

TOWN & COUNTRY INDUSTRIES

COLONIAL SHUTTER (HVHZ) - PATENT #8126298

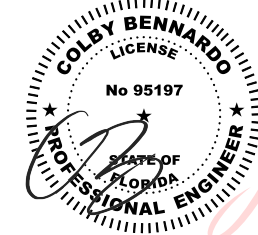
IMPACT / NON-IMPACT - HVHZ

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. A DESIGN PROFESSIONAL SHALL BE RESPONSIBLE FOR CERTIFYING THE APPLICATION OF THIS INFORMATION TO ANY SITE-SPECIFIC LOCATION.

NOTE REGARDING USE OF THIS DOCUMENT & USE OUTSIDE FLORIDA:

NON-SITE-SPECIFIC STRUCTURAL PERFORMANCE EVALUATION. THIS PRODUCT EVALUATION IS VALID FOR USE IN **FLORIDA ONLY**. USE OF THIS EVALUATION REQUIRES A REVIEW & CERTIFICATION BY A LOCAL DESIGN PROFESSIONAL WHO SHALL BE RESPONSIBLE FOR THE PROPER ADAPTATION OF THIS GENERAL PERFORMANCE EVALUATION TO ANY SITE-SPECIFIC PROJECT. CONTACT THIS OFFICE AT ENGINEERINGEXPRESS@TOWNCOUNTRYINDUSTRIES.COM FOR ASSISTANCE WITH YOUR PROJECT-SPECIFIC NEEDS & FOR ADAPTATION & CERTIFICATION OF THIS DOCUMENT OUTSIDE OF FLORIDA.

COLBY BENNARDO, PE
PE# 95197 CA# 9885



Digitally signed by
Colby Bennardo
Date: 2025.06.23
12:20:32 -04'00'

GENERAL NOTES:

- 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.
- THIS SYSTEM HAS BEEN TESTED AND EVALUATED AS A LEVEL D LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE FLORIDA BUILDING CODE EIGHTH EDITION (2023), FOR USE INSIDE THE HIGH VELOCITY HURRICANE ZONE, AND THE INTERNATIONAL BUILDING CODE (IBC) AND INTERNATIONAL RESIDENTIAL CODE (IRC). SEE EVALUATION FOR MORE INFORMATION.
- 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.
- TESTING WAS CONDUCTED IN ACCORDANCE WITH TAS 201/202/203 AND ASTM E1886/E1996/E330. SEE EVALUATION REPORT FOR MORE INFORMATION.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THESE PRODUCTS. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD ANCHOR DESIGN.
- DETERMINE THE POSITIVE AND NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH ASCE 7, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ SHALL BE USED.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
- ANCHORS SHALL BE INSTALLED PER MANUFACTURER RECOMMENDATIONS. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
- USE OF THESE APPROVAL DOCUMENTS SHALL COMPLY WITH CHAPTER 61G15-23 OF THE FLORIDA ADMINISTRATIVE CODE.
- THESE APPROVAL DOCUMENTS ARE SUITABLE TO BE APPLIED BY THE CONTRACTOR PROVIDED THE CONTRACTOR DOES NOT DEVIATE FROM THE CONDITIONS DETAILED HEREIN AND THE CONTRACTOR VERIFIES THAT THE EXISTING STRUCTURE DOES NOT DEVIATE IN EITHER FORM OR MATERIAL FROM THE STRUCTURAL SUBSTRATES DETAILED HEREIN.
- ANY MODIFICATIONS OR ADDITIONS TO THESE APPROVAL DOCUMENTS WILL VOID THE APPROVAL DOCUMENTS.
- EACH SHUTTER ASSEMBLY SHALL BE PERMANENTLY LABELED WITH THE SPECIFICATIONS LISTED BY THE FLORIDA DBPR.
- ALL EXTRUSIONS SHOWN SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N., WITH A MINIMUM F_y OF 25 K.S.I.
- ALL BOLTS AND WASHERS (EXCLUDING INSTALLATION) SHALL BE STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N. POP RIVETS SHALL BE $1/4"$ Ø OR $3/16"$ Ø 5052 ALUM. ALLOY.
- REFER TO FASTENER MANUFACTURER'S PUBLISHED DATA SHEETS AND RECOMMENDATIONS FOR FASTENER INSTALLATION INSTRUCTIONS.
- MAXIMUM ALLOWABLE DESIGN PRESSURE IN CLOSED POSITION PROVIDING WIND LOAD & IMPACT RESISTANCE = **+69.3/-79.5 PSF** FOR ALL NON-SLIDING PANEL WITH TRACK CONFIGURATIONS. MAXIMUM ALLOWABLE DESIGN PRESSURE IN CLOSED POSITION FOR ALL SLIDING PANEL TRACK CONFIGURATIONS = **+57.2/-66.2 PSF**.
- MAXIMUM ALLOWABLE DESIGN PRESSURE IN OPEN POSITION = **+/- 28 PSF**
- SHUTTER ASSEMBLY MUST BE CLOSED AND SECURED AND SHALL NOT BE LEFT IN THE OPEN POSITION IN THE EVENT OF A WIND STORM EVENT.
- ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.
- 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 & APPELLATE 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.

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Town & Country INDUSTRIES
Wholesale Aluminum and Building Products
400 WEST MCNAB ROAD, FT. LAUDERDALE, FL 33309
COLONIAL SHUTTER
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16219.2)

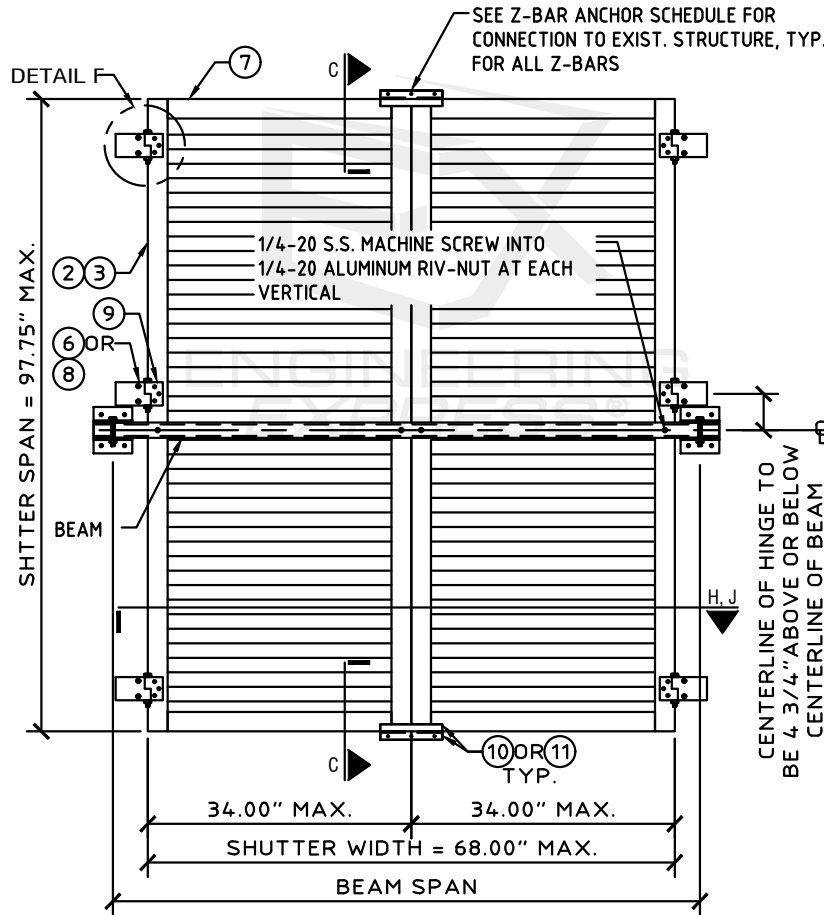
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FBC 2020 (20-26193)	7/01/20	CCB	RWN
FBC 2023 (23-64831)	8/21/23	MLD	CCB
JAMB UPDATE 2025 (23-64832)	6/23/25	CCB	CCB

