**INDIVIDUALS** WARNING: ALL INTERESTED IN BIDDING ON THIS PROJECT MUST OBTAIN THE FINAL PLANS AND SPECIFICATIONS FROM THE DEPARTMENT MANAGING THE PROJECT OR AS OTHERWISE STATED IN THE ADVERTISEMENT FOR BIDS FOR THE PROJECT. DO NOT USE THE PLANS AND SPECIFICATIONS POSTED CLERK OF THE BOARD'S ON THE WFBSITF FOR BIDDING ON THIS PROJECT.



### PFS CORPORATION Corporate 1507 Matt Pass Cottage Grove, WI. 53527 Phone: (608)839-1013 Fax: (608)839-1014

# APPLICATION FOR PLAN APPROVAL Commercial Modular (CM)/Special Purpose Commercial Modular (SPCM) California Code of Regulations Title 25 Chapter 3 Subchapter 2

Complete a separate application for each plan submittal. Provide not less than three (3) complete sets of plans, calculations and/or test data to support plans submitted.

Manufacturer	CXT Inc.			
Address	<u>6701 E. Flamir</u>	ngo Ave Bldg	300	
City/State/Zip	Nampa, ID 836	687		
Contact Person	Nate Penner		Date	07/06/2023
TYPE OF SUBM         Image: New model         Image: Resubmission         Image: Revised Model*         {Provide written instruction	MITTAL	$\bigcirc$		YPE OF UNIT ommercial Modular ( <i>CM</i> ) pecial Purpose ( <i>SPCM</i> )
Model I.D. CRS-108	D <u>escription</u> of <u>Gunnison</u> BA	Submittal ATHROOM BU	JILDING	WITH CHASE
*Description of Modifi	cation:			
Note: For Commerci Roof Live Floor Live Wind Spec Seismic D	al Modular submi Load <u>30</u> Load <u>400</u> ed <sub>(3-sec)</sub> <u>150</u> esign Category <u>E</u>	ttal, indicate th psf psf mph	e followin Occupa Type o Exposu Climate	g design parameters: ancy Classification <u>U</u> f Construction <u>V-B</u> ire Category <u>C</u> e Zone <u>N.A.</u>
For PFS Use Only:	Status:	🔽 Appr	oved	Rejected
Approved by: <u>lan Leł</u> Date Approved: <u>07/2</u>	nrer 0/2023	Plan Appro Date Expir	oval No: <u>2</u> es: <u>10/31</u>	3-006080 /2024
Mail To: State of Califo HCD Northerr 9342 Tech Ce Sacramento, 0	ornia a Area Office nter Drive #550 CA. 95826			



### ADDITIONAL OR MODIFIED ACCEPTANCE (MODULARS/PANELIZED)

This form is to be used only when the manufacturer is seeking acceptance of an additional model, modified model or model name change which uses a previously accepted building system.

Current PFS Building System Acceptance #:			
Manufacturer's Name: CXT	-		
Plant(s) at which model will be produced Nampa, ID			
Check One: NEW MODEL Revised Model*			
TECHNICAL DATA			
		Conforms	
Floor Plan Showing:	Yes	No	N/A
Braced Wall Method or Shearwalls			
Building Size (LxW Dimensions)			
Room Sizes, Light & Ventilation Schedule	~		
Exit Requirements	~		
Electrical Outlet Spacing & Smoke Detector	~		
Location of Labels & Data Plates	~		
Use Group, Type Const., Total Sq.Ft. Area	~		
Plumbing System Design or Reference No. (	<ul> <li>✓</li> </ul>		
Heat Loss Calculations or Reference No. ()			~
HVAC/Furnace Size/Model No. (			~
Thermal Performance Calculations or Reference No. ()	~		
Electrical Load Calculations or Reference No. ()	~		
Service Size and Location ()	~		
Applicable Building Codes	~		
Submit model to the followingstates: California			
*Description of Modification:			
·			
Requested by: CHENG-LUNG PECK Date: 7/2/20	23		
(designer)			
For PFS Use			
Staff Plan Reviewer Date: 7/20/2 IBC Certification #: Date: 7/20/2	023		
Structural Calculation(s) Reviewed By: Date: Date:			
Remarks:			
**(1) copy sent to IBC within 15 days of approval.			
VERBAL APPROVAL GIVEN By Whom: To Whom	_ Date:		
MODEL WAS DEVIATED Revision Number:			

THIS FORM SHALL BE FILLED OUT COMPLETELY WITH EACH MODEL ACCEPTANCE OR MODIFICATION PRIOR TO SUBMITTAL TO PFS.



### NOTES:

- 1. THE CORTEZ SECTIONAL STYLE BUILDING CONSISTS OF TWO SEPARATE UNITS TO BE PLACED AND JOINED AT THE PROJECT SITE. PROPER SITE PREPARATION AND HANDLING IS ESSENTIAL FOR THE SAFE AND PROPER INSTALLATION OF THE BUILDING.
- 2. PROVIDE SHALLOW TRENCH WITH ROLLED EDGES ALONG BUILDING JDINT LINES TO PREVENT TRAPPING MATERIAL BETWEEN UNITS BEING DRAWN TOGETHER.
- 3. PLACE UNITS AS CLOSE TO ONE ANOTHER AS POSSIBLE. SPACE BETWEEN UNITS SHOULD NOT EXCEED 1" AT INITIATION OF POST-TENSIONING. MAXIMUM ALLOWABLE FINISH JOINT SPACE BETWEEN UNITS SHALL BE 1/2".
- 4. POST-TENSIONING TO DRAW UNITS INTO CONTACT SHALL BE ACCOMPLISHED WITH EQUIPMENT PROVIDED BY CXT BY PROPERLY TRAINED PERSONNEL. INSTRUCTIONS PROVIDED BY CXT SHALL BE CAREFULLY ADHERED TO. ALL NECESSARY SAFETY PRECAUTIONS SHALL BE TAKEN BY INSTALLATION PERSONNEL. STRESS TENDONS TO DRAW UNITS TOGETHER AND TO RETAIN A MINIMUM EFFECTIVE FORCE IN EACH TENDON OF 2 KIPS AFTER ALL LOSSES.
- 5. AFTER COMPLETION OF BUILDING PLACEMENT, BLOCKOUTS AT POST-TENSIONING ANCHORAGE POINTS SHALL BE FILLED WITH NON-METALLIC, NON-SHRINK GROUT, PROVIDE SMOOTH, NEAT FINISH COMPATIBLE WITH SURROUNDING CONCRETE SURFACES. MATCH CONCRETE COLOR.
- 6. PROVIDE UTILITY CONNECTIONS (PLUMBING & ELECTRICAL) AS REQUIRED AND/OR AS CALLED FOR ON THE DRAWINGS.
- 7. FILL FLOOR BLOCKOUTS AFTER COMPLETION OF UTILITY HOOKUPS WITH CONCRETE. SLOPE TO DRAIN.





SHIPPING W	EIGHTS AI	ND DIMENS	IDNS	
SECTION	WEIGHT	LENGTH	WIDTH	HEIGHT
A (LH)	43,100	19′-2 <b>″</b>	10'-3"	9'-10"
B (RH)	43,100	19′-2 <b>″</b>	10'-3"	9'-10"











![](_page_10_Figure_0.jpeg)

![](_page_11_Figure_0.jpeg)

![](_page_11_Picture_1.jpeg)

APPROVED: STATE OF CA - CERTIFIED DAA

Based on the requirements of title 25 California code of regulations Chapter 3 subchapter 2 Commercial Modular

Expires: 10-31-2024

THIS APPROVAL DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM THE REQUIREMENTS OF STATE LAWS OR APPLICABLE LOCAL ORDINANCES . THIS APPROVAL IS LIMITED TO

PFS CORPORATION - Cottage Grove, WI

1. EXCEPT R303, R322, R3x48 & R3x38 REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 3/4" MIN. COVER

![](_page_12_Figure_0.jpeg)

![](_page_12_Picture_1.jpeg)

APPROVED: STATE OF CA - CERTIFIED DAA Based on the requirements of title 25 California code of regulations

Expires: 10-31-2024

OR DEVIATION FROM THE REQUIREMENTS OF STATE LAWS OR APPLICABLE LOCAL ORDINANCES . THIS APPROVAL IS LIMITED TO

PFS CORPORATION - Cottage Grove, WI

![](_page_13_Figure_0.jpeg)

![](_page_13_Picture_1.jpeg)

APPROVED: STATE OF CA - CERTIFIED DAA

Expires: 10-31-2024

THIS APPROVAL DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM THE REQUIREMENTS OF STATE LAWS OR APPLICABLE LOCAL ORDINANCES . THIS APPROVAL IS LIMITED TO

PFS CORPORATION - Cottage Grove, WI

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![](_page_14_Figure_0.jpeg)

![](_page_15_Figure_0.jpeg)

![](_page_16_Figure_0.jpeg)

MARINE PACKAGE	EMBEDDED MATERIALS	
		QTY
	AS-2 SS	5
	PS-2 SS	1
	PS-10 SS	2
	PS-19 SS	4
	R303	2
	R320	8
00	R3v82	4
	P3v100	
	D7:49	4
	KJX40	2
	R3x38	2
	R322	4
	B.O. MS-4	1
	B.O. MS-2	1
	TEX. B.O. 16 3/4"x16 1/4"	1
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	6701 E Flamingo Ave Bldg 300 Nampa, ID 901 N Highway 77 Hillshoro TX 766	83687
	362 Waverly Road Williamstown, WV 26	187
F CA - CERTIFIED DAA	BOILDING NUMBER CK3-100	
25 California code of regulations	NOTICE	
ercial Modular	The information contained herein is proprietary and exclusive property of CXT Incorporated. The inform	the nation
Expires: 10-31-2024	may only be used by the original recipient for the intended. Reproduction or distribution of this infor	mation
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![](_page_17_Figure_0.jpeg)

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Expires: 10-31-2024

PFS CORPORATION - Cottage Grove, WI

![](_page_18_Figure_0.jpeg)

![](_page_19_Figure_0.jpeg)

EMBEDDED MATERIALS

![](_page_20_Figure_0.jpeg)

![](_page_21_Figure_0.jpeg)

	EMBEDDED MATERIALS	
	ITEM	QTY
	FL-648	2
	FL-847	4
	PS-19	11
	R303	11
	R320	8
	DTu119	2
	NJX112	4
	KJXII9	4
	B.O. 5" DIA	2
	R411	2
	R4x18	16
	R4x112	1
	1" PVC SCHED40 x 9'-10"	1
	PT CHUCK	1
	TEX. B.O. 13" SQ	2
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— РТ СНИСК

- 8'-6"<B.0. 5" DIA><TEX. B.0. 13" SQ>

EXCEPT R4x112, R303 & R4x18, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 1" MIN. COVER
 R4x18 BARS TO BE PLACED AT NEAR FACE W/ 1" COVER.
 ALL OTHER BARS TO BE CENTERED IN PANEL.

![](_page_22_Figure_0.jpeg)

	EMBEDDED MATERIALS	
	ITEM	QTY
	FL-648	2
	FL-847	4
	PS-19	11
	R303	11
	R320	8
	R3x112	2
	R3v119	4
	BO PARTIAL 3"v3"v9"	2
	PA11	2
	D/v18	16
	D4v112	10
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	4x4 J-BUX	2
	B.O. 5" DIA	1
	TEX. B.O. 13" SQ	1
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 EXCEPT R4x112, R303 & R4x18, REINFORCING BARS TO BE PLACED IN PAIRS ONE EACH FACE OF PANEL W/ 1" MIN. COVER
 R4x18 BARS TO BE PLACED AT NEAR FACE W/ 1" COVER.
 ALL OTHER BARS TO BE CENTERED IN PANEL.

![](_page_23_Figure_0.jpeg)

![](_page_24_Figure_0.jpeg)

l.		PACKAGE	EMBEDDED MA	TERIALS	
<u> </u>		TRONINGE	ITEM		QTY
			FL-648		2
			FL-847		4
			PS-19 SS		11
			D303		11
			KJUJ		
			R320		8
			R3x112		2
			R.3x119		4
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			R411		2
			R4x18		16
			R4v112		1
				0' 10"	1
				9-10	
			PT CHUCK		1
			4x4 J-BOX		1
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1			PROJECT THT	E E	.0107
			CORTEZ SEC	TIONAL	
			BUILDING NUMBE	R CRS-108	
			NOTICE		
			The information contained herein i exclusive property of CXT incorpor	s proprietary an ated. The infor	nd the mation
			may only be used by the original	recipient for the	e purpose
			is strictly prohibited without the p	rior written con	sent of
			CXT Incorporated grants no warra	ity, express or i	implied,
			particular purpose.	DHITY OF OF FITNE	nas tor a
			CXT Incorpor	ated	
				+	
				+	
			REV. DESCRIPTION		DATE
			DRAWN G.OGG FIL	E NO. CF	RS-108
			CHECKED MCT PL	OT 24	1
B4 48 BENEFE			ROOF SL	AB	
K4x18, REINFORCING	BARS	MIN 001/20		24	
UNE EACH FACE OF F	'ANEL W/ 1"	MIN. COVER			DEV
CENTERED IN DAME	/ I COVER.		Ung NU.		REV.
L GENTERED IN PANEL.			CRS-22	<b>_</b> /_	0
				29	

![](_page_25_Figure_0.jpeg)

![](_page_26_Figure_0.jpeg)

![](_page_27_Figure_0.jpeg)

![](_page_28_Figure_0.jpeg)

