COLONIAL SHUTTER (HVHZ)

PATENT #8126298

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

GENERAL NOTES:

- THIS SYSTEM HAS BEEN TESTED AND EVALUATED AS A LEVEL D LARGE MISSILE IMPACT PROTECTIVE SYSTEM IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SEVENTH EDITION (2020), 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
- TESTING WAS CONDUCTED IN ACCORDANCE WITH TAS 201/202/203 AND ASTM E1886/E1996/E330. SEE EVALUATION REPORT FOR MORE INFORMATION.
- 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 Cd = 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 Kd =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.

TYP

1.606

1.796

EACH SHUTTER ASSEMBLY SHALL BE PERMANENTLY LABELED WITH THE FOLLOWING MINIMUM INFORMATION:

TOWN & COUNTRY INDUSTRIES FORT LAUDERDALE, FL 9 LB MISSILE LEVEL D - ASTM E1886, E1996 & E330 TAS 201, 202 & 203 FLORIDA PRODUCT APPROVAL NUMBER

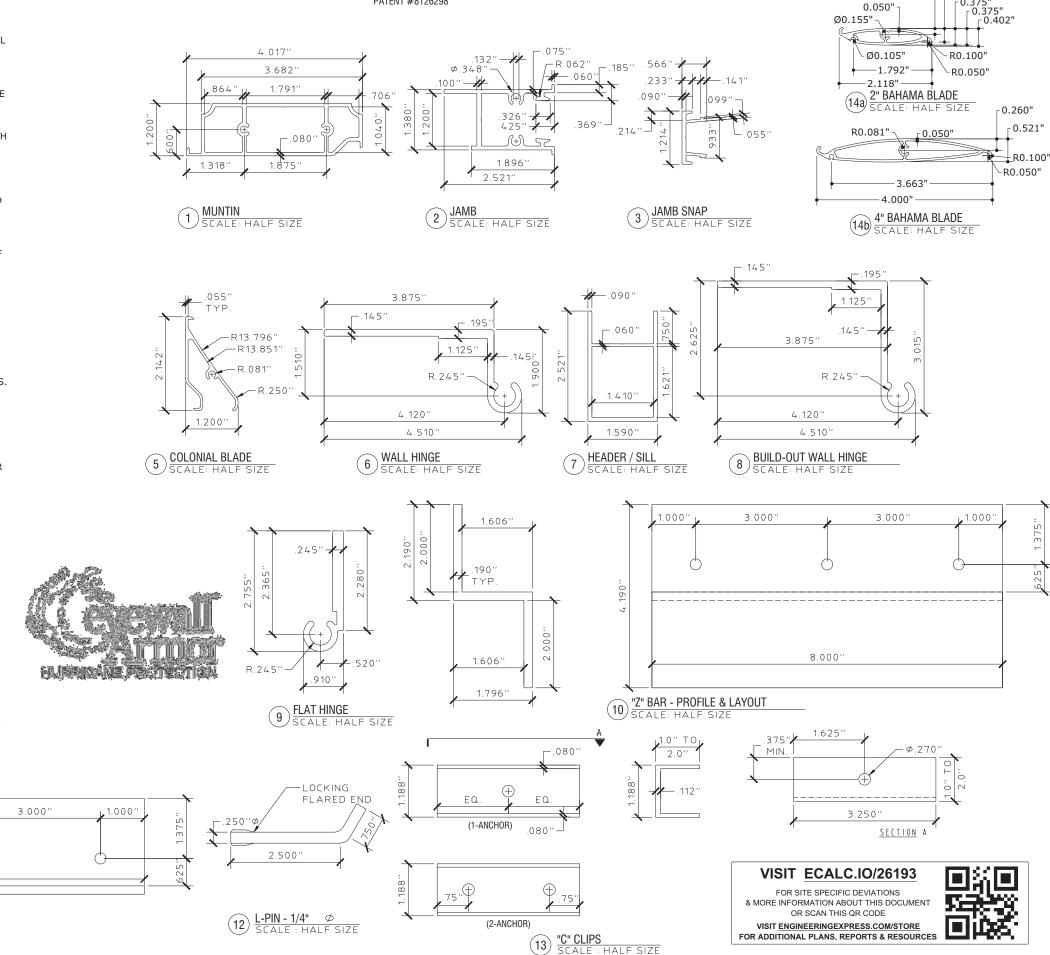
- ALL EXTRUSIONS SHOWN SHALL BE 6063-T6 ALUMINUM ALLOY, U.O.N.,
- WITH A MINIMUM FY OF 25 K.S.I.
 ALL BOLTS AND WASHERS (EXCLUDING INSTALLATION) SHALL BE
 STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I.,
- STAINLESS STEEL WITH A MINIMUM TENSILE STRENGTH OF 60 K.S.I., U.O.N. POP RIVETS SHALL BE 1/4"Ø OR 3/16"Ø 5052 ALUM. ALLOY. 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
- SHUTTER ASSEMBLY MUST BE CLOSED AND SECURED AND SHALL NOT BE LEFT IN THE OPEN POSITION IN THE EVENT OF A WIND STORM EVENT.

