



RHINO ACCORDION SHUTTER

EXTRUDED ALUMINUM ACCORDION SHUTTER

FLORIDA STATE APPROVAL
CODE VERSION: FLORIDA BUILDING CODE 2023 - 8th EDITION
APPROVED FOR USE IN HVHZ AND OUTSIDE HVHZ
CATEGORY: SHUTTERS -- SUBCATEGORY: ACCORDION
IMPACT RESISTANT: (LEVEL D) - LARGE & SMALL MISSILE



Pedro De Figueiredo
PE 52609
12/01/2023

DIGITALLY SIGNED FOR 18 PAGES

"THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PEDRO DE FIGUEIREDO, PE 52609 ON THE DATE INDICATED HERE."

GENERAL NOTES: (FLORIDA BUILDING CODE 2023 - 8th ED. - HVHZ & non HVHZ)

- 1- DEFINITION: THIS PRODUCT IS AN ACCORDION TYPE SHUTTER; DESIGNED, CONSTRUCTED AND ERECTED TO EASILY ENCLOSE AN AREA, PROVIDING PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS (LEVEL D OR LARGE MISSILE) WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 2- CODE: THIS PRODUCT HAS BEEN TESTED AND DESIGNED IN ACCORDANCE WITH THE 2023 FLORIDA BUILDING CODE UNDER TAS 201, 202 AND 203, ASTM E330, ASTM E1886 & ASTM E1996.
- 3- POSTING: A PERMANENT LABEL SHALL BE PROVIDED AS PER FBC. IT SHALL BE ONE LABEL PER OPENING LOCATED ON THE BOTTOM OF THE CENTER MATE FACING THE EXTERIOR SIDE.
- 4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-22. IN HVHZ OR AS REQUIRED BY THE BUILDING OFFICIAL. PRESSURES MUST BE PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES FOR EACH SHUTTER COMPONENT TO BE USED.
- 5- MATERIAL: ALL EXTRUDED ALUMINUM SHAPES SHALL BE MADE OF 6063-T6 OR AS NOTED.
- 6- FASTENERS: ASSEMBLY SCREWS AND ANCHORS SHALL BE AS SPECIFIED IN THE CURRENT SET OF DRAWINGS. INSTALLATION AND LOADS AS PER THIS APPROVAL.
- 7- USE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, ARCHITECT OR ENGINEER OF RECORD TO VERIFY THE FOLLOWING:
 - 7.1- THE STABILITY OF THE STRUCTURE WHERE THE SHUTTER IS TO BE ATTACHED INSURING PROPER ANCHORAGE.
 - 7.2- THE SITE SPECIFIC PROJECT CRITERIA, SUCH AS BUT NOT LIMITED TO, WIND LOADS, LOCAL CODE REQUIREMENTS, DESIGNED PRESSURES ETC.
 - 7.3- THAT THIS APPROVAL IS ADEQUATE TO THE SPECIFIC PROJECT.
- 8- 33 1/3% INCREASE IN ALLOWABLE LOADS HAVE NOT BEEN USED IN THE DESIGN OF THE ANCHORS FOR THIS PRODUCT APPROVAL. HOWEVER, WOOD ANCHORS WITH 1.6 LOAD DURATION INCREASE FOR WIND LOAD HAVE BEEN USED.

USER INSTRUCTIONS:

- 1- DETERMINE PROJECT DESIGN WIND LOAD PRESSURES AS PER ITEM 4 OF GENERAL NOTES.
- 2- CHECK BLADE SPAN ALLOWABLE DESIGN PRESSURE ON TABLE 1 OR TABLE 1A.
- 3- VERIFY GLASS SEPARATION ON TABLE 2 IF APPLICABLE.
- 4- DETERMINE MAXIMUM ANCHORAGE PRESSURE CAPACITY FUNCTION OF SECTION TYPE TO BE USED AS PER SHEET 13 AND 14.
- 5- THE LOWEST PRESSURE FROM ITEMS 2 AND 4 ABOVE MUST NOT EXCEED THE REQUIRED DESIGN PRESSURE FROM GENERAL NOTES 4

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18	LOCK HARDWARE SECTION "N" DETAIL, SPECIAL SHUTTER HEIGHT TRANSITION