(3) #3/0, (CU), (1) #8 (CU) GND. 2"C. (NOT BY CXT)	AMP <u>100</u> SURFACE MOUNT				PANEL 120/240V, 1P, 3W
120/240/1ø/3W (BLOCKOUT UNDER PANEL FOR SERVICE LATERAL CONDUIT)				LOAD	
II - INTERIOR SURFACE MOUNTED LOAD	NO. DESCRIPTION	OCP	TYPE (	VA)	(A) PH NO. DESCRIPTION
	1 LIGHT AND FAN ROOM #1	1P/20A	N	97	0.8 A 2 LIGHT AND FAN ROOM #3
BRANCH BREAKERS RATED AT 22,000	3 LIGHT AND FAN ROOM #2	1P/20A	N	97	0.8 B 4 LIGHT AND FAN ROOM #4
	5 EXTERIOR LIGHTS 7 ROOM #1 & ROOM #2 RECEPTACLES	1P/20A 1P/20A	R	42 360	0.4 A 6 LIGHTS - CHASE
		20/604	C	5,500	A 10 ROOM #3 & ROOM #4 RECEPTAC
	11	26/004	С	5,500	B 12
NG TO GROUND BUS PER PER NEC	13				A 14
. (BY CXT)	17				A 18
	19				B 20
ONF-LINE POWER DIAGRAM	21				A 22
NTS	25				A 26
	27				B 28
	29				A 30
	31				B 32
	NOTE: MAXIMUM ALLOWABLE AIC IS 22K AMPS, F	ANEL MODIFICATI	IONS WI	LL BE	LOAD
	REQUIRED (NOT BY CXT) IF TRANSFORMER CAPA	CITY EXCEEDS 17	5 KVA.		(C)ONTINUO US
GENERAL ELECTRICAL NOTES					(R)EC (1ST 10KVA)
					(L)ARGEST MOTOR
RECESSED JUNCTION BOXES FOR SINGLE DEVICES SHALL HAVE					TOTAL LOAD
SINGLE GANG MUD RINGS CAST IN CONCRETE WALLS.					
L RECEPTACLES SHALL BE GFCI PROTECTED BY CIRCUIT BREAKERS, BY OTHER GFCI RECEPTACLES.					
ALL CONDUIT SHALL BE SIZED PER NEC. EXPOSED CONDUIT SHALL BE EMT/FMC, RECESSED SHALL BE PVC.					
INSTALL ALL WIRING IN CONDUIT OR RELATED ENCLOSURES.					
ALL ELECTRICAL INSTALLATIONS SHALL MEET THE 2022 CALLEORNIA				1	
ALL ELECTRICAL INSTALLATIONS SHALL MEET THE 2022 CALIFORNIA ELECTRICAL CODE (CEC).		TURE	TAGE	t I	DESCRIPTION
MINIMUM WIRE SIZE SHALL BE #12 AWC COPPER THEN INSULATION					DESCRIPTION
UNLESS NOTED OTHERWISE.		E		WAT	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE,
NUMERAL SIZE SINCLE BE #12 AWG COTTER, HINN INSULATION UNLESS NOTED OTHERWISE. ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS.		A	120	25	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS
UNLESS NOTED OTHERWISE. ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS.		A	120	25	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR
UNITED OTHERWISE. ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS FOR EXACT LOCATIONS OF E-BOXES, ETC		A	120	25	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR
JNLESS NOTED OTHERWISE. ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS FOR EXACT LOCATIONS OF E-BOXES, ETC		A	120	25	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIN 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E
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UNLESS NOTED OTHERWISE. ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS FOR EXACT LOCATIONS OF E-BOXES, ETC FOR WATER HEATER PROVIDE A 100 AMP DISCONNECT AND A 240V 60A CIRCUIT BREAKER WIRED WITH #6 AWG.		A B	120	25 14	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIN 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRIS PHOTOELECTRIC CONTROL
WINING WITE SIZE SINCE BE #12 AWG COTTER, WITH INSUENTING UNLESS NOTED OTHERWISE. ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS FOR EXACT LOCATIONS OF E-BOXES, ETC FOR WATER HEATER PROVIDE A 100 AMP DISCONNECT AND A 240V 60A CIRCUIT BREAKER WIRED WITH #6 AWG.		A	120	25 14	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRIS PHOTOELECTRIC CONTROL
WINING WITE SIZE SINCE BE #12 AWG COTTER, WITH INSOLATION UNLESS NOTED OTHERWISE. ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS FOR EXACT LOCATIONS OF E-BOXES, ETC FOR WATER HEATER PROVIDE A 100 AMP DISCONNECT AND A 240V 60A CIRCUIT BREAKER WIRED WITH #6 AWG.		A B	120	25 14	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRIS PHOTOELECTRIC CONTROL LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE,
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ANNING WITE SIZE SHALE DE #12 AWG COTTEN, MININ INSOLATION UNLESS NOTED OTHERWISE. ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS. ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW XACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS FOR EXACT LOCATIONS OF E-BOXES, ETC FOR WATER HEATER PROVIDE A 100 AMP DISCONNECT AND A 240V 60A CIRCUIT BREAKER WIRED WITH #6 AWG.	VED: STATE OF CA - CERTIFIED DAA on the requirements of title 25 California code of regulations	A B C	2 S 120 120 120	25 14 25	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRIS PHOTOELECTRIC CONTROL LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MVOLT CLP WHT WL SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, SWITCH ACTIVATED
MINING WINCE SIZE SINKLE DE #12 AWS CONTEN, MININ INSCENTION         VINLESS NOTED OTHERWISE.         ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS.         ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW         EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS         FOR EXACT LOCATIONS OF E-BOXES, ETC         FOR WATER HEATER PROVIDE A 100 AMP DISCONNECT AND A 240V 60A         CIRCUIT BREAKER WIRED WITH #6 AWG.         EXHAUST FAN SCHEDULE         SYM       MFR         MODEL #       CFM         SONES       VOLTS         AMPS       WATTS	VED: STATE OF CA - CERTIFIED DAA n the requirements of title 25 California code of regulations r 3 subchapter 2 Commercial Modular	A B C	2 S 120 120 120	25 14 25	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRIS PHOTOELECTRIC CONTROL
MINING WINCE SIZE SINCLE DE #12 AWG COTTER, MININ INSCERTION         JNLESS NOTED OTHERWISE.         ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS.         ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW         EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS         FOR EXACT LOCATIONS OF E-BOXES, ETC         FOR WATER HEATER PROVIDE A 100 AMP DISCONNECT AND A 240V 60A         CIRCUIT BREAKER WIRED WITH #6 AWG.         EXHAUST FAN SCHEDULE         SYM MFR MODEL # CFM SONES VOLTS AMPS WATTS NOTES         EF-1 FANTECH FG-4XL	VED: STATE OF CA - CERTIFIED DAA on the requirements of tille 25 California code of regulations r 3 subchapter 2 Commercial Modular 7-20-2023 Expires: 10-31-2024	A B C	2 S 120 120 120 120	25 14 25 HE SOUR	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRIS PHOTOELECTRIC CONTROL LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MVOLT CLP WHT WL SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, SWITCH ACTIVATED
MINING WINCE SIZE SINCLE BE #12 AWG COTTER, MININ INSCERTION         JNLESS NOTED OTHERWISE.         ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS.         ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW         EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS         FOR EXACT LOCATIONS OF E-BOXES, ETC         FOR WATER HEATER PROVIDE A 100 AMP DISCONNECT AND A 240V 60A         CIRCUIT BREAKER WIRED WITH #6 AWG.         EXHAUST FAN SCHEDULE         SYM MFR MODEL # CFM SONES VOLTS AMPS WATTS NOTES         EF-1 FANTECH FG-4XL         FOR EXACT LOCATIONS OF E-BOXES, ETC	VED: STATE OF CA - CERTIFIED DAA on the requirements of tille 25 California code of regulations r 3 subchapter 2 Commercial Modular 7-20-2023 Expires: 10-31-2024 al # PES: 23-006080	A B C	120 120 120 120	25 14 25 HE SOUR F 45 LU	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRIS PHOTOELECTRIC CONTROL LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MVOLT CLP WHT WL SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, SWITCH ACTIVATED RECE OF EFFICACY OF EXTERIOR LIGHTING IS TO BE A IMENS PER WATT.
Minimum Mission with the solution with th	VED: STATE OF CA - CERTIFIED DAA on the requirements of title 25 California code of regulations r 3 subchapter 2 Commercial Modular 7-20-2023 Expires: 10-31-2024 al # PFS: 23-006080 DVAL DOES NOT AUTHORIZE OR APPROVE ANY OMISSION	A B C	2 S 120 120 120	25 14 25 HE SOUR DF 45 LU	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRIS PHOTOELECTRIC CONTROL LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MVOLT CLP WHT WL SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, SWITCH ACTIVATED CCE OF EFFICACY OF EXTERIOR LIGHTING IS TO BE A IMENS PER WATT.
MINIMUM WINCE SIZE SINCLE DE #12 AWG COTTER, HINN INSOLATION         UNLESS NOTED OTHERWISE.         ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS.         ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW         EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS         FOR EXACT LOCATIONS OF E-BOXES, ETC         FOR WATER HEATER PROVIDE A 100 AMP DISCONNECT AND A 240V 60A         CIRCUIT BREAKER WIRED WITH #6 AWG.         MINT MODEL # CFM SONES VOLTS AMPS WATTS NOTES         SYM MFR MODEL # CFM SONES VOLTS AMPS WATTS NOTES         EF-1 FANTECH FG-4XL 150 6.0 120 0.75 72 1         NOTE         NOTE         APPROVIDE         AMPS WATTS NOTES         OR ANDEL # CFM SONES VOLTS AMPS WATTS NOTES         POTE         NOTE         APPROVIDE 15 00 0.0 120 0.75 72 1         Approv         THE LOCATION, CONTROL VIA OCCUPANCY SENSOR: LOCATE OPEN FACE         CONTENTION ON EXTERIOR SIDE OF PANEL.	VED: STATE OF CA - CERTIFIED DAA on the requirements of title 25 California code of regulations r 3 subchapter 2 Commercial Modular 7-20-2023 Expires: 10-31-2024 al # PFS: 23-006080 DVAL DOES NOT AUTHORIZE OR APPROVE ANY OMISSION ON FROM THE REQUIREMENTS OF STATE LAWS OR	A B C	2 S 120 120 120	25 14 25 HE SOUR DF 45 LU	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRIS PHOTOELECTRIC CONTROL LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MVOLT CLP WHT WL SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, SWITCH ACTIVATED RCE OF EFFICACY OF EXTERIOR LIGHTING IS TO BE A IMENS PER WATT.
MARE BE #12 ANG COLLER, HINK INSOLATION         UNLESS NOTED OTHERWISE.         ROUTE ALL CONDUITS IN UTILITY ROOM AT CEILING OR FACE OF WALLS.         ELECTRICAL DRAWINGS ARE DIAGRAMMATIC IN NATURE & MAY NOT SHOW         EXACT LOCATIONS OF DEVICES. REFER TO WALL PANEL & OTHER DRAWINGS         FOR WATER HEATER PROVIDE A 100 AMP DISCONNECT AND A 240V 60A         FOR WATER HEATER PROVIDE A 100 AMP DISCONNECT AND A 240V 60A         CIRCUIT BREAKER WIRED WITH #6 AWG.         MOTE         SYM MFR MODEL # CFM SONES VOLTS AMPS WATTS NOTES         EF-1 FANTECH FG-4XL 150 6.0 120 0.75 72 1         NOTE         NOTE         NOTE         APPRO         MOTE IF AN SCHEDULE         SYM MFR MODEL # CFM SONES VOLTS AMPS WATTS NOTES         IS AMPS WATTS NOTES         APPRO         NOTE         NOTE         IS AMPS WATTS NOTES         AMPS WATTS NOTES         IS AMPS WA	VED: STATE OF CA - CERTIFIED DAA not the requirements of title 25 California code of regulations r 3 subchapter 2 Commercial Modular 7-20-2023 ExpireS: 10-31-2024 al # PFS: 23-006080 DVAL DOES NOT AUTHORIZE OR APPROVE ANY OMISSION ON FROM THE REQUIREMENTS OF STATE LAWS OR E LOCAL ORDINANCES . THIS APPROVAL IS LIMITED TO FACTORY-BUILT PORTION ONLY.	A B C	2 S 120 120 120	25 14 25 HE SOUR F 45 LU	LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MV CLP WHT WL 20CC SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, BUILT IN OCCUPANCY SENS ADDITIONAL OCCUPANCY SENSOR FOR FAN CONTR SWOOP 610 LED EXTERIOR LIGHT, YWP610-14W HP-3500K-120-CP-BRZ-CAB/PC E RESISTANT, WALL MOUNTED, 14 WATT, CLEAR PRIS PHOTOELECTRIC CONTROL LUMINAIRE VPF84 INTERIOR LIGHT FIXTURE, VPF8 4FT NODIM 25W 40K MVOLT CLP WHT WL SURFACE MOUNTED, LED LAMP 4 FT, WRAP AROU TEMPERATURE DRIVER, SWITCH ACTIVATED RCE OF EFFICACY OF EXTERIOR LIGHTING IS TO BE A IMENS PER WATT.

			10.0	o0
OTAL COL			12,3	00 /11
OTTL OTL	OUD TILD VIT	LUND.	10,1	-
			LOAD	
	OCP	TY PE	(VA)	(A)
	1P/20A	Ν	97	0.8
	1P/20A	N	97	0.8
	1P/20A	Ν	50	0.4
	1P/20A	R	180	1.5
	1P/20A	R	360	3.0
	CONNE			ATED
	CONNEG	JIED	CALCU	LATED
	11,042	X1.20	13,803	VA
	900	X1.00	900	VA
	438	X1.00	438	VA
	12 200	X1.20	15 141	VA
	12,360		62.4	AMDO
			03.1	AMPS

![](_page_29_Figure_2.jpeg)

![](_page_29_Picture_3.jpeg)

![](_page_30_Figure_0.jpeg)

