, Self Contained Package Rooftop Unit	19,990.05	761.73
For Hot Water Heating Coil Instead Of Gas, Deduct	-948.75	
For Steam Heating Coil Instead Of Gas, Deduct	-379.50	
For Unit Economizer, Add	2,758.01	
For Equipment Base Roof Curb, Add	2,473.38	
23 74 16 13-0039 EA 20 Ton Electric Cooling, 350 MBH Gas Heating, Self Contained Package Rooftop Unit	23,224.76	869.53
For Hot Water Heating Coil Instead Of Gas, Deduct	-1,103.30	
For Steam Heating Coil Instead Of Gas, Deduct	-441.32	
For Unit Economizer, Add	3,205.12	
For Equipment Base Roof Curb, Add	2,874.13	
23 74 16 13-0040 EA 22.5 Ton Electric Cooling, 380 MBH Gas Heating, Self Contained Package Rooftop Unit	26,082.46	987.20
For Hot Water Heating Coil Instead Of Gas, Deduct	-1,238.33	
For Steam Heating Coil Instead Of Gas, Deduct	-495.33	
For Unit Economizer, Add	3,598.91	
For Equipment Base Roof Curb, Add	3,227.41	
23 74 16 13-0041 EA 25 Ton Electric Cooling, 400 MBH Gas Heating, Self Contained Package Rooftop Unit	23,819.66	1,104.87
For Hot Water Heating Coil Instead Of Gas, Deduct	-1,117.33	
For Steam Heating Coil Instead Of Gas, Deduct	-446.93	
For Unit Economizer, Add	3,275.83	
For Equipment Base Roof Curb, Add	2,940.63	
23 74 16 13-0042 EA 27.5 Ton Electric Cooling, 450 MBH Gas Heating, Self Contained Package Rooftop Unit	26,923.71	1,226.13
For Hot Water Heating Coil Instead Of Gas, Deduct	-1,264.44	
For Steam Heating Coil Instead Of Gas, Deduct	-505.78	
For Unit Economizer, Add	3,703.93	
For Equipment Base Roof Curb, Add	3,324.59	
23 74 16 13-0043 EA 30 Ton Electric Cooling, 500 MBH Gas Heating, Self Contained Package Rooftop Unit	24,797.53	1,347.40
For Hot Water Heating Coil Instead Of Gas, Deduct	-1,150.05	
For Steam Heating Coil Instead Of Gas, Deduct	-460.02	
For Unit Economizer, Add	3,399.79	
For Equipment Base Roof Curb, Add	3,054.78	
23 74 16 13-0044 EA 35 Ton Electric Cooling, 550 MBH Gas Heating, Self Contained Package Rooftop Unit	32,583.68	1,482.14
For Hot Water Heating Coil Instead Of Gas, Deduct	-1,530.38	
For Steam Heating Coil Instead Of Gas, Deduct	-612.15	
For Unit Economizer, Add	4,482.67	
For Equipment Base Roof Curb, Add	4,023.56	
23 74 16 13-0045 EA 40 Ton Electric Cooling, 600 MBH Gas Heating, Self Contained Package Rooftop Unit	34,030.36	1,610.59
For Hot Water Heating Coil Instead Of Gas, Deduct	-1,594.18	
For Steam Heating Coil Instead Of Gas, Deduct	-637.67	
For Unit Economizer, Add	4,678.38	
For Equipment Base Roof Curb, Add	4,200.12	
23 74 16 13-0046 EA 45 Ton Electric Cooling, 650 MBH Gas Heating, Self Contained Package Rooftop Unit	42,052.82	1,819.00
For Hot Water Heating Coil Instead Of Gas, Deduct	-1,981.38	
For Steam Heating Coil Instead Of Gas, Deduct	-792.55	
For Unit Economizer, Add	5,790.38	
For Equipment Base Roof Curb, Add	5,195.97	
23 74 16 13-0047 EA 50 Ton Electric Cooling, 750 MBH Gas Heating, Self Contained Package Rooftop Unit	41,871.30	2,021.10
For Hot Water Heating Coil Instead Of Gas, Deduct	-1,958.83	
For Steam Heating Coil Instead Of Gas, Deduct	-783.53	
For Unit Economizer, Add	5,754.19	
For Equipment Base Roof Curb, Add	5,166.54	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0048 EA 55 Ton Electric Cooling, 800 MBH Gas Heating, Self Contained Package Rooftop Unit	52,989.54	2,122.60
For Hot Water Heating Coil Instead Of Gas, Deduct	-2,508.00	
For Steam Heating Coil Instead Of Gas, Deduct	-1,003.20	
For Unit Economizer, Add	7,305.35	
For Equipment Base Roof Curb, Add	6,552.95	
23 74 16 13-0049 EA 60 Ton Electric Cooling, 850 MBH Gas Heating, Self Contained Package Rooftop Unit	53,693.35	2,196.26
For Hot Water Heating Coil Instead Of Gas, Deduct	-2,538.25	
For Steam Heating Coil Instead Of Gas, Deduct	-1,015.30	
For Unit Economizer, Add	7,399.94	
For Equipment Base Roof Curb, Add	6,638.46	
23 74 16 13-0050 EA 65 Ton Electric Cooling, 900 MBH Gas Heating, Self Contained Package Rooftop Unit	62,923.07	2,304.06
For Hot Water Heating Coil Instead Of Gas, Deduct	-2,992.55	
For Steam Heating Coil Instead Of Gas, Deduct	-1,197.02	
For Unit Economizer, Add	8,686.35	
For Equipment Base Roof Curb, Add	7,788.58	
23 74 16 13-0051 EA 70 Ton Electric Cooling, 950 MBH Gas Heating, Self Contained Package Rooftop Unit	68,456.80	2,411.85
For Hot Water Heating Coil Instead Of Gas, Deduct	-3,262.05	
For Steam Heating Coil Instead Of Gas, Deduct	-1,304.82	
For Unit Economizer, Add	9,455.32	
For Equipment Base Roof Curb, Add	8,476.71	
23 74 16 13-0052 EA 75 Ton Electric Cooling, 1,000 MBH Gas Heating, Self Contained Package Rooftop Unit	72,907.02	2,519.64
For Hot Water Heating Coil Instead Of Gas, Deduct	-3,477.38	
For Steam Heating Coil Instead Of Gas, Deduct	-1,390.95	
For Unit Economizer, Add	10,072.60	
For Equipment Base Roof Curb, Add	9,029.39	
23 74 16 13-0053 EA 80 Ton Electric Cooling, 1,100 MBH Gas Heating, Self Contained Package Rooftop Unit	69,730.90	2,634.61
For Hot Water Heating Coil Instead Of Gas, Deduct	-3,310.93	
For Steam Heating Coil Instead Of Gas, Deduct	-1,324.37	
For Unit Economizer, Add	9,621.84	
For Equipment Base Roof Curb, Add	8,628.56	
23 74 16 13-0054 EA 90 Ton Electric Cooling, 1,200 MBH Gas Heating, Self Contained Package Rooftop Unit	81,841.83	2,755.88
For Hot Water Heating Coil Instead Of Gas, Deduct	-3,908.40	
For Steam Heating Coil Instead Of Gas, Deduct	-1,563.36	
For Unit Economizer, Add	11,310.90	
For Equipment Base Roof Curb, Add	10,138.38	
23 74 16 13-0055 EA 100 Ton Electric Cooling, 1,350 MBH Gas Heating, Self Contained Package Rooftop Unit	88,085.16	3,031.66
For Hot Water Heating Coil Instead Of Gas, Deduct	-4,202.15	
For Steam Heating Coil Instead Of Gas, Deduct	-1,680.86	
For Unit Economizer, Add	12,170.23	
For Equipment Base Roof Curb, Add	10,909.59	
23 74 16 13-0056 Gas Cooling, Gas Heat, Self Contained Packaged Rooftop Air-Conditioning		
Units <small>(23 74 16 13)</small>		
Note: Units up to 5 tons have 13 SEER. Units > 5 to 11 tons have 10.1 EER, >11 to 19 tons have 9.5 EER, >19 to 63 tons have 9.3 EER and >63 tons have 9.0 EER. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 74 16 13-0057 EA 2 Ton Gas Cooling, 80 MBH Gas Heating, Self Contained Package Rooftop Unit	4,621.24	249.72
For Unit Economizer, Add	633.68	
For Equipment Base Roof Curb, Add	569.35	
23 74 16 13-0058 EA 3 Ton Gas Cooling, 90 MBH Gas Heating, Self Contained Package Rooftop Unit	5,109.10	282.96
For Unit Economizer, Add	700.18	
For Equipment Base Roof Curb, Add	629.21	
23 74 16 13-0059 EA 4 Ton Gas Cooling, 110 MBH Gas Heating, Self Contained Package Rooftop Unit	5,967.56	290.14
For Unit Economizer, Add	820.01	
For Equipment Base Roof Curb, Add	736.29	
23 74 16 13-0060 EA 5 Ton Gas Cooling, 112 MBH Gas Heating, Self Contained Package Rooftop Unit	6,838.64	363.79
For Unit Economizer, Add	938.01	
For Equipment Base Roof Curb, Add	842.70	
23 74 16 13-0061 EA 6 Ton Gas Cooling, 150 MBH Gas Heating, Self Contained Package Rooftop Unit	7,949.85	390.75
For Unit Economizer, Add	1,092.14	
For Equipment Base Roof Curb, Add	980.71	
23 74 16 13-0062 EA 7.5 Ton Gas Cooling, 200 MBH Gas Heating, Self Contained Package Rooftop Unit	10,295.71	417.69
For Unit Economizer, Add	1,419.12	
For Equipment Base Roof Curb, Add	1,273.04	
23 74 16 13-0063 EA 8.5 Ton Gas Cooling, 240 MBH Gas Heating, Self Contained Package Rooftop Unit	13,301.92	431.16
For Unit Economizer, Add	1,839.27	
For Equipment Base Roof Curb, Add	1,648.37	
23 74 16 13-0064 EA 10 Ton Gas Cooling, 270 MBH Gas Heating, Self Contained Package Rooftop Unit	14,398.09	438.35
For Unit Economizer, Add	1,992.38	
For Equipment Base Roof Curb, Add	1,785.16	
23 74 16 13-0065 EA 12.5 Ton Gas Cooling, 335 MBH Gas Heating, Self Contained Package Rooftop Unit	16,540.03	552.44
For Unit Economizer, Add	2,286.14	
For Equipment Base Roof Curb, Add	2,049.09	
23 74 16 13-0066 EA 15 Ton Gas Cooling, 375 MBH Gas Heating, Self Contained Package Rooftop Unit	18,669.99	660.22
For Unit Economizer, Add	2,578.59	
For Equipment Base Roof Curb, Add	2,311.74	
23 74 16 13-0067 EA 17.5 Ton Gas Cooling, 400 MBH Gas Heating, Self Contained Package Rooftop Unit	24,337.07	761.73
For Unit Economizer, Add	3,366.59	
For Equipment Base Roof Curb, Add	3,016.76	
23 74 16 13-0068 EA 20 Ton Gas Cooling, 450 MBH Gas Heating, Self Contained Package Rooftop Unit	30,009.37	869.53
For Unit Economizer, Add	4,154.96	
For Equipment Base Roof Curb, Add	3,722.20	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 74 Packaged Outdoor HVAC Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0069 EA 22.5 Ton Gas Cooling, 490 MBH Gas Heating, Self Contained Package Rooftop Unit	35,464.99	987.20
For Unit Economizer, Add	4,912.46	
For Equipment Base Roof Curb, Add	4,400.22	
23 74 16 13-0070 EA 25 Ton Gas Cooling, 525 MBH Gas Heating, Self Contained Package Rooftop Unit	35,821.28	1,104.87
For Unit Economizer, Add	4,956.05	
For Equipment Base Roof Curb, Add	4,440.83	
23 74 16 13-0071 EA 30 Ton Gas Cooling, 650 MBH Gas Heating, Self Contained Package Rooftop Unit	42,414.55	1,347.40
For Unit Economizer, Add	5,866.18	
For Equipment Base Roof Curb, Add	5,256.91	
23 74 16 13-0072 EA 35 Ton Gas Cooling, 725 MBH Gas Heating, Self Contained Package Rooftop Unit	52,500.46	1,482.14
For Unit Economizer, Add	7,271.02	
For Equipment Base Roof Curb, Add	6,513.15	
23 74 16 13-0073 EA 40 Ton Gas Cooling, 800 MBH Gas Heating, Self Contained Package Rooftop Unit	55,032.07	1,610.59
For Unit Economizer, Add	7,618.62	
For Equipment Base Roof Curb, Add	6,825.34	
23 74 16 13-0074 EA 45 Ton Gas Cooling, 900 MBH Gas Heating, Self Contained Package Rooftop Unit	65,715.01	1,819.00
For Unit Economizer, Add	9,103.09	
For Equipment Base Roof Curb, Add	8,153.74	
23 74 16 13-0075 EA 50 Ton Gas Cooling, 1,000 MBH Gas Heating, Self Contained Package Rooftop Unit	66,938.51	2,021.10
For Unit Economizer, Add	9,263.60	
For Equipment Base Roof Curb, Add	8,299.94	
23 74 16 13-0076 EA 55 Ton Gas Cooling, 1,100 MBH Gas Heating, Self Contained Package Rooftop Unit	76,823.56	2,122.60
For Unit Economizer, Add	10,642.12	
For Equipment Base Roof Curb, Add	9,532.21	
23 74 16 13-0077 EA 60 Ton Gas Cooling, 1,200 MBH Gas Heating, Self Contained Package Rooftop Unit	75,622.79	2,196.26
For Unit Economizer, Add	10,470.06	
For Equipment Base Roof Curb, Add	9,379.64	
23 74 16 13-0078 EA 65 Ton Gas Cooling, 1,250 MBH Gas Heating, Self Contained Package Rooftop Unit	90,470.69	2,304.06
For Unit Economizer, Add	12,543.01	
For Equipment Base Roof Curb, Add	11,232.03	
23 74 16 13-0079 EA 70 Ton Gas Cooling, 1,300 MBH Gas Heating, Self Contained Package Rooftop Unit	99,452.92	2,411.85
For Unit Economizer, Add	13,794.78	
For Equipment Base Roof Curb, Add	12,351.22	
23 74 16 13-0080 EA 75 Ton Gas Cooling, 1,350 MBH Gas Heating, Self Contained Package Rooftop Unit	108,441.81	2,519.64
For Unit Economizer, Add	15,047.47	
For Equipment Base Roof Curb, Add	13,471.24	
23 74 16 13-0081 EA 80 Ton Gas Cooling, 1,400 MBH Gas Heating, Self Contained Package Rooftop Unit	108,923.73	2,634.61
For Unit Economizer, Add	15,108.83	
For Equipment Base Roof Curb, Add	13,527.66	
23 74 16 13-0082 EA 90 Ton Gas Cooling, 1,500 MBH Gas Heating, Self Contained Package Rooftop Unit	126,260.85	2,755.88
For Unit Economizer, Add	17,529.56	
For Equipment Base Roof Curb, Add	15,690.76	
23 74 16 13-0083 EA 100 Ton Gas Cooling, 1,700 MBH Gas Heating, Self Contained Package Rooftop Unit	141,984.47	3,031.66
For Unit Economizer, Add	19,716.14	
For Equipment Base Roof Curb, Add	17,647.00	
23 74 16 13-0084 AAON Rooftop Units <small>(23 74 16 13)</small>		
Note: The minimum EER for units 5 to 10 tons is 11.2, >10 to 20 tons is 11.0, and >20 is 10.0. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment, 26 28 16 16-0001 for disconnects.		
23 74 16 13-0085 AAON RQ Rooftop Units <small>(23 74 16 13-0084)</small>		
Note: Includes 2" double wall foam panel construction, direct drive fan with VFD (or ECM motor), single stage on/off scroll compressor, terminal strip for field supplied thermostat, gas heat, manually adjustable OSA damper, microchannel condenser coils. Excludes economizer, controls, disconnect, freight, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 74 16 13-0086 EA 2 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-002).....	6,225.71	179.65
For Factory Installed And Wired Dry Bulb Economizer, Add	741.69	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	804.68	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	633.52	
For Factory Installed Non-Fused Disconnect, Add	725.05	
For Factory Installed Exhaust Fan, Add	3,696.55	
For Hot Water Coil In Lieu Of Gas Heat, Add	862.92	
23 74 16 13-0087 EA 3 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-003).....	6,707.23	188.63
For Factory Installed And Wired Dry Bulb Economizer, Add	795.17	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	862.92	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	678.69	
For Factory Installed Non-Fused Disconnect, Add	777.34	
For Factory Installed Exhaust Fan, Add	3,696.55	
For Hot Water Coil In Lieu Of Gas Heat, Add	862.92	
23 74 16 13-0088 EA 4 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-004).....	6,830.98	197.61
For Factory Installed And Wired Dry Bulb Economizer, Add	795.17	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	862.92	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	678.69	
For Factory Installed Non-Fused Disconnect, Add	777.34	
For Factory Installed Exhaust Fan, Add	3,696.55	
For Hot Water Coil In Lieu Of Gas Heat, Add	862.92	
23 74 16 13-0089 EA 5 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-005).....	6,942.84	215.59
For Factory Installed And Wired Dry Bulb Economizer, Add	795.17	
For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add	862.92	
For Factory Authorized Start Up, 4 Hour, One Trip, Add	678.69	
For Factory Installed Non-Fused Disconnect, Add	777.34	
For Factory Installed Exhaust Fan, Add	3,696.55	
For Hot Water Coil In Lieu Of Gas Heat, Add	862.92	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0090 EA 6 Ton, Air Cooled Packaged Rooftop Units (AAON RQ-006)..... <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	7,596.71 795.17 862.92 678.69 777.34 3,696.55 862.92	224.57
23 74 16 13-0091 AAON RNA Rooftop Units (23 74 16 13-0084) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, single stage on/off compressor, terminal strip for field provided thermostat, gas heat, manually adjustable OSA damper. Excludes economizer, controls, disconnect, freight, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 74 16 13-0092 EA 6 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-006) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	9,470.09 773.78 1,188.60 792.80 732.18 1,974.26 672.75	233.55
23 74 16 13-0093 EA 7 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-007) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	10,146.67 773.78 1,188.60 792.80 732.18 1,974.26 672.75	251.51
23 74 16 13-0094 EA 8 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-008) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	11,737.29 773.78 1,188.60 792.80 732.18 1,974.26 672.75	269.48
23 74 16 13-0095 EA 10 Ton, Air Cooled Packaged Rooftop Units (AAON RNA-010) <i>For Factory Installed And Wired Dry Bulb Economizer, Add</i> <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	11,854.18 773.78 1,188.60 792.80 732.18 1,974.26 672.75	296.43
23 74 16 13-0096 AAON RNB Rooftop Units (23 74 16 13-0084) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, freight, roof curb, items not specifically mentioned above. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 74 16 13-0097 EA 9 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-009) <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	14,320.52 1,139.87 891.45 707.22 1,882.74 676.31	296.43
23 74 16 13-0098 EA 11 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-011) <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	14,576.09 1,139.87 891.45 707.22 1,882.74 676.31	332.36
23 74 16 13-0099 EA 13 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-013) <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	15,857.95 1,139.87 891.45 707.22 1,882.74 676.31	368.29
23 74 16 13-0100 EA 15 Ton, Air Cooled Packaged Rooftop Units (AAON RNB-015) <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	16,205.56 1,139.87 891.45 707.22 1,882.74 676.31	404.22
23 74 16 13-0101 AAON RNC Rooftop Units (23 74 16 13-0084) Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) on/off scroll compressors, terminal strip for field provided thermostat, gas heat, factory installed 3 position economizer. Excludes controls, disconnect, freight, roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0102 EA 16 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-016) <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	21,378.90 1,683.06 1,188.60 707.22 3,452.88 307.85	440.15