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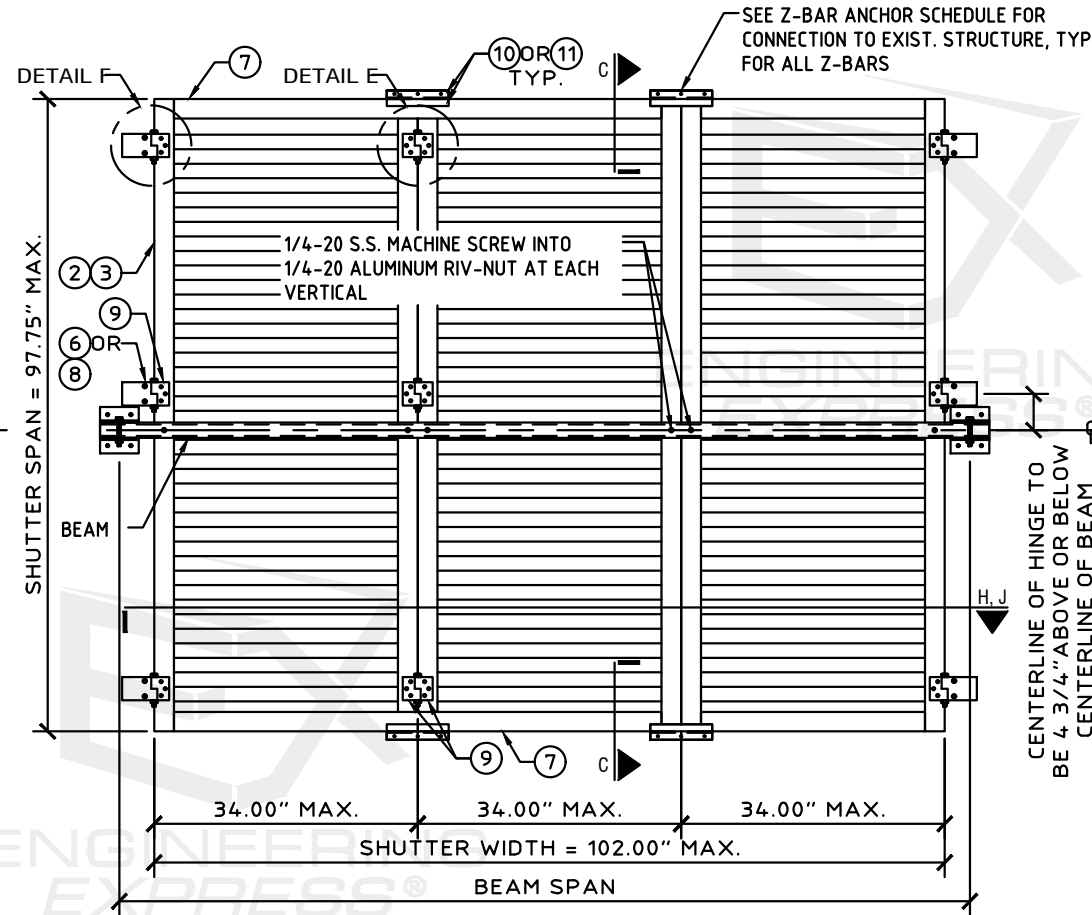
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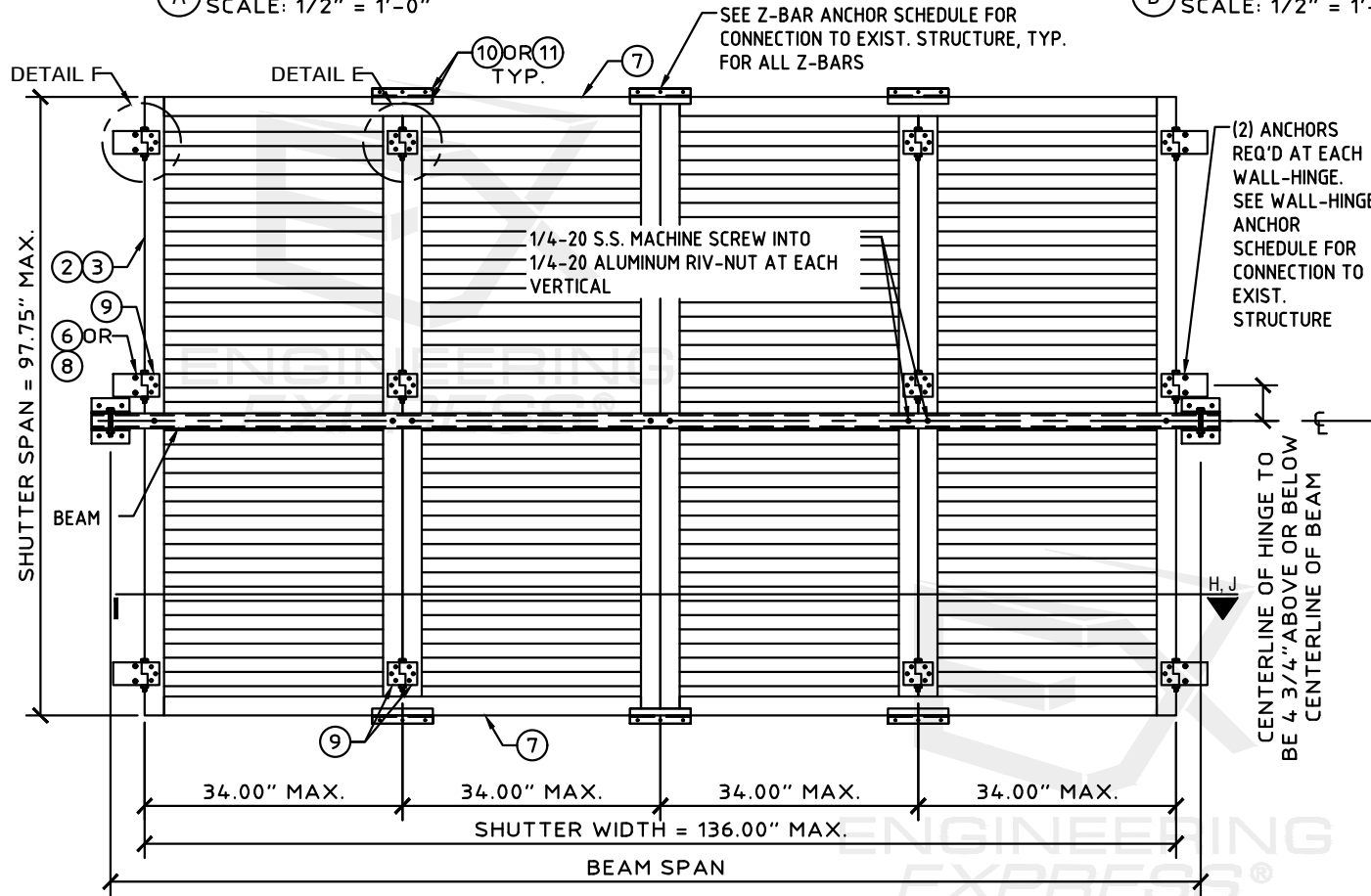
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(A) TYPICAL ELEVATION 2 PANEL
SCALE: 1/2" = 1'-0"



(B) TYPICAL ELEVATION 3 PANEL
SCALE: 1/2" = 1'-0"