WALL PANEL W1	WALL PANEL W2	WALL PANEL W3	WALL PANEL W4	WALL PANEL W5	WALL PANEL W6	WALL PANEL W7
EMBEDDED MATERIALS	EMBEDDED MATERIALS	EMBEDDED MATERIALS	EMBEDDED MATERIALS	EMBEDDED MATERIALS	EMBEDDED MATERIALS	EMBEDDED MATERIALS
ITEM QTY	ITEM QTY	ITEM QTY	ITEM QTY	ITEM QTY	ITEM QTY	
AS-2 4	AS-2 4	AS-2 3	AS-2 3	AS-2 2	AS-2 SS 4	AS-2 SS 4
PS-2 10	PS-2 10	PS-2 1	PS-2 2	PS-2 4	PS-2 SS 10	PS-2 SS 10
PS-19 2	PS-19 2	PS-10 2	PS-10 2	PS-10 2	PS-19 SS 2	PS-19 SS 2
R411 2	R411 2	PS-19 4	PS-19 4	R320 8	R411 2	R411 2
R311 1	FL-648 2	R303 2	R3x109 2	R3x104 4	R311 1	FL-648 2
R320 4	R311 1	R320 8	R320 8	R3x78 4	R320 4	R311 1
R3x83 6	R320 4	R3x82 4	R3x82 6		R3x83 6	R320 4
R3x192 2	R3x83 8	R3x109 4	R3x48 2		R3x192 2	R3x83 8
FI -648 2	R3x94 6	R3x48 2	R3x38 2		FI -648 2	R3x94 6
BO 4 1/2" DIA 2	R3v192 2	R3x38 2	R322 4		B0 4 1/2" PIA 2	R3x192 2
W.C. WALL SLEEVE 2	R3x92 2	R322 4	R3x90 2		R303 4	R3x92 2
	ROUND MUD RING 1	B0 MS-2 1	B O PARTIAL 3"x6"x2" DP 1		PS-3 \$\$ 4	ROUND MUD RING 1
BO 3" DIA 2		BO MS-4 1			SHOWER WALL SNEEVE 2	
	B 0 40 1/8" x 82 1/4" 2	TEX BO 16 3/4"v16 1/4" 1			Ava F- ROX 4	$B \cap 40 1/8" \times 82 1/4"$ 2
						SI_2 MOID 2
	B.O. FAILIAL J XO XZ DF I	ILA D.O. 4 DIA Z	D.U. M3=4			B.O. FARTIAL 5 XO XZ DF 1
4X4 J-DUX 2	<u>├</u>					
<u>├</u> ────┤─┤	<u> </u>				КЈХЈ4 8	
					MARINE PACKAGE	MARINE PACKAGE
CU. FT. CONC. SQ. FT. W.W.F.	CU. FT. CONC. SQ. FT. W.W.F.	CU. FT. CONC. SQ. FT. W.W.F.	CU. FT. CONC. SQ. FT. W.W.F.	CU. FT. CONC. SQ. FT. W.W.F.	CU. FT. CONC. SQ. FT. W.W.F.	CU. FT. CONC. SQ. FT. W.W.F.
44.1 (1.63)   155	28.9 (1.07) 87	21.9 (0.81) 66		20.2 (0.75) 61	41.6 (1.35) 133	28.9 (1.07) 87
APPROXIMATE WEIGHT	APPROXIMATE WEIGHT	APPROXIMATE WEIGHT	APPROXIMATE WEIGHT	APPROXIMATE WEIGHT	APPROXIMATE WEIGHT	APPROXIMATE WEIGHT
0,010	4,000	J,200	Z,/IJ	5,025	0,240	4,000
WALL PANEL W9           EMBEDDED MATERIALS           ITEM         QTY           AS-2 SS         3           DS-2 SS         2	WALL PANEL W10           EMBEDDED MATERIALS           ITEM         QTY           PS-20 SS         3           R=18         1	FLOOR SLAB F1           EMBEDDED MATERIALS           ITEM         QTY           FL-648         4           DC_10         16	FLOOR SLAB F2 EMBEDDED MATERIALS ITEM QTY FL-648 4 DC_10 SS 16	ROOF SLAB_R1 EMBEDDED MATERIALS ITEM QTY FL-648 2 EL 947	ROOF         SLAB         R2           EMBEDDED         MATERIALS         ITEM         0TY           FL-648         2         EI=847         4	ROOF SLAB R3           EMBEDDED MATERIALS           ITEM         QTY           FL-648         2           FL-847         4
	D-10 1	P3-19 10	P3-19-55 10		FL-047 4	FL=047 4
		RJUJ 10	R303 10	P5-19 11	P3-19 11	P3-19-55 11
P3-19-55 4		R320 10	R320 10	R303 II	R303 11	R303 II
R3X109 2		D3v114 9	R3X90 Z	R320 8	RJ20 0	P3v112 2
D3v92 6		P3v200 10	P3v200 10		P3v110 4	
D3v48 2		D3v42 8	R3x200 10			
D3v38 2				D.U. 5 DIA Z	D.0. FARTIAL 3 X3 X3 2	D.0. J DIA 2
D322				R411 2 D4-19 16	DAv18 16	DAv18 16
			FLOOP DRAIN 2	R4XIO 10 R4x112 1	R4v112 1	R4v112 1
B0 MS-2 1		B 0 18"v24"	$\frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{1000} \frac{1}{10000} \frac{1}{10000000000000000000000000000000000$	1" DVC SCHED40 v 0'-10" 1	1" PVC SCHED40 x 9'-10" 1	1" PVC SCHED40 x 9'-10" 1
D.0. M3-4		B.0. 6" DIA 1				
<u>├</u>						
					IEA. B.U. 13 SQ I	
		P411 4	P3-3-35 Z			
<u> </u>	<u>├</u>					
<u>├</u> ────┤ ┤						
<u>↓</u>				-		
<u>↓</u>						
MARINE PACKAGE	MARINE PACKAGE		MARINE PACKAGE			MARINE PACKAGE
CU. FT. CONC. SQ. FT. W.W.F. 19.8 (0.74) 55	CU. FT. CONC. SQ. FT. W.W.F. 4.2 (0.16) 12	CU. <b>FT. CONC.</b> SQ. FT. W.W.F. 68.0 (2,52) 327	cu. ft. conc. sq. ft. w.w.f. 68.1 (2.52) 327	CU. FT. CONC. SQ. FT. W.W.F. 41.6 (1.54) 100	cu. ft. conc. sq. ft. w.w.f. 41.7 (1.54) 100	cu. ft. conc. sq. ft. w.w.f. 41.6 (1.54) 100
approximate weight 2,970	approximate weight 630	approximate weight 10,205	approximate weight 10,217	approximate weight 6,233	approximate weight 6,255	APPROXIMATE WEIGHT 6,233

![](_page_31_Figure_1.jpeg)

WALL PAN	IEL W8	
EMBEDDED M	ATERIALS	
ITEM		QTY
AS-2 SS		3
PS-2 SS		1
PS-10 SS		2
PS-19 SS		4
R303		2
R320		8
R3x82		4
R3x109		4
R3x48		2
R3x38		2
R322	4	
B.O. MS-4		1
B.O. MS-2		1
TEX. B.O. 16 3/4"	x16 1/4"	1
B.O. 3 1/2"	DIA	1
TEX B.O. 4"	DIA	2
HOSE BIB		1
MARINE PA	CKAGE	
CU. FT. CONC.	SQ. FT. W.W.	F.
21.9 (0.81)	66	
APPROXIMAT 3,28	e weight 8	

	-
	_
FL-648 2	
FL-847 🛛 🙀 🙀	
PS-19 SS 11	
R303 11	
R320 8	
R3x112 2	
R3x119 4	
PARTIAL B.O. 3"x3"x9" 1	
R411 2	
R4x18 16	
R4x112 1	
1" PVC SCHED40 x 9'-10" 1	
PT CHUCK 1	
4x4 J-BOX 1	
B.O. 5" DIA 1	
TEX. B.O. 13" SQ 1	
MARINE PACKAGE	
CU. FT. CONC. SQ. FT. W.W.F.	
41.7 (1.54) 100	
APPROXIMATE WEIGHT	
6,255	

![](_page_31_Picture_4.jpeg)

/ 29

### CXT Inc. (Precast Division)

#### *Calculations* CORTEZ CRS-108 Structural Analysis

### Design Loads

400 psf Live Floor Load 170 psf Ground Snow Load Wind Speed – 150 mph Exp. C Seismic Design Category: E

Design Standards

2022 California Building Code (2021 IBC) ASCE 7-16/ ACI 318-19

> UL-752 Bullet Resistan Classification: Level T Report #: 2012-647

### PPROVED: STATE OF CA - CERTIFIED DAA

ased on the requirements of title 25 California code of regulations hapter 3 subchapter 2 Commercial Modular

te: 07-20-2023

0-2023 Expires: 10-31-2024

Approval # PFS: 23-006080 THIS APPROVAL DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM THE REQUIREMENTS OF STATE LAWS OR APPLICABLE LOCAL ORDINANCES . THIS APPROVAL IS LIMITED TO FACTORY-BUILT PORTION ONLY.

PFS CORPORATION - Cottage Grove, WI

IIS REPORT CONTAINS 35 PAGES, INCLUDING THIS COVER AND THE TABLE OF CONTENTS. ANY ADDITIONS TO, ALTERATIONS OF, OR UNAUTHORIZED USE OF EXCERPTS FROM THIS REPORT ARE EXPRESSLY FORBIDDEN.

![](_page_32_Picture_14.jpeg)

### Table of Contents

![](_page_33_Figure_1.jpeg)

![](_page_33_Picture_2.jpeg)