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 70 Central HVAC Equipment

23 74 Packaged Outdoor HVAC Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0103 EA 18 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-018)..... <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	23,117.17 1,683.06 1,188.60 707.22 3,452.88 307.85	476.08
23 74 16 13-0104 EA 20 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-020)..... <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	24,501.92 1,683.06 1,188.60 707.22 3,452.88 307.85	512.01
23 74 16 13-0105 EA 25 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-025)..... <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	26,234.80 1,683.06 1,188.60 707.22 3,452.88 307.85	583.87
23 74 16 13-0106 EA 30 Ton, Air Cooled Packaged Rooftop Units (AAON RNC-030)..... <i>For Single Zone VAV Controls, Includes Modulating Compressor And Supply Fan, Add</i> <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Factory Installed Exhaust Fan, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	29,617.45 1,683.06 1,188.60 707.22 3,452.88 307.85	664.72
23 74 16 13-0107 AAON RND Rooftop Units <small>(23 74 16 13-0084)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (2) variable capacity digital scroll compressor and (2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), factory installed non-fused disconnect, freight and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0108 EA 26 Ton, Air Cooled Packaged Rooftop Units (AAON RND-026)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	41,183.10 1,485.75 1,609.36 2,258.34	736.58
23 74 16 13-0109 EA 31 Ton, Air Cooled Packaged Rooftop Units (AAON RND-031)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	46,759.91 1,485.75 1,609.36 2,258.34	808.44
23 74 16 13-0110 EA 40 Ton, Air Cooled Packaged Rooftop Units (AAON RND-040)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	54,435.81 1,485.75 1,609.36 2,258.34	916.23
23 74 16 13-0111 EA 50 Ton, Air Cooled Packaged Rooftop Units (AAON RND-050)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	63,340.06 1,485.75 1,609.36 2,258.34	1,033.01
23 74 16 13-0112 EA 60 Ton, Air Cooled Packaged Rooftop Units (AAON RND-060)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	68,954.93 1,485.75 1,609.36 2,258.34	1,140.80
23 74 16 13-0113 EA 70 Ton, Air Cooled Packaged Rooftop Units (AAON RND-070)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	72,435.59 1,485.75 1,609.36 2,258.34	1,248.59
23 74 16 13-0114 AAON RNE Rooftop Units <small>(23 74 16 13-0084)</small> Note: Includes 2" double wall foam panel construction, direct drive fan with VFD, (1 or 2) variable speed VFD controlled scroll compressor and (1 or 2) on/off compressor, VAV unit controller (varies fan speed and compressor capacity for energy savings year round), cooling only - no heat, factory installed economizer with powered exhaust fans with VFD's, (building static pressure control), Microchannel condenser coils with VFD controlled condenser fans, factory installed non fused disconnect, freight and factory start up. Excludes roof curb, items not specifically mentioned above. Excludes crane and associated personnel.		
23 74 16 13-0115 EA 55 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-055)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	67,997.83 1,678.30 2,410.48 3,209.22	1,392.31
23 74 16 13-0116 EA 65 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-065)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	74,671.10 1,678.30 2,410.48 3,209.22	1,545.02
23 74 16 13-0117 EA 75 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-075)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	79,367.07 1,678.30 2,410.48 3,209.22	1,688.74
23 74 16 13-0118 EA 95 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-090)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	94,442.54 1,678.30 2,410.48 3,209.22	1,841.45
23 74 16 13-0119 EA 105 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-105)..... <i>For Factory Authorized Start Up, 4 Hour, One Trip, Add</i> <i>For Factory Installed Non-Fused Disconnect, Add</i> <i>For Hot Water Coil In Lieu Of Gas Heat, Add</i>	101,701.14 1,678.30 2,410.48 3,209.22	2,021.10



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0120 EA 120 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-120)	119,130.60	2,200.75
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,678.30	
For Factory Installed Non-Fused Disconnect, Add	2,410.48	
For Hot Water Coil In Lieu Of Gas Heat, Add	3,209.22	
23 74 16 13-0121 EA 130 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-130)	121,789.32	2,389.39
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,678.30	
For Factory Installed Non-Fused Disconnect, Add	2,410.48	
For Hot Water Coil In Lieu Of Gas Heat, Add	3,209.22	
23 74 16 13-0122 EA 140 Ton, Air Cooled Packaged Rooftop Units (AAON RNE-140)	126,720.64	2,569.04
For Factory Authorized Start Up, 4 Hour, One Trip, Add	1,678.30	
For Factory Installed Non-Fused Disconnect, Add	2,410.48	
For Hot Water Coil In Lieu Of Gas Heat, Add	3,209.22	
23 74 16 13-0123 Heating Only Packaged Rooftop Units <small>(23 74 16 13)</small>		
Note: Includes throwaway filters and filter rack. Manual outside air damper, roof curbs and electric heat. Units are shipped fully factory assembled in one piece, prewired and include start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 74 16 13-0124 EA 24 MBH Electric Heating Only Self Contained Package Rooftop Unit	3,105.03	278.46
For Gas Heat, Add	206.21	
23 74 16 13-0125 EA 32 MBH Electric Heating Only Self Contained Package Rooftop Unit	3,665.86	323.38
For Gas Heat, Add	243.68	
23 74 16 13-0126 EA 45 MBH Electric Heating Only Self Contained Package Rooftop Unit	5,050.53	332.36
For Gas Heat, Add	340.24	
23 74 16 13-0127 EA 60 MBH Electric Heating Only Self Contained Package Rooftop Unit	5,854.36	422.18
For Gas Heat, Add	393.10	
23 74 16 13-0128 EA 95 MBH Electric Heating Only Self Contained Package Rooftop Unit	6,931.13	485.06
For Gas Heat, Add	465.78	
23 74 16 13-0129 EA 112 MBH Electric Heating Only Self Contained Package Rooftop Unit	7,845.89	520.99
For Gas Heat, Add	528.19	
23 74 16 13-0130 EA 140 MBH Electric Heating Only Self Contained Package Rooftop Unit	9,407.03	565.91
For Gas Heat, Add	636.39	
23 74 16 13-0131 EA 170 MBH Electric Heating Only Self Contained Package Rooftop Unit	12,203.03	583.87
For Gas Heat, Add	830.68	
23 74 16 13-0132 EA 200 MBH Electric Heating Only Self Contained Package Rooftop Unit	16,415.98	664.72
For Gas Heat, Add	1,122.71	
23 74 16 13-0133 EA 230 MBH Electric Heating Only Self Contained Package Rooftop Unit	19,325.27	736.58
For Gas Heat, Add	1,323.31	
23 74 16 13-0134 EA 270 MBH Electric Heating Only Self Contained Package Rooftop Unit	25,489.18	898.27
For Gas Heat, Add	1,748.31	
23 74 16 13-0135 EA 330 MBH Electric Heating Only Self Contained Package Rooftop Unit	31,944.13	1,077.92
For Gas Heat, Add	2,193.15	
23 74 16 13-0136 EA 360 MBH Electric Heating Only Self Contained Package Rooftop Unit	39,842.94	1,347.40
For Gas Heat, Add	2,735.11	
23 74 16 13-0137 EA 450 MBH Electric Heating Only Self Contained Package Rooftop Unit	48,346.21	1,473.16
For Gas Heat, Add	3,325.67	
23 74 16 13-0138 EA 540 MBH Electric Heating Only Self Contained Package Rooftop Unit	62,450.43	1,760.60
For Gas Heat, Add	4,301.29	
23 74 16 13-0139 Heat Pump, Packaged Rooftop Heat Pump Units <small>(23 74 16 13)</small>		
Note: Includes evaporator and condenser coils, electric heat, thermostatic expansion valve, compressor, evaporator and condenser fans, refrigerant charge, filter section with filter, operation and safety controls, motors, condensate drain pan, condenser coil guards, manual outside air damper, and roof curb. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.		
23 74 16 13-0140 Packaged Rooftop Heat Pump Units <small>(23 74 16 13-0139)</small>		
Note: Includes evaporator and condenser coils, electric heat, thermostatic expansion valve, compressor, evaporator and condenser fans, refrigerant charge, filter section with filter, operation and safety controls, motors, condensate drain pan, condenser coil guards, manual outside air damper, and roof curb. Excludes crane and associated personnel.		
23 74 16 13-0141 EA 2 Ton Packaged Rooftop Heat Pump	5,193.72	368.29
For Economizer With Outside Air Control, Add	1,304.29	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	222.86	
23 74 16 13-0142 EA 2.5 Ton Packaged Rooftop Heat Pump	5,434.56	386.26
For Economizer With Outside Air Control, Add	1,367.69	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	232.65	
23 74 16 13-0143 EA 3 Ton Packaged Rooftop Heat Pump	5,733.34	422.18
For Economizer With Outside Air Control, Add	1,446.26	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	244.90	
23 74 16 13-0144 EA 3.5 Ton Packaged Rooftop Heat Pump	6,157.17	449.14
For Economizer With Outside Air Control, Add	1,346.11	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	262.50	
23 74 16 13-0145 EA 4 Ton Packaged Rooftop Heat Pump	6,572.00	485.06
For Economizer With Outside Air Control, Add	1,437.38	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	280.09	
23 74 16 13-0146 EA 5 Ton Packaged Rooftop Heat Pump	7,046.29	520.99
For Economizer With Outside Air Control, Add	1,544.69	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	239.81	
23 74 16 13-0147 EA 6 Ton Packaged Rooftop Heat Pump	7,977.75	556.93
For Economizer With Outside Air Control, Add	1,723.79	
For Economizer With Outside Air Control, Add	1,311.95	
For Upgrade Of Economizer To OS Air Enthalpy Control, Add	205.92	

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 70 Central HVAC Equipment****23 74 Packaged Outdoor HVAC Equipment**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 74 16 13-0148 EA 7.5 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	10,662.40 1,726.65 1,631.79 284.57	583.87
23 74 16 13-0149 EA 8.5 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	11,978.05 1,804.54 321.88	628.79
23 74 16 13-0150 EA 10 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	12,979.87 1,826.17 233.19	664.72
23 74 16 13-0151 EA 12.5 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	15,248.67 2,114.13 275.51	736.58
23 74 16 13-0152 EA 15 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	17,508.48 2,397.60 317.83	808.44
23 74 16 13-0153 EA 17.5 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	19,599.48 2,606.70 359.65	844.37
23 74 16 13-0154 EA 20 Ton Packaged Rooftop Heat Pump..... <i>For Economizer With Outside Air Control, Add</i> <i>For Upgrade Of Economizer To OS Air Enthalpy Control, Add</i>	21,834.20 2,887.66 401.47	880.30

23 74 23 Packaged, Outdoor, Heating-Only Makeup-Air Units (23 74)**23 74 23 13 Packaged, Direct-Fired, Outdoor, Heating-Only Makeup-Air Units (23 74 23)****23 74 23 13-0001 Make-Up Air Units (23 74 23 13)**

Note: Including throwaway filters. Units are shipped fully factory assembled in one piece, prewired, prepiped, charged with refrigerant, and include start-up. Excludes crane and associated personnel. See CSI section 01 22 23 00-0840 for crane lifting equipment.

23 74 23 13-0002 Gas-Fired Electric Spark Make-Up Air Units (23 74 23 13-0001)

Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-0841 for crane lifting equipment.

23 74 23 13-0003 EA 100,000 BTU 1/2 HP, 1,200 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	4,461.22 1,136.26 537.44	404.22
23 74 23 13-0004 EA 300,000 BTU 1-1/2 HP, 3,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	5,730.98 1,487.99 693.24	458.12
23 74 23 13-0005 EA 500,000 BTU 2 HP, 4,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	7,912.83 2,104.37 962.16	538.96
23 74 23 13-0006 EA 670,000 BTU 3 HP, 6,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	7,999.28 2,110.09 970.94	574.89
23 74 23 13-0007 EA 800,000 BTU 5 HP, 7,500 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	10,846.41 2,930.55 1,323.46	646.75
23 74 23 13-0008 EA 1,200,000 BTU 10 HP, 10,000 CFM, Make-up Air Unit, Gas Fired, Electric Spark..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	16,344.78 4,499.21 2,002.68	808.44

23 74 23 13-0009 Electric Make-Up Air Units (23 74 23 13-0001)

Note: With 2-position damper curb filter and thermostat with capillary. Excludes crane and associated personnel. See CSI section 01 22 23 00-0841 for crane lifting equipment.

23 74 23 13-0010 EA 33 KW, 1/2 HP, 1,200 CFM Make-up Air Unit, Electric..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	8,959.03 2,485.60 1,099.67	404.22
23 74 23 13-0011 EA 100 KW, 1-1/2 HP, 3,500 CFM Make-up Air Unit, Electric..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	12,750.58 3,593.87 1,570.69	458.12
23 74 23 13-0012 EA 150 KW, 2 HP, 4,000 CFM Make-up Air Unit, Electric..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	15,779.71 4,464.43 1,945.52	538.96
23 74 23 13-0013 EA 250 KW, 5 HP, 7,500 CFM Make-up Air Unit, Electric..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	20,387.76 5,792.95 2,516.13	646.75
23 74 23 13-0014 EA 400 KW, 10 HP, 10,000 CFM Make-up Air Unit, Electric..... <i>For Welded Exterior Waterproof Casing, Double-Wall, With Insulation, Add</i> <i>For Equipment Base Roof Curb, Add</i>	32,841.96 9,448.37 4,064.82	808.44

23 76 Evaporative Air-Cooling Equipment (23 70)**23 76 13 Direct Evaporative Air Coolers (23 76)****23 76 13 00-0001 Residential Side Or Down Draft Evaporative Cooling Unit (23 76 13)**

Note: Includes motor, belt and pads.

23 76 13 00-0002 EA 3,000 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit.....	1,100.76	253.01
23 76 13 00-0003 EA 4,300 CFM, 1/3 HP Residential Side Or Down Draft Evaporative Cooling Unit.....	1,300.74	295.18
23 76 13 00-0004 EA 4,400 CFM, 1/2 HP Residential Side Or Down Draft Evaporative Cooling Unit.....	1,690.06	337.35
23 76 13 00-0005 EA 5,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit.....	1,837.94	379.51



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 76 13 00-0006	EA	6,000 CFM, 3/4 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,112.89	421.68
23 76 13 00-0007	EA	7,000 CFM, 1 HP Residential Side Or Down Draft Evaporative Cooling Unit	2,273.48	463.85

23 76 13 00-0008 Industrial Side Draft/Side Discharge Evaporative Coolers ^(23 76 13)
 Note: Excludes motor starter, piping, power wiring and equipment rigging.

23 76 13 00-0009	EA	7,500 CFM, 3/4 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	2,174.32	268.79
23 76 13 00-0010	EA	8,500 CFM, 1 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	2,243.89	277.48
23 76 13 00-0011	EA	9,500 CFM, 1 1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	2,675.75	385.38
23 76 13 00-0012	EA	11,375 CFM, 2 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	5,702.04	454.90
23 76 13 00-0013	EA	13,020 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	6,182.64	665.98
23 76 13 00-0014	EA	16,267 CFM, 3 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	7,079.68	710.37
23 76 13 00-0015	EA	15,438 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	6,512.57	799.17
23 76 13 00-0016	EA	19,286 CFM, 5 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	7,728.02	998.96
23 76 13 00-0017	EA	17,672 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	7,777.52	1,305.84
23 76 13 00-0018	EA	22,077 CFM, 7-1/2 HP Industrial Side Or Down Draft Evaporative Cooling Unit	8,649.43	1,331.94
23 76 13 00-0019	EA	24,301 CFM, 10 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	9,114.44	1,479.97
23 76 13 00-0020	EA	30,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	12,249.69	2,312.43
23 76 13 00-0021	EA	35,000 CFM, 20 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	13,721.58	2,412.95
23 76 13 00-0022	EA	40,000 CFM, 30 HP Industrial Side Or Down Draft Evaporative Cooling Unit.....	15,211.76	2,522.62

23 80 Decentralized Unitary HVAC Equipment ⁽²³⁾

Note: Where required, mechanical equipment excludes electrical connection, disconnect, or starter unless title states otherwise. See CSI section 23 05 29 00-0000 for hangers and supports, 26 05 19 16-0011 for electrical connection and termination, 26 05 83 00-0130 for terminations, 26 28 16 16-0001 for disconnect.

23 81 Decentralized Unitary HVAC Equipment ^(23 80)

23 81 13 Packaged Terminal Air-Conditioners ^(23 81)

Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.

23 81 13 11 Packaged Terminal Air-Conditioners, Through-Wall Units ^(23 81 13)