3.000

(11) ANGLE SCALE: HALF SIZE

8.000'

ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED.



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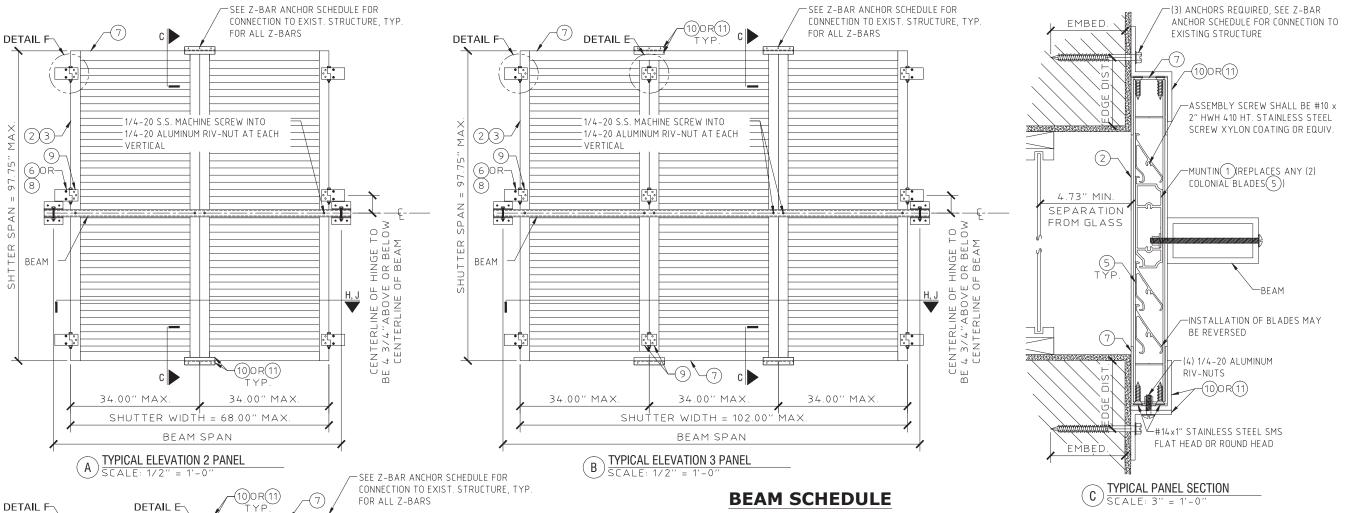
BEAM

34.00" MAX.

ER R

9

COLONIAL SHUTTER (HVHZ ONLY)



-(2) ANCHORS REQ'D AT EACH WALL-HINGE. SEE WALL-HINGE ANCHOR

SCHEDULE FOR

STRUCTURE

CENTERLINE OF BE 4 3/4"ABOVE CENTERLINE O

CONNECTION TO EXIST.

1/4-20 S.S. MACHINE SCREW INTO

SHUTTER WIDTH = 136.00" MAX

BEAM SPAN

TYPICAL ELEVATION 4 PANELS MAX

34.00" MAX

SCALE: 1/2" = 1'-0

-1/4-20 ALUMINUM RIV-NUT AT EACH

34.00" MAX

34.00" MAX.

