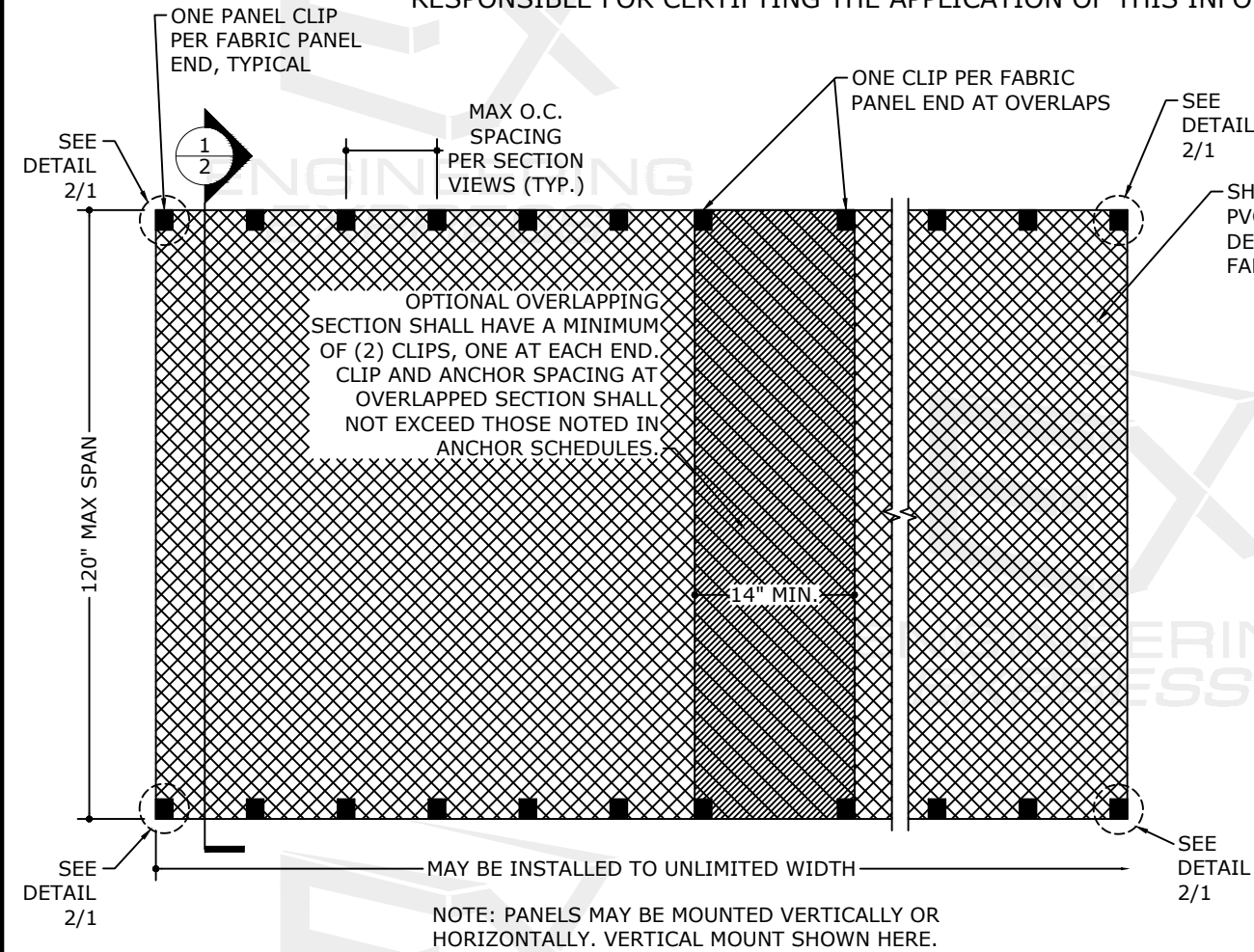
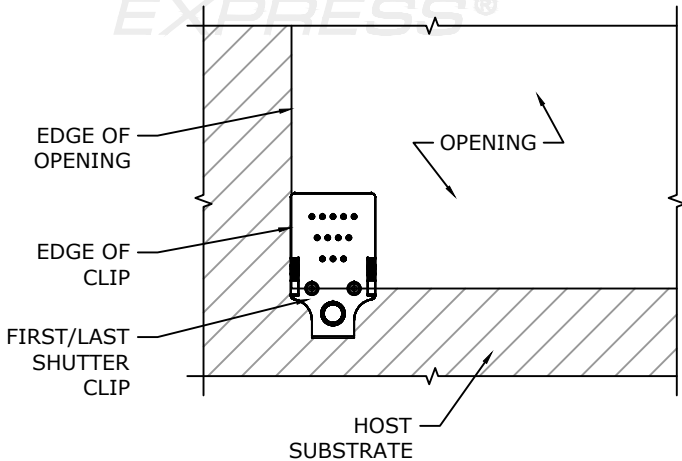