23 81 13 11-0001	EA	Packaged Terminal Air-Conditioners ^(23 81 13 11)		
23 81 13 11-0002	EA	Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioners ^(23 81 13 11-0001)		
23 81 13 11-0003	EA	7,200 BTU, 13 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,238.21	158.13
		For >35 To 70, Deduct	-27.66	
		For >70 To 100, Deduct	-46.10	
		For >100, Deduct	-64.54	
23 81 13 11-0004	EA	9,400 BTU, 12.1 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,347.94	205.37
		For >35 To 70, Deduct	-28.13	
		For >70 To 100, Deduct	-46.88	
		For >100, Deduct	-65.64	
23 81 13 11-0005	EA	11,800 BTU, 11.6 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,427.87	218.86
		For >35 To 70, Deduct	-29.69	
		For >70 To 100, Deduct	-49.48	
		For >100, Deduct	-69.27	
23 81 13 11-0006	EA	14,500 BTU, 10.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Packaged Terminal Air-Conditioner	1,542.10	235.26
		For >35 To 70, Deduct	-32.15	
		For >70 To 100, Deduct	-53.59	
		For >100, Deduct	-75.03	
23 81 13 11-0007	EA	Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioners ^(23 81 13 11-0001)		
23 81 13 11-0008	EA	7,200 BTU, 13 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	1,349.71	182.23
		For >35 To 70, Deduct	-29.58	
		For >70 To 100, Deduct	-49.29	
		For >100, Deduct	-69.01	
23 81 13 11-0009	EA	9,400 BTU, 12.1 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	1,431.32	205.37
		For >35 To 70, Deduct	-30.63	
		For >70 To 100, Deduct	-51.05	
		For >100, Deduct	-71.47	
23 81 13 11-0010	EA	11,800 BTU, 11.6 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	1,488.29	218.86
		For >35 To 70, Deduct	-31.50	
		For >70 To 100, Deduct	-52.50	
		For >100, Deduct	-73.50	
23 81 13 11-0011	EA	14,500 BTU, 10.4 EER, 230/208 Volt, Heat Pump, Heating And Cooling, Packaged Terminal Air-Conditioner	1,621.85	235.26
		For >35 To 70, Deduct	-34.55	
		For >70 To 100, Deduct	-57.58	
		For >100, Deduct	-80.61	
23 81 13 11-0012	EA	Packaged Terminal Air-Conditioners, Through-Wall Unit Sleeve ^(23 81 13 11)		
23 81 13 11-0013	EA	Up To 10,000 BTU Unit, Thru Wall A/C Sleeve.....	75.26	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 13 11-0014	EA		>10,000 To 20,000 BTU Unit, Thru Wall A/C Sleeve	84.99	
23 81 13 11-0015	EA		>20,000 To 30,000 BTU Unit, Thru Wall A/C Sleeve	94.72	
23 81 13 11-0016			Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units <small>(23 81 13 11)</small>		
			Note: Includes storage and cleaning.		
23 81 13 11-0017	EA		Removal And Reinstallation Of Packaged Terminal Air-Conditioners, Through-Wall Units	168.67	
23 81 13 13			Packaged Terminal Air-Conditioners, Outdoor, Wall-Mounted Units <small>(23 81 13)</small>		
23 81 13 13-0001			Single Package Vertical Wall Cooling Unit <small>(23 81 13 13)</small>		
			Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 Volt, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-0841 for crane lifting equipment.		
23 81 13 13-0002	EA		1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	2,971.64	191.77
23 81 13 13-0003	EA		1 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	5,680.29	200.90
23 81 13 13-0004	EA		1-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	7,429.68	210.03
23 81 13 13-0005	EA		2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	8,544.62	228.29
23 81 13 13-0006	EA		2-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	10,717.71	264.82
23 81 13 13-0007	EA		3 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	11,498.28	328.74
23 81 13 13-0008	EA		3-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	12,729.82	365.27
23 81 13 13-0009	EA		4 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	14,018.11	410.93
23 81 13 13-0010	EA		5 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	15,771.70	493.13
23 81 13 13-0011	EA		7-1/2 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	20,388.62	611.83
23 81 13 13-0012	EA		10 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	24,318.56	821.87
23 81 13 13-0013	EA		15 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	34,100.60	1,004.51
23 81 13 13-0014	EA		20 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	39,285.26	1,196.27
23 81 13 13-0015	EA		25 Ton Single Package Cooling, Vertical Wall Unit, Air To Air Type With Electric Heat	46,956.02	1,342.39
23 81 16			Room Air-Conditioners <small>(23 81)</small>		
			Note: Units consists of fresh air intake, throwaway filters, exhaust, automatic thermostat, hermetically sealed compressor with 5 year guarantee, "sleeve-type" construction, condensing fan motor enclosed, fan to be aluminum, three wire ground cord, multi speed fan, exposed steel parts to be phosphate bonderized with baked enamel finish and copper tubes mechanically expanded into aluminum of evaporator and condensing coils. Includes equipment rigging. Efficiency Rating (ER) not less than 9.		
23 81 16 00-0001			Window Unit, Room Air-Conditioners <small>(23 81 16)</small>		
23 81 16 00-0002			Cooling Only, Window Unit, Room Air-Conditioners <small>(23 81 16 00-0001)</small>		
23 81 16 00-0003			Cooling Only, Window Unit, Room Air-Conditioners (Frigidaire) <small>(23 81 16 00-0002)</small>		
23 81 16 00-0004	EA		5,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0533Q1)	409.36	88.55
			For >10 To 50, Deduct	-11.61	
			For >50 To 75, Deduct	-16.26	
			For >75 To 100, Deduct	-23.23	
			For >100, Deduct	-27.87	
23 81 16 00-0005	EA		6,000 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0633Q1)	432.70	88.55
			For >10 To 50, Deduct	-12.78	
			For >50 To 75, Deduct	-17.89	
			For >75 To 100, Deduct	-25.56	
			For >100, Deduct	-30.67	
23 81 16 00-0006	EA		8,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE0833U1)	491.06	88.55
			For >10 To 50, Deduct	-15.70	
			For >50 To 75, Deduct	-21.98	
			For >75 To 100, Deduct	-31.40	
			For >100, Deduct	-37.67	
23 81 16 00-0007	EA		10,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1033U1)	501.53	88.55
			For >10 To 50, Deduct	-16.22	
			For >50 To 75, Deduct	-22.71	
			For >75 To 100, Deduct	-32.44	
			For >100, Deduct	-38.93	
23 81 16 00-0008	EA		12,000 BTU, 11.3 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1233Q1)	677.80	88.55
			For >10 To 50, Deduct	-25.03	
			For >50 To 75, Deduct	-35.05	
			For >75 To 100, Deduct	-50.07	
			For >100, Deduct	-60.08	
23 81 16 00-0009	EA		15,100 BTU, 11.2 EER, 115 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1533Q1)	794.51	88.55
			For >10 To 50, Deduct	-30.87	
			For >50 To 75, Deduct	-43.22	
			For >75 To 100, Deduct	-61.74	
			For >100, Deduct	-74.09	
23 81 16 00-0010	EA		8,000 BTU, 10.9 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS0833Q1)	747.82	88.55
			For >10 To 50, Deduct	-28.54	
			For >50 To 75, Deduct	-39.95	
			For >75 To 100, Deduct	-57.07	
			For >100, Deduct	-68.49	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 16 00-0011 EA 10,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1022Q1)	806.18	88.55
<i>For >10 To 50, Deduct</i>	-31.45	
<i>For >50 To 75, Deduct</i>	-44.03	
<i>For >75 To 100, Deduct</i>	-62.91	
<i>For >100, Deduct</i>	-75.49	
23 81 16 00-0012 EA 12,000 BTU, 9.5 EER, 115 Volt, Cooling Only, Casement Window Unit, Room Air-Conditioner (Frigidaire FFRS1222Q1)	852.86	88.55
<i>For >10 To 50, Deduct</i>	-33.79	
<i>For >50 To 75, Deduct</i>	-47.30	
<i>For >75 To 100, Deduct</i>	-67.58	
<i>For >100, Deduct</i>	-81.09	
23 81 16 00-0013 EA 18,500 BTU, 11.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE1833Q2)	899.54	88.55
<i>For >10 To 50, Deduct</i>	-36.12	
<i>For >50 To 75, Deduct</i>	-50.57	
<i>For >75 To 100, Deduct</i>	-72.24	
<i>For >100, Deduct</i>	-86.69	
23 81 16 00-0014 EA 22,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2233S2)	992.91	88.55
<i>For >10 To 50, Deduct</i>	-40.79	
<i>For >50 To 75, Deduct</i>	-57.11	
<i>For >75 To 100, Deduct</i>	-81.58	
<i>For >100, Deduct</i>	-97.90	
23 81 16 00-0015 EA 25,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRE2533S2)	1,004.58	88.55
<i>For >10 To 50, Deduct</i>	-41.37	
<i>For >50 To 75, Deduct</i>	-57.92	
<i>For >75 To 100, Deduct</i>	-82.75	
<i>For >100, Deduct</i>	-99.30	
23 81 16 00-0016 EA 28,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Frigidaire FFRA2822R2)	1,139.16	88.55
<i>For >10 To 50, Deduct</i>	-48.10	
<i>For >50 To 75, Deduct</i>	-67.34	
<i>For >75 To 100, Deduct</i>	-96.21	
<i>For >100, Deduct</i>	-115.45	
23 81 16 00-0017 Cooling Only, Window Unit, Room Air-Conditioners (Friedrich Kuhl) (23 81 16 00-0002)		
23 81 16 00-0018 EA 8,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS08N10C)	1,206.26	88.55
23 81 16 00-0019 EA 10,000 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS10N10C)	1,320.73	88.55
23 81 16 00-0020 EA 11,900 BTU, 12.2 EER, 110 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N10C)	1,372.76	88.55
23 81 16 00-0021 EA 12,000 BTU, 12.2 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SS12N30C)	1,393.57	88.55
23 81 16 00-0022 EA 20,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SM18N30C)	1,580.88	88.55
23 81 16 00-0023 EA 24,000 BTU, 10.4 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL24N30C)	2,049.15	88.55
23 81 16 00-0024 EA 28,000 BTU, 10.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL28N30C)	2,205.24	88.55
23 81 16 00-0025 EA 36,000 BTU, 9.0 EER, 230/208 Volt, Cooling Only, Window Unit, Room Air-Conditioner (Friedrich SL36N30B)	2,413.36	88.55
23 81 16 00-0026 Heating And Cooling, Window Unit, Room Air-Conditioners (23 81 16 00-0001)		
23 81 16 00-0027 Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Frigidaire) (23 81 16 00-0026)		
23 81 16 00-0028 EA 8,000 BTU, 9.8 EER, 115 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH0822R1)	852.86	88.55
<i>For >10 To 50, Deduct</i>	-33.79	
<i>For >50 To 75, Deduct</i>	-47.30	
<i>For >75 To 100, Deduct</i>	-67.58	
<i>For >100, Deduct</i>	-81.09	
23 81 16 00-0029 EA 12,000 BTU, 10.9 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1222R2)	981.24	88.55
<i>For >10 To 50, Deduct</i>	-40.21	
<i>For >50 To 75, Deduct</i>	-56.29	
<i>For >75 To 100, Deduct</i>	-80.41	
<i>For >100, Deduct</i>	-96.50	
23 81 16 00-0030 EA 18,500 BTU, 10.7 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH1822R2)	1,051.27	88.55
<i>For >10 To 50, Deduct</i>	-43.71	
<i>For >50 To 75, Deduct</i>	-61.19	
<i>For >75 To 100, Deduct</i>	-87.42	
<i>For >100, Deduct</i>	-104.90	
23 81 16 00-0031 EA 25,000 BTU, 9.4 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Frigidaire FFRH2522R2)	1,308.03	88.55
<i>For >10 To 50, Deduct</i>	-56.55	
<i>For >50 To 75, Deduct</i>	-79.16	
<i>For >75 To 100, Deduct</i>	-113.09	
<i>For >100, Deduct</i>	-135.71	
23 81 16 00-0032 Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioners (Friedrich) (23 81 16 00-0026)		
23 81 16 00-0033 EA 12,000 BTU, 11.3 EER, 230/208 Volt, Electric Heat, Heating And Cooling, Window Unit, Room Air-Conditioner (Friedrich ES12N33B)	1,445.60	88.55
23 81 16 00-0034 Accessories (23 81 16 00-0001)		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81	16 00-0035	SET	Aluminum Air Conditioner Unit Frame And Bracket Assembly.....	380.00	53.03
23 81	16 00-0036		Removal And Reinstallation Of Room Air-Conditioners (23 81 16)		
			Note: Includes storage and cleaning.		
23 81	16 00-0037	EA	Removal And Reinstallation Of Room Air-Conditioning Unit In Window Lower Sash.....	105.42	
23 81	16 00-0038	EA	Removal And Reinstallation Of Room Air-Conditioning Unit In Window Upper Sash.....	229.33	
23 81	16 00-0039		Through-The-Wall, Room Air-Conditioners (23 81 16)		
			Note: Base unit excludes wall sleeve.		
23 81	16 00-0040		Cooling Only, Through-The-Wall, Room Air-Conditioners (23 81 16 00-0039)		
23 81	16 00-0041		Cooling Only, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 16 00-0040)		
23 81	16 00-0042	EA	8,000 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS08D10A).....	905.91	63.25
			For >10 To 50, Deduct	-38.97	
			For >50 To 75, Deduct	-54.56	
			For >75 To 100, Deduct	-77.94	
			For >100, Deduct	-93.53	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	226.73	
23 81	16 00-0043	EA	9,800 BTU, 10.7 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D10B).....	978.75	63.25
			For >10 To 50, Deduct	-42.61	
			For >50 To 75, Deduct	-59.66	
			For >75 To 100, Deduct	-85.23	
			For >100, Deduct	-102.27	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	226.73	
23 81	16 00-0044	EA	12,000 BTU, 9.8 EER, 115 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D10A).....	1,114.03	63.25
			For >10 To 50, Deduct	-49.38	
			For >50 To 75, Deduct	-69.13	
			For >75 To 100, Deduct	-98.75	
			For >100, Deduct	-118.50	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	226.73	
23 81	16 00-0045	EA	10,000 BTU, 10.7 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS10D30A).....	978.75	63.25
			For >10 To 50, Deduct	-42.61	
			For >50 To 75, Deduct	-59.66	
			For >75 To 100, Deduct	-85.23	
			For >100, Deduct	-102.27	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	226.73	
23 81	16 00-0046	EA	12,000 BTU, 9.8 EER, 230/208 Volt, Cooling Only, Through-The-Wall, Room Air-Conditioner (Friedrich WS12D30A).....	1,114.03	63.25
			For >10 To 50, Deduct	-49.38	
			For >50 To 75, Deduct	-69.13	
			For >75 To 100, Deduct	-98.75	
			For >100, Deduct	-118.50	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	226.73	
23 81	16 00-0047		Heating And Cooling, Through-The-Wall, Room Air-Conditioners (23 81 16 00-0039)		
23 81	16 00-0048		Electric Heat, Heating And Cooling, Through-The-Wall, Room Air-Conditioners (Friedrich) (23 81 16 00-0047)		
23 81	16 00-0049	EA	10,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE10D33).....	1,145.25	63.25
			For >10 To 50, Deduct	-50.94	
			For >50 To 75, Deduct	-71.31	
			For >75 To 100, Deduct	-101.88	
			For >100, Deduct	-122.25	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	226.73	
23 81	16 00-0050	EA	12,000 BTU, 9.8 EER, 230/208 Volt, Heating And Cooling, Through-The-Wall, Room Air-Conditioner (Friedrich WE12D33).....	1,228.50	63.25
			For >10 To 50, Deduct	-55.10	
			For >50 To 75, Deduct	-77.14	
			For >75 To 100, Deduct	-110.20	
			For >100, Deduct	-132.24	
			For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	226.73	
23 81	23		Computer-Room Air-Conditioners (23 81)		
			Note: Includes equipment rigging. Indoor units include filters.		
23 81	23 12		Large-Capacity, Computer-Room Air-Conditioners, Floor Mounted Units (23 81 23)		
23 81	23 12-0001		Floor Mounted Air Cooled Direct Expansion Type (23 81 23 12)		
			Note: Includes compressor sequence switch, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquidest sensors, floor stand, and outdoor air cooled condenser complete with fan speed control. Excludes precharged copper pipe.		
23 81	23 12-0002	EA	3 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type.....	30,302.27	1,800.06
			Note: Includes interior unit and remote condenser. Excludes piping.		
			For Liebert Unit, Add	3,449.90	
23 81	23 12-0003	EA	5 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type.....	33,447.08	1,968.81
			Note: Includes interior unit and remote condenser. Excludes piping.		
			For Liebert Unit, Add	3,809.69	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23 12-0004 EA 6 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. <i>For Liebert Unit, Add</i>	46,421.40 5,384.34	2,250.08
23 81 23 12-0005 EA 8 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. <i>For Liebert Unit, Add</i>	50,829.71 5,909.24	2,390.70
23 81 23 12-0006 EA 10 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. <i>For Liebert Unit, Add</i>	55,238.01 6,434.13	2,531.33
23 81 23 12-0007 EA 16 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. <i>For Liebert Unit, Add</i>	61,830.05 7,155.82	3,037.60
23 81 23 12-0008 EA 20 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. <i>For Liebert Unit, Add</i>	69,886.13 8,108.27	3,375.11
23 81 23 12-0009 EA 22 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. <i>For Liebert Unit, Add</i>	73,124.98 8,489.13	3,486.43
23 81 23 12-0010 EA 24 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. <i>For Liebert Unit, Add</i>	79,658.45 9,281.54	3,600.12
23 81 23 12-0011 EA 30 Ton Air Cooled Computer Room Air Conditioner, Direct Expansion Type Note: Includes interior unit and remote condenser. Excludes piping. <i>For Liebert Unit, Add</i>	86,129.29 10,013.16	4,050.13
23 81 23 12-0012 Floor Mounted Chilled Water Type <small>(23 81 23 12)</small> Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 12-0020 for chilled water source.		
23 81 23 12-0013 EA 3 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	20,508.25 2,357.96	1,233.41
23 81 23 12-0014 EA 5 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	22,028.65 2,525.88	1,366.24
23 81 23 12-0015 EA 12 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	27,150.36 3,046.97	2,080.98
23 81 23 12-0016 EA 16 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	28,402.30 3,198.93	2,108.39
23 81 23 12-0017 EA 20 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	29,491.14 3,319.53	2,192.73
23 81 23 12-0018 EA 22 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	30,146.95 3,367.77	2,403.57
23 81 23 12-0019 EA 31 Ton Computer Room Air Conditioner, Chilled Water Type, Excludes Water Source <i>For Liebert Unit, Add</i>	31,964.75 3,560.74	2,614.40
23 81 23 12-0020 Floor Mounted Water Source <small>(23 81 23 12)</small> Note: Includes mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes water source.		
23 81 23 12-0021 EA 3 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	15,806.74 1,765.68	1,125.03
23 81 23 12-0022 EA 5 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	17,412.43 1,955.83	1,181.28
23 81 23 12-0023 EA 6 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	22,657.28 2,600.98	1,237.55
23 81 23 12-0024 EA 8 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	24,410.64 2,797.92	1,350.05
23 81 23 12-0025 EA 10 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	26,970.04 3,096.73	1,462.55
23 81 23 12-0026 EA 12 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	28,012.03 3,205.38	1,575.05
23 81 23 12-0027 EA 15 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	29,239.61 3,341.20	1,687.56
23 81 23 12-0028 EA 20 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	30,050.41 3,422.70	1,800.06
23 81 23 12-0029 EA 25 Ton Chilled Water Source For Computer Room Air Conditioner, Chilled Water Unit <i>For Liebert Unit, Add</i>	34,342.87 3,893.54	2,137.57
23 81 23 12-0030 Floor Mounted Glycol System Type <small>(23 81 23 12)</small> Note: Includes drycoolers, mode alert monitor, non-locking disconnect switch, firestat, infrared humidifier, auto flush on humidifier, two liquitect sensors, floor stand. Excludes chilled water source. See CSI section 23 81 23 12-0020 for water source.		
23 81 23 12-0031 EA 3 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	29,714.27 3,508.72	1,233.41
23 81 23 12-0032 EA 5 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	31,980.00 3,769.79	1,366.24
23 81 23 12-0033 EA 6 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	49,415.37 5,921.81	1,530.69
23 81 23 12-0034 EA 9 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	50,974.74 6,089.32	1,695.15
23 81 23 12-0035 EA 10 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	54,550.32 6,508.86	1,859.60
23 81 23 12-0036 EA 16 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	65,303.02 7,809.72	2,108.39

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 23	12-0037	EA	20 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	71,618.19 8,585.41	2,192.73
23 81 23	12-0038	EA	22 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	74,254.38 8,881.20	2,403.57
23 81 23	12-0039	EA	30 Ton Computer Room Air Conditioner, Glycol System Type <i>For Liebert Unit, Add</i>	90,488.95 10,876.26	2,614.40
23 81 23	12-0040		Removal And Reinstallation Of Computer Room Unit <small>(23 81 23 12)</small> Note: Includes storage and cleaning. Excludes main mechanical piping. Reconnection of existing valves are included.		
23 81 23	12-0041	EA	Removal And Reinstallation Up To 6 Ton, Floor Mounted Chilled Water Computer Room Unit	1,686.71	
23 81 23	12-0042	EA	Removal And Reinstallation Up To 6 Ton Direct Expansion Computer Room Unit	1,405.59	
23 81 23	13		Computer-Room Air-Conditioners, Ceiling Mounted Units <small>(23 81 23)</small>		
23 81 23	13-0001		Horizontal Indoor Single Package Cooling Unit <small>(23 81 23 13)</small> Note: Carrier 50AH With indoor scroll compressor, plenum mounted.		
23 81 23	13-0002	EA	2 Ton Horizontal Indoor Single-Package Cooling Unit, 800 CFM Nominal	11,908.09	506.02
23 81 23	13-0003	EA	3 Ton Horizontal Indoor Single-Package Cooling Unit, 1,200 CFM Nominal	13,972.36	632.51
23 81 23	13-0004	EA	4 Ton Horizontal Indoor Single-Package Cooling Unit, 1,600 CFM Nominal	16,278.72	759.02
23 81 23	13-0005	EA	5 Ton Horizontal Indoor Single-Package Cooling Unit, 2,000 CFM Nominal	18,932.08	843.35
23 81 26			Split-System Air-Conditioners <small>(23 81)</small>		
23 81 26	13		Small-Capacity Split-System Air-Conditioners <small>(23 81 26)</small>		
23 81 26	13-0001		Split System A/C Unit <small>(23 81 26 13)</small> See CSI section 23 23 16 00-0001 for piping.		
23 81 26	13-0002		Ductless Split System Air Conditioners <small>(23 81 26 13-0001)</small> Note: Excludes refrigerant piping, electrical, and pad. Panasonic units or equal. See CSI section 23 81 49 00-0025 for ductless heat pumps.		
23 81 26	13-0003		Wall Mounted Ductless Split System Air Conditioners <small>(23 81 26 13-0002)</small>		
23 81 26	13-0004	EA	9,000 BTU, 16 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,002.05	278.31
23 81 26	13-0005	EA	11,900 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioner Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,163.14	303.60
23 81 26	13-0006	EA	17,500 BTU, 20 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,724.18	337.35
23 81 26	13-0007	EA	24,200 BTU, 17 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,024.87	371.08
23 81 26	13-0008	EA	25,200 BTU, 14.9 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,754.45	404.81
23 81 26	13-0009	EA	29,800 BTU, 15 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,563.58	421.68
23 81 26	13-0010	EA	31,400 BTU, 15.9 SEER, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,111.62	449.51
23 81 26	13-0011		Dual and Tri Zone Wall Mounted Ductless Split System Air Conditioners <small>(23 81 26 13-0002)</small> Note: Use this section only when matching indoor and outdoor capacity units are not used.		
23 81 26	13-0012	EA	7,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	854.92	134.94
23 81 26	13-0013	EA	9,000 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	902.05	143.37
23 81 26	13-0014	EA	11,900 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	950.06	151.80
23 81 26	13-0015	EA	17,500 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	1,079.78	160.24
23 81 26	13-0016	EA	24,200 BTU Indoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes indoor unit and wireless thermostat.	1,155.61	168.67
23 81 26	13-0017	EA	19,700 BTU, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes outdoor unit and refrigerant charge.	2,453.68	202.41
23 81 26	13-0018	EA	25,400 BTU, 16.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes outdoor unit and refrigerant charge.	2,715.80	219.28
23 81 26	13-0019	EA	30,600 BTU, 17.6 SEER, Outdoor Unit, Wall Mounted Ductless Split System Air Conditioners Note: Includes outdoor unit and refrigerant charge.	4,360.42	236.14
23 81 26	13-0020		Suspended Ceiling Mounted Ductless Split System Air Conditioners <small>(23 81 26 13-0002)</small> Note: Excludes hangers.		
23 81 26	13-0021	EA	24,400 BTU, 14.5 SEER, Ceiling Suspended Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,107.56	404.81
23 81 26	13-0022	EA	31,200 BTU, 15.1 SEER, Ceiling Suspended Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,223.82	483.24
23 81 26	13-0023	EA	39,000 BTU, 15.6 SEER, Ceiling Suspended Ductless Split System Air Conditioners Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,645.30	506.02