DEAM 3C	IILDULL			SCALE	1:3 = 1-0				
		SHUTTER SPAN	BEAM SPAN (+/- 79.5 PSF MAX)	WALL BRACKET ANCHOR TYPES (+69.3/-79.5 PSF MAX)					
BEAM SIZE	ALUMINUM ALLOY			CONCRETE	HOLLOW BLOCK	WOOD (G=0.42 MIN)			
		8'-1.75"	5' 6"	A,B,C,D,E	A,C,E	B,C			
2"x3"x1/8"	6063-T6	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			
		8'-1.75"	6' 9"	A,B,C,D,E	A,C,	B,C			
2"x4"x1/8"	6063-T6	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			
		8'-1.75"	8' 0"	A,B,C,D,E	A,C,				
2"x5"x1/8"	6063-T6	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			
		8'-1.75"	10' 5"	A,B,C,D,E					
2"x4"x1/4"	6061-T6	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: 4" EYEWALL ARMOR MALE/FEMALE BOLT OR 1/4-20 DEWALT PANELMATES (MALE/FEMALE):
- IN CONCRETE (3.35KSI MIN) WITH $1\frac{3}{4}$ " MIN EMBED., $2\frac{1}{2}$ " MIN EDGE DIST. AND 3" MIN SAPCING IN HOLLOW CONCRETE BLOCK WITH $1\frac{1}{4}$ " MIN EMBED., 2" MIN EDGE DIST. AND 3" MIN SPACING
- IN WOOD (G=0.42 MIN) WITH 1½" MIN EMBED., ¾" MIN EDGE DIST. AND 1½" MIN SPACING

 TYPE C: ¼" ITW TAPCON SG:
- IN CONCRETE (3.35KSI MIN) WITH 13/4" MIN EMBED., 21/2" MIN EDGE DIST. AND 3" MIN SPACING IN HOLLOW CONCRETE BLOCK WITH 11/4" MIN EMBED., 2" MIN EDGE DIST. AND 3" MIN SPACING
- IN WOOD (G=0.42 MIN) WITH 1%" MIN EMBED., 3%" MIN EDGE DIST. AND $1\frac{1}{2}$ " MIN SPACING
- TYPE D: 1/4" MILLENIUM MILLFAST (W/ T&C ULTRACOTE):
- IN CONCRETE (3.275KSI MIN) WITH 1¾" EMBED, 2½" EDGE DIST., AND 4" MIN SPACING
 IN HOLLOW CONCRETE BLOCK WITH 1¼" EMBED., 2½" 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 11/4" EMBED, 2" EDGE DIST. AND 3" MIN SPACING