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1 TYPICAL PANEL INSTALLATION
1 N.T.S. EXTERIOR ELEV



2 TYPICAL PANEL INSTALLATION
1 N.T.S. SECTION VIEW

ALLOWABLE
DESIGN PRESSURES

+60 PSF
-60 PSF

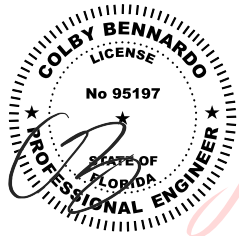
ALLOWABLE
DESIGN PRESSURES W/
STORM TRIM

+50 PSF
-50 PSF
(NON-HVHZ ONLY: SEE SHEET 7 FOR DETAILS)



NOTE REGARDING USE
OF THIS DOCUMENT & USE OUTSIDE FLORIDA:
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COLBY BENNARDO, PE
PE# 95197 CA# 9885



AUGUST 14, 2023
Digitally signed by
Colby Bennardo
Date: 2023.08.15
12:35:04 -04'00'

GENERAL NOTES

1. THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED AS A LEVEL D LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023) THE INTERNATIONAL BUILDING CODE (IBC) AND THE INTERNATIONAL RESIDENTIAL CODE (IRC), FOR USE INSIDE AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE PER ASTM E330, E1996 & E1886 AND TAS 201, 202 & 203 TESTING STANDARDS. SEE EVALUATION REPORT FOR MORE INFORMATION.
2. THESE INSTALLATION INSTRUCTIONS ARE PART OF A PRODUCT APPROVAL EVALUATION AND SHALL ONLY BE USED IN CONJUNCTION WITH THE EVALUATION REPORT SUBMITTED FOR THE SAME PRODUCT APPROVAL.
3. POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
4. FOR INSTALLATIONS OUTSIDE THE HVHZ, THIS SYSTEM HAS BEEN DESIGNED WITH NO SEPARATION FROM GLAZING REQUIRED FOR WIND ZONES 1-3, IN ACCORDANCE WITH ASTM E1996. IT IS ACCEPTABLE BY CODE UNLESS OPTIONAL CRITERIA IS INDEPENDENTLY ADOPTED BY THE AUTHORITY HAVING JURISDICTION.
5. DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
6. A DESIGN PROFESSIONAL SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
8. THIS SYSTEM IS INTENDED FOR USE ONLY DURING WIND STORM EVENTS. WHEN NOT IN USE, PRODUCT SHALL BE PROPERLY STORED AWAY FROM PROLONGED EXPOSURE TO DIRECT SUNLIGHT OR OTHER WEATHERING CONDITIONS.
9. MAXIMUM PANEL SPAN: 10'-0" (8'-1" W/ STORM TRIM)
10. MAXIMUM ALLOWABLE DESIGN PRESSURE: ± 60 PSF (± 50 PSF W/ STORM TRIM)
11. HURRICANE FABRIC PANELS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE.
12. THE CONTRACTOR IS RESPONSIBLE TO INSULATE ALL MEMBERS FROM DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS.
13. FASTENERS SHALL BE CADMIUM-PLATED OR OTHERWISE CORROSION-RESISTANT MATERIAL AND SHALL COMPLY WITH "SPECIFICATIONS FOR ALUMINUM STRUCTURES" SECTION J.3.7.2 BY THE ALUMINUM ASSOCIATION INC., AND ANY APPLICABLE FEDERAL, STATE AND OR LOCAL CODES.
14. REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
15. ENGINEER SEAL AFFIXED HERETO VALIDATE STRUCTURAL DESIGN AS SHOWN ONLY. USE OF THIS SPECIFICATION BY CONTRACTOR, et. al. INDEMNIFIES & SAVES HARMLESS THIS ENGINEER FOR ALL COST & DAMAGES INCLUDING LEGAL FEES & APPELATE FEES RESULTING FROM MATERIAL FABRICATION, SYSTEM ERECTION, & CONSTRUCTION PRACTICES BEYOND THAT WHICH IS CALLED FOR BY LOCAL, STATE & FEDERAL CODES & FROM DEVIATIONS OF THIS PLAN.
16. THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT.
17. PRESSURE VALUES ON THIS APPROVAL ARE (ASD) ALLOWABLE DESIGN PRESSURES.
18. ALTERATIONS ADDITIONS OR OTHER MARKINGS TO THIS DOCUMENT ARE NOT PERMITTED AND INVALIDATE THIS CERTIFICATION.
19. SAFEGUARDS MUST BE OBSERVED (NOT IN THIS CERTIFICATION).
20. UNITS SHALL BE LABELED IN ACCORDANCE WITH THE FLORIDA BUILDING COMMISSION AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATION.
21. EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.