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 13-0024 Recessed Ceiling Mounted Ductless Split System Air Conditioners <small>(23 81 26 13-0002)</small>		
Note: Excludes hangers.		
23 81 26 13-0025 EA 11,900 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners	3,087.76	337.35
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0026 EA 17,500 BTU, 16 SEER, Ceiling Recessed Ductless Split System Air Conditioners	3,609.30	371.08
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0027 EA 24,800 BTU, 14.1 SEER, Ceiling Recessed Ductless Split System Air Conditioners	5,057.24	438.54
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0028 EA 32,600 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners	5,864.73	483.24
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0029 EA 39,500 BTU, 14.6 SEER, Ceiling Recessed Ductless Split System Air Conditioners	7,465.75	506.02
Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.		
23 81 26 13-0030 Ductless Split System Accessories <small>(23 81 26 13-0002)</small>		
23 81 26 13-0031 LF 3" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers .....	.883	1.21
23 81 26 13-0032 LF 4" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	11.26	1.33
23 81 26 13-0033 LF 6" Line Set Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	13.95	1.46
23 81 26 13-0034 EA 3" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers	14.93	2.26
23 81 26 13-0035 EA 4" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers	25.04	2.49
23 81 26 13-0036 EA 6" Union Coupling, Rigid Polyvinyl Chloride (PVC) Line Set Covers	28.48	2.75
23 81 26 13-0037 EA 3" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	36.59	4.54
23 81 26 13-0038 EA 4" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	59.50	4.99
23 81 26 13-0039 EA 6" 90 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	66.40	5.48
23 81 26 13-0040 EA 3" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	48.28	4.84
23 81 26 13-0041 EA 4" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	56.48	5.32
23 81 26 13-0042 EA 6" 90 Degree Long Radius Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	86.35	5.85
23 81 26 13-0043 EA 3" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	36.59	4.54
23 81 26 13-0044 EA 4" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	59.50	4.99
23 81 26 13-0045 EA 6" 45 Degree Elbow, Rigid Polyvinyl Chloride (PVC) Line Set Covers	66.40	5.48
23 81 26 13-0046 EA 3" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	48.44	7.56
23 81 26 13-0047 EA 4" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	69.57	8.31
23 81 26 13-0048 EA 6" Wall Penetration Cover, Rigid Polyvinyl Chloride (PVC) Line Set Covers	82.86	9.14
23 81 26 13-0049 EA 2-1/2" Wall Sleeve, Rigid Polyvinyl Chloride (PVC) Line Set Covers	26.10	1.51
23 81 26 13-0050 EA 3" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	29.86	4.54
23 81 26 13-0051 EA 4" x 20" Flexible Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	47.39	4.99
23 81 26 13-0052 EA 3" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers	27.17	4.54
23 81 26 13-0053 EA 4" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers	36.63	4.99
23 81 26 13-0054 EA 6" Duct End Termination, Rigid Polyvinyl Chloride (PVC) Line Set Covers	39.48	5.48
23 81 26 13-0055 EA 4" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	124.61	6.05
23 81 26 13-0056 EA 6" T Joint, Rigid Polyvinyl Chloride (PVC) Line Set Covers	141.24	6.65
23 81 26 13-0057 EA 14" Condensing Unit Mounting Blocks With End Caps	87.50	22.67
23 81 26 13-0058 EA 17" Condensing Unit Mounting Blocks With End Caps	96.11	24.17
23 81 26 13-0059 EA 36" Condensing Unit Mounting Blocks With End Caps	127.61	25.68
23 81 26 13-0060 EA End Cap, Set of 4	13.44	
23 81 26 13-0061 EA 18" Condensing Unit Type 2 Wall Bracket, 165 LB Capacity	184.51	45.32
23 81 26 13-0062 EA 21" Condensing Unit Type 2 Wall Bracket, 220 LB Capacity	195.97	48.34
23 81 26 13-0063 LF 5/8" ID Condensate Drain Line	1.85	0.12
23 81 26 13-0064 LF 3/4" ID Condensate Drain Line	1.92	0.12
23 81 26 13-0065 Cased A/C Evaporator Coils <small>(23 81 26 13-0001)</small>		
23 81 26 13-0066 Vertical Cased A/C Evaporator Coils <small>(23 81 26 13-0065)</small>		
23 81 26 13-0067 EA 1-1/2 Ton Vertical Cased A/C Evaporator Coil	497.42	96.41
23 81 26 13-0068 EA 2 Ton Vertical Cased A/C Evaporator Coil	520.41	103.64
23 81 26 13-0069 EA 2-1/2 Ton Vertical Cased A/C Evaporator Coil	612.84	110.88
23 81 26 13-0070 EA 3 Ton Vertical Cased A/C Evaporator Coil	694.33	118.11
23 81 26 13-0071 EA 3-1/2 Ton Vertical Cased A/C Evaporator Coil	796.56	122.93
23 81 26 13-0072 EA 4 Ton Vertical Cased A/C Evaporator Coil	884.18	127.75
23 81 26 13-0073 EA 4-1/2 Ton Vertical Cased A/C Evaporator Coil	949.76	137.39
23 81 26 13-0074 EA 5 Ton Vertical Cased A/C Evaporator Coil	959.36	144.62
23 81 26 13-0075 "A" Style Horizontal Cased A/C Evaporator Coils <small>(23 81 26 13-0065)</small>		
23 81 26 13-0076 EA 2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	599.71	98.83
23 81 26 13-0077 EA 2-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	685.07	104.37
23 81 26 13-0078 EA 3 Ton "A" Style Horizontal Cased A/C Evaporator Coil	780.02	110.88
23 81 26 13-0079 EA 3-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	808.48	114.88
23 81 26 13-0080 EA 4 Ton "A" Style Horizontal Cased A/C Evaporator Coil	846.57	120.52
23 81 26 13-0081 EA 4-1/2 Ton "A" Style Horizontal Cased A/C Evaporator Coil	859.23	126.78
23 81 26 13-0082 EA 5 Ton "A" Style Horizontal Cased A/C Evaporator Coil	871.63	133.05
23 81 26 13-0083 Slab Style Horizontal Cased A/C Evaporator Coils <small>(23 81 26 13-0065)</small>		
23 81 26 13-0084 EA 2 Ton Slab Style Horizontal Cased A/C Evaporator Coil	530.26	98.83
23 81 26 13-0085 EA 3 Ton Slab Style Horizontal Cased A/C Evaporator Coil	632.60	110.88
23 81 26 13-0086 EA 4 Ton Slab Style Horizontal Cased A/C Evaporator Coil	727.17	120.52
23 81 26 13-0087 EA 5 Ton Slab Style Horizontal Cased A/C Evaporator Coil	870.41	133.05

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 81 26 16 Large-Capacity Split-System Air-Conditioners (23 81 26)

23 81 26 16-0001 Split System Air Conditioners, Variable Refrigerant Flow (Mitsubishi City Multi) (23 81 26 16)

23 81 26 16-0002 Outdoor Units (23 81 26 16-0001)

23 81 26 16-0003	EA	6 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P72YKMU-A)	11,413.07	442.76
23 81 26 16-0004	EA	8 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P96YKMU-A)	12,381.05	527.10
23 81 26 16-0005	EA	10 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P120YKMU-A)	13,944.55	632.51
23 81 26 16-0006	EA	12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YKMU-A)	17,149.77	653.60
23 81 26 16-0007	EA	12 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P144YSKMU-A)	22,787.03	674.68
23 81 26 16-0008	EA	14 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P168YSKMU-A)	23,628.50	695.77
23 81 26 16-0009	EA	16 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P192YSKMU-A)	24,469.97	716.85
23 81 26 16-0010	EA	18 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P216YSKMU-A)	25,906.97	759.02
23 81 26 16-0011	EA	20 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P240YSKMU-A)	27,343.96	801.19
23 81 26 16-0012	EA	22 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P264YSKMU-A)	30,591.35	843.35
23 81 26 16-0013	EA	24 Ton R2-Series Outdoor Unit (Mitsubishi PURY-P288YSKMU-A)	33,838.73	885.52

23 81 26 16-0014 Indoor Units (23 81 26 16-0001)

23 81 26 16-0015	EA	6 MBH Cooling, 6.7 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P06NBMU-E2)	1,196.36	137.04
23 81 26 16-0016	EA	8 MBH Cooling, 9 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P08NHMU-E2)	1,258.44	147.58
23 81 26 16-0017	EA	12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P12NHMU-E2)	1,313.68	158.13
23 81 26 16-0018	EA	15 MBH Cooling, 17 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P15NHMU-E2)	1,379.17	168.67
23 81 26 16-0019	EA	18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P18NHMU-E2)	1,497.07	200.30
23 81 26 16-0020	EA	24 MBH Cooling, 27 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P24NKMU-E2)	1,675.00	242.47
23 81 26 16-0021	EA	30 MBH Cooling, 34 MBH Heating Wall Mounted Indoor Unit (Mitsubishi PKFY-P30NKMU-E2)	1,814.86	263.55
23 81 26 16-0022	EA	6 MBH Cooling, 6.7 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P06NMAU-E3)	1,725.90	150.75
23 81 26 16-0023	EA	8 MBH Cooling, 9 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P08NMAU-E3)	1,786.66	162.34
23 81 26 16-0024	EA	12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P12NMAU-E3)	1,885.01	173.94
23 81 26 16-0025	EA	15 MBH Cooling, 17 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P15NMAU-E3)	2,044.83	185.53
23 81 26 16-0026	EA	18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P18NMAU-E3)	2,162.23	220.32
23 81 26 16-0027	EA	24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P24NMAU-E3)	2,377.96	266.71
23 81 26 16-0028	EA	27 MBH Cooling, 30 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P27NMAU-E3)	2,500.21	278.31
23 81 26 16-0029	EA	30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P30NMAU-E3)	2,636.13	289.90
23 81 26 16-0030	EA	36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P36NMAU-E3)	2,922.97	318.89
23 81 26 16-0031	EA	48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P48NMAU-E3)	3,239.52	350.78
23 81 26 16-0032	EA	54 MBH Cooling, 60 MBH Heating Ceiling Concealed Ducted Indoor Unit (Mitsubishi PEFY-P54NMAU-E3)	3,507.79	385.87
23 81 26 16-0033	EA	72 MBH Cooling, 80 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P72NMHSU-E)	4,435.51	424.44
23 81 26 16-0034	EA	96 MBH Cooling, 108 MBH Heating Ceiling Concealed High Static Ducted Indoor Unit (Mitsubishi PEFY-P96NMHSU-E)	5,032.77	466.89
23 81 26 16-0035	EA	12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP12NEMU-E)	1,962.20	173.94
23 81 26 16-0036	EA	15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP15NEMU-E)	2,069.42	185.53
23 81 26 16-0037	EA	18 MBH Cooling, 20 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP18NEMU-E)	2,188.87	220.32
23 81 26 16-0038	EA	24 MBH Cooling, 27 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP24NEMU-E)	2,457.21	266.71
23 81 26 16-0039	EA	30 MBH Cooling, 34 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP30NEMU-E)	2,647.75	289.90
23 81 26 16-0040	EA	36 MBH Cooling, 40 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-EP36NEMU-E)	3,233.81	318.89
23 81 26 16-0041	EA	6 MBH Cooling, 6.7 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P06NBMU-ER5)	1,763.47	150.75
23 81 26 16-0042	EA	8 MBH Cooling, 9 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P08NBMU-ER5)	1,854.98	162.34
23 81 26 16-0043	EA	12 MBH Cooling, 13.5 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P12NBMU-ER5)	1,994.31	173.94
23 81 26 16-0044	EA	15 MBH Cooling, 17 MBH Heating 1-Way Ceiling Recessed Cassette With Grille (Mitsubishi PMFY-P15NBMU-ER5)	2,099.48	185.53
23 81 26 16-0045	EA	8 MBH Cooling, 9 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P08NCMU-ER4)	1,636.36	162.34
23 81 26 16-0046	EA	12 MBH Cooling, 13.5 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P12NCMU-ER4)	1,721.05	173.94
23 81 26 16-0047	EA	15 MBH Cooling, 17 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Mitsubishi PLFY-P15NCMU-ER4)	1,809.14	185.53

23 81 26 16-0048 Controllers For Outdoor Units (23 81 26 16-0001)

23 81 26 16-0049	EA	8 Branch (Main BC) (Mitsubishi CMB-P108NU-HA1)	6,162.37	126.50
23 81 26 16-0050	EA	10 Branch (Main BC) (Mitsubishi CMB-P1010NU-HA1)	7,126.81	147.58
23 81 26 16-0051	EA	13 Branch (Main BC) (Mitsubishi CMB-P1013NU-GA)	7,876.06	168.67
23 81 26 16-0052	EA	16 Branch (Main BC) (Mitsubishi CMB-P1016NU-HA)	9,346.03	189.75
23 81 26 16-0053	EA	4 Branch (Sub BC) (Mitsubishi CMB-P104NU-GB)	3,437.61	84.34
23 81 26 16-0054	EA	8 Branch (Sub BC) (Mitsubishi CMB-P108NU-GB)	5,294.75	126.50
23 81 26 16-0055	EA	16 Branch (Sub BC) (Mitsubishi CMB-P1016NU-HB)	8,092.42	189.75

23 81 26 16-0056 Energy Recovery Units (23 81 26 16-0001)

23 81 26 16-0057	EA	36.2 MBH Cooling, 39.9 MBH Heating Hydronic Heat Exchanger Auxiliary Unit (Mitsubishi PWFY-P36NNU-E2-AU)	4,365.65	126.50
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MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 16-0058	EA		39.9 MBH Hydronic Heat Exchanger Booster Unit (Mitsubishi PWFY-P36NMU-E-BU).....	8,246.02	126.50
23 81 26 16-0059	EA		112 MBH Cooling, 61.4 MBH Heating Reheat Unit (Mitsubishi PEFY-AF1200CFMR).....	8,366.75	147.58
23 81 26 16-0060	EA		Lossnay Energy Recovery Ventilator ERV, 300 CFM (Mitsubishi LGH-F300RX5-E).....	1,747.96	105.42
23 81 26 16-0061	EA		Lossnay Energy Recovery Ventilator ERV, 470 CFM (Mitsubishi LGH-F470RX5-E).....	2,224.36	109.63
23 81 26 16-0062	EA		Lossnay Energy Recovery Ventilator ERV, 600 CFM (Mitsubishi LGH-F600RX5-E).....	2,649.51	113.85
23 81 26 16-0063	EA		Lossnay Energy Recovery Ventilator ERV, 1,200 CFM (Mitsubishi LGH-F1200RX5-E1).....	4,819.96	126.50
23 81 26 16-0064 Piping Specialties (23 81 26 16-0001)					
23 81 26 16-0065	EA		Maintenance Tool Interface (Mitsubishi CMS-MNG-E).....	608.02	
23 81 26 16-0066	EA		Branch Joint (Mitsubishi CMY-Y102SS-G2).....	174.76	36.63
23 81 26 16-0067	EA		Branch Joint (Mitsubishi CMY-Y102LS-G2).....	174.76	36.63
23 81 26 16-0068	EA		Branch Joint (Mitsubishi CMY-Y202S-G2).....	193.25	38.55
23 81 26 16-0069	EA		Branch Joint (Mitsubishi CMY-Y302S-G2).....	240.45	43.38
23 81 26 16-0070	EA		Header - 4 Branch (Mitsubishi CMY-Y64-G-E).....	316.58	62.65
23 81 26 16-0071	EA		Header - 8 Branch (Mitsubishi CMY-Y68-G-E).....	544.36	125.29
23 81 26 16-0072	EA		Refrigeration Ball Valve-Flare/Schrader/Insulated - 3/8" (Mitsubishi BV38FFSI).....	95.75	15.42
23 81 26 16-0073	EA		Refrigeration Ball Valve-Flare/Schrader/Insulated - 5/8" (Mitsubishi BV58FFSI).....	109.36	21.20
23 81 26 16-0074 Split System Air Conditioners (Daikin VRV) (23 81 26 16)					
23 81 26 16-0075 Heat Pump Outdoor Units (23 81 26 16-0074)					
23 81 26 16-0076	EA		6 Ton Heat Pump Outdoor Unit (Daikin RXYQ72PBTJ).....	14,779.52	442.76
23 81 26 16-0077	EA		8 Ton Heat Pump Outdoor Unit (Daikin RXYQ96PBTJ).....	16,532.61	527.10
23 81 26 16-0078	EA		10 Ton Heat Pump Outdoor Unit (Daikin RXYQ120PBTJ).....	18,449.73	632.51
23 81 26 16-0079	EA		12 Ton Heat Pump Outdoor Unit (Daikin RXYQ144PBTJ).....	23,001.35	653.60
23 81 26 16-0080	EA		14 Ton Heat Pump Outdoor Unit (Daikin RXYQ168PBTJ).....	30,763.95	695.77
23 81 26 16-0081	EA		16 Ton Heat Pump Outdoor Unit (Daikin RXYQ192PBTJ).....	32,512.40	716.85
23 81 26 16-0082	EA		18 Ton Heat Pump Outdoor Unit (Daikin RXYQ216PBTJ).....	34,181.13	759.02
23 81 26 16-0083	EA		20 Ton Heat Pump Outdoor Unit (Daikin RXYQ240PBTJ).....	35,971.74	801.19
23 81 26 16-0084	EA		22 Ton Heat Pump Outdoor Unit (Daikin RXYQ264PBTJ).....	46,537.52	843.35
23 81 26 16-0085	EA		24 Ton Heat Pump Outdoor Unit (Daikin RXYQ288PBTJ).....	48,328.14	885.52
23 81 26 16-0086	EA		26 Ton Heat Pump Outdoor Unit (Daikin RXYQ312PBTJ).....	50,118.76	927.69
23 81 26 16-0087	EA		28 Ton Heat Pump Outdoor Unit (Daikin RXYQ336PBTJ).....	51,787.50	969.86
23 81 26 16-0088	EA		30 Ton Heat Pump Outdoor Unit (Daikin RXYQ360PBTJ).....	53,578.12	1,012.03
23 81 26 16-0089 Heat Recovery Heat Pump Outdoor Units (23 81 26 16-0074)					
23 81 26 16-0090	EA		6 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ72PBTJ).....	18,930.32	575.59
23 81 26 16-0091	EA		8 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ96PBTJ).....	20,666.14	685.23
23 81 26 16-0092	EA		10 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ120PBTJ).....	22,729.30	822.28
23 81 26 16-0093	EA		12 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ144PBTJ).....	28,512.35	849.69
23 81 26 16-0094	EA		14 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ168PBTJ).....	38,494.04	904.50
23 81 26 16-0095	EA		16 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ192PBTJ).....	41,473.91	931.91
23 81 26 16-0096	EA		18 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ216PBTJ).....	43,046.07	986.73
23 81 26 16-0097	EA		20 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ240PBTJ).....	44,618.25	1,041.54
23 81 26 16-0098	EA		22 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ264PBTJ).....	58,682.82	1,096.36
23 81 26 16-0099	EA		24 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ288PBTJ).....	60,254.97	1,151.19
23 81 26 16-0100	EA		26 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ312PBTJ).....	63,289.67	1,206.00
23 81 26 16-0101	EA		28 Ton Heat Recovery Heat Pump Outdoor Unit (Daikin REYQ336PBTJ).....	64,861.83	1,260.82
23 81 26 16-0102 Indoor Units (23 81 26 16-0074)					
23 81 26 16-0103	EA		7.5 MBH Cooling, 8.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ07PVJU).....	1,720.91	147.58
23 81 26 16-0104	EA		9.5 MBH Cooling, 10.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ09PVJU).....	1,797.17	151.80
23 81 26 16-0105	EA		12 MBH Cooling, 13.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ12PVJU).....	2,029.44	158.13
23 81 26 16-0106	EA		18 MBH Cooling, 20 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ18PVJU).....	2,281.64	200.30
23 81 26 16-0107	EA		24 MBH Cooling, 26.5 MBH Heating Wall Mounted Indoor Unit (Daikin FXAQ24PVJU).....	2,510.85	242.47
23 81 26 16-0108	EA		7.5 MBH Cooling, 8.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ07PVJU).....	2,504.68	162.34
23 81 26 16-0109	EA		9.5 MBH Cooling, 10.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ09PVJU).....	2,588.70	166.98
23 81 26 16-0110	EA		12 MBH Cooling, 13.5 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ12PVJU).....	2,718.75	92.77
23 81 26 16-0111	EA		18 MBH Cooling, 20 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ18PVJU).....	2,897.75	220.32
23 81 26 16-0112	EA		24 MBH Cooling, 27 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ24PVJU).....	3,435.48	266.71
23 81 26 16-0113	EA		30 MBH Cooling, 34 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ30PVJU).....	3,924.53	289.90
23 81 26 16-0114	EA		36 MBH Cooling, 40 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ36PVJU).....	4,196.37	318.89
23 81 26 16-0115	EA		48 MBH Cooling, 54 MBH Heating Ceiling Concealed Ducted Indoor Unit (Daikin FXMQ48PVJU).....	4,346.39	350.78
23 81 26 16-0116	EA		7.5 MBH Cooling, 8.7 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ07M7VJU).....	2,796.73	162.34
23 81 26 16-0117	EA		9.5 MBH Cooling, 11.1 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ09M7VJU).....	2,863.50	166.98
23 81 26 16-0118	EA		12 MBH Cooling, 14 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ12M7VJU).....	3,044.14	173.94
23 81 26 16-0119	EA		18 MBH Cooling, 21 MBH Heating 4-Way Ceiling Recessed Cassette With Grille (Daikin FXZQ18M7VJU).....	3,257.63	220.32
23 81 26 16-0120 Branch Selector Boxes (23 81 26 16-0074)					
23 81 26 16-0121	EA		144 MBH, 4 Branch, Multi Port Branch Selector Box (Daikin BSV4Q36PVJU).....	8,423.41	189.75
23 81 26 16-0122	EA		216 MBH, 6 Branch, Multi Port Branch Selector Box (Daikin BSV6Q36PVJU).....	12,449.99	253.01
23 81 26 16-0123	EA		36 MBH, 4 Branch, Single Port Branch Selector Box (Daikin BSVQ36PVJU).....	1,674.89	84.34
23 81 26 16-0124	EA		60 MBH, 8 Branch, Single Port Branch Selector Box (Daikin BSVQ60PVJU).....	2,261.68	126.50
23 81 26 16-0125	EA		96 MBH, 8 Branch, Single Port Branch Selector Box (Daikin BSVQ96PVJU).....	2,817.05	189.75