July 15, 2023

# CORTEZ CRS-108 (CA)

1			CODTEZ CDC 10		rtesisting	System Loud		/-10)						
Cotorea	п	IDC TADLE 1/0	CORTEZ CRS-10	18 	Ct									
Category	11	IBC TABLE 160	14.5: Risk Category of B	uildings and Other	Structures.									
Exposure	С	See § 26.7.3: Ex	posure Categories, Gene	eral.					$\sim$ $\sim$					
Velocity	150 mph	See Figure 26.5-	1A thru 26.5-2D: Basic	Wind Speed (3 se	cond Gust)				e 🗸					
h.wind	7.25 ft	Windward wall h	neight						1	>				
h.lee	7.25 ft	Leeward wall hei	ight							h				
W.building	17 ft	Width of the buil	lding											
L.building	18.83 ft	Length of the bui	liding											
H.building	9.44 ft	Height of the bui	Iding (to the ridge). Enti-	er 0 if unknown.										
Roof Rise	2.5625	Root pitch (per f	oot)											
9	12.05 deg	Roof Angle							•					
Kd	0.85	Wind directional	ity factor. 0.85 when usi	ing load combination	ons, 1.0 otherw	se.								
K <sub>1</sub>	0.00							(3)	a (2)	a l				
K <sub>2</sub>	0.00						$\frac{(A3CE 1710)}{(A3CE 1710)}$							
$K_3$	0.00	See Figure 26.8-1:	Multipliers for Obtaining	Topographical Facto	er Kzt									
-							-							
Kzt	1	Topographic fact	tor	1										
h	8.345 ft	Mean roof height	t			$// \times$								
n.	8,99	Natural frequenc	v		/									
Flexibility	Rigid	Building flexibili	itv				11.	G						
a	9.5	Terrain factor	ity				• <sup>n</sup>							
a.	000.0	Terrain factor			$/ \checkmark$									
Zg	900 II	Terrain factor		م   I	-	/ <sup>(4)</sup> / (	5							
	Valaaity Dessay	na Evmanuna Caaf	Fisiant	1 3	~~									
V(-)	velocity Pressu	re Exposure Coer	incient		4	Υ /								
<b>N</b> (Z)	0.849	at windward eave	c	1 a	<u> </u>	- 120								
Val- : P	(27.2.2)	1			I A									
velocity Pre	ssure (27.3.2)	4 ,	0.11	m on o -	11					~3				
qz	41.56 pst		Gable	Type of Root - G	able or Hip?									
	1.264 1.211		C II											
Partially Enclos	ed if the building	meets both of the	following conditions:					$\frac{1}{3} \frac{1}{\sqrt{1 + 1}} \frac{1}{1 + $						
1. Total area of	openings in one	wall exceeds area	of openings in the balan	ce of the building t	by more than 10	<sup>9%.</sup>		1.0001						
2 Total area of	openings in one v	vall exceeds 4 sq.	ft. or 1% of area of that	wall and the total	area of opening	s in the balance of the b	uilding does no	ot exceed 20%						
of the area in the	e balance of the b	uilding.						~						
Z	one	Opening Area	Gross Area	Agi	Aoi	Condition 1	Condition 2	Condition 3	Condition 4	Type:				
Windward sidev	vall	0 sq ft	136.5 sq ft	740.4 sq ft	0 sq ft	0.00	0.00	0.00	0.00	Enclosed				
Windward endw	all	0 sq ft	141.9 sq ft	735.0 sq ft	0 sq/lt	0.00	0.00	0.00	0.00	Enclosed				
Leeward sidewa	11	0 sq ft	136.5 sq ft	740.4 sq ft	0 sq ft	0.00	0.00	0.00	0.00	Enclosed				
Leeward endwa		0 sq ft	141.9 sq ft	735.0 sq ft	0 sq ft	0.00	0.00	0.00	0.00	Enclosed				
Roof		0 sq ft	320.1 sq ft	556.8 sq ft	0 sq ft	0.00	0.00	0.00	0.00	Enclosed				
									·					
		Enclose	h						Cust Faston	(26.9)				
		Linerose	u						Gust Factor -	(=)				
		Enclose	u						Gust Factor -	0.85				
		External Pre	ssure Coefficients						Gust Factor -	0.85				
	0.8	External Pres	ssure Coefficients						Gust Factor - ) G =	0.85				
C <sub>po</sub>	0.8	External Press	ssure Coefficients						Gust Factor - 1 G =	0.85				
C <sub>po</sub>	0.8	External Pres See 27.3.3 Roof Windward wall (	ssure Coefficients Overhangs Use with qz) Fig. 27.3-1				0.00	٦	Gust Factor - 1 G = Internal Press Negative:	0.85 sures: -7.48 psf				
С <sub>ро</sub>	0.8 0.8 -0.500	External Pres See 27.3.3 Roof Windward wall ( Leeward wall (wall	ssure Coefficients Overhangs Use with qz) Fig. 27.34. ind normal to ridge (Uss	e with qh)		<u>L/B</u> =	0.90	]	G = Internal Press Negative: Positive:	0.85 sures: -7.48 psf 7.48 psf				
C <sub>po</sub> Cp	0.8 0.8 -0.500 -0.478	External Pre See 27.3.3 Roof Windward wall ( Leeward wall (w Leeward wall (w	ssure Coefficients Overhangs Use with q2) Fig. 27.3- ind normal to ridge) (Use ind parallel to ridge) (Use ind parallel to ridge) (Use	e with qh) se with qh)		<u>L/B</u> = <u>L/B</u> =	0.90	]	G = Internal Press Negative: Positive:	0.85 <b>sures:</b> -7.48 psf 7.48 psf				
C <sub>po</sub> Cp	0.8 0.8 -0.500 -0.478 -0.7	External Pree See 27.3.3 Roof Windward wall (w Leeward wall (w Sidewalls (Use w	ssure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Use ind parallel to ridge) (Use with qb) Fig. 27.4-1	e with qh) se with qh		<u>L/B</u> = L/B =	0.90	]	G = Internal Press Negative: Positive:	0.85 sures: -7.48 psf 7.48 psf				
C <sub>po</sub> Cp	0.8 0.8 -0.500 -0.478 -0.7	External Pree See 27.3.3 Roof Windward wall ( Leeward wall (w Leeward wall (w Sidewalls (Use w	ssure Coefficients Overhangs Use with q2) Fig. 27.34 ind normal to ridge) (Us ind parallel to ridge) (Us with q1) Fig. 27.4-1	e with <b>qh</b> ) se with <b>qh</b> )		<u>L/B =</u> <u>L/B =</u>	0.90	]	G = Internal Press Negative: Positive:	0.85 sures: -7.48 psf -7.48 psf				
C <sub>po</sub> Cp	0.8 0.8 -0.500 -0.478 -0.7	External Pree See 27.3.3 Roof Windward wall ( Leeward wall (w Leeward wall (w Sidewalls (Use w	ssure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Us ind parallel to ridge) (Us with qt) Fig. 27.4-1 ros Windward	e with q <b>h</b> ) se with q <b>h</b> ) Neg, Windward	Leeward	<u>L/B</u> = <u>L/B</u> =	0.90	]	G = Internal Press Negative: Positive:	0.85 0.85 -7.48 psf 7.48 psf				
Cp Cp Roof Pressure C	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2	External Pree See 27.3.3 Roof Windward wall ( Leeward wall (w Leeward wall (w Sidewalls (Use w 7.3-1) Normal (0	ssure Coefficients Overhangs Use with q2) Fig. 27.3-3 ind normal to ridge) (Uss ind parallel to ridge) (Us with qb) Fig. 27.4-1 hos. Windward 	e with qh) se with qh) Neg. Windward -0.811	Leeward	L/B = L/B =	0.90	Roof Pressu	G = G = Internal Press Negative: Positive:	0.85 sures: -7.48 psf 7.48 psf				
Cp Cp Roof Pressure 0 Ridge	0.8 0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10	External Pre- See 27.3.3 Roof Windward wall ( Leeward wall (w Leeward wall (w Sidewalls (Use w 7.3-1) Normal to Odegrees	ssure Coefficients Overhangs Use with q2) Fig. 27.34 ind parallel to ridge) (Us with qb) Fig. 27.4-1 thos Windward -0.177	e with qh) se with qh) Neg. Windward -0.811	-0.496	<u>L/B =</u> <u>L/B =</u>	0.90	Roof Pressu	G = Internal Press Negative: Positive: Positive: res Wind Perpendicula <b>9</b> >= 10 deg	0.85 sures: -7.48 psf 7.48 psf r to Ridge w/				
Cp Cp Roof Pressure 0 Ridge	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10	External Pre See 27.3.3 Roof Windward wall ( Leeward wall (w Leeward wall (w Sidewalls (Use v 7.3-1) Normal o degrees	ssure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Us ind panllel to ridge) (Us with qb) Fig. 27.4-1 Pos Windward -0.177	e with qh) se with qh) Neg. Windward -0.811	Leeward -0.496	<u>L/B =</u> L/B =	0.90	Roof Pressu	G = Internal Press Negative: Positive: Positive: <b>a</b> > = 10 deg egative Internal	0.85 0.85 -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf				
Cp Cp Roof Pressure C Ridge	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10	External Pre See 27.3.3 Roof Windward wall (u Leeward wall (w Sidewalls (Use v 7.3-1) Normal o degrees	ssure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Us ind parallel to ridge) (Us with qb) Fig. 27.4-1 for Windward -0.177	e with qh) se with qh) Neg. Windward -0.811 h/2 to h	beeward -0.496 h to 2h	<u>L/B =</u> L/B = > 2h	0.90	Roof Pressu w/N w/P	G = Internal Press Negative: Positive: Positive: \$\$ >= 10 deg egative Internal ositive Internal	0.85 0.85 sures: -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf				
Cp Cp Roof Pressure C Ridge	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2	External Pre See 27.3.3 Roof Windward wall (t Leeward wall (t Sidewalls (Use v 7.3-1) Normal of 27.3-1) Normal to	ssure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Use ind parallel to ridge) (Use with qb) Fig. 27.4-1 thos Windward -0.177 -0.177 -0.109 -0.090	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90	Leeward -0.496 h to 2h -0.50	$\frac{L/B}{L/B} = {L/B} = {0.30}$	0.90	Roof Pressu	G = Internal Press Negative: Positive: Positive: res Wind Perpendicula <b>9</b> >= 10 deg egative Internal vorst CASE LOADIN	0.85 sures: -7.48 psf 7.48 psf 7.48 psf 1.22 psf -36.12 psf IG				
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Cp Cp Roof Pressure C Ridge Roof Pressure C Ridg	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 when Theta < 1 sure Coefficients.	External Pre See 27.3.3 Roof Windward wall (u Leeward wall (w Sidewalls (Use v 7.3-1) Normal o degrees 7.3-1) Normal to 0 deg. (Fig 27.3-1)	ssure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Us with qb) Fig. 27.4-1 for windward -0.177 0 to h/2 -0.90 -0.90	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	heward -0.496 h to 2h -0.50 -0.50	L/B = L/B = -0.30 -0.30	0.90	Roof Pressu w/ N w/ P *V	G = G = Internal Press Negative: Positive: Positive: \$\$ >= 10 deg egative Internal solitive Internal vorST CASE LOADIN	0.85           0.85           sures:           -7.48 psf           7.48 psf           r to Ridge w/           1.22 psf           -36.12 psf				
Cp Cp Cp Roof Pressure ( Ridge Roof Pressure ( Ridge Roof Pressure ( Ridge Roof Pressure (	$\begin{array}{c} 0.8\\ 0.8\\ -0.500\\ -0.478\\ -0.7\\ \hline \end{array}$	External Pre See 27.3.3 Roof Windward wall (t Leeward wall (t Sidewalls (Use v 7.3-1) Normal to degrees 7.3-1) Normal to 0 deg. (Fig 27.3-1)	ssure Coefficients Overhangs Use with q2) Fig. 27.3-1 find normal to ridge) (Us with qb) Fig. 27.4-1 with qb) Fig. 27.4-1 dos: Windward -0.177 -0.177 -0.100 -0.90 -0.30	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	-0.496 h to 2h -0.50 -0.50	L/B = L/B = -0.30 -0.30	0.90	Roof Pressu W/N W/P *V	G = Internal Press Negative: Positive: Positive: res Wind Perpendicula <b>3</b> >= 10 deg egative Internal vorstr CASE LOADIN	0.85 <b>sures:</b> -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf IG				
Cp Cp Cp Roof Pressure ( Roof Pressure ( Roof Pressure ( Roof Press Roof Pressure ( Roof Press	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 1( Coefficients (Fig 2 when Theta >= 1 sure Coefficients, ARALLE to Re	External Pre See 27.3.3 Roof Windward wall ( Leeward wall (w Sidewalls (Use v (7.3-1) Normal to degrees (7.3-1) Normal to 0 deg. (Fig 27.3-1) ge	sure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Us ind parallel to ridge) (Us with qb) Fig. 27.4-1 Pos, Windward -0.177 0 to h/2 000 -0.90 w/ Positive Intervel	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	Decward         -0.496           h to 2h         -0.50           -0.50         -0.50	$\frac{L/B}{L/B} = \frac{L/B}{-0.30}$ $-0.30$ reas: Wind Preselled to	0.90	Roof Pressu	G = Internal Press Regative: Positive: Positive: G = Internal Press G = G = G = G = G = G = G = G = G = G =	0.85 0.85 -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf G				
Cp Cp Cp Roof Pressure C Ridg Roof Pressure Roof Pressure Roof Pressure Wall Pressure Winduwert	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 is when Theta < 1 sure Coefficients.	External Pre See 27.3.3 Roof Windward wall (u Leeward wall (w Sidewalls (Use v 7.3-1) Normal to degrees 7.3-1) Normal to 0 deg. (Fig 27.3-1) get w/NegNtyc 35.74 arcs	sure Coefficients Overhangs Use with q2) Fig. 27.3-3 ind normal to ridge) (Us ind parallel to ridge) (Us with dp) Fig. 27.4-1 Pos. Windward -0.177 0 to h2 0.090 -0.30 w/ Positive Internal 20.78 corf	e with <b>qh</b> ) se with <b>qh</b> ) Neg. Windward -0.811 h/2 to h -0.90 -0.90	Decward           -0.496           h to 2h           -0.50           -0.50	$\frac{L/B =}{L/B =}$ $\frac{> 2h}{-0.30}$ -0.30 -0.30 -res: Wind Parallel to	0.90	Roof Pressu w/N w/P *V Roof I Porpondici	G = G = Internal Press Negative: Positive: Positive: res Wind Perpendicula \$>=10 deg egative Internal softive Internal vorst CASE LOADIN Pressures: Wind late to ridge for \$2 < 10	0.85 0.85 -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf iG				
Cp Cp Cp Roof Pressure 0 Ridge Roof Pressure 9 Roof Pressure 9 Windward Locupart foriet 2	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 when Theta >= 1 Coefficients (Fig 2 coefficients (Fig 2) coefficients (Fig 2) coefficient	External Pre See 27.3.3 Roof Windward wall (u Leeward wall (w Sidewalls (Use v 7.3-1) Normal to 0 deg. (Fig 27.3-1) (set w/NegMtve 35.74 psi _16.00 eef	ssure Coefficients Overhangs Use with q2) Fig. 27.3-1 find normal to ridge) (Us with qb) Fig. 27.4-1 with qb) Fig.	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	eward -0.496 h to 2h -0.50 -0.50 <b>Roof Pressu ridge f</b>	$\frac{L/B}{L/B} = \frac{L/B}{0}$ $\frac{> 2h}{-0.30}$ $\frac{-0.30}{-0.30}$ ares: Wind Parallel to for all roof slopes: w/Position beam: 1	0.90	Roof Pressu W/N W/P *V Roof I Perpendicu	$G = \frac{1}{G}$ Internal Press Negative: Positive: Positive: Positive: Positive: Positive Internal work of the pressure	0.85 0.85 -7.48 psf 7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf IG				
Cp Cp Cp Roof Pressure ( Roof Pressures Roof Pressures B Wall Pressures Windward Leeward (wind	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 1( Coefficients (Fig 2 when Theta >= 1 sure Coefficients, ARALLE to Re : : : : : : : : : : : : :	External Pre See 27.3.3 Roof Windward wall ( Leeward wall (w Sidewalls (Use v (7.3-1) Normal to degrees (7.3-1) Normal to degrees (Fig 27.3-1) ge w/NegRitue 35.74 ps -16.00 psf	sure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Us ind parallel to ridge) (Us with qb) Fig. 27.4-1 Pos. Windward -0.177 0 to h/2 000 -0.30 w/ Positive Internal 20.78 psf -2.5.14 psf -2.4.19 xe f	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	beeward -0.496 h to 2h -0.50 -0.50 Roof Press ridge fo Location 0 to b/2	$\frac{L/B =}{L/B =}$ $\frac{> 2h}{-0.30}$ -0.30 -res: Wind Parallel to r all roof slopes: wP Positive Internal 30 92 sc f	0.90	Roof Pressu w/N w/P *v Roof I Perpendicu	G = Internal Press Negative: Positive: Positive: G = Internal Press G = G = G = G = G = G = G = G = G = G =	0.85 0.85 -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf G				
Cp Cp Cp Roof Pressure ( Ridg Roof Pressure ( Ridg Roof Pressure F Wall Pressures Windward Leeward (wind 1 Cot with 1	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 e when Theta < 1 sure Coefficients ARALLEL to Ric ARALLEL to Ric aralle	External Pre See 27.3.3 Roof Windward wall ( Leeward wall ( Leeward wall ( Sidewalls (Use v 7.3-1) Normal to o deg. Citig 27.3-1) ge w/Neghtue 33.74 psi -16.00 psf -16.00 psf -16.00 psf	ssure Coefficients Overhangs Use with q2) Fig. 27.34 ind normal to ridge) (Use with qb) Fig. 27.4-1 those Windward -0.177 0 to h/2 -0.50 -0.30 -0.30 -0.30 -0.30 -2.51.4 psf -2.41.8 psf -2.41.8 psf -2.41.6 psf	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	heward -0.496 h to 2h -0.50 -0.50 <b>Roof Presst</b> ridge ft Location 0 to h/2	$\frac{L/B =}{L/B =}$ $\frac{> 2h}{-0.30}$ -0.30 -0.30 -0.30 -0.30 w/ Positive Internal -39.28 psf -39.28	0.90	Roof Pressu w/N w/P *V Roof I Perpendicu Location	G = Internal Press Regative: Positive: Positive: res Wind Perpendicula <b>9</b> >= 10 deg egative Internal VORST CASE LOADIN Pressures: Wind ar to ridge for <b>9</b> < 10 deg: W Positive Internal With Perpendicula With Perpendicula	0.85 0.85 -7.48 psf 7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf G				