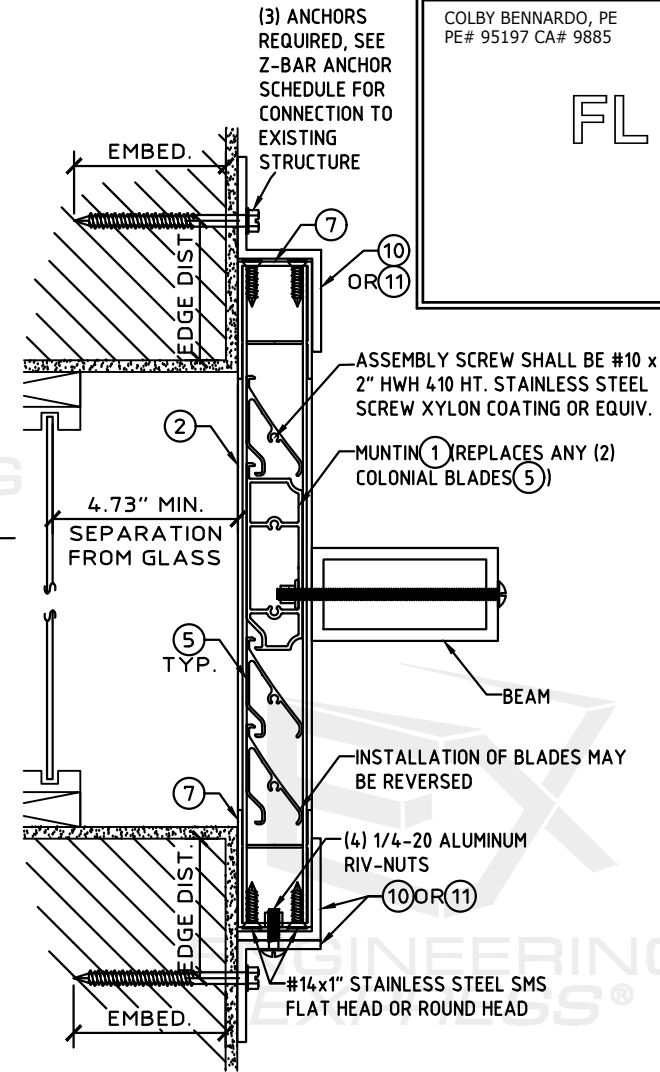


(D) TYPICAL ELEVATION 4 PANELS MAX.
SCALE: 1/2" = 1'-0"

BEAM SCHEDULE

BEAM SIZE	ALUMINUM ALLOY	SHUTTER SPAN	BEAM SPAN (+/- 79.5 PSF MAX)	WALL BRACKET ANCHOR TYPES (+69.3/-79.5 PSF MAX)		
				CONCRETE	HOLLOW BLOCK	WOOD (G=0.42 MIN)
2"x3"x1/8"	6063-T6	8'-1.75"	5' 6"	A,B,C,D,E	A,C,E	B,C
		6'-8"	6' 1"	A,B,C,D,E	A,B,C,E	B,C
		5'-10"	6' 6"	A,B,C,D,E	A,B,C,E	B,C
2"x4"x1/8"	6063-T6	8'-1.75"	6' 9"	A,B,C,D,E	A,C,	B,C
		6'-8"	7' 5"	A,B,C,D,E	A,C,	B,C
		5'-10"	8' 0"	A,B,C,D,E	A,C,	B,C
2"x5"x1/8"	6063-T6	8'-1.75"	8' 0"	A,B,C,D,E	A,C,	
		6'-8"	8' 10"	A,B,C,D,E	A,C,	B,C
		5'-10"	9' 5"	A,B,C,D,E	A,C,	B,C
2"x4"x1/4"	6061-T6	8'-1.75"	10' 5"	A,B,C,D,E		
		6'-8"	11' 6"	A,B,C,D,E	A,C,	
		5'-10"	12' 4"	A,B,C,D,E	A,C,	

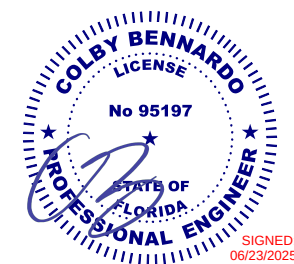
- **TYPE A:** 1/4-20 ALL POINT SOLID SET ANCHORS:
- IN CONCRETE (3.35KSI MIN) WITH 7/8" MIN EMBED., 3" MIN EDGE DIST. AND 3" MIN SPACING
- IN HOLLOW CONCRETE BLOCK WITH 7/8" MIN EMBED., 3" MIN EDGE DIST. AND 3" MIN SPACING
- **TYPE B:** 1/2" EYEWALL ARMOR MALE/FEMALE BOLT OR 1/4-20 DEWALT PANELMATES (MALE/FEMALE):
- IN CONCRETE (3.35KSI MIN) WITH 1 1/4" MIN EMBED., 2 1/2" MIN EDGE DIST. AND 3" MIN SPACING
- IN HOLLOW CONCRETE BLOCK WITH 1 1/4" MIN EMBED., 2" MIN EDGE DIST. AND 3" MIN SPACING
- IN WOOD (G=0.42 MIN) WITH 1 1/2" MIN EMBED., 3/4" MIN EDGE DIST. AND 1 1/2" MIN SPACING
- **TYPE C:** 3/4" ITW TAPCON SG:
- IN CONCRETE (3.35KSI MIN) WITH 1 3/4" MIN EMBED., 2 1/2" MIN EDGE DIST. AND 3" MIN SPACING
- IN HOLLOW CONCRETE BLOCK WITH 1 3/4" MIN EMBED., 2" MIN EDGE DIST. AND 3" MIN SPACING
- IN WOOD (G=0.42 MIN) WITH 1 3/4" MIN EMBED., 3/4" MIN EDGE DIST. AND 1 1/2" MIN SPACING
- **TYPE D:** 3/4" MILLENIUM MILLFAST (W/ T&C ULTRACOTE):
- IN CONCRETE (3.275KSI MIN) WITH 1 3/4" EMBED., 2 1/2" EDGE DIST., AND 4" MIN SPACING
- IN HOLLOW CONCRETE BLOCK WITH 1 3/4" EMBED., 2 1/2" MIN EDGE DIST. AND 4" MIN SPACING
- **TYPE E:** #12 SMS W/ 2" EYEWALL ARMOR NYLON INSERT:
- IN CONCRETE (2KSI MIN) WITH 2" EMBED., 2" EDGE DIST. AND 3" MIN SPACING
- IN HOLLOW CONCRETE BLOCK WITH 1 1/4" EMBED., 2" EDGE DIST. AND 3" MIN SPACING



(C) TYPICAL PANEL SECTION
SCALE: 3" = 1'-0"

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Wholesale Aluminum and Building Products
A Division of AEC Supply Co., Inc.

400 WEST MCNAB ROAD, FT. LAUDERDALE, FL 33309
COLONIAL SHUTTER
FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16219.2)