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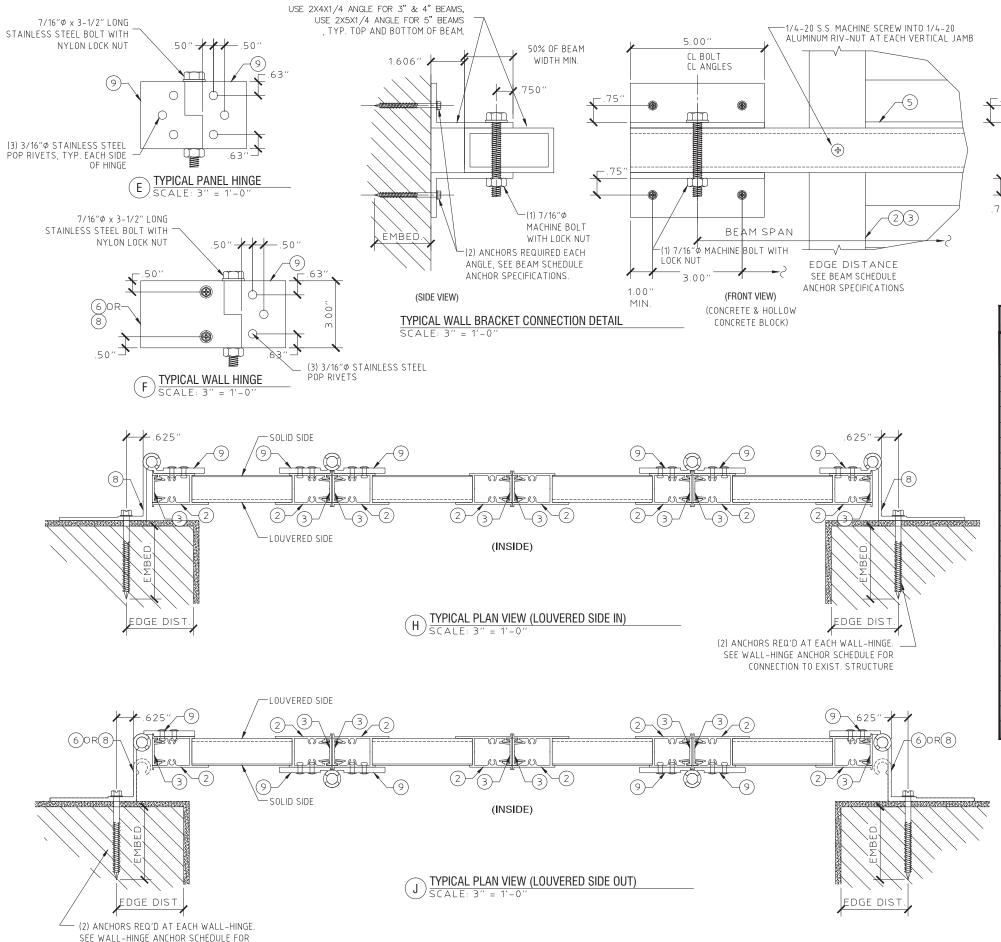
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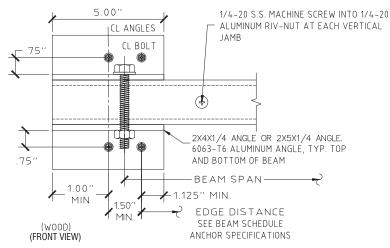
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CONNECTION TO EXIST. STRUCTURE





	Z-BAR ANCHOR SCHEDULE								
MANUF.	DIAMETER	METER DESCRIPTION		MIN. EMBED.	MIN. SPACING				
CONCRETE (MIN. fc = 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 PPRO)	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				
MILLENIUM	1/4 IN.	MILLFAST	2.50 IN	1.75 IN	3.00 IN				
HOLLOW CONCRETE BLOCK									
DEWALT	1/4 IN.	1/4 IN. STAINLESS STEEL PANELMATE		1.25 IN	3.00 IN				
DEWALT	1/4 IN.	MALE PANELMATE (or PPRO)	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				
MILLENIUM	1/4 IN.	MILLFAST	2.50 IN	1.25 IN	3.00 IN				
WOOD (SOUT	HERN YELLO	W 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 PPRO)	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				

WALL-HINGE ANCHOR SCHEDULE							
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		