STANDARD COMPLIANCE:
ASTM E330, E1996 (LEVEL D MISSILE)
TAS 201, 202, 203 (LARGE & SMALL MISSILE)
ASCE 7-22, ADM-20, NDS-18



ASSOCIATION MEMBER:
MAXIMUM SHUTTER SYSTEMS, INC
2000 STIRLING ROAD
DANIA BEACH - FL 33004

SCALE:
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23-220
SHEET
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TABLE I
MAXIMUM ALLOWABLE #1 BLADE
SHUTTER SPAN X PRESSURE

BLADE SPAN INCHES	PRESSURE (PSF)	
	POS	NEG
60	160	160
66	158	158
72	144	144
78	133	133
84	124	124
90	116	116
96	108	108
104	100	100
108	93	93
114	83	83
120	75	75
126	68	68
132	62	62
138	57	57
144	48	52
150	41	48
162	30	40

NOTES:
1- ACCORDION SHUTTER SLIDE SPAN (INCHES) FOR ALL CONDITIONS
2- PRESSURE - DESIGN WIND LOAD (PSF)
3- LINEAR INTERPOLATION IS ACCEPTABLE FOR DESIGN WIND LOADS AND SLIDE SPAN BETWEEN TABULATED VALUES.
4- USE TABLE 1A WHEN ONE OR MORE TYPE 1B BLADE IS USED
5- BLADE REVERSED INSTALLATION IS ALLOWED FOR ALL MOUNTED CONDITIONS

TABLE 1A
MAXIMUM ALLOWABLE #1 & #1B BLADES
SHUTTER SPAN X PRESSURE

BLADE SPAN INCHES	PRESSURE (PSF)	
	POS	NEG
60	160	160
66	158	158
72	144	144
78	133	133
84	124	124
90	116	116
96	108	108
104	100	100
108	93	93
114	83	83
120	75	75
126	68	68
132	61	61
138	53	53
144	45	47
150	38	42
162	28	33

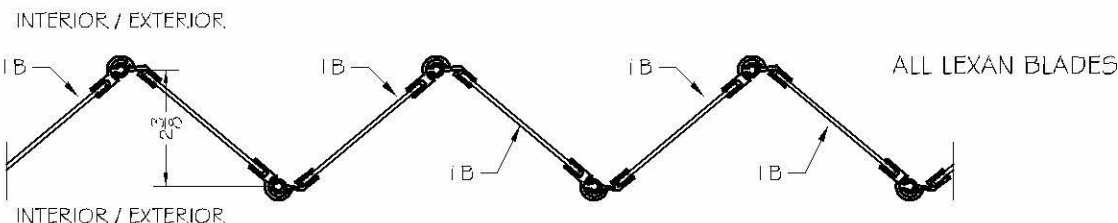
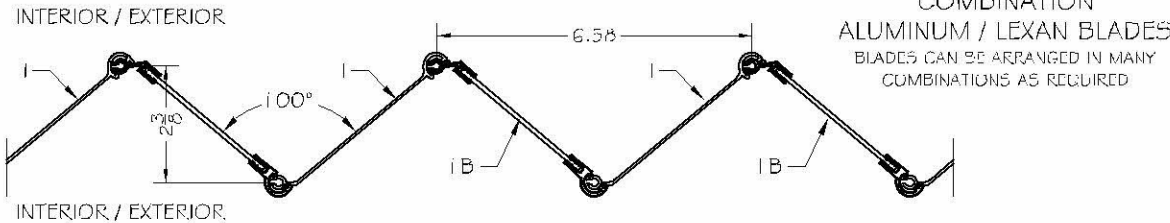
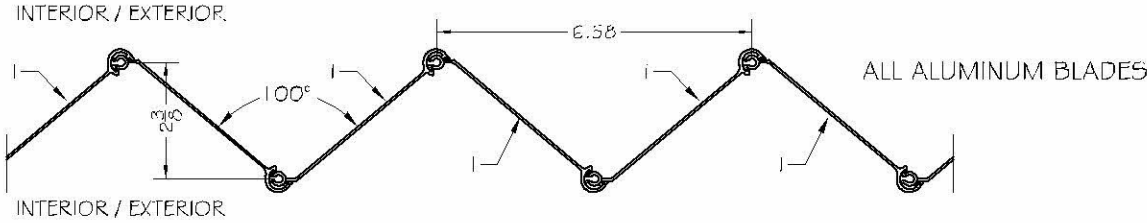
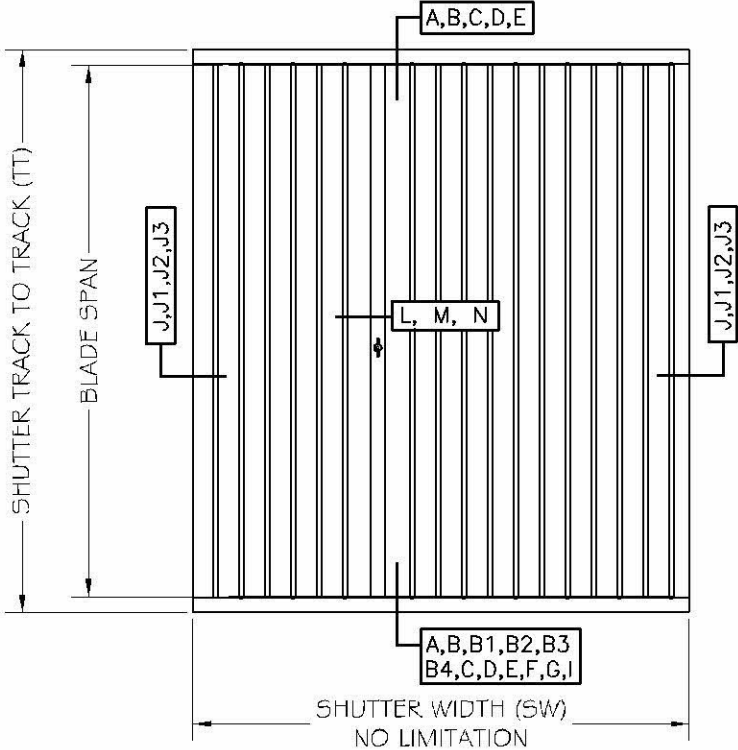