REMARKS	DRWN	CHKD	DATE
FBC 2020 (20-26193)	CCB	RWN	7/01/20
FBC 2023 (23-64831)	MLD	CCB	8/21/23
JAMB UPDATE 2025 (23-64832)	CCB	CCB	6/23/25
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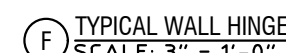
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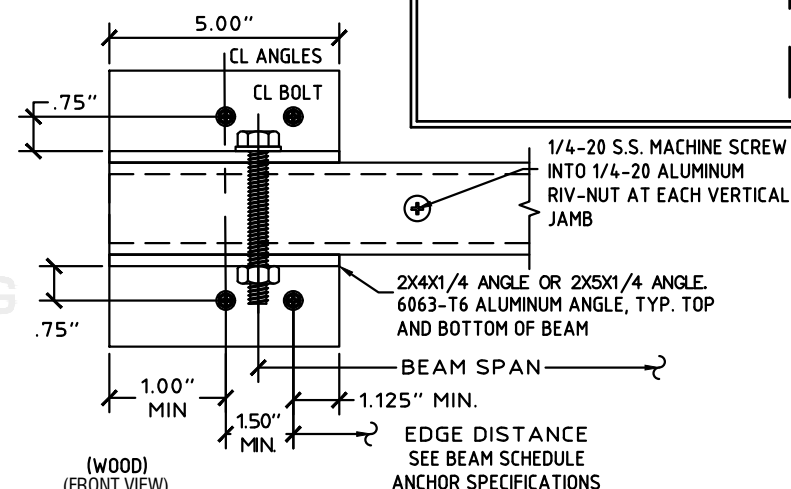
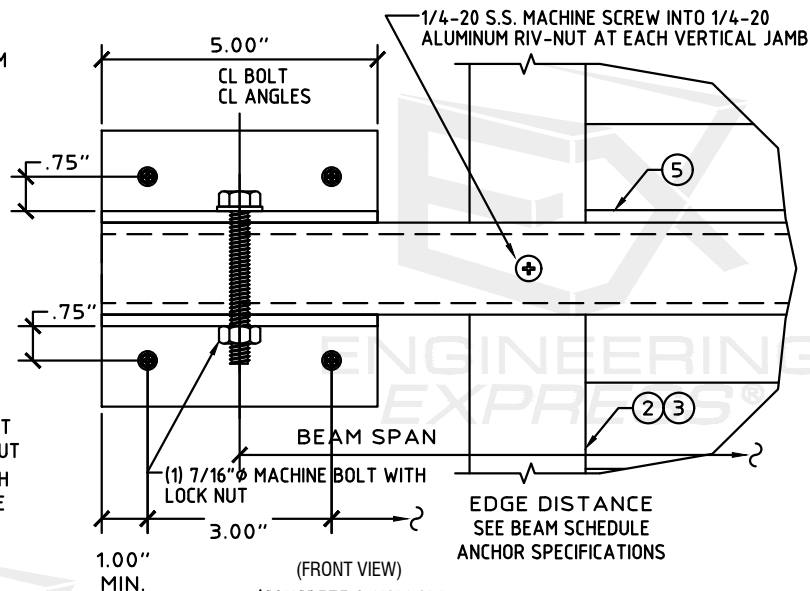
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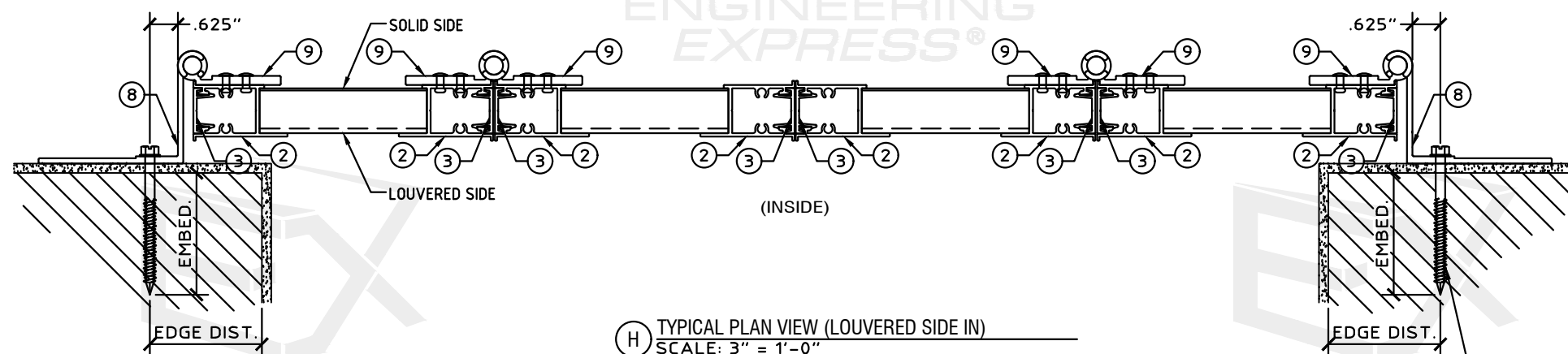


TYPICAL WALL BRACKET CONNECTION DETAIL
SCALE: 3" = 1'-0"



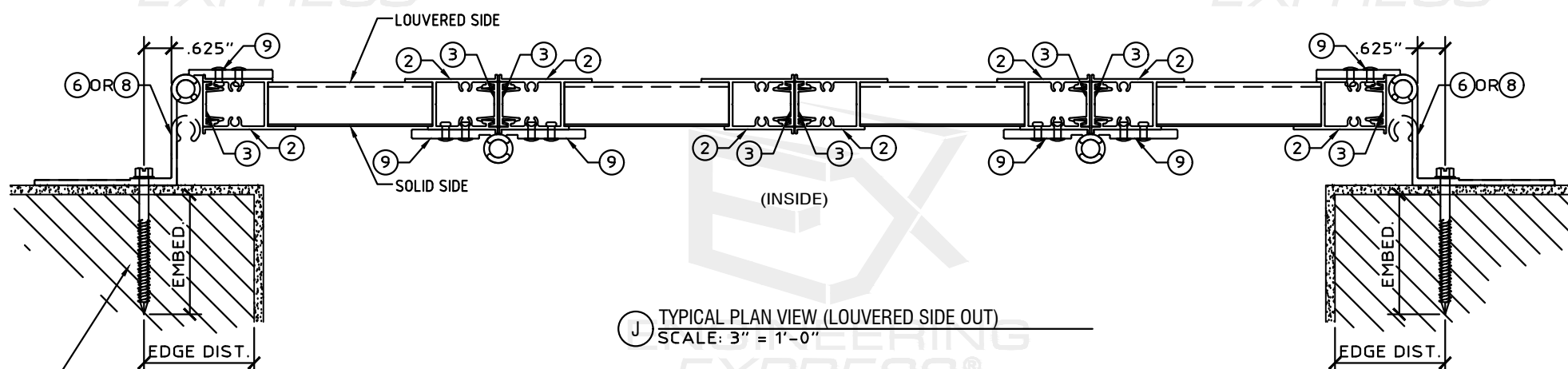
MANUF.	DIAMETER	DESCRIPTION	MIN. EDGE DISTANCE	MIN. EMBED.	MIN. SPACING
CONCRETE (MIN. f'c = 3350 PSI)					
DEWALT	1/4 IN.	STAINLESS STEEL PANELMATE	2.50 IN	2.00 IN	3.00 IN
DEWALT	1/4 IN.	MALE PANELMATE (or P..PRO)	2.50 IN	2.00 IN	3.00 IN
DEWALT	1/4 IN.	FEMALE PANELMATE	2.50 IN	1.75 IN	3.00 IN
EYEWALL ARMOR	1/4 IN.	MALE/FEMALE BOLT	2.50 IN	1.75 IN	3.00 IN
ITW	1/4 IN.	TAPCON SG	2.50 IN	1.75 IN	3.00 IN
ALL-POINTS	1/4 IN.	SOLID-SET ANCHOR	2.00 IN	0.875 IN	3.00 IN
MILLENNIUM	1/4 IN.	MILLFAST	2.50 IN	1.75 IN	3.00 IN
HOLLOW CONCRETE BLOCK					
DEWALT	1/4 IN.	STAINLESS STEEL PANELMATE	2.00 IN	1.25 IN	3.00 IN
DEWALT	1/4 IN.	MALE PANELMATE (or P..PRO)	2.00 IN	1.25 IN	3.00 IN
DEWALT	1/4 IN.	FEMALE PANELMATE	2.00 IN	1.25 IN	3.00 IN
EYEWALL ARMOR	1/4 IN.	MALE/FEMALE BOLT	2.50 IN	1.25 IN	3.00 IN
ITW	1/4 IN.	TAPCON SG	2.50 IN	1.25 IN	3.00 IN
ALL-POINTS	1/4 IN.	SOLID-SET ANCHOR	2.50 IN	0.875 IN	3.00 IN
MILLENNIUM	1/4 IN.	MILLFAST	2.50 IN	1.25 IN	3.00 IN
WOOD (SOUTHERN YELLOW PINE, G=0.54)					
DEWALT	1/4 IN.	STAINLESS STEEL PANELMATE	0.75 IN	1.875 IN	3.00 IN
DEWALT	1/4 IN.	MALE PANELMATE (or P..PRO)	0.75 IN	1.875 IN	3.00 IN
DEWALT	1/4 IN.	FEMALE PANELMATE	0.75 IN	1.875 IN	3.00 IN
EYEWALL ARMOR	1/4 IN.	MALE/FEMALE BOLT	0.75 IN	1.50 IN	3.00 IN
ITW	1/4 IN.	TAPCON SG	0.75 IN	1.50 IN	3.00 IN
	1/4 IN.	S.S. HANGER BOLT	0.75 IN	1.25 IN	1.50 IN
WOOD (SPRUCE-PINE-FIR (SPF), G=0.42)					
	1/4 IN.	S.S. HANGER BOLT	0.75 IN	1.25 IN	1.50 IN