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EYEWALL ARMOR FABRIC SHUTTER
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#17003.1)

REMARKS	DATE	DRWN	CHKD
2020 FBC (20-26197)	7/01/20	CCB	RWN
FBC 2023	8/14/23	MLD	CCB

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FLORIDA BUILDING CODE EIGHTH EDITION (2023)

FLORIDA STATEWIDE APPROVAL (FSCA E1 #7003.1)

[illegible]

OF 7

1 SHUTTER CLIP

HOST STRUCT.	ANCHOR TYPE	LOAD (psf)	1.25" MIN EDGE DISTANCE												
			Spans Up To 3'-6" CONN TYPE		Spans Up To 4'-6" CONN TYPE		Spans Up To 5'-7" CONN TYPE		Spans Up To 6'-6" CONN TYPE		Spans Up To 8'-6" CONN TYPE		Spans Up To 10'-0" CONN TYPE		
			C1	C2	C1	C2	C1	C2	C1	C2	C1	C2	C1	C2	
CONCRETE	1/4" EA MALE BOLT, 2-1/2" EMBED (2900 PSI CONC)	33	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.8"	11.0"	8.8"	9.1"
		38	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	9.8"	9.8"	8.0"	8.1"
		45	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.8"	8.7"	8.5"	7.1"	7.1"
		53	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.1"	10.3"	7.8"	7.5"	6.4"	6.2"
		60	12.0"	12.0"	12.0"	12.0"	12.0"	11.3"	10.2"	9.3"	7.1"	6.7"	5.8"	5.6"	

HOST STRUCT.	ANCHOR TYPE	LOAD (psf)	4" MIN EDGE DISTANCE											
			Spans Up To 3'-6" CONN TYPE		Spans Up To 4'-6" CONN TYPE		Spans Up To 5'-7" CONN TYPE		Spans Up To 6'-6" CONN TYPE		Spans Up To 8'-6" CONN TYPE		Spans Up To 10'-0" CONN TYPE	
			C1	C2	C1	C2	C1	C2	C1	C2	C1	C2	C1	C2
CONCRETE	1/4" DEWALT PANELMATE, INSERT, 1-5/8" EMBED (2700 PSI CONC)	33	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	9.7"	12.0"	8.0"
		38	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	8.7"	11.3"	7.2"
		45	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.7"	12.0"	7.7"	10.0"	6.3"
		53	12.0"	12.0"	12.0"	12.0"	12.0"	11.6"	12.0"	9.4"	10.8"	6.7"	8.9"	5.6"
		60	12.0"	12.0"	12.0"	12.0"	12.0"	10.5"	12.0"	8.5"	9.9"	6.1"	8.2"	5.1"

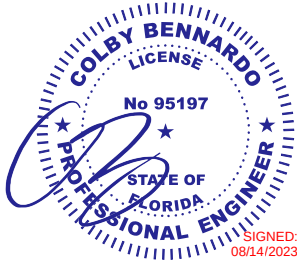
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ANCHOR SCHEDULES (CONT.):