TABLE 2
MINIMUM SHUTTER SEPARATION FROM GLAZING

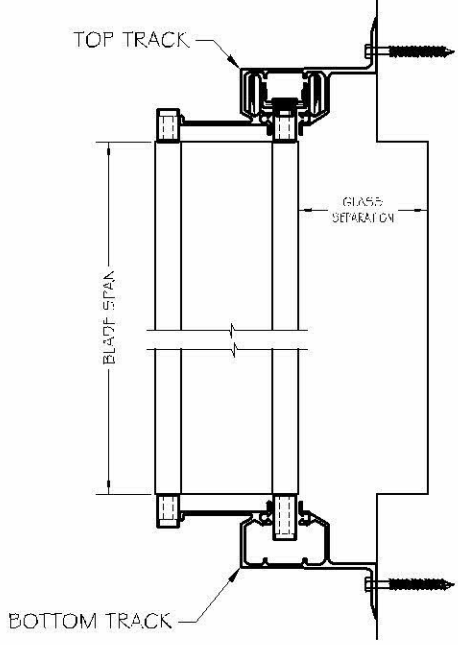
BLADE TYPE	GLAZING SEPARATION (INCHES)		
	BLADE SPAN		
	<=60"	<=104"	<=162"
ALUMINUM ALL ELEVATIONS	2"	2 3/4"	3"
LEXAN <=30' ELEVATION	3"	3"	3"
LEXAN >30' ELEVATION	2 1/8"	3"	3"

NOTES:
1- SEPARATION FROM GLAZING AREAS SHALL BE MEASURED FROM GLAZING SURFACE TO THE INNER MOST BLADE OR LOCK SURFACE.
2- GLASS SEPARATION IS APPLICABLE ONLY WITHIN THE HV-12 (BROWARD AND MIAMI-DADE COUNTIES). WIND ZONE 4 AS PER ASTM E1996 AND ESSENTIAL FACILITIES AS DEFINED ON ASCE 7-22.
3- WHEN SHUTTER IS ASSEMBLED WITH BOTH TYPES OF BLADES THE LARGEST GLASS SEPARATION SHALL APPLY.