Cp Cp Cp Roof Pressure C Ridge Roof Pressure S Roof Pressure S	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta ≥= 10 Coefficients (Fig 2 Note: 10 Coefficients (Fig 2 Coefficients (Fig 2 Coefficient	External Pree See 27.3.3 Roof Windward wall ( Leeward wall (w Sidewalls (Use v 7.3-1) Normal to degrees (7.3-1) Normal to 0 deg. (Fig 27.3-1) (Fig 2	sure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Us with qb) Fig. 27.4-1 for Windward -0.177 0 to h/2 -0.50 -0.50 -0.50 -0.50 w/ Positive Internal 20.78 psf -25.14 psf -24.38 psf -32.21 psf	e with qh) se wift qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	neward         -0.496           h to 2h         -0.50           -0.50         -0.50           Location         0 to h/2           b /2 to h         h	$\frac{L/B}{L/B} = \frac{L/B}{-0.30}$ $\frac{> 2h}{-0.30}$ $\frac{-0.30}{-0.30}$ w/Positive Internal $-39.28 \text{ psf}$ $\frac{-39.28 \text{ psf}}{-39.28 \text{ psf}}$	0.90	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 b/2 to b	Gast Factor - 1 G = Internal Press Negative: Posit	0.85 0.85 -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf				
Cp Cp Cp Roof Pressure C Ridge Roof Pressure S Roof Pressure S	0.8 0.8 0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 ge when Theta < 1 sure Coefficients. ARALLEE to Ric : : : : : : : : : : : : :	External Pre See 27.3.3 Roof Windward wall ( Leeward wall (w Sidewalls (Use v 7.3-1) Normal to Odegrees 7.3-1) Normal to O deg. (Fig 27.3-1) ge w/ Negative 35.74 psf -16.00 psf -16.00 psf -17.25 psf	sure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Us ind parallel to ridge) (Us with qb) Fig. 27.4-1 for Windward -0.177 0 to h/2 -0.90 -0.90 -0.90 w/ Positive Internal 20.78 psf -25.14 psf -24.38 psf -32.21 psf -32.21 psf	e with qh) se with qh) Neg. Windware -0.811 h/2 to h -0.90 -0.90	beeward -0.496 h to 2h -0.50 -0.50 Roof Presst ridge fi Location 0 to h/2 h/2 to h h to 2h	$\frac{L/B}{L/B} = \frac{L/B}{1} = \frac{1}{1}$ $\frac{> 2h}{-0.30}$ -0.30 -0.30 -0.30 -0.30 w/Positive Internal -39.28 psf -	0.90	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2 h	Gast Factor - 1 G = Internal Press Negative: Positive: Positive Internal solutive Internal solutive Internal wORST CASE LOADIN Pressures: Wind ar to ridge for \$ < 10 deg: w/Positive Internal 0.00 psf 0.00 psf	0.85 0.85 -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf G				
Cp Cp Cp Roof Pressure C Ridg Roof Pressure C Ridg Roof Pressure F Wall Pressures Windward Leeward (wind j Side Wall Additional Oc	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 e when Theta < 1 sure Coefficients ARALLE to Ric arbitrary (Coefficients ARALLE to Ric arbitrary (Coefficients arbitrary (Coefficients) (Coefficien	External Pre See 27.3.3 Roof Windward wall ( Leeward wall ( Leeward wall ( Sidewalls (Use v 7.3-1) Normal to o deg. (Tig 27.3-1) ge w/Neghtive 35.74 psh -16.00 psf -16.00 psf -17.25 psf	sure Coefficients Overhangs Use with q2) Fig. 27.34 ind normal to ridge) (Use with qb) Fig. 27.4-1 frost Windward -0.177 0 to h/2 -0.50 -0.30 -0.30 -0.30 -0.30 -0.30 -2.5.14 psf -24.38 psf -32.21 psf -32.21 psf -28.26 psf	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	heward -0.496 h to 2h -0.50 -0.50 <b>Roof Presst</b> ridge ft Location 0 to h/2 to h h to 2h Over 2h	L/B = L/B = -0.30	0.90	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Quer 2h	Gist Factor - 1 G = Internal Press Negative: Positive: Positive: res Wind Perpendicula <b>9</b> >= 10 deg egative Internal vorst CASE LOADIN Pressures: Wind ar to ridge for <b>9</b> < 10 deg: W/ Positive Internal 0.00 psf 0.00 psf 0.00 psf	0.85 0.85 -7.48 psf 7.48 psf 7.48 psf  r to Ridge w/ 1.22 psf -36.12 psf   				
Cp Cp Cp Roof Pressure G Ridge Roof Pressure G Roof Pressure G	0.8 0.8 0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 1( Coefficients (Fig 2 when Theta >= 1 Coefficients (Fig 2 Coefficients (Fig 2 Co	External Pree See 27.3.3 Roof Windward wall ( Leeward wall (w Sidewalls (Use v 7.3-1) Normal to degrees (7.3-1) Normal to 0 deg. (Fig.27.3-1) (Fig.2	ssure Coefficients           Overhangs           Use with q2) Fig. 27.3-1           ind parallel to ridge) (Us           with qb) Fig. 27.4-1           Yos Windward           -0.177           Yos Bardon Market           Yos Windward           -0.177           Yos Windward           -0.178           Yos Windward           -0.178           Yos Windward           -0.179           Yos Windward           -0.170           Yos Windward           -0.30           -0.30           -24.38 psf           -32.21 psf           28.26 psf	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	eward -0.496 h to 2h -0.50 -0.50 Cocation 0 to h/2 h/2 to h h to 2h Over 2h	L/B = L/B = -1/B = -0.30 -0.50	0.90	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 to h h to 2h Over 2h	Gast Factor - 1 G = Internal Press Negative: Positive: Positive: Positive: Positive Internal ositive Internal ositive Internal VORST CASE LOADIN Pressures: Wind lar to ridge for \$ < 10 deg: 0.00 psf 0.00 psf 0.00 psf	0.85 0.85 -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf G				
Cp Cp Cp Roof Pressure C Ridge Roof Pressures Roof Pressures Windward Leeward (wind 1 Leeward (wind 1) Leeward (wind 1) Le	0.8 0.8 0.500 0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 when Theta < 1 sure Coefficients. ARALLEE to Ric : : : : : : : : : : : : :	External Pre See 27.3.3 Roof Windward wall ( Leeward wall (w Sidewalls (Use v (7.3-1) Normal to degrees (Fig 27.3-1) ge w/Neghtive 35.74 psf -16.00 psf -16.00 psf -16.00 psf -17.25 psf	sure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Us ind parallel to ridge) (Us with qb) Fig. 27.4-1 for Windward -0.177 0 to h/2 0.00 -0.30 w/ Positive Internal 20.78 psf -32.21 psf -32.21 psf -32.21 psf -32.21 psf -32.21 psf	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	beeward -0.496 h to 2h -0.50 -0.50 Roof Presse ridge fo Location 0 to h/2 h/2 to h h to 2h Over 2h	L/B = L/B = L/B = -0.30 -0.30 -0.30 -0.30 rres: Wind Parallel to or all roof slopes: w/Positive Internal -39.28 psf -39.28 psf -39.28 psf -39.28 psf -39.28 psf	0.90	Roof Pressu w/N w/P *V Roof J Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	G at a ratio - 1 G = Internal Press Negative: Positive: Positive: stive Internal solutive Internal wORST CASE LOADIN Pressures: Wind ar to ridge for \$ < 10 deg: w Positive Internal 0.00 psf 0.00 psf 0.00 psf	0.85 0.85 -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf G				
Cp Cp Cp Roof Pressure C Ridge Roof Pressure B Wall Pressures Windward Leeward (wind Side Wall Additional Oce Wind Speed:	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 e when Theta > 1 sure Coefficients sure Coefficients ARALLE to Ric arrive the the the the the the the the company of the	External Pre See 27.3.3 Roof Windward wall (u Leeward wall (u Sidewalls (Use v 7.3-1) Normal to Odegrees 7.3-1) Normal to Odegrees 7.3-10 Normal to	ssure Coefficients           Overhangs           Use with q2) Fig. 27.34 <sup>-1</sup> ind normal to ridge) (Us           with qb) Fig. 27.4-1           the gamma set of the set	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	eward -0.496 h to 2h -0.50 -0.50 Cocation 0 to h/2 h/2 to h h to 2h Over 2h	L/B = L/B = L/B = -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -39.28 psf -39.28 psf -39.28 psf -39.28 psf -18.08 psf -18.08 psf	0.90	Roof Pressu w/N w/P *V Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	Gust Factor - G = Internal Press Negative: Positive: Positive: Positive: Positive Internal voRST CASE LOADIN Pressures: Wind ar to ridge for \$ < 10 deg: w/Positive Internal 0.00 psf 0.00 ps	0.85 0.85 -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf -36				
Cp Cp Cp Roof Pressure ( Ridge Roof Pressure S Roof P Roof P	0.8 0.8 0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta ≥= 10 Coefficients (Fig 2 Coefficients (Fig 2 Coef	External Pree See 27.3.3 Roof Windward wall ( Leeward wall (w Sidewalls (Use v 7.3-1) Normal to degrees (7.3-1) Normal to 0 deg. (Fig 27.3-1) 22 w/ NegMtve 35.74 psf -16.00 psf -17.25 psf Roof Slope: Mean Roof Height:	ssure Coefficients           Overhangs           Use with q2) Fig. 27.331           ind normal to ridge) (Us           ind parallel to ridge) (Us           with qh) Fig. 27.4-1           Yos Windward           -0.177           Yos Windward           -0.178           Yos Windward           -0.178           Yos Windward           -0.178           Yos Windward           -0.179           Yos Windward           -0.178           Yos Windward           -0.200           -0.30           -24.38 psf           -32.21 psf           28.26 psf           2.56 : 12           8.35 fr	e with qh) se wift qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90	eward -0.496 h to 2h -0.50 -0.50 Costion 0 to h/2 h/2 to h h to 2h Over 2h	L/B =           L/B =           L/B =           -0.30           -0.30           -0.30           -or all roof slopes:           wP Positive Internal           -39.28 psf           -25.14 psf           -18.08 psf           SenTS	0.90	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	$\begin{array}{c} \text{Gast Factor -1} \\ \text{G} = \\ \hline \\ \text{Internal Press} \\ \text{Negative:} \\ \text{Positive:} \\ \hline \\ \text{Positive:} \\ \hline \\ \text{Positive:} \\ \hline \\ \text{structure} \\ \text{Positive:} \\ \hline \\ \text{structure} \\ \hline \\ \text{structure} \\ \text$	0.85 sures: -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf -36.12 psf				
Cp Cp Cp Roof Pressure ( Ridge Roof Pressure ( Ridg Roof Pressure ( Ridg Roof Pressure ( Ridg	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 when Theta < 1 Sure Coefficients. ARALLEL fo Rki : : : : : : : : : : : : :	External Pre See 27.3.3 Roof Windward wall ( Leeward wall ( Leeward wall ( Sidewalls (Use v 7.3-1) Normal to degrees 7.3-1) Normal to degrees 7.3-1) Normal to deg. (Fig 27.3-1) ge w/NegAtive 35.74 psf -16.00 psf -16.00 psf -17.25 psf Mean Roof Height:	sure Coefficients Overhangs Use with q2) Fig. 27.3-1 ind normal to ridge) (Us ind parallel to ridge) (Us with qb) Fig. 27.4-1 Pos Windward -0.177 0 to h/2 -0.90 -0.90 -0.90 -0.90 -0.90 -0.78 psf -25.14 psf -24.38 psf -32.21 psf -32.21 psf -32.21 psf -32.5 psf -25.6 : 12 	e with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90 -0.90	Beeward           -0.496           h to 2h           -0.50           -0.50           Roof Presst           ridge fr           Location           0 to h/2           h to 2h           Over 2h           COMPONID           & CLADD	L/B = L/B = L/B = -0.30 -0.30 -0.30 -0.30 -0.30 res: Wind Parallel to or all roof slopes: w/ Positive Internal -39.28 psf -39.28 psf -39.28 psf -25.14 psf -18.08 psf -18.08 psf	0.90	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	G = Internal Press Negative: Positive: Positive:  res Wind Perpendicula 9 >= 10 deg egative Internal voRST CASE LOADIN Pressures: Wind ar to ridge for 9 < 10 deg: wPositive Internal 0.00 psf	0.85 sures: -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf G				
Cp Cp Cp Roof Pressure ( Ridge Roof Pressure S Roof Pressure S Windvard Leeward (wind 1 Side Wall Additional Ove Wind Speed: Exposure: Zone	0.8 0.8 0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 Coefficients (Fig	External Pre See 27.3.3 Roof Windward wall (t Leeward wall (t Sidewalls (Use v 7.3-1) Normal to degrees 7.3-1) Normal to 0 deg. 7.3-1) Normal to 1.100 psf -1.100 psf -1.100 psf -1.100 psf -1.100 psf -1.100 psf -1.100 psf	ssure Coefficients           Overhangs           Use with q2) Fig. 27.31           ind normal to ridge) (Us           ind parallel to ridge) (Us           with qb Fig. 27.4-1           dots windward           -0.177           0 to h2           -0.90           -0.30           w/ Positive Internal           20.78 psf           -24.18 psf           -32.21 psf           28.26 psf           2.56 : 12           8.35 ft           Effectiv           1000 c	e with qh se with qh se with qh -0.811 h/2 to h -0.90 -0.90 -0.90	eward -0.496 h to 2h -0.50 -0.50 Coation 0 to h/2 h/2 to h h to 2h Over 2h	$\frac{L/B}{L/B} = \frac{L/B}{1} = \frac{1}{1/B} = $	0.90	Roof Pressu w/N w/P *v Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	Gast Factor - 1 G = Internal Press Negative: Positive: Positive: Positive: Positive Internal vorst CASE LOADIN Pressures: Wind lar to ridge for 8 < 10 deg: w Positive Internal 0.00 psf 0.00 psf 0.00 psf	0.85 vures: -7.48 psf 7.48 psf r to Ridge w/ 1.22 psf -36.12 psf IG				
Cp Cp Cp Roof Pressure G Ridge Roof Pressure G Roof Pressure G Roof Pressure F Windward Leeward (wind Leeward (wind Side Wall Additional Occ Wind Speed: Exposure I	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta ≥= 10 Coefficients (Fig 2 coefficients	External Pree See 27.3.3 Roof Windward wall ( Leeward wall (w Sidewalls (Use v 7.3-1) Normal to degrees (7.3-1) Normal to 0 deg. (Fig 27.3-1) 22 w/ NegAtive 35.74 psf -16.00 psf -17.25 psf -16.00 psf -17.25 psf Roof Slope: Mean Roof Height: sq ft 19.98 psf	ssure Coefficients           Overhangs           Use with q2) Fig. 27.331           Und moral to ridge) (Use           ind parallel to ridge) (Use           with qh) Fig. 27.4-1           for Windward           -0.177           W to h/2           0.00           -0.20           w/Positive Internal           20.78 psf           -23.14 psf           -23.21 psf           28.26 psf           2.56 : 12           8.35 ft           Effectiv           100.0 5 psf	e with qh) se with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90 -0.90 -0.90	Leeward           -0.496           h to 2h           -0.50           -0.50           Roof Presso           ridge for           Location           0 to h/2           h/2 to h           h to 2h           Over 2h           COMPONI           & CLADD           -34.05 psf	L/B = L/B = L/B = -0.30 -0.50	0.90	Roof Pressu w/N w/P *v Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	G = Internal Press Negative: Positive: Positive: G = Internal Press G = G = G = G = G = G = G = G = G = G =	0.85 0.85				