HOST STRUCT.	ANCHOR TYPE	LOAD (psf)	2.5" MIN EDGE DISTANCE											
			Spans Up To 3'-6"		Spans Up To 4'-6"		Spans Up To 5'-7"		Spans Up To 6'-6"		Spans Up To 8'-6"		Spans Up To 10'-0"	
			CONN TYPE		CONN TYPE		CONN TYPE		CONN TYPE		CONN TYPE		CONN TYPE	
GROUT-FILLED BLOCK	5/16" DEWALT ULTRACON, 2-1/4" EMBED	33	12.0"	12.0"	12.0"	11.4"	12.0"	8.7"	12.0"	7.0"	11.6"		9.6"	
		38	12.0"	12.0"	12.0"	10.2"	12.0"	7.9"	12.0"	6.3"	10.4"		8.6"	
		45	12.0"	10.9"	12.0"	9.0"	12.0"	6.9"	12.0"	5.6"	9.1"		7.6"	
		53	12.0"	9.6"	12.0"	7.9"	12.0"	6.1"	11.2"		8.0"		6.7"	
		60	12.0"	8.7"	12.0"	7.2"	12.0"	5.5"	10.2"		7.3"		6.1"	
	1/4" DEWALT ULTRACON, 2-1/4" EMBED	33	12.0"	12.0"	12.0"	12.0"	12.0"	11.4"	12.0"	9.3"	8.8"	6.6"	7.3"	5.5"
		38	12.0"	12.0"	12.0"	12.0"	12.0"	10.2"	11.4"	8.3"	8.0"	5.9"	6.6"	4.9"
		45	12.0"	12.0"	12.0"	11.5"	12.0"	8.9"	10.1"	7.2"	7.1"	5.2"	5.8"	
		53	12.0"	12.0"	12.0"	10.1"	11.3"	7.8"	9.0"	6.4"	6.3"	4.6"	5.2"	
		60	12.0"	11.2"	12.0"	9.1"	10.4"	7.1"	8.2"	5.8"	5.8"		4.8"	
	1/4" ITW TAPCON SG, 1-3/4" EMBED	33	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	9.9"
		38	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.8"	10.9"	8.9"	
		45	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.9"	9.4"	9.7"	7.8"
		53	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.5"	10.6"	8.3"	8.7"	6.9"
		60	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.4"	9.7"	7.5"	8.0"	6.2"	
	1/4" ITW SAMMYS SSC, 2-1/2" EMBED	33	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	9.6"	9.9"	7.9"	8.2"
		38	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	8.7"	8.8"	7.2"	7.3"
		45	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.1"	10.6"	7.8"	7.7"	6.4"	6.4"
		53	12.0"	12.0"	12.0"	12.0"	12.0"	11.3"	10.0"	9.3"	6.9"	6.7"	5.7"	5.6"
		60	12.0"	12.0"	12.0"	12.0"	11.6"	10.2"	9.1"	8.4"	6.4"	6.1"	5.2"	5.1"
	1/4" DEWALT PANELMATE INSERT, 1-1/2" EMBED	3.5" MIN EDGE DISTANCE												
		33	12.0"	12.0"	12.0"	12.0"	12.0"	10.1"	12.0"	8.1"	12.0"	5.7"	11.2"	4.7"
		38	12.0"	12.0"	12.0"	11.7"	12.0"	9.0"	12.0"	7.3"	12.0"	5.2"	10.1"	4.3"
		45	12.0"	12.0"	12.0"	10.3"	12.0"	7.9"	12.0"	6.4"	10.7"	4.6"	8.8"	
		53	12.0"	11.0"	12.0"	9.1"	12.0"	7.0"	12.0"	5.6"	9.4"	4.0"	7.8"	
		60	12.0"	10.0"	12.0"	8.2"	12.0"	6.4"	11.9"	5.1"	8.5"		7.1"	

HOST STRUCT.	ANCHOR TYPE	LOAD (psf)	1.25" MIN EDGE DISTANCE											
			Spans Up To 3'-6"		Spans Up To 4'-6"		Spans Up To 5'-7"		Spans Up To 6'-6"		Spans Up To 8'-6"		Spans Up To 10'-0"	
			CONN TYPE		CONN TYPE		CONN TYPE		CONN TYPE		CONN TYPE		CONN TYPE	
GROUT-FILLED BLOCK	1/4" EA MALE BOLT, 2-1/4" EMBED	33	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	9.8"	9.7"	7.0"	7.9"	5.8"
		38	12.0"	12.0"	12.0"	12.0"	12.0"	10.9"	12.0"	8.8"	8.7"	6.3"	7.2"	5.2"
		45	12.0"	12.0"	12.0"	12.0"	12.0"	9.5"	11.0"	7.7"	7.8"	5.5"	6.4"	4.6"
		53	12.0"	12.0"	12.0"	10.7"	12.0"	8.3"	9.8"	6.8"	6.9"	4.9"	5.7"	4.0"
		60	12.0"	11.9"	12.0"	9.7"	11.3"	7.5"	9.0"	6.1"	6.3"	4.4"	5.2"	3.7"
	1/4" EA MALE BOLT, 2-1/2" EMBED	33	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.1"	12.0"	11.1"	7.2"	9.1"	5.9"
		38	12.0"	12.0"	12.0"	12.0"	12.0"	11.2"	12.0"	9.0"	10.1"	6.4"	8.3"	5.3"
		45	12.0"	12.0"	12.0"	12.0"	12.0"	9.8"	12.0"	7.9"	8.9"	5.7"	7.3"	4.7"
		53	12.0"	12.0"	12.0"	11.1"	12.0"	8.6"	11.2"	7.0"	7.9"	5.0"	6.5"	4.1"
		60	12.0"	12.0"	12.0"	10.0"	12.0"	7.8"	10.2"	6.3"	7.2"	4.5"	6.0"	3.7"

ANCHOR NOTES: SEE SHEET
3 FOR ANCHOR NOTES.