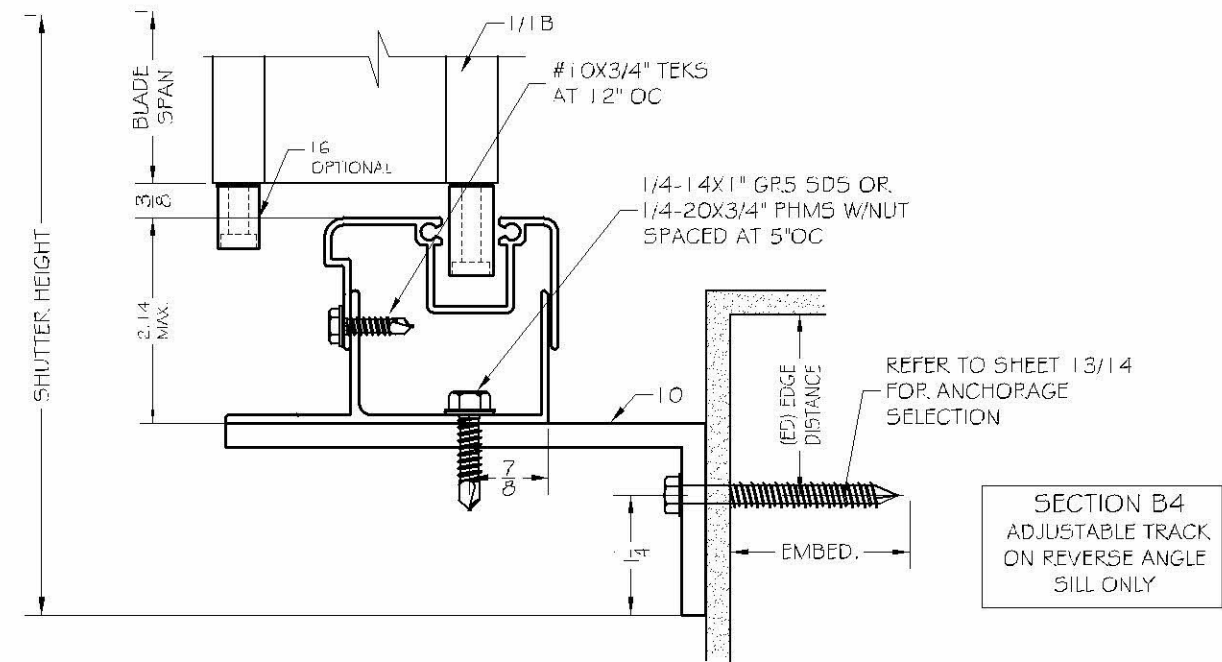
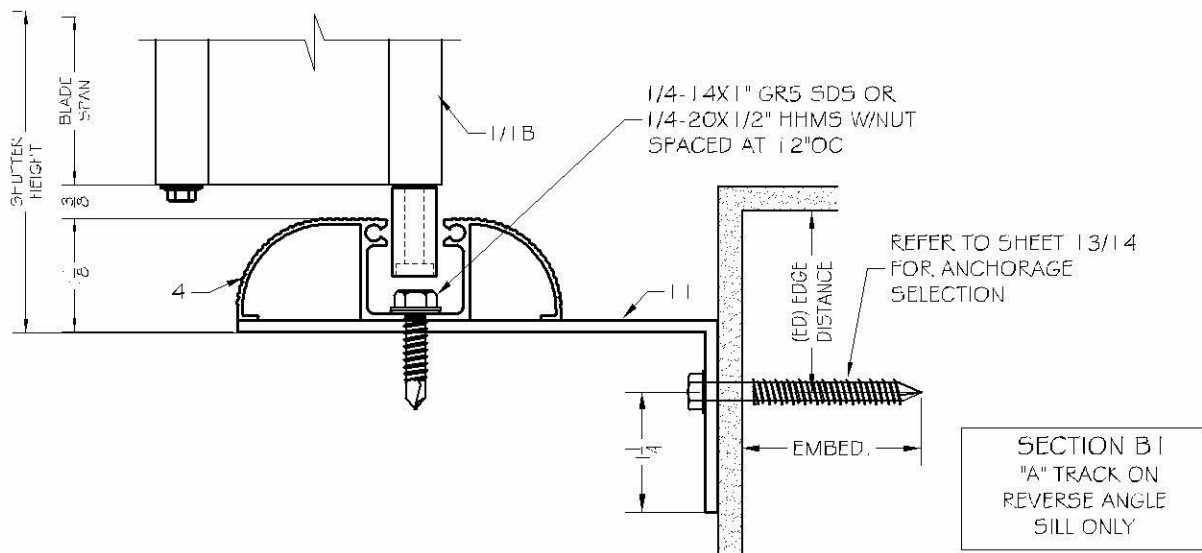