MANUF.	DIAMETER	DESCRIPTION	MIN. EDGE DISTANCE	MIN. EMBED.	MIN. SPACING
CONCRETE (MIN. $f'_c = 3192$ PSI)					
ITW	1/4 IN.	SS TAPCON	2.50 IN	1.00 IN	2.00 IN
ITW	5/16 IN.	TAPCON XL	2.1875 IN	1.75 IN	2.00 IN
HOLLOW CONCRETE BLOCK					
DEWALT	1/4 IN.	ULTRACON	2.50 IN	1.25 IN	2.00 IN
ITW	5/16 IN.	TAPCON XL	2.1875 IN	1.75 IN	2.00 IN
WOOD (G = 0.42 MIN)					
	#14	SMS OR WOOD SCREW	0.75 IN	1.50 IN	1.50 IN
	1/4 IN.	LAG SCREW	0.75 IN	1.25 IN	1.50 IN



(H) TYPICAL PLAN VIEW (LOUVERED SIDE IN)
SCALE: 3" = 1'-0"

(2) ANCHORS REQ'D AT EACH WALL-HINGE.
SEE WALL-HINGE ANCHOR SCHEDULE FOR
CONNECTION TO EXIST. STRUCTURE



(J) TYPICAL PLAN VIEW (LOUVERED SIDE OUT)
 SCALE: 3" = 1'-0"

— (2) ANCHORS REQ'D AT EACH WALL-HINGE. SEE WALL-HINGE ANCHOR SCHEDULE FOR CONNECTION TO EXIST. STRUCTURE

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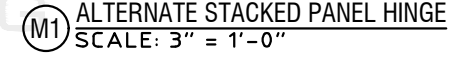
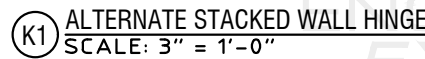
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 COLONIAL SHUTTER
 FLORIDA BUILDING CODE EIGHTH EDITION (2023)
 FLORIDA STATEWIDE APPROVAL (FSA FL # 6219 2)

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(K1) ALTERNATE STACKED WALL HINGE
SCALE: 3" = 1'-0"

(M1) ALTERNATE STACKED PANEL HINGE
SCALE: 3" = 1'-0"



(R) PLAN VIEW 1
SCALE: 1-1/2" = 1'-0"



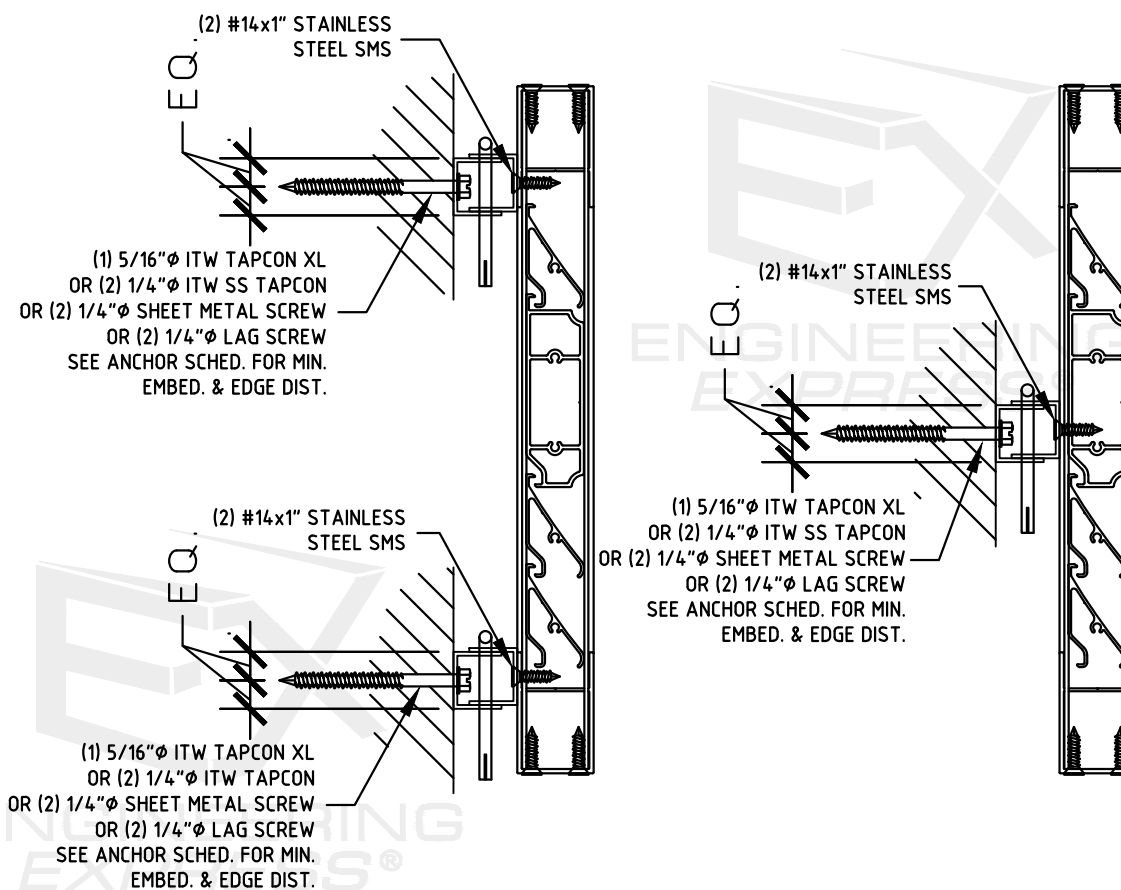
TO 2899 PSI MIN. CONCRETE:
 • (1) 5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 2" MIN. EDGE DISTANCE.

TO 3192 PSI MIN. CONCRETE:
 • (2) 1/4" ITW SS TAPCON W/ 1-3/4" MIN. EMBEDMENT AND 1" MIN. EDGE DISTANCE.

TO HOLLOW CONCRETE BLOCK:
 • (1) 5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 4" MIN. EDGE DISTANCE.

TO G=0.42 MIN. WOOD HOST STRUCTURE:

- (2) 1/4" WOOD SCREWS OR SHEET METAL SCREWS W/ 1-3/4" MIN. THREAD PENETRATION AND 3/4" MIN. EDGE DISTANCE.
- (2) 1/4" LAG SCREWS W/ 1-1/2" MIN. THREAD PENETRATION AND 3/4" MIN. EDGE DISTANCE.



(DOUBLE "C" CLIP)

(SINGLE "C" CLIP)

NOTE:
CLIPS REQ'D TOP & BOTTOM FOR SPANS > 69". ONE CLIP REQ'D AT MID-SPAN ($\pm 3"$) FOR SPANS $\leq 69"$.