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FLORIDA STATEWIDE APPROVAL (FSA FL#17003.1)

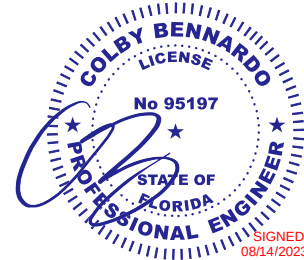
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FBC 2023	MLD	CCB	8/14/23

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HOST STRUCT.	ANCHOR TYPE	LOAD (psf)	1.25" MIN EDGE DISTANCE											
			Spans Up To 3'-6"		Spans Up To 4'-6"		Spans Up To 5'-7"		Spans Up To 6'-6"		Spans Up To 8'-6"		Spans Up To 10'-0"	
			CONN TYPE C1	C2	CONN TYPE C1	C2	CONN TYPE C1	C2	CONN TYPE C1	C2	CONN TYPE C1	C2	CONN TYPE C1	C2
HOLLOW BLOCK	1/4" EA MALE BOLT, 1-1/4" EMBED	33	12.0"	12.0"	12.0"	12.0"	12.0"	10.5"	12.0"	8.4"	9.4"	6.0"	7.8"	5.0"
		38	12.0"	12.0"	12.0"	12.0"	12.0"	9.4"	12.0"	7.6"	8.5"	5.4"	7.0"	4.5"
		45	12.0"	12.0"	12.0"	10.6"	12.0"	8.2"	10.7"	6.6"	7.6"	4.8"	6.2"	3.9"
		53	12.0"	11.4"	12.0"	9.3"	11.9"	7.2"	9.5"	5.8"	6.7"	4.2"	5.5"	N/A
		60	12.0"	10.3"	12.0"	8.4"	10.9"	6.5"	8.7"	5.3"	6.1"	3.8"	5.1"	N/A

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FLORIDA STATEWIDE APPROVAL (FSA FL#17003.1)

REMARKS	DRWN	CHKD	DATE
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*	*	*	*
*	*	*	*
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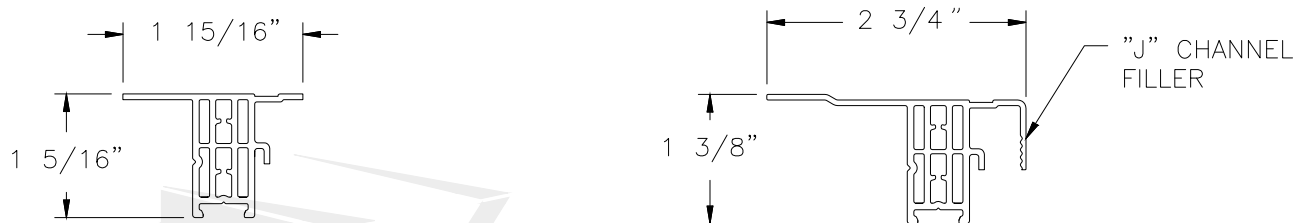
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6

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2 STORM TRIM PLUS
NTS
PVC 0.060" THICK

3 STORM TRIM PLUS "J" CHANNEL
NTS
PVC 0.060" THICK

4 STORM TRIM PLUS LEGS REMOVED
NTS
PVC 0.060" THICK

COLBY BENNARDO, PE
PE# 95197 CA# 9885

SPACE RESERVED FOR DIGITAL SEAL INFORMATION

WHEN DIGITALLY SEALED, THIS NOTE SHALL BE FULLY COVERED ON SHEET 1

WHEN PRINTED OR PHYSICALLY SEALED, SEAL OF CERTIFYING ENGINEER, AND DATE OF CERTIFICATION SHALL BE SHOWN TO THE RIGHT.