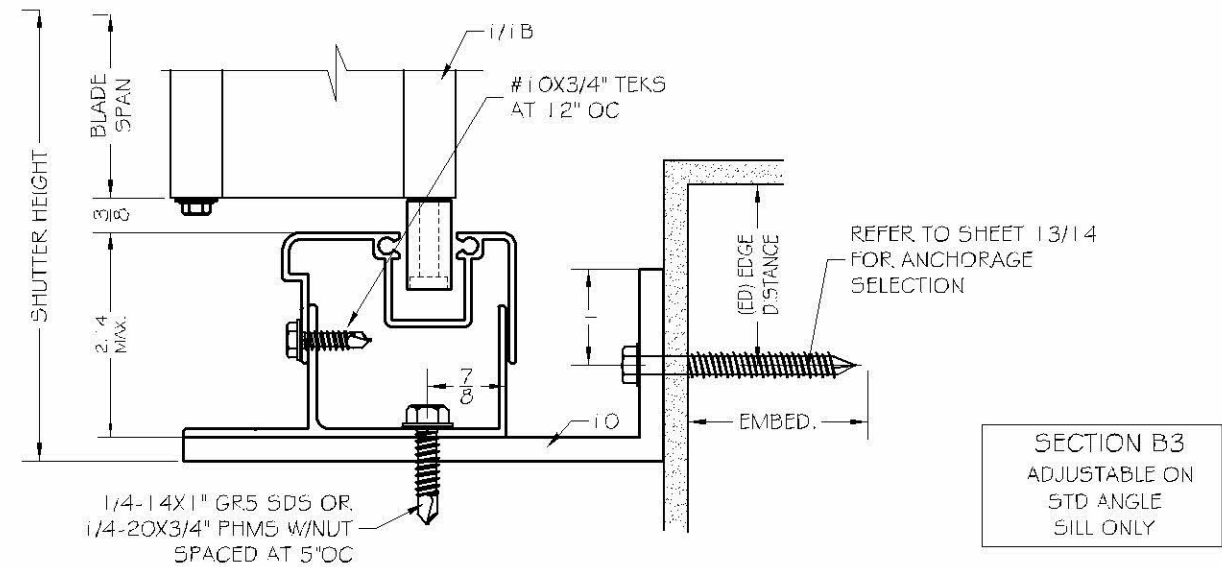
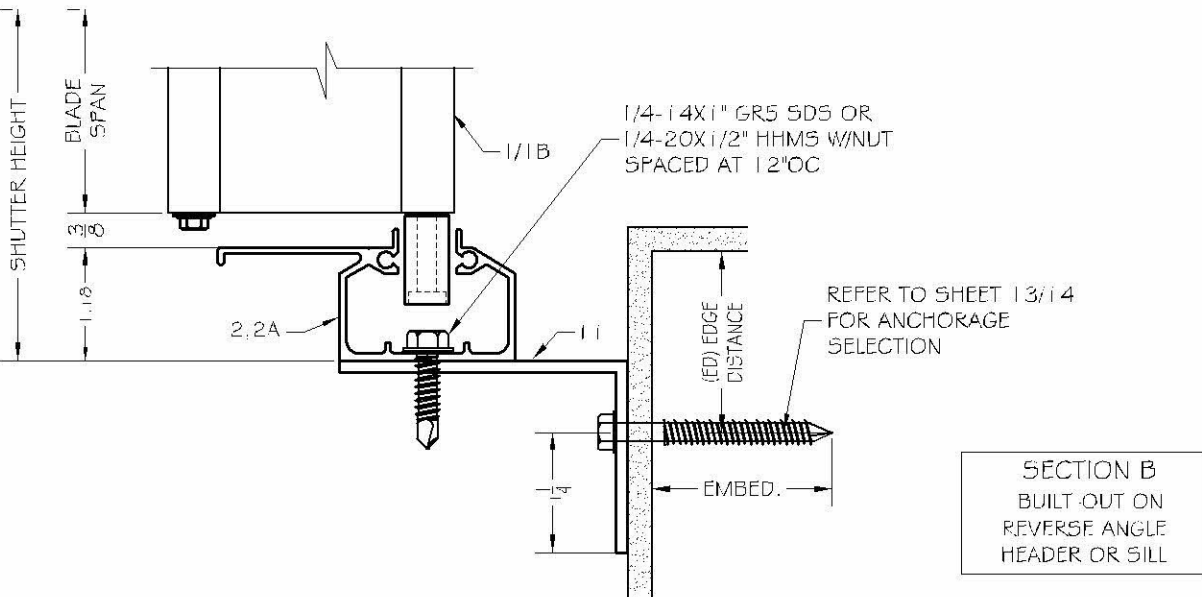