(S) **PLAN VIEW 2**
SCALE: 1-1/2" = 1'-0"

⑦ OPEN POSITION LOCK
SCALE: 3" = 1'-0"

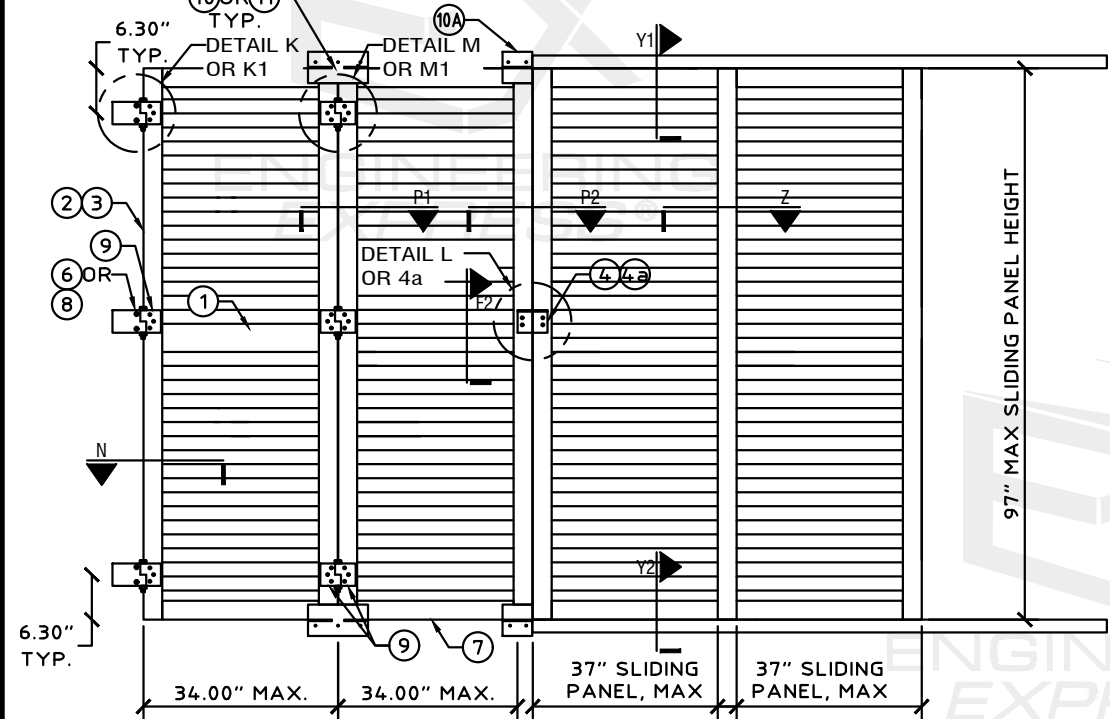
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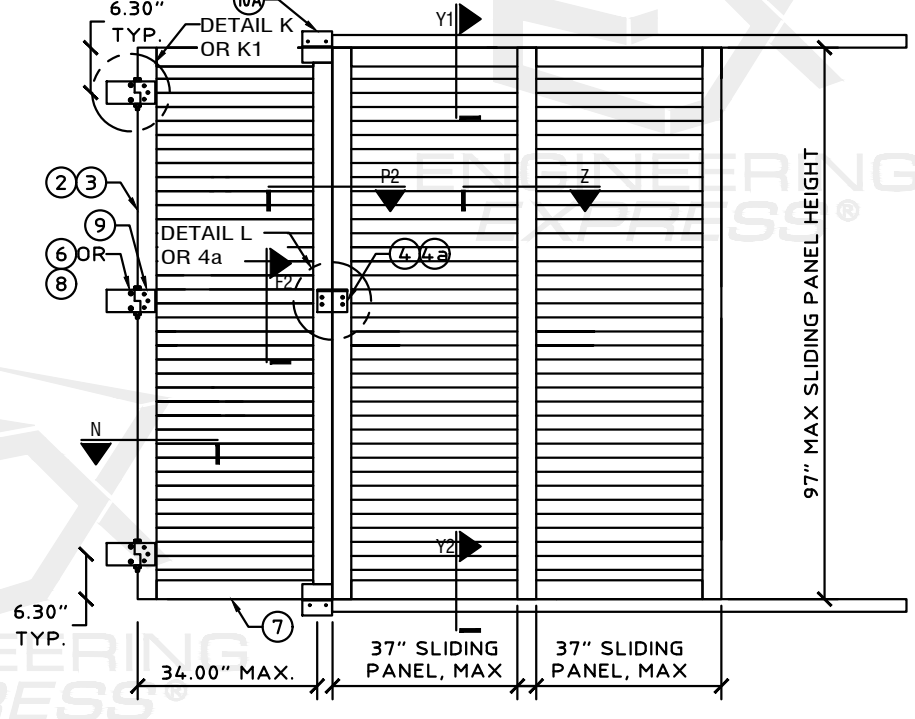
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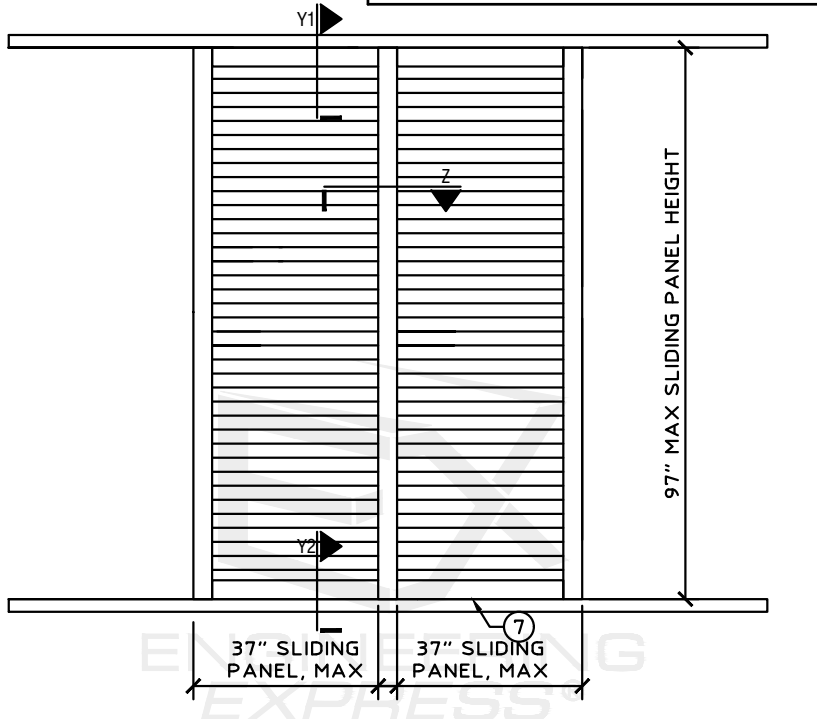
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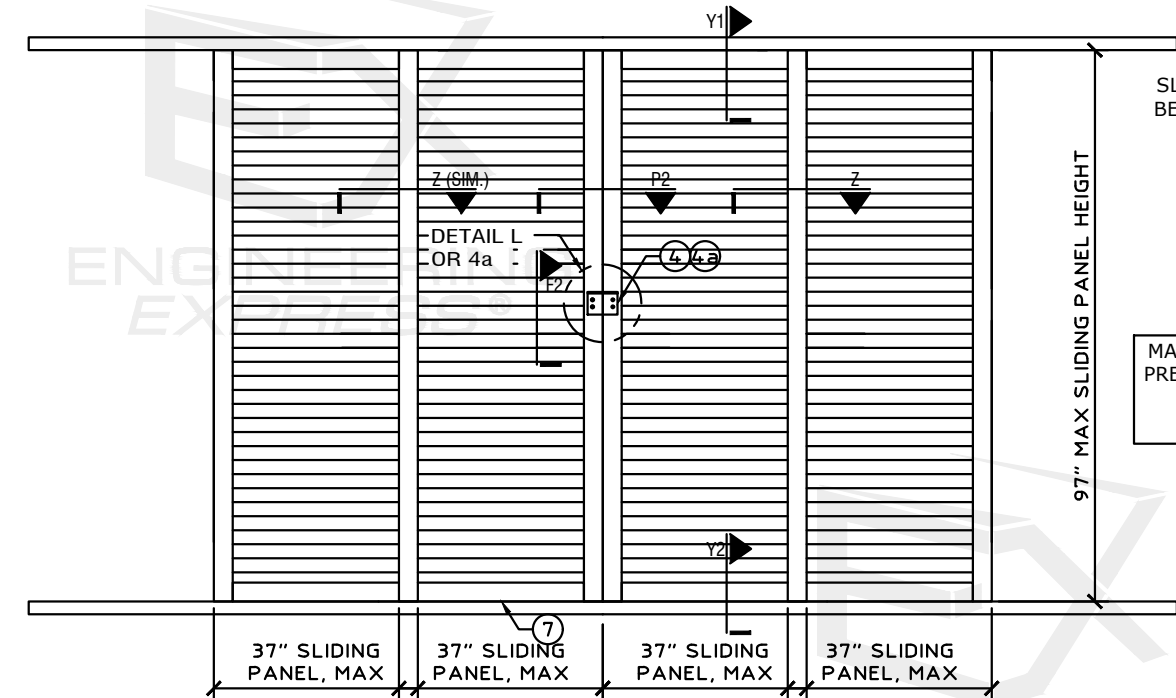
X1 ELEVATION: 2 HINGED AND 2 SLIDING PANELS
SCALE: N.T.S.