Cp Cp Cp Roof Pressure ( Ridg Roof Pressure S Ridg Roof Pressure S Ridg Roof Pressure B Wall Pressures Wind Vall Additional Ove Wind Speed: Exposure Zone 1	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 when Theta < 1 sure Coefficients sure Coefficients arrallely rthang Pressure: 150 mph C -38.21 psf -71.45 psf	External Pre See 27.3.3 Roof Windward wall ( Leeward wall ( Leeward wall ( Sidewalls (Use v 7.3-1) Normal of degrees 7.3-1) Normal of degrees 7.3-	ssure Coefficients           Overhangs           Use with q2) Fig. 27.34           ind parallel to ridge) (Us           with qb) Fig. 27.4-1           the second se	e with qh) se with qh) Neg. Windward -0.811 h2 to h -0.90 -0.90 -0.90 (c Area q ft 11.67 psf 11.67 psf	heward -0.496 h to 2h -0.50 -0.50 0 to h/2 h/2 to h h to 2h Over 2h COMPONI & CLADD -34.05 psf -30.67 psf	L/B = L/B = L/B = -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 res: Wind Parallel to or all roof slopes: w/Positive Internal -39.28 psf -39.28 psf -18.08 psf -18.08 psf -18.08 psf -18.07 psf II.67 psf II.67 psf	0.90 1.11	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	G = Internal Press Negative: Positive: Positive: Positive: res Wind Perpendicula 9 >= 10 deg egative Internal vorst CASE LOADIN Pressures: Wind ar to ridge for 9 < 10 deg: W Positive Internal 0.00 psf	nitches $> 7$				
Cp Cp Cp Roof Pressure ( Ridge Roof Pressure S Roof Pressure S	0.8 0.8 0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 NARALLEL to Ric - 30 - 30 	External Pre See 27.3.3 Roof Windward wall (u Sidewalls (Use v 7.3-1) Normal of degrees 7.3-1) Normal to 0 deg. (Fig 27.3-1) get w/NegMtve 35.74 ps1 -16.00 psf -16.00 psf -17.25 psf -17.2	Surre Coefficients           Overhangs           Use with q2) Fig. 27.31           ind normal to ridge) (Us           wind parallel to ridge) (Us           with qb) Fig. 27.4-1           Pros. Windward           -0.177           0 to b/2           -0.30           -0.30           w/ Positive Internal           20.78 psf           -24.38 psf           -32.21 psf           28.26 psf           2.56 : 12           8.35 ft           Effectivi           100.0 s           -34.05 psf           -50.67 psf           -90.67 psf	e with qh se with qh se with qh -0.811 h/2 to h -0.90 -0.90 -0.90 -0.90 -0.90 -0.90 -0.90 -0.90 -0.90 -0.90 -0.90	seward         -0.496           h to 2h         -0.50           -0.50         -0.50           Location         0 to h/2           b/2 to h         h to 2h           Nover 2h         -0.00000000000000000000000000000000000	L/B = L/B = L/B = -0.30 -0.51(10) -0.52) -0.51(10) -0.52) -0.51(10) -0.52) -0.51(10) -0.52) -0.51(10) -0.52) -0.51(10) -0.52) -0.51(10) -0.52)	0.90 1.11	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	G = G = Internal Press Negative: Positive: Positive: Positive: res Wind Perpendicula 3 >= 10 deg egative Internal ositive Internal vorstr CASE LOADIN Pressures: Wind lar to ridge for \$ < 10 deg: W Positive Internal 0.00 psf 0.00	vires:     -7.48 psf       7.48 psf     -7.48 psf       r to Ridge w/				
Cp Cp Cp Roof Pressure G Ridge Roof Pressure G Roof Pressure G Roof Pressures F Windward Leeward (wind i Leeward (wind i Side Wall Additional Occ Exposure: Zone 1 2 20h 3	0.8 0.8 0.7 0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 when Theta < 1 sure Coefficients. ARALLET to Ric : : : : : : : : : : : : :	External Pree See 27.3.3 Roof Windward wall ( Leeward wall (w Sidewalls (Use v 7.3-1) Normal to degrees (7.3-1) Normal to degrees (7.3-1) Normal to deg. (Fig 27.3-1) get w/ NegNive 35.74 ps -16.00 psf -17.25 psf -17.25 psf -17.25 psf -17.25 psf -19.98 psf 19.98 psf -19.98 psf -19.98 psf	Surre Coefficients           Overhangs           Use with q2) Fig. 27.33.           Use with q2) Fig. 27.4-1           for Mail to ridge) (Us           with qb) Fig. 27.4-1           for Windward           -0.177           Q to h/2           0.000           -0.177           Q to h/2           0.000           -0.23.8 psf           -25.14 psf           -24.38 psf           -32.21 psf           28.26 psf           2.56 : 12           8.35 ft           Effectiv           100.0 ps           -34.05 psf           -50.67 psf           -91.44 psf           -91.44 psf	e with qh) se with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -0.90 -0.90 -0.90 -0.90 -0.90 -0.90 -0.90 -0.90 -0.90	Beeward         -0.496           h to 2h         -0.50           -0.50         -0.50           Boof Pressuring for the bar of	L/B = L/B = L/B = -0.30 -0.50	0.90 1.11	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	G = Internal Press Negative: Positive: Positive: G = Internal Press G = G = G = G = G = G = G = G = G = G =	<pre>virtue control co</pre>				
Cp Cp Cp Cp Roof Pressure ( Ridg Roof Pressure Ridg Roof Pressures Wind Pressures Wind Wall Additional Occ Side Wall Side Wall Additional Occ Side Wall Side Wall Side Wall Side Wall Additional Occ Side Wall Side	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 when Theta >= 1 coefficients (Fig 2 when Theta < 1 Souther the second secon	External Pre See 27.3.3 Roof Windward wall ( Leeward wall ( Leeward wall ( Sidewalls (Use v 7.3-1) Normal to odeg. 7.3-1) Normal to no deg. 7.3-1) Normal to no de	3         ssure Coefficients           Overhangs         Use with q2) Fig. 27.34 <sup>-1</sup> Use with q2) Fig. 27.34 <sup>-1</sup> ind parallel to ridge) (Uswith qb) Fig. 27.4-1           rbss Windward         -0.177           -0.030         -0.177           -0.040         -0.090           -0.390         -0.390           -0.177         -0.140           -0.177         -0.140           -0.177         -0.140           -0.177         -0.140           -0.177         -0.140           -0.177         -0.140           -0.177         -0.140           -0.177         -0.140           -0.171         -0.140           -0.172         -0.150           -0.173         -0.140           -0.174         -0.170           -0.175         -0.140           -25.14         psf           -25.2.14         psf           -25.2.14         psf           -25.2.1         psf           -25.6         s12 <b>8.35</b> ft         Effectiv           -10.00 or of         -91.440 psf           -33.92 psf         -91.340 psf	e with qh) se with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -	neward           -0.496           h to 2h           -0.50           -0.50           Roof Presst           ridge fi           Location           0 to h/2           h/2 to h           h to 2h           Over 2h           COMPONIE           -34.05 psf           -50.67 psf           -51.67 psf           -51.67 psf           -51.03 90 or fi	$\frac{L/B}{L/B} = \frac{L/B}{1} = \frac{1}{1}$ $\frac{> 2h}{-0.30}$ -0.30	0.90 1.11 Higher pressu	Roof Pressu w/N w/P *V Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	Gust Factor - G = Internal Press Negative: Positive: Positive: Positive: Positive Internal voRST CASE LOADIN Pressures: Wind ar to ridge for \$ < 10 deg: w/ Positive Internal 0.00 psf 0.00 psf 0.00 psf 0.00 psf line only applies to roof	vpitches > 7				
Cp Cp Cp Roof Pressure G Ridge Roof Pressure S Roof Pressure S Windward Leeward (wind 1 Leeward (wind 1 Leeward (wind 1 Side Wall Additional Ove Wind Speed: Exposure: Zone 1 2 Voh 3 3 3 0 4	0.8 0.8 0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	External Pre See 27.3.3 Roof Windward wall ( Leeward wall (w Sidewalls (Use v 7.3-1) Normal to 0 deg. (7.3-1) Normal to 0	Surre Coefficients           Overhangs           Use with q2) Fig. 27.31           ind normal to ridge) (Us           ind parallel to ridge) (Us           with qb) Fig. 27.4-1           Poss Windward           -0.177           0 to h/2           -0.50           -0.050           -0.050           -0.050           -0.78 psf           -25.14 psf           -24.38 psf           -32.21 psf           28.26 psf           2.56 : 12           8.35 ft           Effectiv           -34.05 psf           -91.44 psf           -83.92 psf           -103.90 psf           -91.44 psf           -83.92 psf           -103.90 psf	e with qh se with qh se with qh -0.811 h/2 to h -0.90	eward           -0.496           h to 2h           -0.50           -0.50           Composition           0 to h/2           h/2 to h           h to 2h           Over 2h           COMPONI           & CLADD           -34.05 psf           -91.44 psf           -91.44 psf           -91.44 psf           -33.05 psf	$\frac{L/B}{L/B} = \frac{L/B}{1}$ $\frac{> 2h}{-0.30}$ -0.30 -0.3	0.90 1.11	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h ares at the ridge	G = Internal Press Negative: Positive: Positive: res Wind Perpendicula 3 >= 10 deg egative Internal ositive Internal vorsT CASE LOADIN Pressures: Wind lar to ridge for \$ < 10 deg: 0.00 psf 0.00 psf	ures:         -7.48 psf         7.48 psf    r to Ridge w/          1.22 psf         -36.12 psf    'pitches > 7				
Cp Cp Cp Cp Roof Pressure ( Ridge Roof Pressure C Ridg Roof Pressure C Ridg Roof Pressure C R	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 when Theta < 1 sure Coefficients. ARALLEL fo Rid : : : : : : : : : : : : :	External Presses 27.3.3 Roof See 27.3.3 Roof Windward wall (U Leeward wall (U Leeward wall (W Sidewalls (Use v 7.3-1) Normal to Odeg. (Fig 27.3-1) ge w/NegAtive 35.74 psf -16.00 psf -16.00 psf -16.00 psf -16.00 psf -16.00 psf -17.25 psf Mean Roof Height: 0 sq ft 19.98 psf - 19.98 psf - 19.98 psf - 19.98 psf - 19.98 psf - 19.98 psf - 19.98 psf -	Surre Coefficients           Overhangs           Use with q2) Fig. 27.3-3           Use with q2) Fig. 27.3-1           ind parallel to ridge) (Us           with qb) Fig. 27.4-1           Pose/Windward           -0.177           Q to h/2           -0.00           -0.177           Q to h/2           -0.30           -2.4.38 psf           -2.2.11 psf           -2.8.26 psf           2.5.6 : 12           8.35 ft           Effectiv           -5.0.67 psf           -91.44 psf           -83.92 psf           -103.00 psf           -38.21 psf	e with qh) se with qh) se with qh) Neg. Windward -0.811 h/2 to h -0.90 -	Decward         -0.496           h to 2h         -0.50           -0.50         -0.50           Image for the second sec	L/B =     L/B =     L/B =     L/B =     L/B =      > 2h	0.90 1.11	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h	G = Internal Press Negative: Positive: Positive:  res Wind Perpendicula 9 >= 10 deg egative Internal sitive Internal voRST CASE LOADIN Pressures: Wind ar to ridge for 9 < 10 deg: w/ Positive Internal 0.00 psf 0.00 psf 0.00 psf line only applies to roof	0.85       0.85       sures:       -7.48 psf       7.48 psf       r to Ridge w/       1.22 psf       -36.12 psf       'G				
Cp Cp Cp Cp Roof Pressure C Ridge Roof Pressures Wind Pressures Wind Wall Leeward (wind 1 Lieward (wind 1 Liew	0.8 0.8 -0.500 -0.478 -0.7 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 when Theta >= 10 Coefficients (Fig 2 when Theta < 1 Superstand the second s	External Pre See 27.3.3 Roof Windward wall (U Leeward wall (U Leeward wall (W Sidewalls (Use v 7.3-1) Normal to Odeg. 7.3-1) Normal to Odeg. 7.3-10 Normal to Od	sure Coefficients Overhangs Use with q2) Fig. 27.34 ind normal to ridge) (Us with q2) Fig. 27.4-1 floss Windward -0.177 0 to h2 0.090 -0.30 w/ Positive Internal 20.78 psf -25.14 psf -24.38 psf -32.21 psf -32.21 psf -32.21 psf -32.21 psf -35.25 ft Effectiv 100.0 sp -34.05 psf -33.92 psf	e with qh se with qh se with qh -0.811 h/2 to h -0.90	eward           -0.496           h to 2h           -0.50           -0.50           Boof Presst           ridge for           Location           0 to h/2           h to 2h           Over 2h           COMPONIE           & CLADD           -34.05 psf	L/B =           L/B =           L/B =           -0.30           -0.30           -0.30           or all roof slopes:           w/ Positive Internal           -39.28 psf           -39.28 psf           -39.28 psf           -18.08 psf           ENTS           DING           500.0 sq ft           -11.67 psf           -11.67 psf           -11.67 psf           -28.29 psf           28.29 psf	0.90 1.11	Roof Pressu w/N w/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h ares at the ridge	G = Internal Press Negative: Positive: Positive: res Wind Perpendicula 𝔅 >= 10 deg egative Internal vorst CASE LOADIN Pressures: Wind lar to ridge for 𝔅 < 10 deg: w Positive Internal 0.00 psf 0.00 psf STATE	virues: -7.48 psf 7.48 psf r to Ridge w/ -7.48 psf -7.48 psf -7.48 psf -7.48 psf -7.48 psf -36.12 psf -				
Cp Cp Cp Roof Pressure G Ridge Roof Pressure G Roof Pressure G Roof Pressure G Roof Pressure G Roof Pressure F Windward Leeward (wind j Leeward (wind j Side Wall Additional Ove Wind Speed: Exposure: Zone 1 2 201 3 3 oh 4 5 a:	0.8 0.8 0.7 0.7 0.478 -0.7 0.7 0.7 0.7 0.7 0.7 0.7 0.7	External Pres           See 27.3.3 Roof           Windward wall ()           Leeward wall (w)           Sidewalls (Use v)           7.3-1) Normal (o           Vindward wall ()           Sidewalls (Use v)           7.3-1) Normal (o           0 deg.           (fig.27.3-1)           (w) NegMuve           35.74 psl           -16.00 psf           -16.00 psf           -16.00 psf           -16.00 psf           -16.00 psf           -16.00 psf           -17.25 psf           Roof Slope:           Mean Root           Height:           9 q ft           19.98 psf           -19.98 psf           -19.98 psf           -19.98 psf           -19.98 psf           -19.98 psf           -19.76 psf	Surre Coefficients           Overhangs           Use with q2) Fig. 27.31           Und moral to ridge) (Us           ind parallel to ridge) (Us           with qb) Fig. 27.4-1           Pos. Windward           -0.177           Pos. Windward           -0.171           Pos. Windward           -0.171           Pos. Windward           -0.90           -0.30           W Positive Internal           20.78 psf           -32.21 psf           -34.05 psf           -34.05 psf           -50.67 psf           -91.44 psf           -83.92 psf           -103.90 psf	e with qh) se wift qh) Neg. Windward -0.811 h/2 to h -0.90 -	eward           -0.496           h to 2h           -0.50           Boof Pressuridge for           Location           0 to h/2           h/2 to h           h to 2h           Over 2h           COMPONI           & CLADD           -34.05 psf           -34.05 psf           -34.05 psf           -34.05 psf           -34.05 psf	L/B = L/B = L/B = -0.30 -0.55	0.90 1.11	Roof Pressu W/N W/P *V Roof I Perpendicu Location 0 to h/2 h/2 to h h to 2h Over 2h ares at the ridge	G = Internal Press Negative: Positive: Positive: Positive: Positive: Positive Internal S >= 10 deg egative Internal voRST CASE LOADIN Pressures: Wind lar to ridge for \$ < 10 deg: W Positive Internal 0.00 psf 0					