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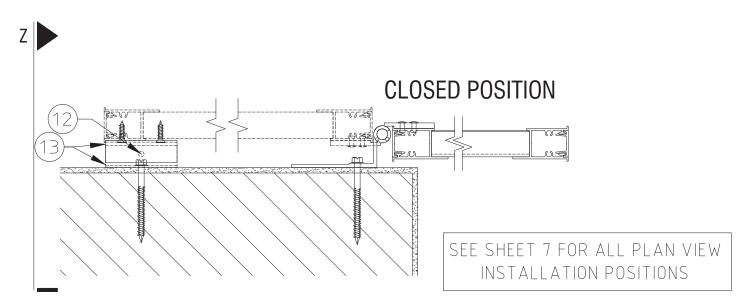
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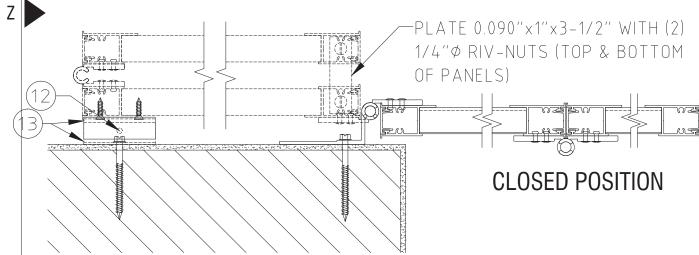
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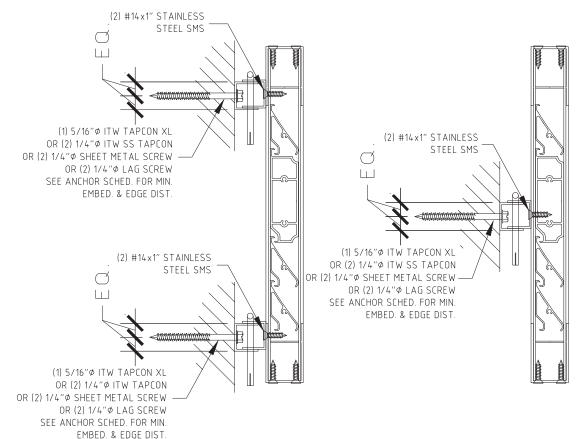












OPEN POSITION LOCK ANCHOR SCHEDULE:

WITH "C" CLIPS OR DOUBLE "C" CLIPS:

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.

(HINGES NOT SHOWN FOR CLARITY)

(DOUBLE "C" CLIP)

(SINGLE "C" CLIP)

CLIPS REQ'D TOP & BOTTOM FOR SPANS > 69". ONE CLIP REQ'D AT MID-SPAN (±3") FOR SPANS ≤ 69".

OPEN POSITION LOCK

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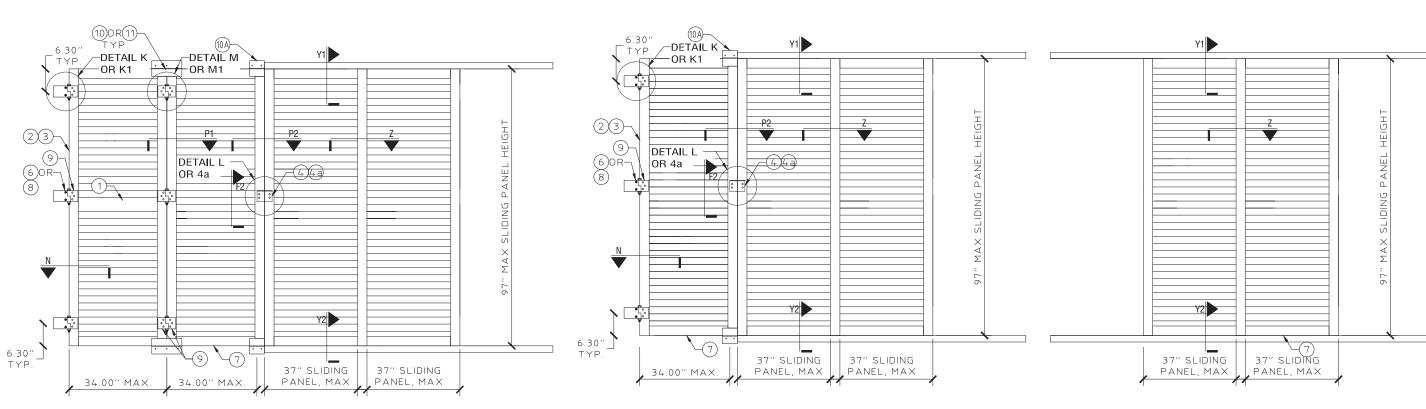
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 $\underbrace{\text{N2}}_{\text{SCALE: N.T.S.}} \underbrace{\text{ELEVATION: 1 HINGED AND 2 SLIDING PANELS}}_{\text{SCALE: N.T.S.}}$ X5 ELEVATION: 2 SLIDING PANELS SCALE: N.T.S. $\underbrace{\text{X1}}_{\text{SCALE: N.T.S.}} \underbrace{\text{ELEVATION: 2 HINGED AND 2 SLIDING PANELS}}_{\text{SCALE: N.T.S.}}$ SLIDING PANEL TRACKS EXTEND BEYOND FOR SHUTTER STORAGE IN NON-STRUCTURAL OPEN POSITION, TYPICAL. DETAIL L, L1, OR 4a DETAIL L -44 OR 4a MAXIMUM ALLOWABLE DESIGN PRESSURE FOR SLIDING TRACK OPTION: +57.2 / -66.2 PSF 37" SLIDING PANEL, MAX ELEVATION: 4 SLIDING PANELS
SCALE: N.T.S.