X2 ELEVATION: 1 HINGED AND 2 SLIDING PANELS
SCALE: N.T.S.



X5 ELEVATION: 2 SLIDING PANELS
SCALE: N.T.S.

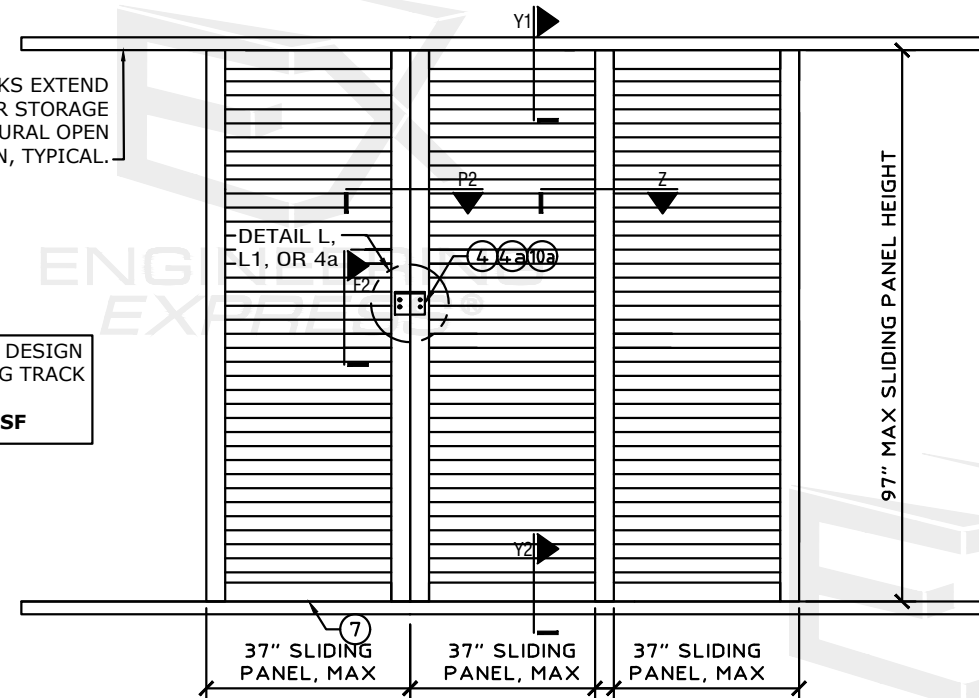


X3 ELEVATION: 4 SLIDING PANELS
SCALE: N.T.S.

SLIDING PANEL TRACKS EXTEND BEYOND FOR SHUTTER STORAGE IN NON-STRUCTURAL OPEN POSITION, TYPICAL.

MAXIMUM ALLOWABLE DESIGN PRESSURE FOR SLIDING TRACK OPTION:
+57.2 / -66.2 PSF

NOTE: SLIDING PANEL CONSTRUCTION SAME AS HINGED PANELS.



X4 ELEVATION: 3 SLIDING PANELS
SCALE: N.T.S.

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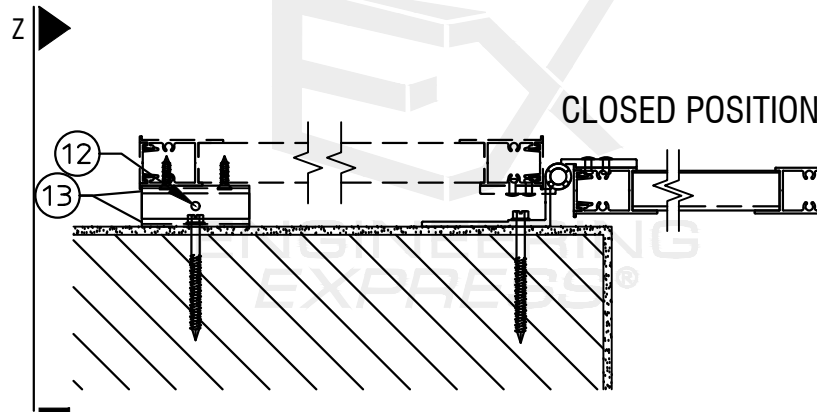
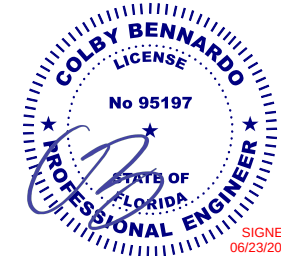
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5 OF 7

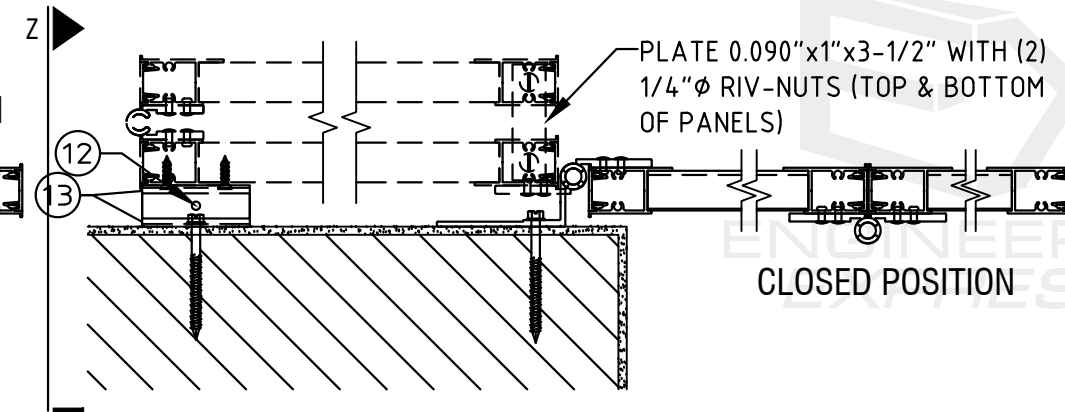
6/23/2025 10:43 AM COLBYBENNARD@QQPERS\colbybennardo\engineering express\production - documents\projects\23-123-64831 - multiple products 2023 fbc update fl 16219\work\2023 fbc update fl 16219\23-123-64831b - fl16219.2 - dwg2.dwg