Main Wind Force Resisting System Loads (ASCE 7-16)

Approval # PFS: 23-006080

THIS APPROVAL DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM THE REQUIREMENTS OF STATE LAWS OR APPLICABLE LOCAL ORDINANCES . THIS APPROVAL IS LIMITED TO FACTORY-BUILT PORTION ONLY.

![](_page_34_Picture_7.jpeg)

Date: 07-20-2023

Expires: 10-31-2024

### ASCE 7-16 SNOW LOAD CALCULATION

![](_page_35_Figure_4.jpeg)

PFS CORPORATION - Cottage Grove, WI

APPLICABLE LOCAL ORDINANCES . THIS APPROVAL IS LIMITED TO FACTORY-BUILT PORTION ONLY.

### Seismic Loads (ASCE 7-16)

Category       II       IBC TABLE 1604.5: Risk Category of Buildings and Other Structures.         Ss       1.714 g       Max. Earthquake Ground Motion of 0.2 sec Spectral Response Acceleration       ASCE Figure 22-1         Si       1.389 g       Max. Earthquake Ground Motion of 1.0 sec Spectral Response Acceleration       ASCE Figure 22-1         Site Class       D (Default)       Site classification (Use D if unknown unless jurisdiction, or geotechnical data determines Site Class E or F.)       ASCE Figure 22-1         Seismic Force       ASCE Figure 22-1       ASCE Figure 22-1         Seismic System       A.5       Intermediate precast shear walls       ASCE Table 12.2-3         R       4.00       Response Modification Factor       ASCE Table 12.2-3 $\Omega_0$ 2.5       System Over strength Factor       ASCE Table 12.2-3 $\zeta_1$ 0.02       Approximate period parameter       ASCE Table 12.2-3 $\alpha$ 0.75       Approximate period parameter       ASCE Table 12.2-3 $nn$ 8.55 ft       Height in feet from base to highest level of structure       *=Used for interpolation $\Gamma_{s}$ 1.2       Interpolated Value       ASCE Table 11.4-1       1       1 $\Gamma_{s}$ 1.2       Interpolated Value       ASCE Table 11.4-2       1.7       1.7	
Ss       1.714 g       Max. Earthquake Ground Motion of 0.2 see Spectral Response Acceleration       ASCE Figure 22-1         Site Class       D (Default)       Site classification (Use D if unknown unless jurisdiction, or geotechnical data determines Site Class E or F.)       ASCE Figure 22-1         Steinie Force       Resisting System       A.5       Intermediate precast shear walls       ASCE Table 12.2-1         Resisting System       A.5       Intermediate precast shear walls       ASCE Table 12.2-1         Q <sub>0</sub> 2.5       System Over strength Factor       ASCE Table 12.2-1         C <sub>1</sub> 0.02       Approximate period parameter       ASCE Table 12.2-1         Name       A.5       Intermediate precast shear walls       ASCE Table 12.2-1         R       4.00       Response Modification Factor       ASCE Table 12.2-1         Q <sub>0</sub> 2.5       System Over strength Factor       ASCE Table 12.2-1         String F <sub>1</sub> 0.02       Approximate period parameter       ASCE Table 12.2-1         Name       8.55 ft       Height in feet from base to highest level of structure       *=Used for interpolation         F <sub>8</sub> 1.2       Interpolated Value       ASCE Table 11.4-1       1       1         F <sub>8</sub> 1.7       Interpolated Value       ASCE Table 11.4-2       1.7 <td< td=""><td></td></td<>	
Prior       Later parts Caterparts Count product of Low Copertal Response Acceleration       ASCE Figure 22-1         Ti       16.05 g       D (Default)       Site classification (Use D if unknown unless jurisdiction, or geotechnical data determines Site Class E or F.)       ASCE 20.1         Ti       16.0 sec       Long Period Transition Period       ASCE 20.1         Seismic Force       Intermediate precast shear walls       ASCE Table 12.2-N         R       4.00       Response Modification Factor       ASCE Table 12.2-N $\Omega_0$ 2.5       System Over strength Factor       ASCE Table 12.2-N $\Omega_0$ 2.5       System Over strength Factor       ASCE Table 12.2-N $\Omega_0$ 2.5       Approximate period parameter       ASCE Table 12.2-N $\kappa$ 0.75       Approximate period parameter       ASCE Table 12.2-N $\kappa$ 0.75       Approximate period parameter       ASCE Table 12.4-N $\kappa$ 0.75       Approximate period parameter       ASCE Table 12.4-N $\kappa$ 0.75       Approximate period Parameter       ASCE Table 12.4-N $\kappa$ 0.71       Interpolated Value       ASCE Table 11.4-1       1 $F_{s}$ 1.2       Interpolated Value       ASCE Table 11.4-2       1.7      <	
Intermediate priod Transition Period       ASCE 7 figure 22-14         Seismic Force       ASCE 7 figure 22-14         Reside System       A.5         Intermediate precast shear walls       ASCE 7 figure 22-14         Age       4.00         Response Modification Factor       ASCE Table 12.2-1         Age       Age         C1       0.02         Approximate period parameter       ASCE Table 12.2-1         Science       ASCE Table 12.2-1         C1       0.02         Approximate period parameter       ASCE Table 12.2-1         Science       ASCE Table 12.2-1         Science       ASCE Table 12.2-1         Asce 11.4-1       1         Science       ASCE Table 12.2-1         Science       ASCE Table 12.2-1         Science       ASCE Table 12.2-1         Science       Asce 11.4-1         Scien	
Seismic Force Resisting System       A.5       Intermediate precast shear walls ASCE Table 12.2-1       ASCE Table 12.2-1 $\Omega_0$ 2.5       System Over strength Factor       ASCE Table 12.2-1 $\Omega_0$ 2.5       System Over strength Factor       ASCE Table 12.2-1 $C_1$ 0.02       Approximate period parameter       ASCE Table 12.2-1         x       0.75       Approximate period parameter       ASCE Table 12.4-1         nn       8.55 ft       Height in feet from base to highest level of structure       *=Used for interpolation $\frac{\tilde{s}_a}{\tilde{s}_a}$ 1.2       Interpolated Value       ASCE Table 11.4-1       1       1 $\tilde{s}_v$ 1.7       Interpolated Value       ASCE Table 11.4-2       1.7       1.7 $\tilde{s}_v$ 1.7       Interpolated Value       ASCE Table 11.4-2       1.7       1.7 $\tilde{s}_v$ 1.7       Interpolated Value       ASCE Table 11.4-2       1.7       1.7 $\tilde{s}_v$ 1.7       Interpolated Response Acceleration at short periods       ASCE 11.4-1 $\tilde{s}_{vii} = F_v * S_1$ 2.361 g       Adjusted MCE Spectral Response Acceleration at 1 see period       ASCE 11.4-2         (MCE = Maximum considered earthquake)       ASCE 11.4-2       ASCE 11.4-2 <td< td=""><td></td></td<>	
Resisting System       A.5       Intermediate precast shear walls       ASCE Table 12.2-1         Q       A.5       System Over strength Factor       ASCE Table 12.2-1         Q       0.2.5       System Over strength Factor       ASCE Table 12.2-1         Ct       0.02       Approximate period parameter       ASCE Table 12.2-1         Ct       0.02       Approximate period parameter       ASCE Table 12.2-1         State       0.75       Approximate period parameter       ASCE Table 12.2-1         State       0.75       Approximate period parameter       ASCE Table 12.2-1         State       0.75       Interpolated Value       ASCE Table 11.4-1       1 $\overline{C_a}$ 1.2       Interpolated Value       ASCE Table 11.4-1       1       1 $\overline{C_v}$ 1.7       Interpolated Value       ASCE Table 11.4-2       1.7       1.7       1.2         Sms = Fa * S_S       2.057 g       Adjusted MCE Spectral Response Acceleration at short periods       ASCE 11.4-1       ASCE 11.4-2         Smi = Fv * S_1       2.361 g       Adjusted MCE Spectral Response Acceleration at 1 sec period       ASCE 11.4-2         (MCE = Maximum considered earthquake)       ASCE 11.4-2       ASCE 11.4-2	
K       4.00       Response Modification Factor       Inclusion $2_0$ 2.5       System Over strength Factor       ASCE Table 12.8-2 $2_1$ 0.02       Approximate period parameter       ASCE Table 12.8-2 $1$ 0.02       Approximate period parameter       ASCE Table 12.8-2 $1$ 0.75       Approximate period parameter       ASCE Table 12.8-2 $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $1$ $2_n$ $1.2$ Interpolated Value $ASCE Table 11.4-1$ $1$ $1$ $2_n$ $1.7$ Interpolated Value $ASCE Table 11.4-1$ $1$ $1$ $1$ $2_n$ $1.7$ Interpolated Value $ASCE Table 11.4-1$ $1$ <td></td>	
viscol       Constraints       Constant       Constant	
$v_{c_1}$ $v_{c_2}$ $v_{c_1}$ $ASCE$ Table 12A         k       0.75       Approximate period parameter       ASCE Table 22.8°         inn       8.55 ft       Height in feet from base to highest level of structure       *=Used for interpolation         F_a       1.2       Interpolated Value       ASCE Table 11.4-1       1       1 $v_{v_{v_{v_{v_{v_{v_{v_{v_{v_{v_{v_{v_{v$	
No.       Preprior and construction       Preprior and construction       Preprior and construction         hm       8.55 ft       Height in feet from base to highest level of structure       Value 1*       Value 2*       *=Used for interpolation $F_a$ 1.2       Interpolated Value       ASCE Table 11.4-1       1       1       ***1.2 used per ASCE 11.4-2 $F_v$ 1.7       Interpolated Value       ASCE Table 11.4-2       1.7       1.7          Sms = Fa * S_s       2.057 g       Adjusted MCE Spectral Response Acceleration at short periods       ASCE 11.4-1 $S_{m1} = F_v$ * S_1       2.361 g       Adjusted MCE Spectral Response Acceleration at 1 sec period       ASCE 11.4-2         (MCE = Maximum considered earthquake)	
Value 1* Value 2*         *=Used for interpolation         Fa       1.2       Interpolated Value       ASCE Table 11.4-1       1       1         Fv       1.7       Interpolated Value       ASCE Table 11.4-2       1.7       ***1.2 used per ASCE 11.4-2         Sms = Fa * S_S       2.057 g       Adjusted MCE Spectral Response Acceleration at short periods       ASCE 11.4-1         Smi = Fv * S_1       2.361 g       Adjusted MCE Spectral Response Acceleration at 1 sec period       ASCE 11.4-2         (MCE = Maximum considered earthquake)	
Value 1*     Value 2*     *=Used for interpolation $F_a$ 1.2     Interpolated Value     ASCE Table 11.4-1     1     1 $F_v$ 1.7     Interpolated Value     ASCE Table 11.4-2     1.7     ***1.2 used per ASCE 11.4-2 $F_v$ 1.7     Interpolated Value     ASCE Table 11.4-2     1.7     1.7 $Sms = Fa * S_s$ 2.057 g     Adjusted MCE Spectral Response Acceleration at short periods     ASCE 11.4-1 $S_{mi} = F_v * S_1$ 2.361 g     Adjusted MCE Spectral Response Acceleration at 1 see period     ASCE 11.4-2       (MCE = Maximum considered earthquake)	
$F_a$ 1.2       Interpolated Value       ASCE Table 11.4-1       1       1       1 $F_v$ 1.7       Interpolated Value       ASCE Table 11.4-2       1.7       1.7       1.7         Sms = Fa * S_s       2.057 g       Adjusted MCE Spectral Response Acceleration at short periods       ASCE 11.4-1       ASCE 11.4-1         Sms = Fa * S_s       2.057 g       Adjusted MCE Spectral Response Acceleration at short periods       ASCE 11.4-1         Smi = Fv * S_1       2.361 g       Adjusted MCE Spectral Response Acceleration at 1 see period       ASCE 11.4-2         (MCE = Maximum considered earthquake)	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	
Sms = Fa * S <sub>s</sub> 2.057 g       Adjusted MCE Spectral Response Acceleration at short periods       ASCE 11.4-1 $S_{ml} = F_v * S_1$ 2.361 g       Adjusted MCE Spectral Response Acceleration at 1 sec period       ASCE 11.4-2         (MCE = Maximum considered earthquake)	
$\frac{1}{S_{m1}} = F_v * S_1 \qquad 2.361 \text{ g} \qquad \text{Adjusted MCE Spectral Response Acceleration at Shift priors} \qquad ASCE 11.4-2 (MCE = Maximum considered earthquake)$	
(MCE = Maximum considered earthquake)	
S <sub>DS</sub> = 2/3 Sm <sub>4</sub> 1.371 g Design Spectral Acceleration Parameters ASCE 11.4-3	
$S_{DI} = 2/3 \text{ Sm}_1$ 1.574 g Design Spectral Acceleration Parameters ASCE 11.4-4	
Inportance Factor         ASCE Table 1.5-2	
Sakmin Daring Catagory E	
Result Overger Category E Based on System D Table 11.6-1	
Based on S <sub>D1</sub> E Table 11.6-2	
Geotechnical Investigation Report Required? Yes per ASCE 11.8.2 and U.8.3, IBC 1803	
EVENTALENT LATERAL FUNCE PROTE DURE	
no c m m m m m m m m m m m m m m m m m m	
O 10 see Fundamental period of the starture (can be taken as Ta per ASCE 12.8.2)	
$C_{\rm s} = S_{\rm Ds}/({\rm R}{\rm I})$ 0.343 ASCE 12.8-2	
C <sub>s.min</sub> 0.174 ASCE 12.8-5 & 12.8-6	
C <sub>4max</sub> 3.934 ASCE 12.8-3 & 12.8-4	
0.343	
s 1.000 ASCE 12.8.3	
$r = \frac{7}{2} \frac{2}{\sqrt{2}} \frac{1}{\sqrt{2}} \frac{1}{2$	
VI_s = 703.5 k-ft Overturning Moment with snow load	
V = C <sub>s</sub> * W 74.12 kin Shear without snow load	
M <sub>4</sub> = 620 7 k-11 Overturning Moment without snow load	
WITH SNOW LOAD         12.8-12         12.8-11;11.7	12.10-1
$P_x$ (Story	F <sub>px (diaphra</sub>
Level Story Height $h_i$ or $h_x$ now load) $w_i$ $w_i^* h_i^{k}$ $C_{vx}$ $F_x$ shear) $M_x$	force)
	31.07 ki
Root 8.35 t 14278 psf 56.65 kip 484.5 k-ft 0.983 82.21 kip 82.21 kip 0.0 k-ft	22 47 1-
Roft         8.35 ft         14228 psf         56.65 kip         484.5 k-ft         0.983         82.21 kip         82.21 kip         0.0 k-ft           Walls         0.00 ft         0.00 ft         0.017         1.45 kip         676.0 k ft	∠∠.+/K1
Root         8.35 ft         14228 psf         56.65 kip         484.5 k-ft         0.983         82.21 kip         82.21 kip         0.0 k-ft           Walls         0.00 ft         0.00 ft         0.01 ft         0.00 k-ft         0.01 ft         0.00 k-ft         0.01 ft         0.01 ft         0.00 k-ft         0.01 ft	1
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	
Roof         8.35 ft         14378 psf         56.65 kip         484.5 k-ft         0.983         82.21 kip         82.21 kip         0.0 k-ft           Walls         0.00 ft         0.00 ft <td< td=""><td>12.10-1</td></td<>	12.10-1
Roof         8.35 ft         14378 psf         56.65 kip         484.5 k-ft         0.983         82.21 kip         82.21 kip         0.0 k-ft           Walls         0.00 ft         0.00 ft         0.00 ft         0.00 k-ft         0.00 ft         <	12.10-1 F <sub>px (diaphra</sub>
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	12.10-i F <sub>px (diaphra force)</sub>
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	12.10-1 F <sub>px (diaphra force)</sub> 24.97 ki
Roft         8.35 ft         8.55 ft         143% psf         56.65 kip         484.5 k-ft         0.983         82.21 kip         82.21 kip         0.0 k-ft           Valls         0.00 ft         0.00 ft <td< td=""><td>12.10-1 F<sub>px (diaphrag</sub> force) 24.97 ki</td></td<>	12.10-1 F <sub>px (diaphrag</sub> force) 24.97 ki

#### APPROVED: STATE OF CA - CERTIFIED DAA

Based on the requirements of title 25 California code of regulations Chapter 3 subchapter 2 Commercial Modular

Date: 07-20-2023

Expires: 10-31-2024

### Approval # PFS: 23-006080

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![](_page_36_Picture_11.jpeg)

![](_page_37_Figure_3.jpeg)

![](_page_37_Figure_4.jpeg)

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![](_page_37_Picture_11.jpeg)

![](_page_38_Figure_0.jpeg)