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 26 16-0126 Controllers ^(23 81 26 16-0074)					
23 81 26 16-0127	EA		Up To 16 Units, Navigation Controller (Daikin BRC1E71).....	542.35	16.87
23 81 26 16-0128	EA		Individual Zone Controller (Daikin BRC2A71).....	399.78	16.87
23 81 26 16-0129	EA		Up To 16 Groups, Unified ON/OFF Controller (Daikin DCS301C71).....	748.16	16.87
23 81 26 16-0130	EA		Up To 64 Units, Multizone Controller (Daikin DCS302C71).....	1,036.76	16.87
23 81 26 16-0131	EA		I-Touch Manager Replaced Both Daikin IMP-128 thru 1024 and DCS601C71 (Daikin DCM601A71).....	9,727.62	202.41
23 81 26 16-0132	EA		I-Touch Manager D3net Plus Adapter (Daikin DCM601A72).....	1,778.37	16.87
23 81 26 16-0133	EA		24 Volt AC, Wired Thermostat For Split A/C Systems (Daikin DACA-TS1-1).....	395.43	29.76
23 81 26 16-0134 Energy Recovery Units ^(23 81 26 16-0074)					
23 81 26 16-0135	EA		300 CFM Energy Recovery Unit (Daikin VAM300GVJU).....	2,923.18	105.42
23 81 26 16-0136	EA		470 CFM Energy Recovery Unit (Daikin VAM470GVJU).....	3,784.76	109.63
23 81 26 16-0137	EA		600 CFM Energy Recovery Unit (Daikin VAM600GVJU).....	4,524.45	113.85
23 81 26 16-0138	EA		1,200 CFM Energy Recovery Unit (Daikin VAM1200GVJU).....	8,418.78	126.50
23 81 43 Air-Source Unitary Heat Pumps ^(23 81)					
23 81 43 00-0001 Single Package Thru-Wall Heat Pumps ^(23 81 43)					
Note: Air-to-air type with electric heat. Includes throwaway filters. Through the wall units are wired for 230/208 V, 1 phase, 60 HZ. With electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls all mounted in a steel cabinet, wall sleeve and outdoor grille. Excludes crane and associated personnel. See CSI section 01 22 23 00-0841 for crane lifting equipment.					
23 81 43 00-0002	EA		1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	1,746.22	136.98
			<i>For Unit Economizer, Add</i>	233.88	
			<i>For >35 To 70, Deduct</i>	-44.44	
			<i>For >70 To 100, Deduct</i>	-74.07	
			<i>For >100, Deduct</i>	-103.70	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	199.53	
23 81 43 00-0003	EA		1 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	1,929.09	146.11
			<i>For Unit Economizer, Add</i>	258.75	
			<i>For >35 To 70, Deduct</i>	-49.38	
			<i>For >70 To 100, Deduct</i>	-82.30	
			<i>For >100, Deduct</i>	-115.22	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	218.91	
23 81 43 00-0004	EA		1-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	3,311.73	146.11
			<i>For Unit Economizer, Add</i>	452.32	
			<i>For >35 To 70, Deduct</i>	-90.86	
			<i>For >70 To 100, Deduct</i>	-151.43	
			<i>For >100, Deduct</i>	-212.00	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	343.35	
23 81 43 00-0005	EA		2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	3,626.27	146.11
			<i>For Unit Economizer, Add</i>	495.62	
			<i>For >35 To 70, Deduct</i>	-99.75	
			<i>For >70 To 100, Deduct</i>	-166.25	
			<i>For >100, Deduct</i>	-232.74	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	175.09	
23 81 43 00-0006	EA		2-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,105.42	155.25
			<i>For Unit Economizer, Add</i>	561.97	
			<i>For >35 To 70, Deduct</i>	-113.57	
			<i>For >70 To 100, Deduct</i>	-189.29	
			<i>For >100, Deduct</i>	-265.01	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	193.48	
23 81 43 00-0007	EA		3 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,302.94	164.37
			<i>For Unit Economizer, Add</i>	589.63	
			<i>For >35 To 70, Deduct</i>	-119.50	
			<i>For >70 To 100, Deduct</i>	-199.17	
			<i>For >100, Deduct</i>	-278.83	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	597.74	
23 81 43 00-0008	EA		3-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	4,847.92	164.37
			<i>For Unit Economizer, Add</i>	665.19	
			<i>For >35 To 70, Deduct</i>	-135.30	
			<i>For >70 To 100, Deduct</i>	-225.50	
			<i>For >100, Deduct</i>	-315.70	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	670.78	
23 81 43 00-0009	EA		4 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	5,350.85	173.51
			<i>For Unit Economizer, Add</i>	735.24	
			<i>For >35 To 70, Deduct</i>	-150.12	
			<i>For >70 To 100, Deduct</i>	-250.19	
			<i>For >100, Deduct</i>	-350.27	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	737.25	
23 81 43 00-0010	EA		5 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	6,162.80	200.90
			<i>For Unit Economizer, Add</i>	846.72	
			<i>For >35 To 70, Deduct</i>	-172.83	
			<i>For >70 To 100, Deduct</i>	-288.05	
			<i>For >100, Deduct</i>	-403.27	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	849.38	
23 81 43 00-0011	EA		7-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat.....	11,314.68	237.43
			<i>For Unit Economizer, Add</i>	1,564.70	
			<i>For >35 To 70, Deduct</i>	-324.92	
			<i>For >70 To 100, Deduct</i>	-541.53	
			<i>For >100, Deduct</i>	-758.15	
			<i>For Low Ambient Protection, 0 Degree F, Add</i>	1,528.99	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0012 EA 10 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... <i>For Unit Economizer, Add</i> <i>For >35 To 70, Deduct</i> <i>For >70 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For Low Ambient Protection, 0 Degree F, Add</i>	14,569.92 2,015.32 -418.74 -697.90 -977.07 292.54	301.35
23 81 43 00-0013 EA 12-1/2 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... <i>For Unit Economizer, Add</i> <i>For >35 To 70, Deduct</i> <i>For >70 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For Low Ambient Protection, 0 Degree F, Add</i>	17,794.17 2,464.15 -513.55 -855.92 -1,198.29 340.12	337.88
23 81 43 00-0014 EA 15 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... <i>For Unit Economizer, Add</i> <i>For >35 To 70, Deduct</i> <i>For >70 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For Low Ambient Protection, 0 Degree F, Add</i>	21,958.44 3,043.86 -636.01 -1,060.02 -1,484.03 401.49	383.54
23 81 43 00-0015 EA 20 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... <i>For Unit Economizer, Add</i> <i>For >35 To 70, Deduct</i> <i>For >70 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For Low Ambient Protection, 0 Degree F, Add</i>	29,264.77 4,064.19 -853.29 -1,422.15 -1,991.00 489.90	410.93
23 81 43 00-0016 EA 25 Ton Single Package Heat Pump, Air To Air Type With Electric Heat..... <i>For Unit Economizer, Add</i> <i>For >35 To 70, Deduct</i> <i>For >70 To 100, Deduct</i> <i>For >100, Deduct</i> <i>For Low Ambient Protection, 0 Degree F, Add</i>	35,263.43 4,901.08 -1,031.06 -1,718.43 -2,405.80 567.42	447.46
23 81 43 00-0017 Single Package Vertical Wall Heat Pumps <small>(23 81 43)</small> Note: Air-to-air type with electric heat. Includes throwaway filters. Wall units are wired for 230/208 V, 1 phase, 60 HZ. With solid state electronic controls, thermostat, cord and NEMA plug. Units are shipped fully factory assembled in one piece, prewired, prepiped and charged with refrigerant, complete with push button controls, insulated steel cabinet, with wall sleeve and outdoor grille and stainless steel drain pan. Excludes crane and associated personnel. See CSI section 01 22 23 00-0841 for crane lifting equipment.		
23 81 43 00-0018 EA 1/2 Ton Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	2,685.05	182.64
23 81 43 00-0019 EA 1 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	3,263.14	200.90
23 81 43 00-0020 EA 1-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	4,226.89	210.03
23 81 43 00-0021 EA 2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	4,848.13	228.29
23 81 43 00-0022 EA 2-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	6,065.72	264.82
23 81 43 00-0023 EA 3 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	6,477.98	301.35
23 81 43 00-0024 EA 3-1/2 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	7,032.91	337.88
23 81 43 00-0025 EA 4 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	7,914.60	374.41
23 81 43 00-0026 EA 5 Ton Single Package Heat Pump, Vertical Wall Unit, Air To Air Type With Electric Heat.....	8,919.12	447.46
23 81 43 00-0027 Heat Pump, Room Air-Conditioners <small>(23 81 43)</small> Note: Includes throwaway filters and supplemental heat.		
23 81 43 00-0028 Heat Pump, Window Unit, Room Air-Conditioners <small>(23 81 43 00-0027)</small>		
23 81 43 00-0029 Heat Pump, Window Unit, Room Air-Conditioners (Friedrich) <small>(23 81 43 00-0028)</small>		
23 81 43 00-0030 EA 10,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS10N10C)..... <i>For >10 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100, Deduct</i>	1,476.82 -64.99 -90.98 -129.97 -155.97	88.55
23 81 43 00-0031 EA 12,000 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YS12N33C)..... <i>For >10 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100, Deduct</i>	1,664.13 -74.35 -104.09 -148.70 -178.44	88.55
23 81 43 00-0032 EA 17,500 BTU, 10.9 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich KHM18A34A)..... <i>For >10 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100, Deduct</i>	1,945.09 -88.40 -123.76 -176.80 -212.16	88.55
23 81 43 00-0033 EA 24,000 BTU, 10.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich YL24N35D)..... <i>For >10 To 50, Deduct</i> <i>For >50 To 75, Deduct</i> <i>For >75 To 100, Deduct</i> <i>For >100, Deduct</i>	2,257.27 -104.01 -145.61 -208.02 -249.62	88.55
23 81 43 00-0034 Heat Pump, Through-The-Wall, Room Air-Conditioners <small>(23 81 43 00-0027)</small> Note: Base unit excludes wall sleeve.		
23 81 43 00-0035 Heat Pump, Through-The-Wall, Room Air-Conditioners (Friedrich) <small>(23 81 43 00-0034)</small>		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 43 00-0036 EA 9,300 BTU, 9.8 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY09C33D)	1,478.24	63.25
For >10 To 50, Deduct	-67.59	
For >50 To 75, Deduct	-94.62	
For >75 To 100, Deduct	-135.17	
For >100, Deduct	-162.21	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	226.73	
23 81 43 00-0037 EA 11,300 BTU, 9.3 EER, 230/208 Volt, Heat Pump, Through-The-Wall, Room Air-Conditioner (Friedrich WY12D33A)	1,478.24	63.25
For >10 To 50, Deduct	-67.59	
For >50 To 75, Deduct	-94.62	
For >75 To 100, Deduct	-135.17	
For >100, Deduct	-162.21	
For 27" Wide x 16-3/4" Deep x 16-3/4" High, Wall Sleeve (Friedrich WSE), Add	226.73	

23 81 46 Water-Source Unitary Heat Pumps (23 81)

23 81 46 00-0001	Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pumps (23 81 46)	
	Note: R410a. Includes rubber isolator hanger brackets. McQuay CCW Series.	
23 81 46 00-0002 EA	7 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,098.06
23 81 46 00-0003 EA	9 MBH, 300 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,160.97
23 81 46 00-0004 EA	12 MBH, 400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,491.69
23 81 46 00-0005 EA	19 MBH, 630 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,629.50
23 81 46 00-0006 EA	24 MBH, 800 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	2,821.84
23 81 46 00-0007 EA	30 MBH, 1,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,307.72
23 81 46 00-0008 EA	36 MBH, 1,200 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,388.23
23 81 46 00-0009 EA	42 MBH, 1,400 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,692.40
23 81 46 00-0010 EA	48 MBH, 1,600 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	3,940.64
23 81 46 00-0011 EA	60 MBH, 2,000 CFM Horizontal, Ceiling Mounted, Geothermal Water Source Heat Pump	4,014.15

23 81 49 Split System Heat Pumps (23 81)

23 81 49 00-0001	Split System Heat Pump (23 81 49)	
	See CSI section 23 23 16 00-0001 for piping.	
23 81 49 00-0002	Air Cooled, Outdoor Section (23 81 49 00-0001)	
23 81 49 00-0003 EA	1.5 Ton, 14 SEER, Outdoor Heat Pump Unit	3,175.47
	Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	
	For Low Ambient Protection, 0 Degree F, Add	572.70
	For Winterstart Control, Add	151.67
	For 16 SEER, Add	801.72
	For 18 SEER, Add	1,216.40
23 81 49 00-0004 EA	2 Ton, 14 SEER, Outdoor Heat Pump Unit	3,275.02
	Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	
	For Low Ambient Protection, 0 Degree F, Add	593.28
	For Winterstart Control, Add	158.40
	For 16 SEER, Add	817.34
	For 18 SEER, Add	1,240.10
23 81 49 00-0005 EA	2.5 Ton, 14 SEER, Outdoor Heat Pump Unit	3,578.45
	Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	
	For Low Ambient Protection, 0 Degree F, Add	650.71
	For Winterstart Control, Add	174.92
	For 16 SEER, Add	884.15
	For 18 SEER, Add	1,341.47
23 81 49 00-0006 EA	3 Ton, 14 SEER, Outdoor Heat Pump Unit	3,906.57
	Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	
	For Low Ambient Protection, 0 Degree F, Add	547.94
	For Winterstart Control, Add	192.79
	For 16 SEER, Add	956.35
	For 18 SEER, Add	1,451.01
23 81 49 00-0007 EA	3.5 Ton, 14 SEER, Outdoor Heat Pump Unit	4,030.27
	Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	
	For Low Ambient Protection, 0 Degree F, Add	565.82
	For Winterstart Control, Add	199.14
	For 16 SEER, Add	985.44
	For 18 SEER, Add	1,495.16
23 81 49 00-0008 EA	4 Ton, 14 SEER, Outdoor Heat Pump Unit	4,476.85
	Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	
	For Low Ambient Protection, 0 Degree F, Add	626.26
	For Winterstart Control, Add	220.17
	For 16 SEER, Add	1,099.67
	For 18 SEER, Add	1,668.46
23 81 49 00-0009 EA	5 Ton, 14 SEER, Outdoor Heat Pump Unit	5,097.13
	Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	
	For Low Ambient Protection, 0 Degree F, Add	405.53
	For Winterstart Control, Add	118.78
	For 16 SEER, Add	1,259.69
	For 18 SEER, Add	1,911.25
23 81 49 00-0010 EA	7.5 Ton, 11.5 EER, Outdoor Heat Pump Unit	5,938.04
	Note: Precharged with refrigerant capable of charging the system with a 20' length of piping.	
	For Low Ambient Protection, 0 Degree F, Add	465.57
	For Winterstart Control, Add	135.28



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 49 00-0011 EA 10 Ton, 11.1 EER, Outdoor Heat Pump Unit Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	8,226.00 334.01 173.49	708.41
23 81 49 00-0012 EA 15 Ton, 10.9 EER, Outdoor Heat Pump Unit Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	10,832.01 375.07 214.33	826.49
23 81 49 00-0013 EA 20 Ton, 10.3 EER, Outdoor Heat Pump Unit Note: Precharged with refrigerant capable of charging the system with a 20' length of piping. For Low Ambient Protection, 0 Degree F, Add For Winterstart Control, Add	19,530.52 396.80 309.14	885.52
23 81 49 00-0014 Indoor Section, Horizontal Upflow (23 81 49 00-0001) Note: Electric heat. Includes throwaway filters.		
23 81 49 00-0015 EA 2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat..... For Additional 5 KW Electric Heat, Add	1,024.44 93.38	90.24
23 81 49 00-0016 EA 2-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,127.55 101.51	112.42
23 81 49 00-0017 EA 3 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat..... For Additional 5 KW Electric Heat, Add	1,174.72 103.87	135.78
23 81 49 00-0018 EA 3-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 5 KW Electric Heat For Additional 5 KW Electric Heat, Add	1,586.68 142.76	158.97
23 81 49 00-0019 EA 4 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat..... For Additional 5 KW Electric Heat, Add	1,627.31 144.79	179.21
23 81 49 00-0020 EA 5 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat..... For Additional 5 KW Electric Heat, Add	1,804.14 159.84	205.78
23 81 49 00-0021 EA 7-1/2 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 10 KW Electric Heat For Additional 5 KW Electric Heat, Add	3,863.82 352.65	337.35
23 81 49 00-0022 EA 10 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 KW Electric Heat For Additional 5 KW Electric Heat, Add	5,712.89 533.34	379.51
23 81 49 00-0023 EA 15 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15KW Electric Heat..... For Additional 5 KW Electric Heat, Add	8,029.91 760.82	421.68
23 81 49 00-0024 EA 20 Ton Indoor Section Split Heat Pump Packaged Unit, Horizontal Upflow With 15 KW Electric Heat..... For Additional 5 KW Electric Heat, Add	9,122.83 861.67	506.02
23 81 49 00-0025 Ductless Split System Heat Pumps (23 81 49 00-0001) Note: Excludes refrigerant piping, electrical, and pad. Sanyo units or equal. See CSI section 23 81 26 13-0030 for accessories.		
23 81 49 00-0026 Wall Mounted Ductless Split System Heat Pumps (23 81 49 00-0025)		
23 81 49 00-0027 EA 9,000 BTU Cooling, 12,200 BTU Heating, 16 SEER, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,181.60	278.31
23 81 49 00-0028 EA 11,900 BTU Cooling, 13,300 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,409.12	303.60
23 81 49 00-0029 EA 17,500 BTU Cooling, 20,400 BTU Heating, 20 SEER, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	2,954.00	337.35
23 81 49 00-0030 EA 24,200 BTU Cooling, 29,000 BTU Heating, 17 SEER, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,406.41	371.08
23 81 49 00-0031 EA 25,200 BTU Cooling, 29,200 BTU Heating, 14.9 SEER, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	4,897.49	404.81
23 81 49 00-0032 EA 29,800 BTU Cooling, 34,800 BTU Heating, 15 SEER, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,700.04	421.68
23 81 49 00-0033 EA 31,400 BTU Cooling, 36,400 BTU Heating, 15.9 SEER, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,259.75	449.51
23 81 49 00-0034 Dual and Tri Zone Wall Mounted Ductless Split System Heat Pumps (23 81 49 00-0025) Note: Use this section only when matching indoor and outdoor capacity units are not used.		
23 81 49 00-0035 EA 7,500 BTU Cooling, 8,500 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	894.42	134.94
23 81 49 00-0036 EA 9,000 BTU Cooling, 12,200 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit and wireless thermostat.	942.45	143.37
23 81 49 00-0037 EA 11,900 BTU Cooling, 14,300 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes indoor unit and wireless thermostat.	991.36	151.80
23 81 49 00-0038 EA 17,500 BTU Cooling, 20,400 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit and wireless thermostat.	1,134.54	160.24
23 81 49 00-0039 EA 24,200 BTU Cooling, 29,000 BTU Heating Indoor Unit, Wall Mounted Ductless Split System Heat Pumps Note: Includes indoor unit and wireless thermostat.	1,209.47	168.67
23 81 49 00-0040 EA 19,700 BTU Cooling, 24,800 BTU Heating, 16.4 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes outdoor unit and refrigerant charge.	2,785.84	202.41
23 81 49 00-0041 EA 23,200 BTU Cooling, 29,200 BTU Heating, 16.5 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes outdoor unit and refrigerant charge.	3,312.79	219.28
23 81 49 00-0042 EA 30,600 BTU Cooling, 32,000 BTU Heating, 17.2 SEER, Outdoor Unit, Wall Mounted Ductless Split System Heat Pumps..... Note: Includes outdoor unit and refrigerant charge.	5,443.98	236.14
23 81 49 00-0043 Suspended Ceiling Mounted Ductless Split System Heat Pumps (23 81 49 00-0025) Note: Excludes hangers.		