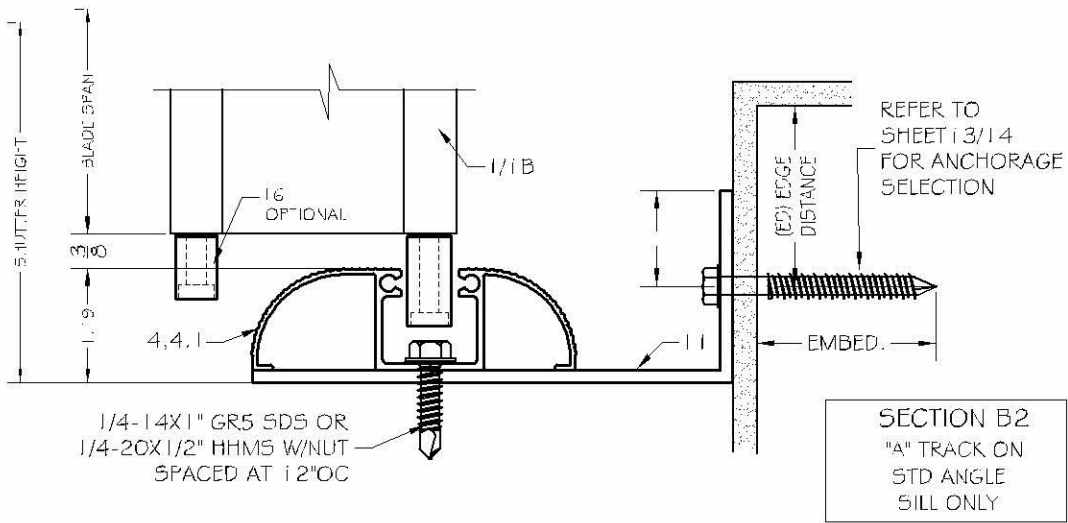
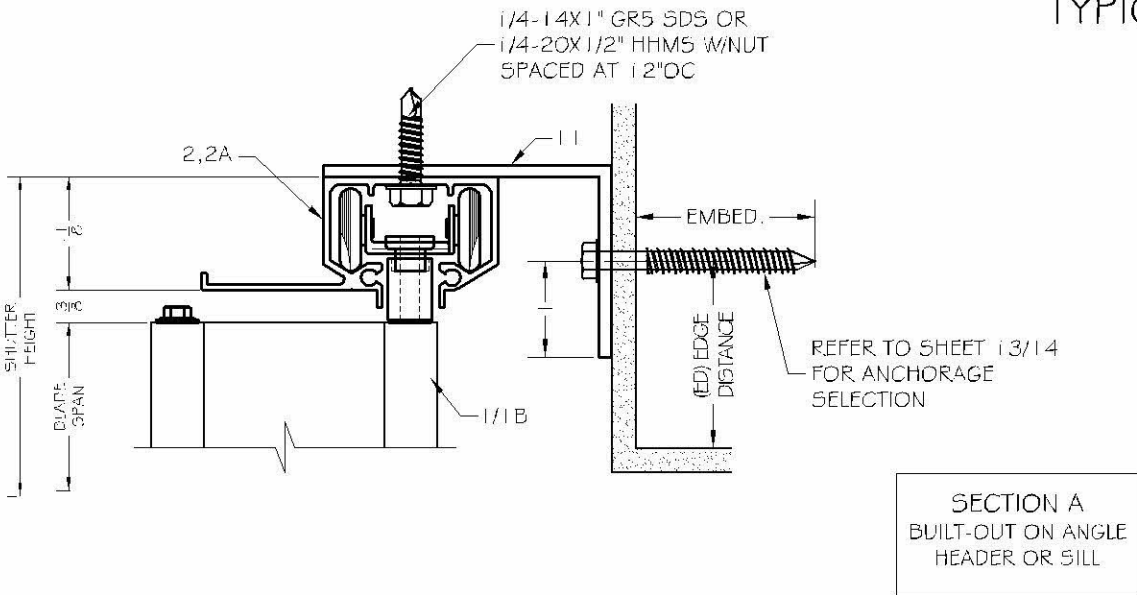
TYPICAL ELEVATION