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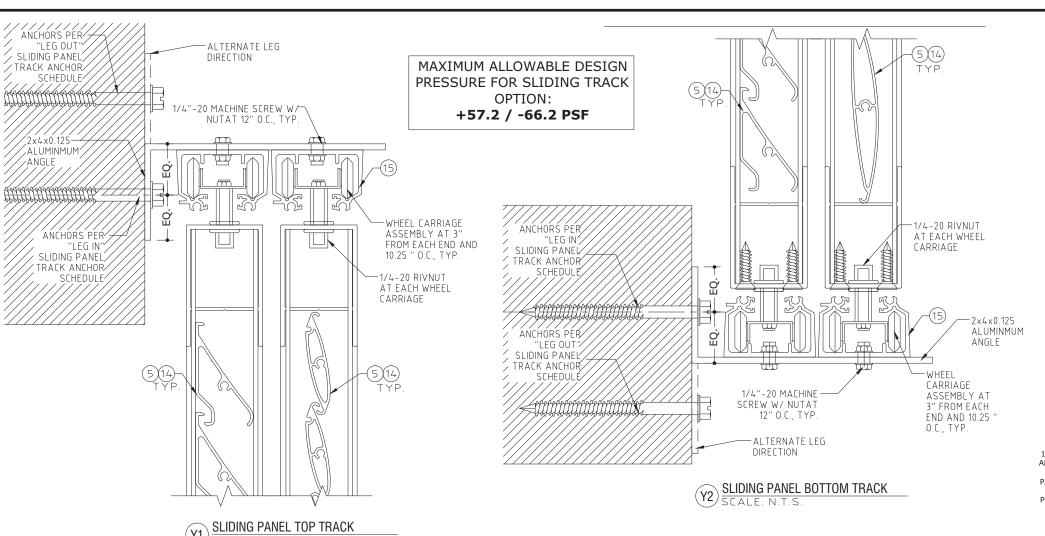
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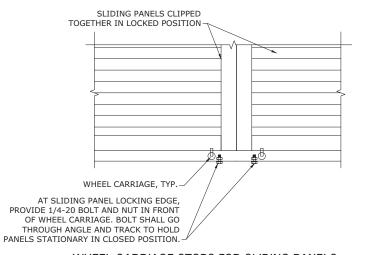
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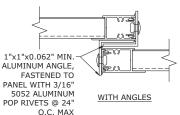
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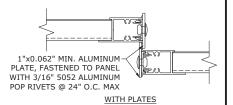
NOTE: SLIDING PANEL CONSTRUCTION SAME AS
HINGED PANELS. X4) ELEVATION: 3 SLIDING PANELS SCALE: N.T.S.





WHEEL CARRIAGE STOPS FOR SLIDING PANELS





SLIDING PANEL INTERLOCK

"LEG IN" SLIDING PANEL TRACK ANCHOR SCHEDULE:

HOST	ANCHOR	SLIDING PANEL VERTICAL SPAN					
STRUCTURE	ANCHOR	36"	48"	60"	72"	84"	97"
CONCRETE (3192 PSI MIN.)	1/4" ITW SS TAPCONS W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C
	1/4" DEWALT ULTRACON W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C
CONCRETE (3500 PSI MIN.)	1/4" MILLENIUM MILLFAST W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C
HOLLOW CONCRETE BLOCK	1/4" MILLENIUM MILLFAST W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	13" O.C.	11" O.C.	9" O.C.	8" O.C.	7" O.C
	1/4" ITW SS TAPCONS W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	15" O.C.	12" O.C.	9" O.C.	8" O.C.	7" O.C.	6" O.C
	1/4" DEWALT ULTRACON W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	13" O.C.	10" O.C.	8" O.C.	7" O.C.	6" O.C
	5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 4" MIN. EDGE DISTANCE.	16" O.C.	16" O.C.	15" O.C.	13" O.C.	11" O.C.	9" O.C
	5/16" DEWALT ULTRACON W/ 1-1/4" MIN. EMBEDMENT AND 3-1/8" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	16" O.C.	14" O.C.	12" O.C.	10" O.C
WOOD (G=0.42 MIN.)	1/4" LAG SCREW W/ 1-1/2" MIN. EMBEDMENT AND 3/4" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	16" O.C
	#14 SMS OR WOOD SCREW W/ 1-1/2" MIN. EMBEDMENT AND 3/4" MIN. EDGE DISTANCE.	16" O.C.	16" O.C.	16" O.C.	16" O.C.	15" O.C.	13" O.C

NOTES: TABLE PROVIDES MAXIMUM ANCHOR SPACING FOR INDICATED ANCHOR TYPES AND SLIDING PANEL VERTICAL SPANS FOR "LEG IN" CONDITION. ANCHORS SHALL BE LOCATED 2" MAX FROM TRACK ENDS.

*MILLENIUM MILLFAST SCREWS SHALL HAVE T&C ULTRACOTE

"LEG OUT" SLIDING PANEL TRACK ANCHOR SCHEDULE:

HOST	ANGUOD	SLIDING PANEL VERTICAL SPAN						
STRUCTURE	ANCHOR	36"	48"	60"	72"	84"	97"	
CONCRETE (3192 PSI MIN.)	1/4" ITW SS TAPCONS W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	13" O.C.	10" O.C.	9" O.C.	7" O.C.	6" O.C.	
	1/4" DEWALT ULTRACON W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	16" O.C.	13" O.C.	11" O.C.	9" O.C.	8" O.C.	
CONCRETE (3500 PSI MIN.)	1/4" MILLENIUM MILLFAST W/ 1-3/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	16" O.C.	13" O.C.	10" O.C.	9" O.C.	7" O.C.	6" O.C.	
HOLLOW CONCRETE BLOCK	1/4" MILLENIUM MILLFAST W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	7" O.C.	5" O.C.	4" O.C.				
	1/4" ITW SS TAPCONS W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	6" O.C.	4" O.C.	4" O.C.	3" O.C.	3" O.C.		
	1/4" DEWALT ULTRACON W/ 1-1/4" MIN. EMBEDMENT AND 2-1/2" MIN. EDGE DISTANCE	6" O.C.	5" O.C.	4" O.C.	3" O.C.	3" O.C.		
	5/16" ITW TAPCON XL W/ 1-3/4" MIN. EMBEDMENT AND 4" MIN. EDGE DISTANCE.	10" O.C.	7" O.C.	6" O.C.	5" O.C.	4" O.C.	4" O.C.	
	5/16" DEWALT ULTRACON W/ 1-1/4" MIN. EMBEDMENT AND 3-1/8" MIN. EDGE DISTANCE	10" O.C.	8" O.C.	6" O.C.				
WOOD (G=0.42 MIN.)	1/4" LAG SCREW W/ 1-1/2" MIN. EMBEDMENT AND 3/4" MIN. EDGE DISTANCE	16" O.C.	14" O.C.	11" O.C.	10" O.C.	8" O.C.	7" O.C.	
	#14 SMS OR WOOD SCREW W/ 1-1/2" MIN. EMBEDMENT AND 3/4" MIN. EDGE DISTANCE.	13" O.C.	10" O.C.	8" O.C.	7" O.C.	6" O.C.	5" O.C.	

NOTES: TABLE PROVIDES MAXIMUM ANCHOR SPACING FOR INDICATED ANCHOR TYPES AND SLIDING PANEL VERTICAL SPANS FOR ALTERNATE "LEG OUT" CONDITION. ANCHORS SHALL BE LOCATED 2" MAX FROM TRACK ENDS.