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 81 Decentralized Unitary HVAC Equipment



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 81 49 00-0044	EA		24,400 BTU Cooling, 30,800 BTU Heating, 14.5 SEER, Ceiling Suspended Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,251.20	404.81
23 81 49 00-0045	EA		31,200 BTU Cooling, 37,400 BTU Heating, 15.1 SEER, Ceiling Suspended Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,371.95	483.24
23 81 49 00-0046	EA		39,000 BTU Cooling, 44,500 BTU Heating, 15.6 SEER, Ceiling Suspended Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,735.07	506.02
23 81 49 00-0047			Recessed Ceiling Mounted Ductless Split System Heat Pumps (23 81 49 00-0025) Note: Excludes hangers.		
23 81 49 00-0048	EA		11,900 BTU Cooling, 13,600 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,446.86	337.35
23 81 49 00-0049	EA		17,500 BTU Cooling, 20,400 BTU Heating, 16 SEER, Ceiling Recessed Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	3,911.83	371.08
23 81 49 00-0050	EA		24,800 BTU Cooling, 29,800 BTU Heating, 14.1 SEER, Ceiling Recessed Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	5,200.88	438.54
23 81 49 00-0051	EA		32,600 BTU Cooling, 37,600 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	6,012.86	483.24
23 81 49 00-0052	EA		39,500 BTU Cooling, 48,000 BTU Heating, 14.6 SEER, Ceiling Recessed Ductless Split System Heat Pumps..... Note: Includes indoor unit, outdoor unit, wireless thermostat and refrigerant charge.	7,555.53	506.02
23 82			Convection Heating And Cooling Units (23 80)		
23 82 16			Air Coils (23 82)		
23 82 16 11			Hydronic Air Coils (23 82 16)		
23 82 16 11-0001			Chilled Water Cooling Coils (23 82 16 11) Note: Flanged construction, 16 gauge galvanized steel casing.		
23 82 16 11-0002			2 Row Chilled Water Cooling Coils (23 82 16 11-0001)		
23 82 16 11-0003	EA		12" x 12" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	710.26	48.21
23 82 16 11-0004	EA		12" x 24" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,156.31	65.56
23 82 16 11-0005	EA		24" x 30" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,580.00	103.16
23 82 16 11-0006	EA		24" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,948.15	147.52
23 82 16 11-0007	EA		30" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,108.49	181.26
23 82 16 11-0008	EA		30" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,385.93	219.82
23 82 16 11-0009	EA		30" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,588.46	254.53
23 82 16 11-0010	EA		30" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,835.76	449.68
23 82 16 11-0011	EA		34" x 32" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,637.39	170.94
23 82 16 11-0012	EA		34" x 48" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,181.79	291.07
23 82 16 11-0013	EA		34" x 60" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,453.67	361.56
23 82 16 11-0014	EA		34" x 72" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,765.91	436.66
23 82 16 11-0015	EA		34" x 84" Chilled Water Cooling Coil, 2 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,055.72	508.49
23 82 16 11-0016			4 Row Chilled Water Cooling Coils (23 82 16 11-0001)		
23 82 16 11-0017	EA		12" x 12" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	893.03	100.27
23 82 16 11-0018	EA		12" x 24" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,418.35	144.62
23 82 16 11-0019	EA		24" x 30" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,981.78	241.04
23 82 16 11-0020	EA		24" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,490.76	357.70
23 82 16 11-0021	EA		30" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,906.88	438.69
23 82 16 11-0022	EA		30" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,470.82	536.07
23 82 16 11-0023	EA		30" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,915.79	643.08
23 82 16 11-0024	EA		30" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,957.38	748.57
23 82 16 11-0025	EA		34" x 32" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,330.36	323.09
23 82 16 11-0026	EA		34" x 48" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,051.37	485.93
23 82 16 11-0027	EA		34" x 60" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,426.19	602.59



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0028 EA 34" x 72" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,912.42	726.00
23 82 16 11-0029 EA 34" x 84" Chilled Water Cooling Coil, 4 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,347.72	848.74
23 82 16 11-0030 6 Row Chilled Water Cooling Coils (23 82 16 11-0001)		
23 82 16 11-0031 EA 12" x 12" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,245.85	127.27
23 82 16 11-0032 EA 12" x 24" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,508.65	188.98
23 82 16 11-0033 EA 24" x 30" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,119.41	322.03
23 82 16 11-0034 EA 24" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,925.31	482.07
23 82 16 11-0035 EA 30" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,812.38	602.59
23 82 16 11-0036 EA 30" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,390.43	741.44
23 82 16 11-0037 EA 30" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,121.58	876.41
23 82 16 11-0038 EA 30" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,070.70	1,021.32
23 82 16 11-0039 EA 34" x 32" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,955.70	441.49
23 82 16 11-0040 EA 34" x 48" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,883.70	662.18
23 82 16 11-0041 EA 34" x 60" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,461.30	829.17
23 82 16 11-0042 EA 34" x 72" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,020.20	996.06
23 82 16 11-0043 EA 34" x 84" Chilled Water Cooling Coil, 6 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,579.54	1,158.81
23 82 16 11-0044 8 Row Chilled Water Cooling Coils (23 82 16 11-0001)		
23 82 16 11-0045 EA 12" x 12" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,551.99	153.30
23 82 16 11-0046 EA 12" x 24" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	1,946.95	235.26
23 82 16 11-0047 EA 24" x 30" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	2,972.59	419.41
23 82 16 11-0048 EA 24" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,031.15	643.08
23 82 16 11-0049 EA 30" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,871.68	804.10
23 82 16 11-0050 EA 30" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,689.11	964.15
23 82 16 11-0051 EA 30" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,503.25	1,071.17
23 82 16 11-0052 EA 30" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,891.44	1,242.50
23 82 16 11-0053 EA 34" x 32" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	3,407.95	538.00
23 82 16 11-0054 EA 34" x 48" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	4,496.93	808.82
23 82 16 11-0055 EA 34" x 60" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,168.93	1,007.54
23 82 16 11-0056 EA 34" x 72" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	5,817.05	1,205.19
23 82 16 11-0057 EA 34" x 84" Chilled Water Cooling Coil, 8 Row Flanged Construction, 16 Gauge Galvanized Steel Casing, Duct Mounted.....	6,505.37	1,417.88
23 82 16 11-0058 Hot Water Heating Coils (23 82 16 11)		
Note: Flanged construction.		
23 82 16 11-0059 1 Row Hot Water Heating Coils (23 82 16 11-0058)		
23 82 16 11-0060 EA 12" x 12" Hot Water Heating Coil, 1 Row Flanged Construction.....	768.17	130.16
For 10 Fins Per Inch, Add	10.15	
For 12 Fins Per Inch, Add	25.38	
For 230 PSIG Heavy Duty, Add	179.69	
23 82 16 11-0061 EA 12" x 24" Hot Water Heating Coil, 1 Row Flanged Construction.....	1,116.92	166.79
For 10 Fins Per Inch, Add	15.69	
For 12 Fins Per Inch, Add	39.22	
For 230 PSIG Heavy Duty, Add	256.63	
23 82 16 11-0062 EA 24" x 30" Hot Water Heating Coil, 1 Row Flanged Construction.....	1,382.02	229.47
For 10 Fins Per Inch, Add	18.46	
For 12 Fins Per Inch, Add	46.15	
For 230 PSIG Heavy Duty, Add	322.32	
23 82 16 11-0063 EA 24" x 48" Hot Water Heating Coil, 1 Row Flanged Construction.....	1,681.03	322.03
For 10 Fins Per Inch, Add	20.77	
For 12 Fins Per Inch, Add	51.91	
For 230 PSIG Heavy Duty, Add	400.48	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating And Cooling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0064	EA		30" x 48" Hot Water Heating Coil, 1 Row Flanged Construction	1,924.94	385.66
			<i>For 10 Fins Per Inch, Add</i>	23.07	
			<i>For 12 Fins Per Inch, Add</i>	57.68	
			<i>For 230 PSIG Heavy Duty, Add</i>	462.12	
23 82 16 11-0065	EA		30" x 60" Hot Water Heating Coil, 1 Row Flanged Construction	2,279.28	482.07
			<i>For 10 Fins Per Inch, Add</i>	26.30	
			<i>For 12 Fins Per Inch, Add</i>	65.76	
			<i>For 230 PSIG Heavy Duty, Add</i>	552.27	
23 82 16 11-0066	EA		30" x 72" Hot Water Heating Coil, 1 Row Flanged Construction	2,547.92	535.10
			<i>For 10 Fins Per Inch, Add</i>	29.53	
			<i>For 12 Fins Per Inch, Add</i>	73.83	
			<i>For 230 PSIG Heavy Duty, Add</i>	616.71	
23 82 16 11-0067	EA		30" x 84" Hot Water Heating Coil, 1 Row Flanged Construction	3,120.61	622.17
			<i>For 10 Fins Per Inch, Add</i>	37.43	
			<i>For 12 Fins Per Inch, Add</i>	93.59	
			<i>For 230 PSIG Heavy Duty, Add</i>	749.01	
23 82 16 11-0068	EA		34" x 32" Hot Water Heating Coil, 1 Row Flanged Construction	1,347.35	269.57
			<i>For 10 Fins Per Inch, Add</i>	16.16	
			<i>For 12 Fins Per Inch, Add</i>	40.41	
			<i>For 230 PSIG Heavy Duty, Add</i>	323.39	
23 82 16 11-0069	EA		34" x 48" Hot Water Heating Coil, 1 Row Flanged Construction	2,021.01	404.46
			<i>For 10 Fins Per Inch, Add</i>	24.24	
			<i>For 12 Fins Per Inch, Add</i>	60.61	
			<i>For 230 PSIG Heavy Duty, Add</i>	485.09	
23 82 16 11-0070	EA		34" x 72" Hot Water Heating Coil, 1 Row Flanged Construction	3,041.78	611.75
			<i>For 10 Fins Per Inch, Add</i>	36.36	
			<i>For 12 Fins Per Inch, Add</i>	90.91	
			<i>For 230 PSIG Heavy Duty, Add</i>	730.71	
23 82 16 11-0071	EA		34" x 84" Hot Water Heating Coil, 1 Row Flanged Construction	3,539.14	708.94
			<i>For 10 Fins Per Inch, Add</i>	42.43	
			<i>For 12 Fins Per Inch, Add</i>	106.06	
			<i>For 230 PSIG Heavy Duty, Add</i>	849.62	
23 82 16 11-0072	SF		>15 SF Hot Water Heating Coil, 1 Row, Flanged Construction	164.25	35.67
			<i>For 10 Fins Per Inch, Add</i>	1.86	
			<i>For 12 Fins Per Inch, Add</i>	4.64	
			<i>For 230 PSIG Heavy Duty, Add</i>	39.99	
23 82 16 11-0073			2 Row Hot Water Heating Coils <small>(23 82 16 11-0058)</small>		
23 82 16 11-0074	EA		12" x 12" Hot Water Heating Coil, 2 Row Flanged Construction	1,198.14	161.01
			<i>For 10 Fins Per Inch, Add</i>	17.54	
			<i>For 12 Fins Per Inch, Add</i>	43.84	
			<i>For 230 PSIG Heavy Duty, Add</i>	271.77	
23 82 16 11-0075	EA		12" x 24" Hot Water Heating Coil, 2 Row Flanged Construction	1,328.34	214.04
			<i>For 10 Fins Per Inch, Add</i>	18.00	
			<i>For 12 Fins Per Inch, Add</i>	44.99	
			<i>For 230 PSIG Heavy Duty, Add</i>	308.52	
23 82 16 11-0076	EA		24" x 30" Hot Water Heating Coil, 2 Row Flanged Construction	1,819.47	322.03
			<i>For 10 Fins Per Inch, Add</i>	23.53	
			<i>For 12 Fins Per Inch, Add</i>	58.84	
			<i>For 230 PSIG Heavy Duty, Add</i>	428.17	
23 82 16 11-0077	EA		24" x 48" Hot Water Heating Coil, 2 Row Flanged Construction	2,256.44	458.93
			<i>For 10 Fins Per Inch, Add</i>	26.76	
			<i>For 12 Fins Per Inch, Add</i>	66.91	
			<i>For 230 PSIG Heavy Duty, Add</i>	543.11	
23 82 16 11-0078	EA		30" x 48" Hot Water Heating Coil, 2 Row Flanged Construction	2,634.00	566.92
			<i>For 10 Fins Per Inch, Add</i>	29.99	
			<i>For 12 Fins Per Inch, Add</i>	74.99	
			<i>For 230 PSIG Heavy Duty, Add</i>	640.23	
23 82 16 11-0079	EA		30" x 60" Hot Water Heating Coil, 2 Row Flanged Construction	2,877.07	688.41
			<i>For 10 Fins Per Inch, Add</i>	29.99	
			<i>For 12 Fins Per Inch, Add</i>	74.99	
			<i>For 230 PSIG Heavy Duty, Add</i>	713.15	
23 82 16 11-0080	EA		30" x 72" Hot Water Heating Coil, 2 Row Flanged Construction	3,268.14	804.10
			<i>For 10 Fins Per Inch, Add</i>	33.22	
			<i>For 12 Fins Per Inch, Add</i>	83.06	
			<i>For 230 PSIG Heavy Duty, Add</i>	814.32	
23 82 16 11-0081	EA		30" x 84" Hot Water Heating Coil, 2 Row Flanged Construction	3,974.18	934.26
			<i>For 10 Fins Per Inch, Add</i>	42.11	
			<i>For 12 Fins Per Inch, Add</i>	105.28	
			<i>For 230 PSIG Heavy Duty, Add</i>	981.69	
23 82 16 11-0082	EA		34" x 32" Hot Water Heating Coil, 2 Row Flanged Construction	1,715.26	403.11
			<i>For 10 Fins Per Inch, Add</i>	18.18	
			<i>For 12 Fins Per Inch, Add</i>	45.46	
			<i>For 230 PSIG Heavy Duty, Add</i>	423.67	
23 82 16 11-0083	EA		34" x 48" Hot Water Heating Coil, 2 Row Flanged Construction	2,574.92	605.59
			<i>For 10 Fins Per Inch, Add</i>	27.27	
			<i>For 12 Fins Per Inch, Add</i>	68.18	
			<i>For 230 PSIG Heavy Duty, Add</i>	636.11	
23 82 16 11-0084	EA		34" x 72" Hot Water Heating Coil, 2 Row Flanged Construction	3,871.54	913.05
			<i>For 10 Fins Per Inch, Add</i>	40.91	
			<i>For 12 Fins Per Inch, Add</i>	102.28	
			<i>For 230 PSIG Heavy Duty, Add</i>	956.91	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 11-0085 EA 34" x 84" Hot Water Heating Coil, 2 Row Flanged Construction For 10 Fins Per Inch, Add For 12 Fins Per Inch, Add For 230 PSIG Heavy Duty, Add	4,519.52 47.73 119.32 1,117.21	1,066.54
23 82 16 11-0086 Hot Water Preheat Coils For Multi-Zone Air Handling Units (23 82 16 11) Note: 2 Row coils. Coils are sized by air handling unit capacity.		
23 82 16 11-0087 EA 3,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	966.26	122.45
23 82 16 11-0088 EA 4,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	1,206.21	121.48
23 82 16 11-0089 EA 5,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	1,462.66	130.16
23 82 16 11-0090 EA 6,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	1,691.00	141.73
23 82 16 11-0091 EA 7,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	1,704.08	148.47
23 82 16 11-0092 EA 9,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	2,041.45	156.19
23 82 16 11-0093 EA 11,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	2,127.18	175.48
23 82 16 11-0094 EA 13,200 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	2,354.69	196.68
23 82 16 11-0095 EA 16,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	2,662.20	235.26
23 82 16 11-0096 EA 19,500 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	2,893.98	246.83
23 82 16 11-0097 EA 22,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	3,659.02	261.28
23 82 16 11-0098 EA 27,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	4,682.65	357.70
23 82 16 11-0099 EA 34,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	5,874.00	438.69
23 82 16 11-0100 EA 40,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	6,796.74	458.93
23 82 16 11-0101 EA 47,000 CFM, Hot Water Preheat Coils, 2 Row Coils, Multi Zone Air Handling Unit	7,981.49	535.10
23 82 16 12 Steam Air Coils (23 82 16)		
23 82 16 12-0001 Steam Heating Coils (23 82 16 12) Note: Flanged construction.		
23 82 16 12-0002 EA 12" x 12" Steam Heating Coils, 1 Row Flanged Construction	826.25	90.63
For 2 Row Coil, Add	283.92	
For 4 Row Coil, Add	738.49	
23 82 16 12-0003 EA 12" x 24" Steam Heating Coils, 1 Row Flanged Construction	942.60	125.33
For 2 Row Coil, Add	332.87	
For 4 Row Coil, Add	861.76	
23 82 16 12-0004 EA 24" x 30" Steam Heating Coils, 1 Row Flanged Construction	1,302.12	224.64
For 2 Row Coil, Add	480.32	
For 4 Row Coil, Add	1,234.53	
23 82 16 12-0005 EA 24" x 48" Steam Heating Coils, 1 Row Flanged Construction	1,681.03	322.03
For 2 Row Coil, Add	632.86	
For 4 Row Coil, Add	1,621.22	
23 82 16 12-0006 EA 30" x 48" Steam Heating Coils, 1 Row Flanged Construction	1,901.87	385.66
For 2 Row Coil, Add	724.83	
For 4 Row Coil, Add	1,853.16	
23 82 16 12-0007 EA 30" x 60" Steam Heating Coils, 1 Row Flanged Construction	2,186.99	482.07
For 2 Row Coil, Add	848.93	
For 4 Row Coil, Add	2,164.18	
23 82 16 12-0008 EA 30" x 72" Steam Heating Coils, 1 Row Flanged Construction	2,409.48	535.10
For 2 Row Coil, Add	937.10	
For 4 Row Coil, Add	2,388.23	
23 82 16 12-0009 EA 30" x 84" Steam Heating Coils, 1 Row Flanged Construction	2,945.12	624.48
For 2 Row Coil, Add	1,133.32	
For 4 Row Coil, Add	2,893.12	
23 82 16 12-0010 EA 34" x 32" Steam Heating Coils, 1 Row Flanged Construction	1,271.58	269.57
For 2 Row Coil, Add	489.32	
For 4 Row Coil, Add	1,249.14	
23 82 16 12-0011 EA 34" x 48" Steam Heating Coils, 1 Row Flanged Construction	1,907.37	404.46
For 2 Row Coil, Add	733.98	
For 4 Row Coil, Add	1,873.70	
23 82 16 12-0012 EA 34" x 72" Steam Heating Coils, 1 Row Flanged Construction	2,859.01	605.59
For 2 Row Coil, Add	1,099.95	
For 4 Row Coil, Add	2,808.05	
23 82 16 12-0013 EA 34" x 84" Steam Heating Coils, 1 Row Flanged Construction	3,340.27	708.94
For 2 Row Coil, Add	1,285.66	
For 4 Row Coil, Add	3,281.90	
23 82 16 13 Refrigerant Air Coils (23 82 16)		
23 82 16 13-0001 Direct Expansion Cooling Coils (23 82 16 13) Note: Flanged construction 16 gauge galvanized steel casing.		
23 82 16 13-0002 2 Row Direct Expansion Cooling Coils (23 82 16 13-0001)		
23 82 16 13-0003 EA 12" x 12" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing	611.04	72.32
For 10 Fins Per Inch, Add	9.32	
For 12 Fins Per Inch, Add	23.30	
23 82 16 13-0004 EA 12" x 24" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing	1,130.93	99.31
For 10 Fins Per Inch, Add	18.64	
For 12 Fins Per Inch, Add	46.61	
23 82 16 13-0005 EA 24" x 30" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing	1,580.00	156.19
For 10 Fins Per Inch, Add	25.38	
For 12 Fins Per Inch, Add	63.45	
23 82 16 13-0006 EA 24" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing	1,948.15	224.64
For 10 Fins Per Inch, Add	29.99	
For 12 Fins Per Inch, Add	74.99	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating And Cooling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 13-0007	EA		30" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,281.38	274.78
			<i>For 10 Fins Per Inch, Add</i>	34.61	
			<i>For 12 Fins Per Inch, Add</i>	86.52	
23 82 16 13-0008	EA		30" x 60" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,579.95	332.63
			<i>For 10 Fins Per Inch, Add</i>	38.30	
			<i>For 12 Fins Per Inch, Add</i>	95.75	
23 82 16 13-0009	EA		30" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,963.21	385.66
			<i>For 10 Fins Per Inch, Add</i>	43.84	
			<i>For 12 Fins Per Inch, Add</i>	109.59	
23 82 16 13-0010	EA		30" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,677.72	449.68
			<i>For 10 Fins Per Inch, Add</i>	55.57	
			<i>For 12 Fins Per Inch, Add</i>	138.92	
23 82 16 13-0011	EA		34" x 32" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,410.05	170.94
			<i>For 10 Fins Per Inch, Add</i>	21.36	
			<i>For 12 Fins Per Inch, Add</i>	53.41	
23 82 16 13-0012	EA		34" x 48" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,901.08	291.07
			<i>For 10 Fins Per Inch, Add</i>	26.38	
			<i>For 12 Fins Per Inch, Add</i>	65.94	
23 82 16 13-0013	EA		34" x 72" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,433.78	436.66
			<i>For 10 Fins Per Inch, Add</i>	31.21	
			<i>For 12 Fins Per Inch, Add</i>	78.02	
23 82 16 13-0014	EA		34" x 84" Direct Expansion Cooling Coil, 2 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,697.90	508.49
			<i>For 10 Fins Per Inch, Add</i>	33.62	
			<i>For 12 Fins Per Inch, Add</i>	84.04	
23 82 16 13-0015			4 Row Direct Expansion Cooling Coils <small>(23 82 16 13-0001)</small>		
23 82 16 13-0016	EA		12" x 12" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	992.25	100.27
			<i>For 10 Fins Per Inch, Add</i>	15.83	
			<i>For 12 Fins Per Inch, Add</i>	39.57	
23 82 16 13-0017	EA		12" x 24" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,418.35	144.62
			<i>For 10 Fins Per Inch, Add</i>	22.61	
			<i>For 12 Fins Per Inch, Add</i>	56.53	
23 82 16 13-0018	EA		24" x 30" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,981.78	241.04
			<i>For 10 Fins Per Inch, Add</i>	29.99	
			<i>For 12 Fins Per Inch, Add</i>	74.99	
23 82 16 13-0019	EA		24" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,490.76	357.70
			<i>For 10 Fins Per Inch, Add</i>	35.53	
			<i>For 12 Fins Per Inch, Add</i>	88.83	
23 82 16 13-0020	EA		30" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,906.88	438.69
			<i>For 10 Fins Per Inch, Add</i>	40.61	
			<i>For 12 Fins Per Inch, Add</i>	101.52	
23 82 16 13-0021	EA		30" x 60" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,470.82	536.07
			<i>For 10 Fins Per Inch, Add</i>	47.99	
			<i>For 12 Fins Per Inch, Add</i>	119.98	
23 82 16 13-0022	EA		30" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,915.79	643.08
			<i>For 10 Fins Per Inch, Add</i>	52.61	
			<i>For 12 Fins Per Inch, Add</i>	131.51	
23 82 16 13-0023	EA		30" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,957.38	748.57
			<i>For 10 Fins Per Inch, Add</i>	49.21	
			<i>For 12 Fins Per Inch, Add</i>	123.01	
23 82 16 13-0024	EA		34" x 32" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,330.36	323.09
			<i>For 10 Fins Per Inch, Add</i>	33.68	
			<i>For 12 Fins Per Inch, Add</i>	84.21	
23 82 16 13-0025	EA		34" x 48" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,051.37	485.93
			<i>For 10 Fins Per Inch, Add</i>	41.59	
			<i>For 12 Fins Per Inch, Add</i>	103.97	
23 82 16 13-0026	EA		34" x 72" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,739.66	854.72
			<i>For 10 Fins Per Inch, Add</i>	60.60	
			<i>For 12 Fins Per Inch, Add</i>	151.51	
23 82 16 13-0027	EA		34" x 84" Direct Expansion Cooling Coil, 4 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,445.69	996.06
			<i>For 10 Fins Per Inch, Add</i>	69.07	
			<i>For 12 Fins Per Inch, Add</i>	172.68	
23 82 16 13-0028			6 Row Direct Expansion Cooling Coils <small>(23 82 16 13-0001)</small>		
23 82 16 13-0029	EA		12" x 12" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,268.92	126.30
			<i>For 10 Fins Per Inch, Add</i>	20.30	
			<i>For 12 Fins Per Inch, Add</i>	50.76	
23 82 16 13-0030	EA		12" x 24" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,508.65	188.98
			<i>For 10 Fins Per Inch, Add</i>	22.61	
			<i>For 12 Fins Per Inch, Add</i>	56.53	
23 82 16 13-0031	EA		24" x 30" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,234.77	322.03
			<i>For 10 Fins Per Inch, Add</i>	31.84	
			<i>For 12 Fins Per Inch, Add</i>	79.60	
23 82 16 13-0032	EA		24" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,925.31	482.07
			<i>For 10 Fins Per Inch, Add</i>	39.22	
			<i>For 12 Fins Per Inch, Add</i>	98.06	
23 82 16 13-0033	EA		30" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,812.38	602.59
			<i>For 10 Fins Per Inch, Add</i>	52.14	
			<i>For 12 Fins Per Inch, Add</i>	130.36	
23 82 16 13-0034	EA		30" x 60" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,390.43	741.44
			<i>For 10 Fins Per Inch, Add</i>	58.14	
			<i>For 12 Fins Per Inch, Add</i>	145.36	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 13-0035 EA 30" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,121.58	876.41
<i>For 10 Fins Per Inch, Add</i>	67.37	
<i>For 12 Fins Per Inch, Add</i>	168.43	
23 82 16 13-0036 EA 30" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,070.70	1,021.32
<i>For 10 Fins Per Inch, Add</i>	60.56	
<i>For 12 Fins Per Inch, Add</i>	151.40	
23 82 16 13-0037 EA 34" x 32" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,955.70	441.49
<i>For 10 Fins Per Inch, Add</i>	41.46	
<i>For 12 Fins Per Inch, Add</i>	103.64	
23 82 16 13-0038 EA 34" x 48" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,883.70	662.18
<i>For 10 Fins Per Inch, Add</i>	51.19	
<i>For 12 Fins Per Inch, Add</i>	127.97	
23 82 16 13-0039 EA 34" x 72" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,003.87	987.87
<i>For 10 Fins Per Inch, Add</i>	60.56	
<i>For 12 Fins Per Inch, Add</i>	151.41	
23 82 16 13-0040 EA 34" x 84" Direct Expansion Cooling Coil, 6 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,579.54	1,158.81
<i>For 10 Fins Per Inch, Add</i>	65.24	
<i>For 12 Fins Per Inch, Add</i>	163.09	
23 82 16 13-0041 8 Row Direct Expansion Cooling Coils (23 82 16 13-0001)		
23 82 16 13-0042 EA 12" x 12" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,575.07	152.34
<i>For 10 Fins Per Inch, Add</i>	25.38	
<i>For 12 Fins Per Inch, Add</i>	63.45	
23 82 16 13-0043 EA 12" x 24" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	1,946.95	235.26
<i>For 10 Fins Per Inch, Add</i>	29.53	
<i>For 12 Fins Per Inch, Add</i>	73.83	
23 82 16 13-0044 EA 24" x 30" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	2,972.59	419.41
<i>For 10 Fins Per Inch, Add</i>	42.68	
<i>For 12 Fins Per Inch, Add</i>	106.71	
23 82 16 13-0045 EA 24" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,031.15	643.08
<i>For 10 Fins Per Inch, Add</i>	54.91	
<i>For 12 Fins Per Inch, Add</i>	137.28	
23 82 16 13-0046 EA 30" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,871.68	804.10
<i>For 10 Fins Per Inch, Add</i>	65.30	
<i>For 12 Fins Per Inch, Add</i>	163.24	
23 82 16 13-0047 EA 30" x 60" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,689.11	964.15
<i>For 10 Fins Per Inch, Add</i>	75.22	
<i>For 12 Fins Per Inch, Add</i>	188.04	
23 82 16 13-0048 EA 30" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,503.25	1,071.17
<i>For 10 Fins Per Inch, Add</i>	87.21	
<i>For 12 Fins Per Inch, Add</i>	218.04	
23 82 16 13-0049 EA 30" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,891.44	1,242.50
<i>For 10 Fins Per Inch, Add</i>	68.13	
<i>For 12 Fins Per Inch, Add</i>	170.33	
23 82 16 13-0050 EA 34" x 32" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	3,407.95	538.00
<i>For 10 Fins Per Inch, Add</i>	46.64	
<i>For 12 Fins Per Inch, Add</i>	116.59	
23 82 16 13-0051 EA 34" x 48" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	4,496.93	808.82
<i>For 10 Fins Per Inch, Add</i>	57.58	
<i>For 12 Fins Per Inch, Add</i>	143.96	
23 82 16 13-0052 EA 34" x 72" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	5,841.39	1,217.33
<i>For 10 Fins Per Inch, Add</i>	68.13	
<i>For 12 Fins Per Inch, Add</i>	170.33	
23 82 16 13-0053 EA 34" x 84" Direct Expansion Cooling Coil, 8 Rows Flanged Construction, 16 Gauge Galvanized Steel Casing.....	6,505.37	1,417.88
<i>For 10 Fins Per Inch, Add</i>	73.39	
<i>For 12 Fins Per Inch, Add</i>	183.48	
23 82 16 14 Electric-Resistance Air Coils (23 82 16)		
23 82 16 14-0001 Standard Electric Slip-In Blast Coil Heater (23 82 16 14)		
23 82 16 14-0002 Electric Slip-In Blast Coil Heater With Open Coil Element (23 82 16 14-0001)		
23 82 16 14-0003 EA 1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	302.73	64.94
23 82 16 14-0004 EA 1 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	313.54	70.00
23 82 16 14-0005 EA 2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	326.32	76.75
23 82 16 14-0006 EA 3 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	330.62	79.27
23 82 16 14-0007 EA 4 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	341.65	84.34
23 82 16 14-0008 EA 5 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	354.35	91.08
23 82 16 14-0009 EA 6 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	406.21	102.04
23 82 16 14-0010 EA 7 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	416.50	107.11
23 82 16 14-0011 EA 8 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	424.92	110.48
23 82 16 14-0012 EA 9 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	437.26	117.22
23 82 16 14-0013 EA 10 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	475.75	123.98
23 82 16 14-0014 EA 12-1/2 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	499.76	135.78
23 82 16 14-0015 EA 15 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	523.61	147.58
23 82 16 14-0016 EA 20 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	547.72	159.39
23 82 16 14-0017 EA 30 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	718.62	222.65
23 82 16 14-0018 EA 40 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,204.38	236.98
23 82 16 14-0019 EA 50 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,329.26	271.56
23 82 16 14-0020 EA 60 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,560.85	301.08
23 82 16 14-0021 EA 70 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,643.43	327.22
23 82 16 14-0022 EA 80 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater.....	1,800.88	359.27