ID:		CORTE	Z CRS-108		]	Notes:										
Material Pre	DES	IGN OF ROOF PANE	ELS MARK R1, R2, R	3, & R4							Ls					
	f ' c Steel Reinforcement		5000 psi Plain WWF Grade 80	-						-	wB		▼VL	> Bs		
	Lightweight? C <sub>d</sub> (Concrete densit	y)	No 150 pcf	O.K.							*	Bs	↓ <sup>wB</sup>			
	λ E (Steel)		1 29000000 psi	ACI 19.2.4.1(a) ACI 20.2.2.2		fr (rupture modulus)	530.3 psi	ACI 19.2.3.1		ON	E-WAY SLAB		TWO-WAY S	SLAB		
	E (Concrete) n (modular ratio)		4286826 psi 6.76	ACI 19.2.2.1(a)		$Ig = (b^{*}h^{3})/12$ $Ag = (b^{*}h)$ $V_{4} = b/2$	91.125 in^4 54 in^2	-			+ + +	* *	¥ ¥			
Geometric P	roperties Ls (overall length of	slab)	10.25 ft	7		Mer β1	2.3 m 21.478 kip in 0.8	ACI 24.2.3.5 ACI Table 22.2.2.4.3		et	db	rd steel top	dt 🗘 🛉 h			
	Bs (overall width of Design will be perfor	slab) med as :	9.79 ft Two-way slab			$\Delta$ initial $\Delta$ long-term	360 480	ACI Table 24.2.2 ACI Table 24.2.2		cb		steel bottom	*			
	tfr (roof finish thickr b (section width) b (section thickness)	ess)	0.375 in 12 in 4.5 in	(typically 12 inches)		B kd Ler	8.830 in 0.108 in 0.01 in 4	-			SECTI	b ON PROPERTIES	-			
	ct (cover top) cb (cover bottom)		0 in 1 in	-		8	0.32 in	1								
	rd (assumed reinf. d dt (effective depth to	iameter) pp)	0.319 in 0.160 in	(if centered enter 0)				(reinforcement ratio provided)			0	]				
	db (effective depth b ohl (overhang lengt	ottom) 1 and qty for Bs)	3.181 in 12 in	1	[qty of overhangs in Bs direction]		ρ <sub>provided</sub> (bottom mesh) ρ <sub>provided</sub> (top mesh)			8,0053 0.0090	0.0848 psi 0 psi					
	oh2 (overhang leng Cs (% of DL used f	h and qty for ls) or Seismic)	10 in 0.343	l (from seismic analysis)	[qty of overhangs in Is direction]		pprovided (both layers)			0.0100	0.16 psi	]				
	NBs (qty of walls in NIs (qty of walls in l	Bs direction) s direction)	2 2	(walls that support one or (walls that support one or	more roof panels in the short direction) more roof panels in the long direction]											
Flexure				1	1						1	1		-		
	Flexural Moments fo	r Bs		Mu	£t	Ety Per ACI 21.2.2.1	Status Check Per ACI 11.8.1.1(b)	Per ACI Table 21.2.2	$\phi$ Mn trial = $\phi$ fcbd <sup>*2</sup> $\omega$ (1-0.59 $\omega$ )	DM = Mu - ¢M	$\phi Mn =$	Check ∳Mn ≥ Mu	% allowed			
	Mpos (positive Mo	ment) = (wB*B^2) / 8		2.22 kip-ft	0.021	0.003	Tension	0.9	3.67 kip-ft		3.67 kip-ft	0.K.	60.49%	1		
	Flexural Moments fo	r ls		Mu	£t	Ety Per ACI 21 2 2 1	Status Check Per ACI 11.8.1.1001	¢b Per ACI Table 21.2.2	φMn trial= φfcbd^2ω(1-0.59ω)	DM = Mu - ¢M	$\phi Mn =$	Check ǿMn ≥ Mu	% allowed	1		
	Mpos (positive Mor	nent) = (wL*L^2) / 8		1.884 kip-ft	0.021	0.003	Tension	0.9	3.67 kip-ft		3.67 kip-ft	0.K.	51.34%	1		
	Maag (pageting Ma	mat) - (mD€ab1^2) / 2		Mu	Et	Exy Per ACI 21.2.2.1	Status Check Per ACI 11.8.1.1(b)	øb Per ACI Table 21.2.2	S Elastic Section Modulus	Mn Per ACI 14.5.2.1a	Mn Per ACI 14.5.2.1b	φMn Per ACI 14.5.2.1	Check ¢Mn > Mu	% allowed		
	Mneg (negative Mon Mneg (negative Mon Mneg (negative Mon	nent) = $(wB^{\circ}oh1^{\circ}2)/2$ nent) = $(wB^{\circ}oh2^{\circ}2)/2$ nent) = $(wL^{\circ}oh1^{\circ}2)/2$		0.080 kip-ft 0.085 kip-ft	-0.002 -0.002 -0.002	0.003	Compression Compression	0.6	40.500 in^3 40.500 in^3 40.500 in^3	1.193 kip-ft 1.193 kip-ft 1.193 kip-ft	14.344 kip-ft 14.344 kip-ft 14.344 kip-ft	8.606 kip-ft 8.606 kip-ft	0.K. 0.K. 0.K.	0.93%		
	Mneg (negative Mor	$ment) = (wL*oh2^2) / 2$		0.059 kip-ft	-0.002	0.003	Compression	0.6	40.500 in^3	1.193 kip-ft	14.344 kip-ft	8.606 kip-ft	0.K.	0.69%		
Shear				1			1			7						
	Maximum Shear for	Bs		Vu	φv per Table ACI 21.2.1	Vc per ACI 22,5.5.1	φVc 4.50 bis	Check $\phi Vc > Vu$	% allowed	-						
	Vu = wB (B/2) Vu for side overhan	$g l = wB^{*}ohl$ $g l = wB^{*}oh2$		0.23 kip	0.85	0.27 kip	4.59 kp 0.23 kip 0.23 kin	0.K. 0.K.	22.03% 99.97% 83.30%	-						
					φv	Ve		Check		Ţ						
	Vu = wL (L/2)			0.30 kip	per Table ACI 21.2.1 0.85	per ACI 22.5.5.1 5.40 kip	φνe 4.59 kip	φVc > Vu O.K.	6.46%				Months	Epsilon		
	Vu for end overhang Vu for end overhang	2 = wL*ohl 2 = wL*oh2		0.06 kip 0.05 kip	0.85	0.27 kip 0.27 kip	0.23 kip 0.23 kip	0.K. 0.K.	27.38% 22.82%	1	Sustained Load Durati	on Per Table 24.2.4.1.3	6	1.2		
Deflection	ſ	Service Loads									span type:	Simple span	I	Ц		
	Span	Ma.serv	Ma.sus	Leffserv Per Table 24.2.3.5	heff.sustained Per Table 24.2.3.5	Immediate Deflection Ai AISC 15th Edition	ρ'	λΔ per ACI 24.2.4.1.1	Long-Term Deflection Δl-t	$\Delta$ total long-term deflection ( $\Delta i + \Delta l$ -	Δ allow (immediate)	∆ allow (long term)	Check short term	Check total long term deflection	% allowed - short term	6 allowed - total long
	В	2.22 kip-ft	0.773 kip-ft	0.01 in^4	91:13-in-4	1able 3-23 0.028 in	0.0053	0.9486	0.026 in	t) 0.054 in 0.054 in	0.2930 in	0.2198 in 0.2354 in	O.K.	0.K.	9.39%	24.39%
	L	1.004 КЮ-П	0.098 кiр-п	0.01 III'4	91.13 IF 4	0.000 n	0.0053	0.9486	0.026 m	0.034 n	0.5139 h	0.2334 m	U.K.	U.K.	0.00%	22.11%

![](_page_40_Figure_3.jpeg)

![](_page_41_Figure_2.jpeg)

![](_page_41_Figure_3.jpeg)

![](_page_42_Figure_3.jpeg)

![](_page_43_Figure_3.jpeg)

![](_page_44_Figure_3.jpeg)

![](_page_45_Figure_3.jpeg)

![](_page_46_Figure_3.jpeg)

![](_page_47_Figure_3.jpeg)

Based on the requirements of title 25 California code of regulation Chapter 3 subchapter 2 Commercial Modular

Date: 07-20-2023 Expires: 10-31-2024

Approval # PFS: 23-006080

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![](_page_48_Figure_3.jpeg)

![](_page_49_Figure_2.jpeg)

![](_page_50_Figure_3.jpeg)

![](_page_51_Figure_3.jpeg)

OR DEVIATION FROM THE REQUIREMENTS OF STATE LAWS OR APPLICABLE LOCAL ORDINANCES . THIS APPROVAL IS LIMITED TO

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FACTORY-BUILT PORTION ONLY.

![](_page_52_Figure_3.jpeg)

PFS CORPORATION - Cottage Grove, WI

![](_page_53_Figure_3.jpeg)

![](_page_54_Figure_3.jpeg)

![](_page_55_Figure_3.jpeg)

![](_page_56_Figure_3.jpeg)

![](_page_57_Figure_3.jpeg)

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Expires: 10-31-2024

![](_page_58_Figure_3.jpeg)

![](_page_59_Figure_2.jpeg)

![](_page_60_Figure_3.jpeg)

![](_page_61_Figure_2.jpeg)

![](_page_61_Figure_3.jpeg)

![](_page_62_Figure_3.jpeg)

![](_page_63_Figure_3.jpeg)

![](_page_64_Figure_0.jpeg)

![](_page_65_Figure_0.jpeg)

7

	CONTEA	1 CINO-100							
Geometric prope	rties	I				Loa	ding		
Bs (width of roof panel)	19.00 ft	1	Wv (weight	of vault)	)**		- ×	0 lb	
Ls (Length of roof panel)	20.50 ft	I	Wtr (roof pa	anel weig	ght)			24976 lb	
Ar Area of Roof	389.50 ft^2	1	Ww (total w	alls pane	el weight)		-	41095 lb	
H (height of building)	9.44 ft	I	Fw (floor pa	inel weig	ght)			20422 Љ	
Lb (length of building)	18.83 ft	I	We (estimat	ed weigh	t of build	ing)	(	86493 lb	_
<b>W D</b> (Width of building)	1/π 320.11. <del>0</del> ^2	I	PSEr (roof.	ned weig	d)	ding w	vauit)	86493 lb	_
Ab (Area of building)	0	I	PSFf (Floor	LiveLo	u) pad)			142.8 ps1	_
Avl (Area of Vault Lins)	0.00 ft^2	I	Pmax (Max	imum all	lowable n	ressure		1500 pst	-
Av (Area of Vault)	0.00 ft 2	I	Funmw (M)	WFRS U	plift Forc	e)	, 	45.16.psf	-
Vh (Vault height)	0 ft	I	WLlat (MW	FRS late	eral wind	pressur	e)	51.74 psf	
Cab (Closed Area of building)	308 33 ft^2		www.(specific	weight o	of water)			62.4 ncf	
Hw (depth of floodwater)	1 ft	I	**Weight of	vault is	not consi	dered in	n sliding resist	ance	
		r							_
μ (sliding factor)	0.40 CHECK S	LIDING RESIS	TANCE	FS (facto	or of safet	y réqui	red)	1.00	<u>,                                     </u>
	.7*Vseismic (from seist	mic analysis with sno	w)	2	3424.2 lb				
Shear	.7*Vseismic (from seism	ic analysis without sr	iow)	20	0754.9 lb				
	Vwind = WLlat *	max(Wb,Lb)*H	ĺ.	9	9197.5 lb				
*1	Load adjustment per IBC 1605.3 1	oad combinations.							
	D 1'1 47 24557	ADGE * A )	1 1 1 1 1		7444 5 **				
Sliding Resistance with Snow	$Pslide = u^{*}(.6^{*}We^{+}.75^{*})$	rstr*Ar)	Psilde =		/444.5 lb		For		
<u>_</u>	FSwind = Delida / 1	Vwind	ESwind -		11	>	r sreqa	OK	
Factor of Safety	FSseismic = Pslide / Y	Vseismic	Fseismic =			 >	1.0	O.K.	
I	2 Oscisinie – I silde /		seisitlie -				1.0	O.R.	
Sliding Resistance with No Snow	Pslide = u*.6*V	Ve	Pslide =	20	0758.32 1	,			
17 I I I I I I I I I I I I I I I I I I I							Fsreqd		
Factor of Safety	FSwind = Pslide / V	√wind	Fswind =	2	2.3	$\geq$	1.0	O.K.	
Factor of Safety	FSseismic = Pslide /	√seismic	Fseismic =	1	1.0	$\geq$	1.0	O.K.	
Shear *	./*Otseismic (from sets .7*Otseismic (from sets Otwind = (WLlat*Lb*H^2 / Load adjustment per IBC 1605.3 1	ic analysis with sho ic analysis without su 2) + (Pupmw*Lb*W oad combinations.	now) b <sup>y</sup> 2 / 2)	173	5.971 kip 3.808 kip 6.303 kip	ft ft ft			
Overturning Resistance with Snow	Ottsnow = (.6*We+.75*PSF	r*Ar)*(Wb/2)	Otrsnow =	449	9.708 kip-	ft	Fsread		
E	FSwind = Øtrsnow /	Otwind	FSwind =	2.	.70	2	1.0	O.K.	
Factor of Safety	FSseismic = Otrsnow /	Vseismic	Fseismic =	2.	.28	2	1.0	O.K.	
Quantuming Desistance with No Street		L/2	05	441	1 1 1 4 1	0			
Overturning Resistance with No Show	Olf - 10. we with	3/2	Otr	441	1.114 кір-	·II	Feread		
	FSwind = Ot / V	wind	Fswind =	2	.65	>	1.0	O.K.	
Factor of Safety	FSseismic = Otr / V	seismic	Fseismic =	2.	.54	2	1.0	O.K.	
	CHECK BEARI	NG PRESSURE	CONDITI	ON					
Net Pressure	$Pnet = (Wev + PSFr^3)$	*Ar + PSFf*Af) / Ab		8	43 95 nsf				
Allowable By observation, if the building is placed	Pmax ≥ Pnet l on a properly prepared well drain vertical loads.	1500 p 1ed granular sub-base	$sf \ge 843.92$ , the design is	5 psf sufficien	nt for later	O.K. al and			
	CHECK BUOY.	ANCY FORCE	CONDITIO	N					
	Fb = γw*Av*Hw+γw*Ca	ıb*(Hw-Vh)	Fb =	1924	0.00 lb	]			
Buoyant Force		EC.	4.50	_		1.00	07		
Buoyant Force	ECI W/ / PI		4 50		2	1.00	0.K.		
Factor-of Safety	FSb = We / Fb	F 50 =	1100						
Factor of Safety The weight of the building exceeds the buoyant of the valut, therefore, the design is sufficient a	FSb = We / Fb t force due to hydrostatic pressure gainst buoyancy.	acting on the horizor	tal surface						
Factor of Safety The weight of the building exceeds the buoyant of the valit, therefore, the design is sufficient a Floor Design Information:	FSb = We / Fb I force due to hydrostatic pressure gainst buoyancy.	acting on the horizor	ntal surface						
Factor of Safety Factor of Safety The weight of the building exceeds the buoyant of the vault, therefore, the design is sufficient a Floor Design Information: 1) The referenced building is made of flood dat 2) The vault system, if existing, is designed to to to a height of 17"	FSb = We / Fb 1 force due to hydrostatic pressure gainst buoyancy. nage resistant 5000 psi reinforced ninimize infiltration into system a	acting on the horizor concrete. nd can be considered	ttal surface		APP	ROV	ED: STA	TE OF CA - (	CERTI
Factor of Safety           Factor of Safety           The weight of the building exceeds the buoyant of the vault, therefore, the design is sufficient a Floor Design Information:           1) The referenced building is made of flood dat           2) The vault system, if existing, is designed to a to a height of 17"           3) Flood Ventilation is available at threshold le no more than 12" A.F.F.	FSb = We / Fb t force due to hydrostatic pressure gainst buoyancy. nage resistant 5000 psi reinforced minimize infiltration into system a vel and flood ventilation exceedin	acting on the horizor concrete. nd can be considered g 1" per sq. ft. of floc	ttal surface water tight	ded	<b>APP</b> Bi	ROV ased on hapter	ED: STA the requireme 3 subchapter 2	TE OF CA - ( ents of title 25 Califor 2 Commercial Mc	CERTII nia code of odular

### Approval # PFS: 23-006080

THIS APPROVAL DOES NOT AUTHORIZE OR APPROVE ANY OMISSION OR DEVIATION FROM THE REQUIREMENTS OF STATE LAWS OR APPLICABLE LOCAL ORDINANCES . THIS APPROVAL IS LIMITED TO FACTORY-BUILT PORTION ONLY.

![](_page_66_Picture_6.jpeg)