*MILLENIUM MILLFAST SCREWS SHALL HAVE T&C ULTRACOTE



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400 WEST MCNAB ROAD FT. LAUDERDALE, FL 33309

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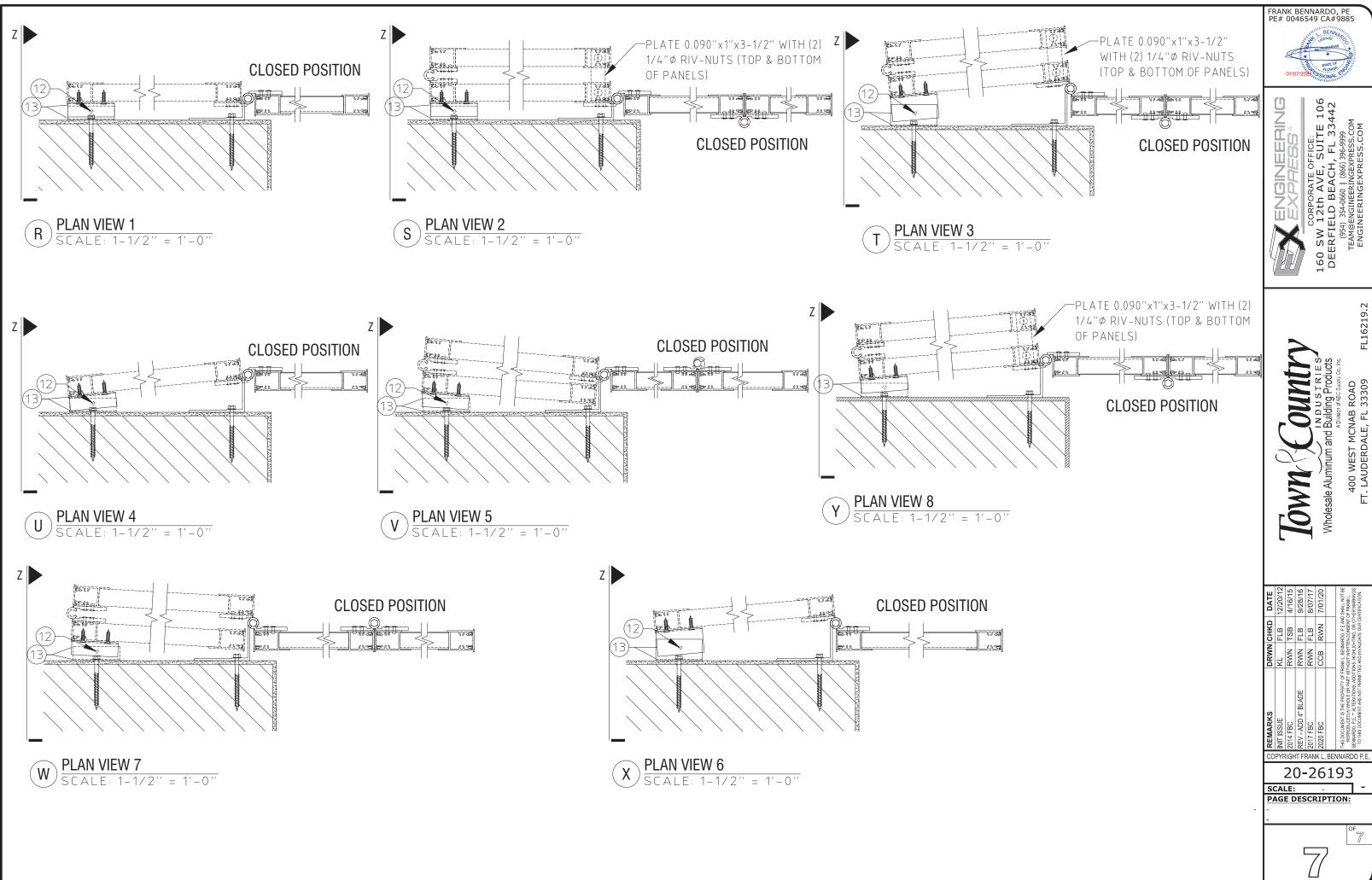
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