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating And Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 16 14-0023 EA 90 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	2,184.38	383.73
23 82 16 14-0024 EA 100 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	2,395.15	412.40
23 82 16 14-0025 EA 125 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	2,881.11	445.29
23 82 16 14-0026 EA 150 KW Electric Heater, Open Coil Element, Standard Slip-In Blast Coil Duct Heater	3,236.32	484.08
23 82 16 14-0027 Electric Slip-In Blast Coil Heater With Finned Tubular Element (23 82 16 14-0001)		
23 82 16 14-0028 EA 1 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	754.83	92.77
23 82 16 14-0029 EA 2 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	788.79	101.21
23 82 16 14-0030 EA 3 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	806.44	101.21
23 82 16 14-0031 EA 4 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	842.95	111.32
23 82 16 14-0032 EA 5 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,137.73	111.32
23 82 16 14-0033 EA 6 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,165.97	111.32
23 82 16 14-0034 EA 8 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,184.72	123.98
23 82 16 14-0035 EA 9 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,208.14	139.16
23 82 16 14-0036 EA 10 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,224.03	139.16
23 82 16 14-0037 EA 15 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,421.84	159.39
23 82 16 14-0038 EA 20 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,697.20	159.39
23 82 16 14-0039 EA 30 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	1,848.55	185.53
23 82 16 14-0040 EA 40 KW Electric Heater, Finned Tube Element, Standard Slip-In Blast Coil Duct Heater	2,499.89	185.53
23 82 19 Fan Coil Units (23 82)		
23 82 19 00-0001 Ceiling Suspended Horizontal Fan Coil Units (23 82 19)		
Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds. Excludes supports.		
23 82 19 00-0002 Remote Horizontal Fan Coil Units With Electric Heating Coil (23 82 19 00-0001)		
23 82 19 00-0003 EA 200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	1,728.79	156.19
For 2-Way Valve Instead Of 3-Way, Deduct	-50.55	
23 82 19 00-0004 EA 300 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	1,901.82	182.23
For 2-Way Valve Instead Of 3-Way, Deduct	-53.19	
23 82 19 00-0005 EA 400 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	2,105.46	205.37
For 2-Way Valve Instead Of 3-Way, Deduct	-55.51	
23 82 19 00-0006 EA 600 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	2,442.88	235.26
For 2-Way Valve Instead Of 3-Way, Deduct	-58.52	
23 82 19 00-0007 EA 800 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	2,744.40	246.83
For 2-Way Valve Instead Of 3-Way, Deduct	-102.08	
23 82 19 00-0008 EA 1,000 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	3,757.40	261.28
For 2-Way Valve Instead Of 3-Way, Deduct	-104.09	
23 82 19 00-0009 EA 1,200 CFM Horizontal Fan Coil, Electric Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	4,573.93	283.46
For 2-Way Valve Instead Of 3-Way, Deduct	-107.54	
23 82 19 00-0010 Horizontal Fan Coil Units With Hot Water Heating Coil (23 82 19 00-0001)		
23 82 19 00-0011 EA 200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	935.14	156.19
For 2-Way Valve Instead Of 3-Way, Deduct	-50.55	
23 82 19 00-0012 EA 300 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	1,140.53	182.23
For 2-Way Valve Instead Of 3-Way, Deduct	-53.19	
23 82 19 00-0013 EA 400 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	1,356.50	205.37
For 2-Way Valve Instead Of 3-Way, Deduct	-55.51	
23 82 19 00-0014 EA 600 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	2,627.81	235.26
For 2-Way Valve Instead Of 3-Way, Deduct	-58.52	
23 82 19 00-0015 EA 800 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	2,960.15	247.78
For 2-Way Valve Instead Of 3-Way, Deduct	-102.08	
23 82 19 00-0016 EA 1,000 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	4,065.62	261.28
For 2-Way Valve Instead Of 3-Way, Deduct	-104.09	
23 82 19 00-0017 EA 1,200 CFM Horizontal Fan Coil, Hot Water Heating, Ceiling Hung, Chilled Water Coil, With Cabinet	5,159.53	283.46
For 2-Way Valve Instead Of 3-Way, Deduct	-107.54	
23 82 19 00-0018 Floor Mounted Vertical Fan Coil Units (23 82 19)		
Note: Includes cabinet, chilled water coil, baked enamel finish, multispeed fan and fan switch with integral and/or remote thermostat to control valves and on/off and fan speeds.		
23 82 19 00-0019 Vertical Fan Coil Units With Electric Heating Coil (23 82 19 00-0018)		
23 82 19 00-0020 EA 200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet	1,667.15	155.22
For Fan Coil Units Without Cabinet, Deduct	-218.97	
For Thru-Wall Sleeve, Add	117.20	
For 2-Way Valve Instead Of 3-Way, Deduct	-50.55	
23 82 19 00-0021 EA 300 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet	1,904.90	182.23
For Fan Coil Units Without Cabinet, Deduct	-249.35	
For Thru-Wall Sleeve, Add	127.77	
For 2-Way Valve Instead Of 3-Way, Deduct	-53.19	
23 82 19 00-0022 EA 400 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet	2,259.56	205.37
For Fan Coil Units Without Cabinet, Deduct	-297.91	
For Thru-Wall Sleeve, Add	137.06	
For 2-Way Valve Instead Of 3-Way, Deduct	-55.51	
23 82 19 00-0023 EA 600 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet	2,596.98	235.26
For Fan Coil Units Without Cabinet, Deduct	-342.52	
For Thru-Wall Sleeve, Add	149.06	
For 2-Way Valve Instead Of 3-Way, Deduct	-58.52	



MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 19 00-0024 EA 800 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... <i>For Fan Coil Units Without Cabinet, Deduct</i> <i>For Thru-Wall Sleeve, Add</i> <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	2,929.33 -389.96 153.89 -102.08	247.78
23 82 19 00-0025 EA 1,000 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... <i>For Fan Coil Units Without Cabinet, Deduct</i> <i>For Thru-Wall Sleeve, Add</i> <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	3,757.40 -511.49 159.23 -104.09	261.28
23 82 19 00-0026 EA 1,200 CFM Vertical Fan Coil, Electric Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... <i>For Fan Coil Units Without Cabinet, Deduct</i> <i>For Thru-Wall Sleeve, Add</i> <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	4,419.82 -606.26 168.43 -107.54	283.46
23 82 19 00-0027 Vertical Fan Coil Units With Hot Water Heating Coil <small>(23 82 19 00-0018)</small>		
23 82 19 00-0028 EA 200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... <i>For Fan Coil Units Without Cabinet, Deduct</i> <i>For Thru-Wall Sleeve, Add</i> <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	1,852.08 -246.71 117.20 -50.55	155.22
23 82 19 00-0029 EA 300 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... <i>For Fan Coil Units Without Cabinet, Deduct</i> <i>For Thru-Wall Sleeve, Add</i> <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	2,089.83 -277.09 127.77 -53.19	182.23
23 82 19 00-0030 EA 400 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... <i>For Fan Coil Units Without Cabinet, Deduct</i> <i>For Thru-Wall Sleeve, Add</i> <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	2,567.78 -344.14 137.06 -55.51	205.37
23 82 19 00-0031 EA 600 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... <i>For Fan Coil Units Without Cabinet, Deduct</i> <i>For Thru-Wall Sleeve, Add</i> <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	2,936.02 -393.37 149.06 -58.52	235.26
23 82 19 00-0032 EA 800 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... <i>For Fan Coil Units Without Cabinet, Deduct</i> <i>For Thru-Wall Sleeve, Add</i> <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	3,268.36 -440.81 153.89 -102.08	247.78
23 82 19 00-0033 EA 1,000 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... <i>For Fan Coil Units Without Cabinet, Deduct</i> <i>For Thru-Wall Sleeve, Add</i> <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	3,911.51 -534.61 159.23 -104.09	261.28
23 82 19 00-0034 EA 1,200 CFM Vertical Fan Coil, Hot Water Heating, Floor Mounted, Chilled Water Coil, With Cabinet..... <i>For Fan Coil Units Without Cabinet, Deduct</i> <i>For Thru-Wall Sleeve, Add</i> <i>For 2-Way Valve Instead Of 3-Way, Deduct</i>	4,573.93 -629.37 168.43 -107.54	283.46
23 82 19 00-0035 Removal And Reinstallation Of Fan Coil Units <small>(23 82 19)</small> Note: Includes storage and cleaning. Excludes supports.		
23 82 19 00-0036 EA Removal And Reinstallation Of Fan Coil Unit Horizontal Or Vertical.....	409.93	
23 82 29 Radiators <small>(23 82)</small>		
23 82 29 00-0001 Demolish Cast Iron Radiators <small>(23 82 29)</small>		
23 82 29 00-0002 LF Demolish Cast Iron Radiator.....	28.91	
23 82 29 00-0003 EA Cap Radiator.....	39.74	
23 82 29 00-0004 Cast Iron Radiator <small>(23 82 29)</small>		
23 82 29 00-0005 EA 19" High Cast Iron Radiator Section, Free Standing..... <i>For Wall Support Bracket, Add</i>	46.58 26.63	
23 82 29 00-0006 EA 25" High Cast Iron Radiator Section, Free Standing..... <i>For Wall Support Bracket, Add</i>	66.48 27.88	
23 82 29 00-0007 EA 30" High Cast Iron Radiator Section, Free Standing.....	77.50	
23 82 29 00-0008 EA 36" High Cast Iron Radiator Section, Free Standing.....	97.88	
23 82 29 00-0009 EA 20" High Cast Iron Radiator Section, Recessed With Grille.....	64.33	
23 82 29 00-0010 Radiator Covers <small>(23 82 29)</small> Note: Includes field cutouts, vent grilles, and insulation backing. To calculate quantity, measure the surface area of front, top and sides.		
23 82 29 00-0011 SF 14 Gauge Stainless Steel Radiator Cover.....	78.20	4.58
23 82 29 00-0012 SF Primed And Painted, Galvanized Steel Radiator Cover.....	49.43	4.58
23 82 29 00-0013 Radiator Shields <small>(23 82 29)</small>		
23 82 29 00-0014 SF Stainless Steel Radiator Shield.....	48.25	4.58
23 82 29 00-0015 SF Primed And Painted, Galvanized Steel Radiator Shield.....	27.72	4.58
23 82 29 00-0016 Remove And Reinstall Radiator <small>(23 82 29)</small> Note: Includes storage and cleaning.		
23 82 29 00-0017 LF Removal And Reinstallation Of Cast Iron Radiator.....	72.32	
23 82 29 00-0018 LF Removal And Reinstallation Of Electric Radiator.....	48.21	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating And Cooling Units



MINOR
CSI UOM DESCRIPTION

TOTAL DIRECT DEMOLITION
UNIT COST UNIT COST

23 82 33 Convectors (23 82)

23 82 33 00-0001 Multi-Fin Convectors For Two-Pipe System (23 82 33)

Note: Complete with 6-1/4" deep cabinet enclosure.