IN ALL CASES, CERTIFYING ENGINEER AND CERT OF AUTH AS LISTED ON STAMP

AUGUST 14, 2023

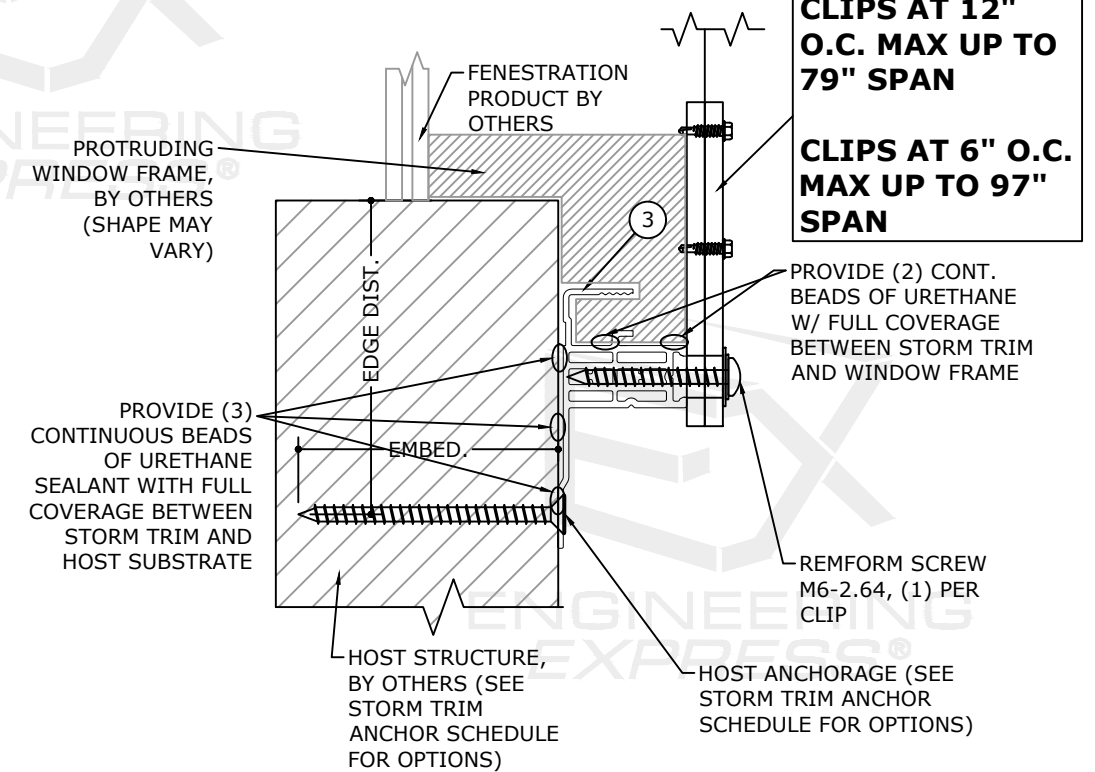
COLBY BENNARDO
LICENSE
No 95197
STATE OF FLORIDA
PROFESSIONAL ENGINEER
SIGNED: 08/14/2023

STORM TRIM ANCHOR SCHEDULE:

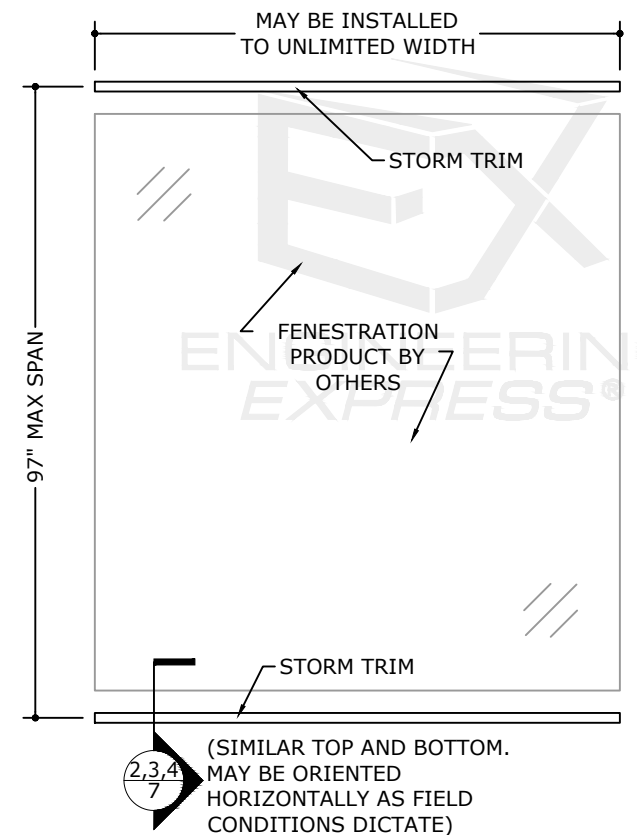
HOST STRUCTURE	ANCHOR TYPE	LOAD (psf)	Spans Up To 4'-6"	Spans Up To 6'-2"	Spans Up To 8'-1"
CONCRETE (3KSI MIN.)	3/16" DEWALT ULTRACON, 1-3/4" EMBED, 2-1/2" EDGE DIST.	35	9.5"	7.4"	4.6"
		50	6.8"	5.3"	
	3/16" ITW TAPCON, 1-3/4" EMBED, 2-1/4" EDGE DIST.	35	10.4"	8.1"	5.0"
		50	7.4"	5.8"	
	1/4" DEWALT ULTRACON, 1-3/4" EMBED, 2-1/2" EDGE DIST.	35	12.0"	12.0"	8.9"
		50	12.0"	10.3"	6.4"
GROUT-FILLED BLOCK	1/4" ITW TAPCON, 1-3/4" EMBED, 2-1/4" EDGE DIST.	35	12.0"	12.0"	8.4"
		50	12.0"	9.7"	6.0"
	3/16" DEWALT ULTRACON, 1-3/4" EMBED, 2-1/2" EDGE DIST.	35	8.3"	6.4"	
		50	6.0"	4.6"	
	1/4" DEWALT ULTRACON, 2-1/4" EMBED, 2-1/2" EDGE DIST.	35	12.0"	9.5"	5.9"
		50	8.8"	6.8"	
WOOD (G = 0.55 MIN.)	#10 WOOD SCREW, 1-3/4" THREAD PEN., 1-1/2" EDGE DIST.	35	12.0"	9.7"	6.0"
		50	8.9"	6.9"	4.3"
	#14 WOOD SCREW, 1-3/4" THREAD PEN., 1-1/2" EDGE DIST.	35	12.0"	12.0"	9.3"
		50	12.0"	10.7"	6.7"
	#10 WOOD SCREW, 1-3/4" THREAD PEN., 1-1/2" EDGE DIST.	35	8.3"	6.5"	4.0"
		50	6.0"	4.6"	2.9"
WOOD (G = 0.42 MIN.)	#14 WOOD SCREW, 1-3/4" THREAD PEN., 1-1/2" EDGE DIST.	35	12.0"	10.7"	6.6"
		50	9.8"	7.6"	4.7"

NON-HVHZ ONLY

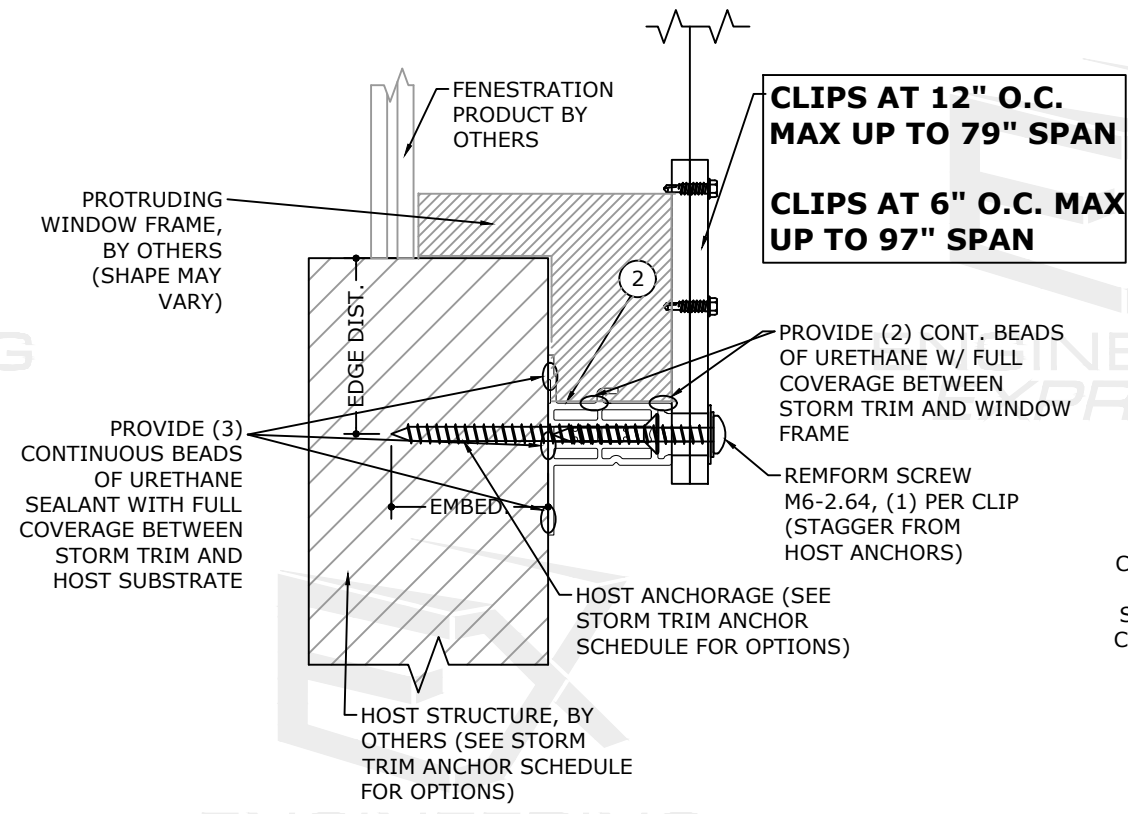
ANCHOR NOTES: SEE SHEET 3 FOR ANCHOR NOTES.