TYPICAL CROSS SECTION



TYPICAL SECTIONS



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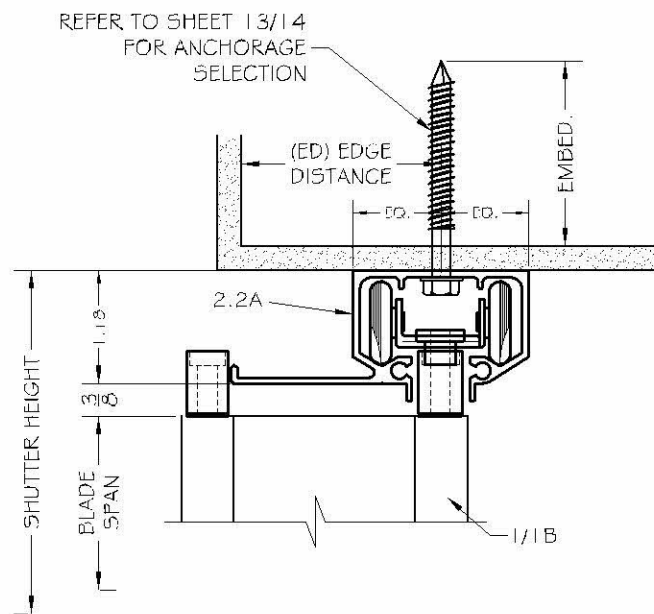
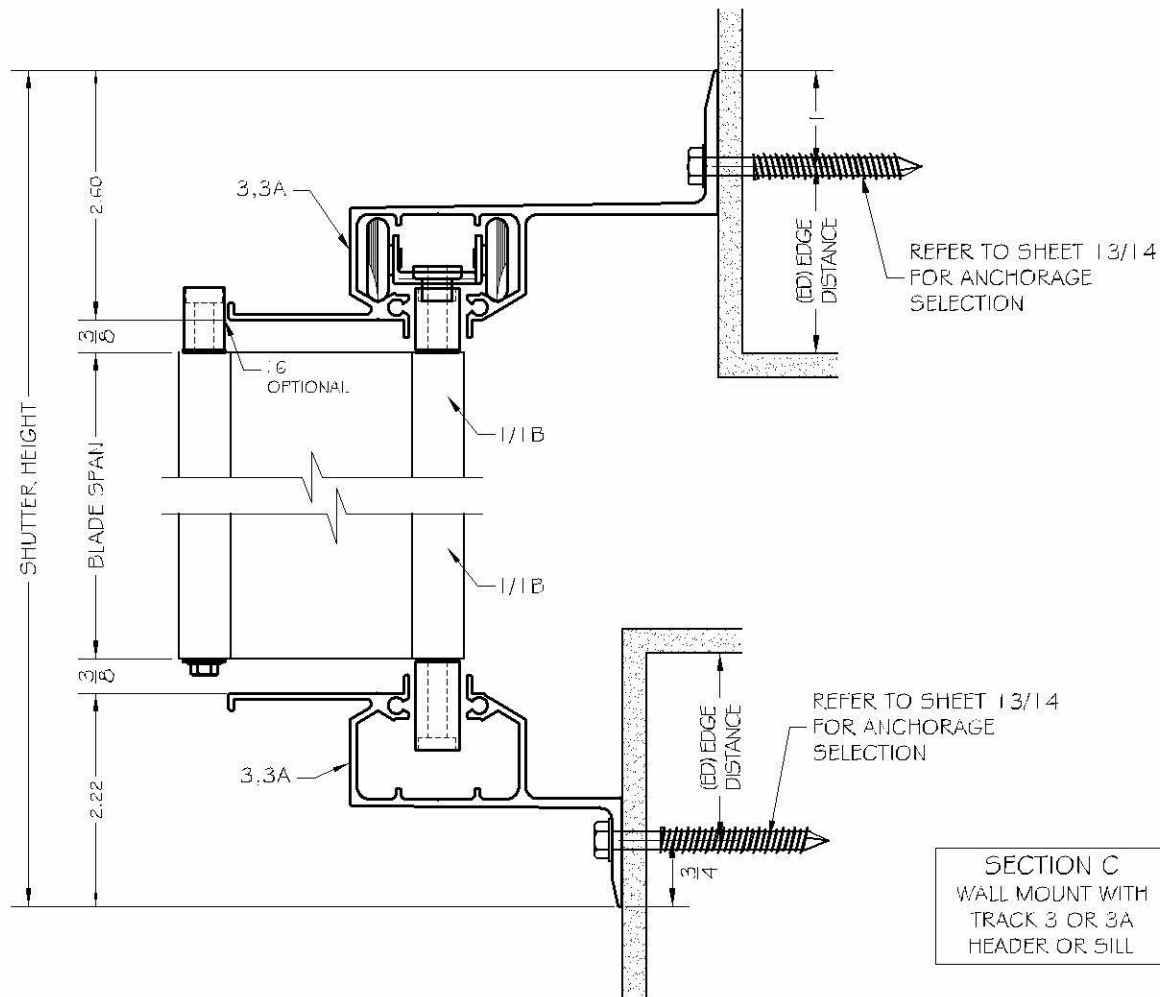