23 82 33 00-0002 20" High Multi-Fin Convectors For Two-Pipe System (23 82 33 00-0001)

23 82 33 00-0003	EA 20" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	447.89	106.06
	<i>For Metal Trim Strips, Add</i>	54.21	
	<i>For Snap-On Inlet Grille, Add</i>	42.14	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	100.52	
	<i>For Knob Operated Damper, Add</i>	15.00	
23 82 33 00-0004	EA 20" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	526.32	115.70
	<i>For Metal Trim Strips, Add</i>	58.59	
	<i>For Snap-On Inlet Grille, Add</i>	45.06	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	122.86	
	<i>For Knob Operated Damper, Add</i>	15.00	
23 82 33 00-0005	EA 20" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	606.15	136.90
	<i>For Metal Trim Strips, Add</i>	68.18	
	<i>For Snap-On Inlet Grille, Add</i>	51.45	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	139.61	
	<i>For Knob Operated Damper, Add</i>	15.00	
23 82 33 00-0006	EA 20" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	725.08	159.09
	<i>For Metal Trim Strips, Add</i>	78.30	
	<i>For Snap-On Inlet Grille, Add</i>	58.20	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	169.42	
	<i>For Knob Operated Damper, Add</i>	15.00	
23 82 33 00-0007	EA 20" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	864.84	190.90
	<i>For Metal Trim Strips, Add</i>	92.76	
	<i>For Snap-On Inlet Grille, Add</i>	67.84	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	201.48	
	<i>For Knob Operated Damper, Add</i>	15.00	
23 82 33 00-0008	EA 20" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	972.23	209.99
	<i>For Metal Trim Strips, Add</i>	101.42	
	<i>For Snap-On Inlet Grille, Add</i>	73.62	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	228.95	
	<i>For Knob Operated Damper, Add</i>	15.00	
23 82 33 00-0009	EA 20" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,131.26	254.53
	<i>For Metal Trim Strips, Add</i>	121.66	
	<i>For Snap-On Inlet Grille, Add</i>	87.11	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	261.01	
	<i>For Knob Operated Damper, Add</i>	15.00	
23 82 33 00-0010	EA 20" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,233.88	270.45
	<i>For Metal Trim Strips, Add</i>	128.90	
	<i>For Snap-On Inlet Grille, Add</i>	91.93	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	288.48	
	<i>For Knob Operated Damper, Add</i>	15.00	
23 82 33 00-0011	EA 20" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,347.45	302.26
	<i>For Metal Trim Strips, Add</i>	143.34	
	<i>For Snap-On Inlet Grille, Add</i>	101.56	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	311.37	
	<i>For Knob Operated Damper, Add</i>	15.00	
23 82 33 00-0012	EA 20" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,487.29	334.08
	<i>For Metal Trim Strips, Add</i>	157.82	
	<i>For Snap-On Inlet Grille, Add</i>	111.21	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	343.43	
	<i>For Knob Operated Damper, Add</i>	15.00	
23 82 33 00-0013	EA 20" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,600.88	365.89
	<i>For Metal Trim Strips, Add</i>	172.27	
	<i>For Snap-On Inlet Grille, Add</i>	120.85	
	<i>For Access Doors Hinged, Add</i>	15.00	
	<i>For Air Chamber, Auto-vent, Add</i>	18.00	
	<i>For 3 Tubes System, Add</i>	366.32	
	<i>For Knob Operated Damper, Add</i>	15.00	



Heating, Ventilating, And Air-Conditioning (HVAC)		23
Decentralized Unitary HVAC Equipment		23 80
Convection Heating And Cooling Units		23 82

23

MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0014			26" High Multi-Fin Convectors For Two-Pipe System <small>(23 82 33 00-0001)</small>		
23 82 33 00-0015	EA		26" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	528.35	139.51
			For Metal Trim Strips, Add	68.77	
			For Snap-On Inlet Grille, Add	51.85	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	111.69	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0016	EA		26" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	620.11	162.08
			For Metal Trim Strips, Add	78.89	
			For Snap-On Inlet Grille, Add	58.60	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	132.00	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0017	EA		26" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	749.42	190.33
			For Metal Trim Strips, Add	91.58	
			For Snap-On Inlet Grille, Add	67.05	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	162.46	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0018	EA		26" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	876.89	212.21
			For Metal Trim Strips, Add	101.40	
			For Snap-On Inlet Grille, Add	73.60	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	195.61	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0019	EA		26" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,022.24	238.63
			For Metal Trim Strips, Add	113.29	
			For Snap-On Inlet Grille, Add	81.52	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	232.62	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0020	EA		26" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,142.77	258.49
			For Metal Trim Strips, Add	122.26	
			For Snap-On Inlet Grille, Add	87.50	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	264.34	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0021	EA		26" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,303.26	294.54
			For Metal Trim Strips, Add	138.68	
			For Snap-On Inlet Grille, Add	98.45	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	301.35	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0022	EA		26" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,420.56	312.57
			For Metal Trim Strips, Add	146.68	
			For Snap-On Inlet Grille, Add	103.79	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	333.07	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0023	EA		26" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,537.83	340.82
			For Metal Trim Strips, Add	159.20	
			For Snap-On Inlet Grille, Add	112.14	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	359.50	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0024	EA		26" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,685.72	368.50
			For Metal Trim Strips, Add	171.85	
			For Snap-On Inlet Grille, Add	120.57	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	396.51	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0025	EA		26" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,799.19	393.85
			For Metal Trim Strips, Add	183.23	
			For Snap-On Inlet Grille, Add	128.16	
			For Access Doors Hinged, Add	15.00	
			For Air Chamber, Auto-vent, Add	18.00	
			For 3 Tubes System, Add	422.94	
			For Knob Operated Damper, Add	15.00	
23 82 33 00-0026			32" High Multi-Fin Convectors For Two-Pipe System <small>(23 82 33 00-0001)</small>		

23 Heating, Ventilating, And Air-Conditioning (HVAC)**23 80 Decentralized Unitary HVAC Equipment****23 82 Convection Heating And Cooling Units**

MINOR CSI UOM DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 33 00-0027 EA 32" High x 2' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	607.99	169.69
For Metal Trim Strips, Add	83.09	
For Snap-On Inlet Grille, Add	61.39	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	122.86	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0028 EA 32" High x 3' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	725.85	205.37
For Metal Trim Strips, Add	99.30	
For Snap-On Inlet Grille, Add	72.20	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	145.19	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0029 EA 32" High x 4' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	874.14	240.08
For Metal Trim Strips, Add	115.07	
For Snap-On Inlet Grille, Add	82.71	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	178.70	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0030 EA 32" High x 6' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,010.04	260.90
For Metal Trim Strips, Add	124.58	
For Snap-On Inlet Grille, Add	89.05	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	215.17	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0031 EA 32" High x 8' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet	1,157.85	281.92
For Metal Trim Strips, Add	134.03	
For Snap-On Inlet Grille, Add	95.35	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	255.88	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0032 EA 32" High x 10' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	1,288.58	302.26
For Metal Trim Strips, Add	143.34	
For Snap-On Inlet Grille, Add	101.56	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	290.77	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0033 EA 32" High x 12' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	1,443.65	327.71
For Metal Trim Strips, Add	154.97	
For Snap-On Inlet Grille, Add	109.31	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	331.48	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0034 EA 32" High x 14' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	1,575.36	348.73
For Metal Trim Strips, Add	164.58	
For Snap-On Inlet Grille, Add	115.72	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	366.37	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0035 EA 32" High x 16' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	1,693.15	372.26
For Metal Trim Strips, Add	174.99	
For Snap-On Inlet Grille, Add	122.66	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	395.45	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0036 EA 32" High x 18' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	1,844.12	394.53
For Metal Trim Strips, Add	185.39	
For Snap-On Inlet Grille, Add	129.59	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	436.16	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0037 EA 32" High x 20' Long Multi-Fin Convector, 2-Pipe System With 6-1/4" Deep Cabinet.....	1,955.62	413.62
For Metal Trim Strips, Add	193.92	
For Snap-On Inlet Grille, Add	135.28	
For Access Doors Hinged, Add	15.00	
For Air Chamber, Auto-vent, Add	18.00	
For 3 Tubes System, Add	465.23	
For Knob Operated Damper, Add	15.00	
23 82 33 00-0038 Electric Convectors, Floor Standing Units (23 82 33)		
23 82 33 00-0039 4" Deep Electric Convectors (23 82 33 00-0038)		
23 82 33 00-0040 EA 38" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units.....	463.36	90.41
23 82 33 00-0041 EA 50" Long x 14" High x 4" Deep Electric Convectors, Floor Standing Units.....	512.70	90.41



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
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23 82 33 00-0042			6" Deep Electric Convectors <small>(23 82 33 00-0038)</small>		
	EA		38" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units.....	535.47	90.41
	EA		50" Long x 14" High x 6" Deep Electric Convectors, Floor Standing Units.....	611.37	90.41
	EA		62" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units.....	677.78	90.41
	EA		74" Long x 20" High x 6" Deep Electric Convectors, Floor Standing Units.....	782.15	90.41

23 82 36 Finned-Tube Radiation Heaters (23 82)

23 82 36 00-0001 Finned Tube Baseboard Units (23 82 36)

Note: Complete with steel enclosure. Single heating element.

23 82 36 00-0002 3/4" IPS Steel Tube With Steel Fins (23 82 36 00-0001)

	EA	4'	Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	293.60	37.61
			<i>For 90 Degree Corner, Add</i>	46.38	
			<i>For Valve Enclosure, Add</i>	46.38	
			<i>For Filler Piece, Add</i>	39.38	
			<i>For End Cap, Add</i>	31.65	
			<i>For Copper Tube With Aluminum Fins, Add</i>	6.14	
	EA	6'	Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	386.66	56.88
			<i>For 90 Degree Corner, Add</i>	53.83	
			<i>For Valve Enclosure, Add</i>	53.83	
			<i>For Filler Piece, Add</i>	46.83	
			<i>For End Cap, Add</i>	36.49	
			<i>For Copper Tube With Aluminum Fins, Add</i>	9.21	
	EA	8'	Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	464.41	75.20
			<i>For 90 Degree Corner, Add</i>	58.21	
			<i>For Valve Enclosure, Add</i>	58.21	
			<i>For Filler Piece, Add</i>	51.21	
			<i>For End Cap, Add</i>	39.34	
			<i>For Copper Tube With Aluminum Fins, Add</i>	12.29	
	EA	10'	Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	578.56	105.28
			<i>For 90 Degree Corner, Add</i>	70.16	
			<i>For Valve Enclosure, Add</i>	70.16	
			<i>For Filler Piece, Add</i>	63.16	
			<i>For End Cap, Add</i>	47.11	
			<i>For Copper Tube With Aluminum Fins, Add</i>	15.28	
	EA	12'	Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	692.19	126.49
			<i>For 90 Degree Corner, Add</i>	82.31	
			<i>For Valve Enclosure, Add</i>	82.31	
			<i>For Filler Piece, Add</i>	75.31	
			<i>For End Cap, Add</i>	55.00	
			<i>For Copper Tube With Aluminum Fins, Add</i>	18.19	
	EA	14'	Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	782.44	134.98
			<i>For 90 Degree Corner, Add</i>	87.13	
			<i>For Valve Enclosure, Add</i>	87.13	
			<i>For Filler Piece, Add</i>	80.13	
			<i>For End Cap, Add</i>	58.14	
			<i>For Copper Tube With Aluminum Fins, Add</i>	21.82	
	EA	16'	Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	862.63	149.16
			<i>For 90 Degree Corner, Add</i>	95.23	
			<i>For Valve Enclosure, Add</i>	95.23	
			<i>For Filler Piece, Add</i>	88.23	
			<i>For End Cap, Add</i>	63.40	
			<i>For Copper Tube With Aluminum Fins, Add</i>	24.01	
	EA	18'	Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	984.66	168.73
			<i>For 90 Degree Corner, Add</i>	106.41	
			<i>For Valve Enclosure, Add</i>	106.41	
			<i>For Filler Piece, Add</i>	99.41	
			<i>For End Cap, Add</i>	70.67	
			<i>For Copper Tube With Aluminum Fins, Add</i>	27.64	
	EA	20'	Long Finned Tube Baseboard Unit Complete With Enclosure And 3/4" IPS Heat Element	1,085.82	185.60
			<i>For 90 Degree Corner, Add</i>	116.07	
			<i>For Valve Enclosure, Add</i>	116.07	
			<i>For Filler Piece, Add</i>	109.07	
			<i>For End Cap, Add</i>	76.94	
			<i>For Copper Tube With Aluminum Fins, Add</i>	30.55	

23 82 36 00-0012 1" IPS Steel Tube With Steel Fins (23 82 36 00-0001)

	EA	4'	Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	341.48	37.61
			<i>For 90 Degree Corner, Add</i>	46.38	
			<i>For Valve Enclosure, Add</i>	46.38	
			<i>For Filler Piece, Add</i>	39.38	
			<i>For End Cap, Add</i>	31.65	
			<i>For Copper Tube With Aluminum Fins, Add</i>	8.78	
	EA	6'	Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	458.46	56.88
			<i>For 90 Degree Corner, Add</i>	53.83	
			<i>For Valve Enclosure, Add</i>	53.83	
			<i>For Filler Piece, Add</i>	46.83	
			<i>For End Cap, Add</i>	36.49	
			<i>For Copper Tube With Aluminum Fins, Add</i>	13.16	

23 Heating, Ventilating, And Air-Conditioning (HVAC)

23 80 Decentralized Unitary HVAC Equipment

23 82 Convection Heating And Cooling Units



MINOR	CSI	UOM	DESCRIPTION	TOTAL DIRECT UNIT COST	DEMOLITION UNIT COST
23 82 36 00-0015	EA		8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	560.15	75.20
			<i>For 90 Degree Corner, Add</i>	58.21	
			<i>For Valve Enclosure, Add</i>	58.21	
			<i>For Filler Piece, Add</i>	51.21	
			<i>For End Cap, Add</i>	39.34	
			<i>For Copper Tube With Aluminum Fins, Add</i>	17.55	
23 82 36 00-0016	EA		10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	697.71	105.28
			<i>For 90 Degree Corner, Add</i>	70.18	
			<i>For Valve Enclosure, Add</i>	70.18	
			<i>For Filler Piece, Add</i>	63.18	
			<i>For End Cap, Add</i>	47.12	
			<i>For Copper Tube With Aluminum Fins, Add</i>	21.82	
23 82 36 00-0017	EA		12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	833.75	126.49
			<i>For 90 Degree Corner, Add</i>	82.28	
			<i>For Valve Enclosure, Add</i>	82.28	
			<i>For Filler Piece, Add</i>	75.28	
			<i>For End Cap, Add</i>	54.98	
			<i>For Copper Tube With Aluminum Fins, Add</i>	25.98	
23 82 36 00-0018	EA		14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	952.50	134.98
			<i>For 90 Degree Corner, Add</i>	87.13	
			<i>For Valve Enclosure, Add</i>	87.13	
			<i>For Filler Piece, Add</i>	80.13	
			<i>For End Cap, Add</i>	58.14	
			<i>For Copper Tube With Aluminum Fins, Add</i>	31.18	
23 82 36 00-0019	EA		16' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,049.38	149.16
			<i>For 90 Degree Corner, Add</i>	95.17	
			<i>For Valve Enclosure, Add</i>	95.17	
			<i>For Filler Piece, Add</i>	88.17	
			<i>For End Cap, Add</i>	63.36	
			<i>For Copper Tube With Aluminum Fins, Add</i>	34.29	
23 82 36 00-0020	EA		18' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,200.07	168.73
			<i>For 90 Degree Corner, Add</i>	106.41	
			<i>For Valve Enclosure, Add</i>	106.41	
			<i>For Filler Piece, Add</i>	99.41	
			<i>For End Cap, Add</i>	70.67	
			<i>For Copper Tube With Aluminum Fins, Add</i>	39.49	
23 82 36 00-0021	EA		20' Long Finned Tube Baseboard Unit Complete With Enclosure And 1" IPS Heat Element	1,323.33	185.60
			<i>For 90 Degree Corner, Add</i>	115.95	
			<i>For Valve Enclosure, Add</i>	115.95	
			<i>For Filler Piece, Add</i>	108.95	
			<i>For End Cap, Add</i>	76.87	
			<i>For Copper Tube With Aluminum Fins, Add</i>	43.65	
23 82 36 00-0022			1-1/4" IPS Steel Tube With Steel Fins <small>(23 82 36 00-0001)</small>		
23 82 36 00-0023	EA		4' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	389.34	37.61
			<i>For 90 Degree Corner, Add</i>	46.38	
			<i>For Valve Enclosure, Add</i>	46.38	
			<i>For Filler Piece, Add</i>	39.38	
			<i>For End Cap, Add</i>	31.65	
			<i>For Copper Tube With Aluminum Fins, Add</i>	11.41	
23 82 36 00-0024	EA		6' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	530.26	56.88
			<i>For 90 Degree Corner, Add</i>	53.83	
			<i>For Valve Enclosure, Add</i>	53.83	
			<i>For Filler Piece, Add</i>	46.83	
			<i>For End Cap, Add</i>	36.49	
			<i>For Copper Tube With Aluminum Fins, Add</i>	17.11	
23 82 36 00-0025	EA		8' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	655.88	75.20
			<i>For 90 Degree Corner, Add</i>	58.21	
			<i>For Valve Enclosure, Add</i>	58.21	
			<i>For Filler Piece, Add</i>	51.21	
			<i>For End Cap, Add</i>	39.34	
			<i>For Copper Tube With Aluminum Fins, Add</i>	22.82	
23 82 36 00-0026	EA		10' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	816.74	105.28
			<i>For 90 Degree Corner, Add</i>	70.18	
			<i>For Valve Enclosure, Add</i>	70.18	
			<i>For Filler Piece, Add</i>	63.18	
			<i>For End Cap, Add</i>	47.12	
			<i>For Copper Tube With Aluminum Fins, Add</i>	28.37	
23 82 36 00-0027	EA		12' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	975.46	126.49
			<i>For 90 Degree Corner, Add</i>	82.28	
			<i>For Valve Enclosure, Add</i>	82.28	
			<i>For Filler Piece, Add</i>	75.28	
			<i>For End Cap, Add</i>	54.98	
			<i>For Copper Tube With Aluminum Fins, Add</i>	33.77	
23 82 36 00-0028	EA		14' Long Finned Tube Baseboard Unit Complete With Enclosure And 1-1/4" IPS Heat Element	1,122.55	134.98
			<i>For 90 Degree Corner, Add</i>	87.13	
			<i>For Valve Enclosure, Add</i>	87.13	
			<i>For Filler Piece, Add</i>	80.13	
			<i>For End Cap, Add</i>	58.14	
			<i>For Copper Tube With Aluminum Fins, Add</i>	40.53	