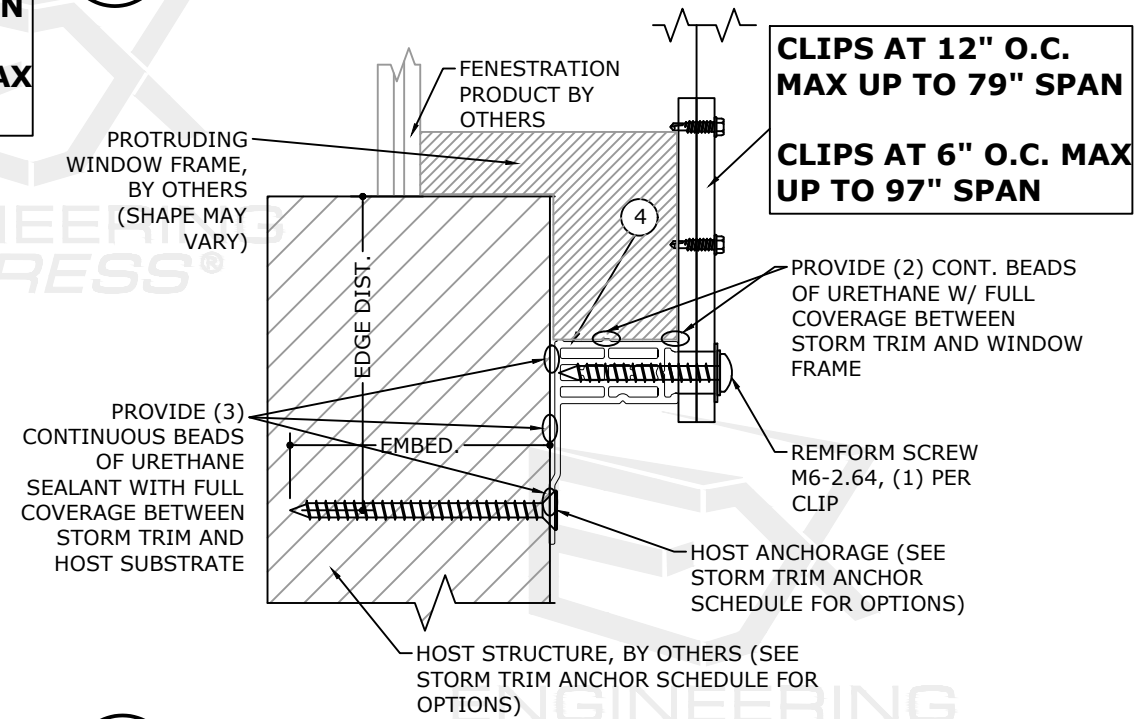
3 STORM TRIM PLUS "J" CHANNEL MOUNT
NTS
SECTION VIEW



1 STORM TRIM MOUNT
NTS
ELEV VIEW



2 STORM TRIM PLUS MOUNT
NTS
SECTION VIEW



4 STORM TRIM PLUS LEGS REMOVED MOUNT
NTS
SECTION VIEW

FL 17003.1

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EYEWALL ARMOR FABRIC SHUTTER
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#17003.1)

DATE	7/01/20								
DRWN	CCB	RWN	MLD	CCB					
CHKD									
REMARKS	2020 FBC (20-26197)								
FBC 2023									

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23-61146

SCALE: NTS UNLESS NOTED

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