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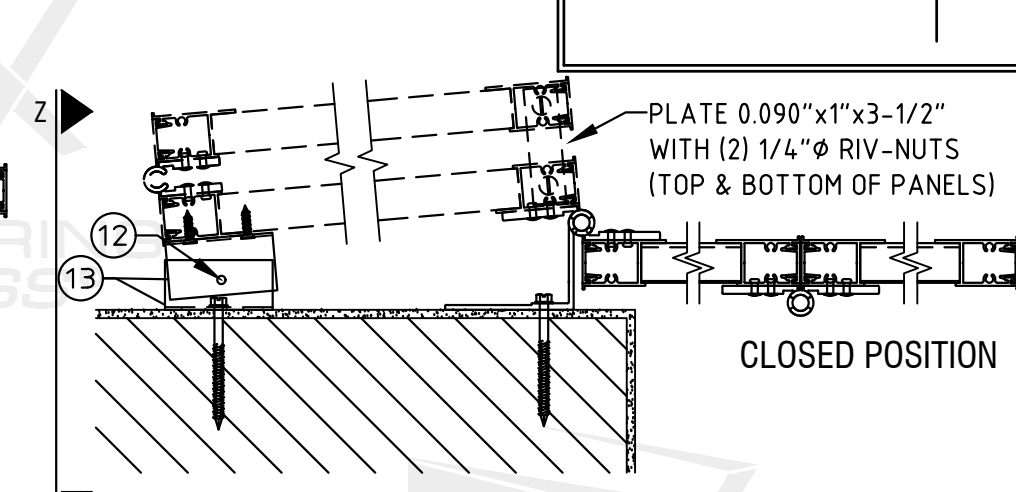
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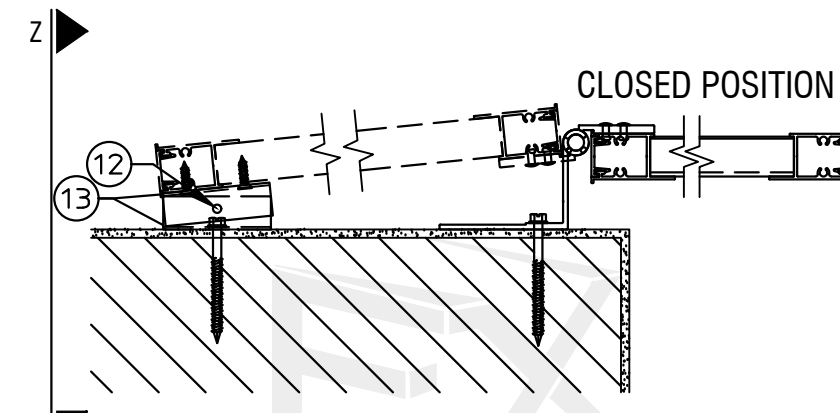
R PLAN VIEW 1
SCALE: 1-1/2" = 1'-0"



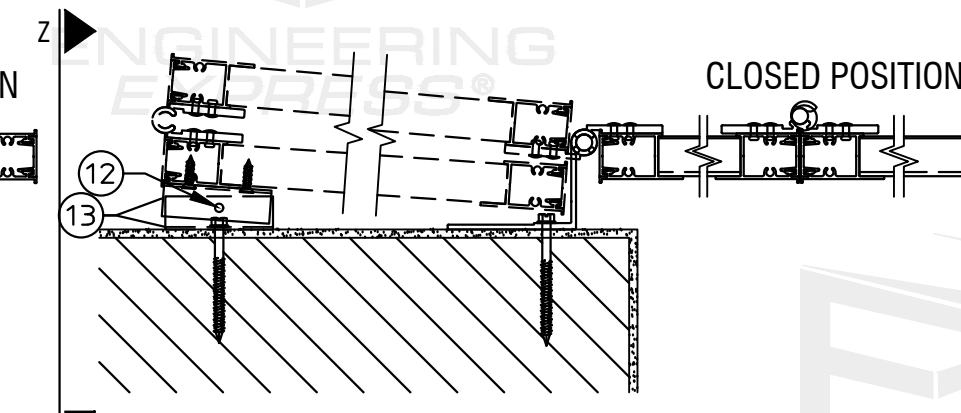
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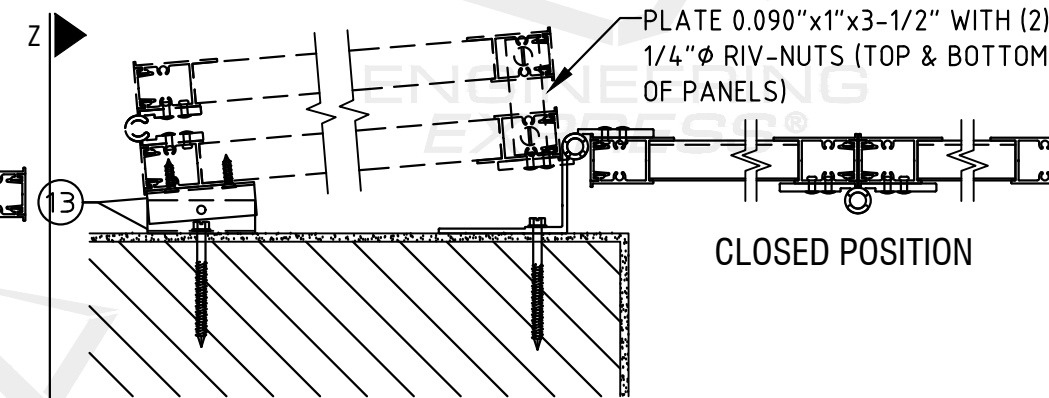
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SCALE: 1-1/2" = 1'-0"



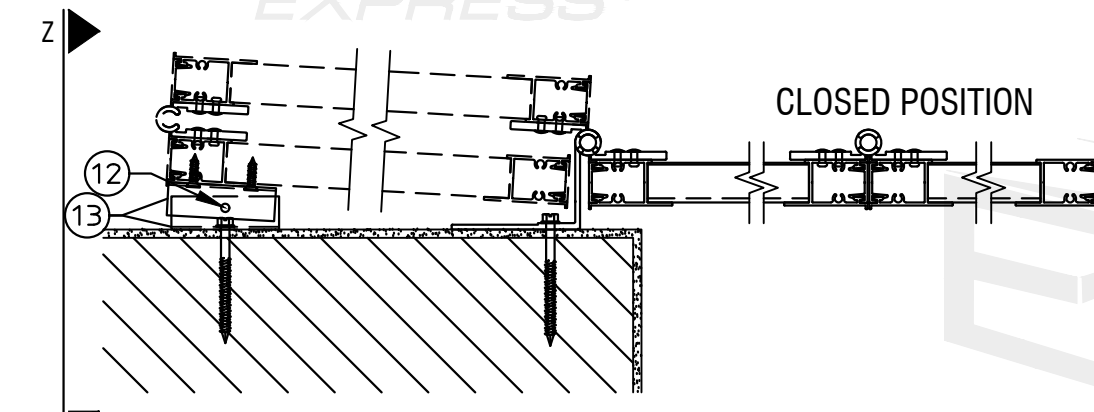
U PLAN VIEW 4
SCALE: 1-1/2" = 1'-0"



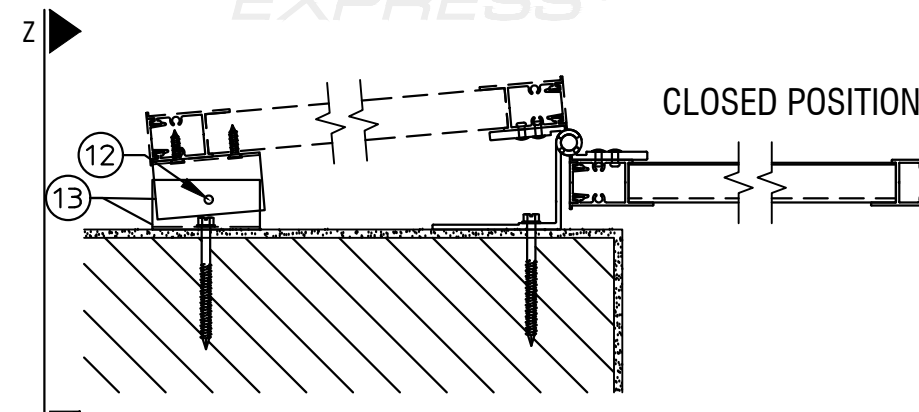
V PLAN VIEW 5
SCALE: 1-1/2" = 1'-0"



Y PLAN VIEW 8
SCALE: 1-1/2" = 1'-0"



W PLAN VIEW 7
SCALE: 1-1/2" = 1'-0"



X PLAN VIEW 6
SCALE: 1-1/2" = 1'-0"

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FLORIDA BUILDING CODE EIGHTH EDITION (2023)
FLORIDA STATEWIDE APPROVAL (FSA FL#16219.2)

REMARKS	DRWN	CHKD	DATE
FBC 2020 (20-26193)	CCB	RWN	7/01/20
FBC 2023 (23-64831)	MLD	CCB	8/21/23
JAMB UPDATE 2025 (23-64832)	CCB	CCB	6/23/25

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SCALE: NTS UNLESS NOTED

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