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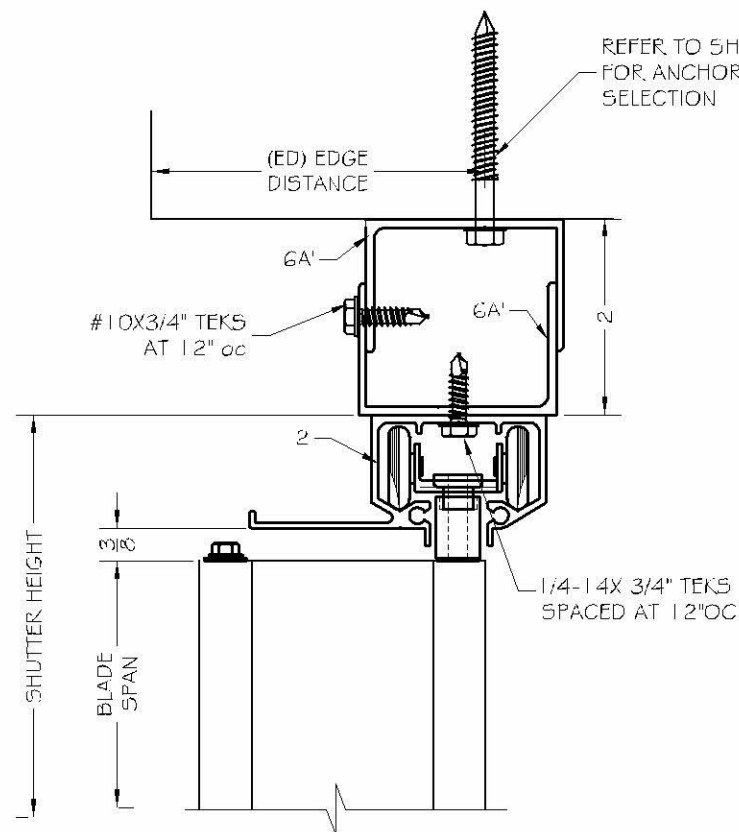
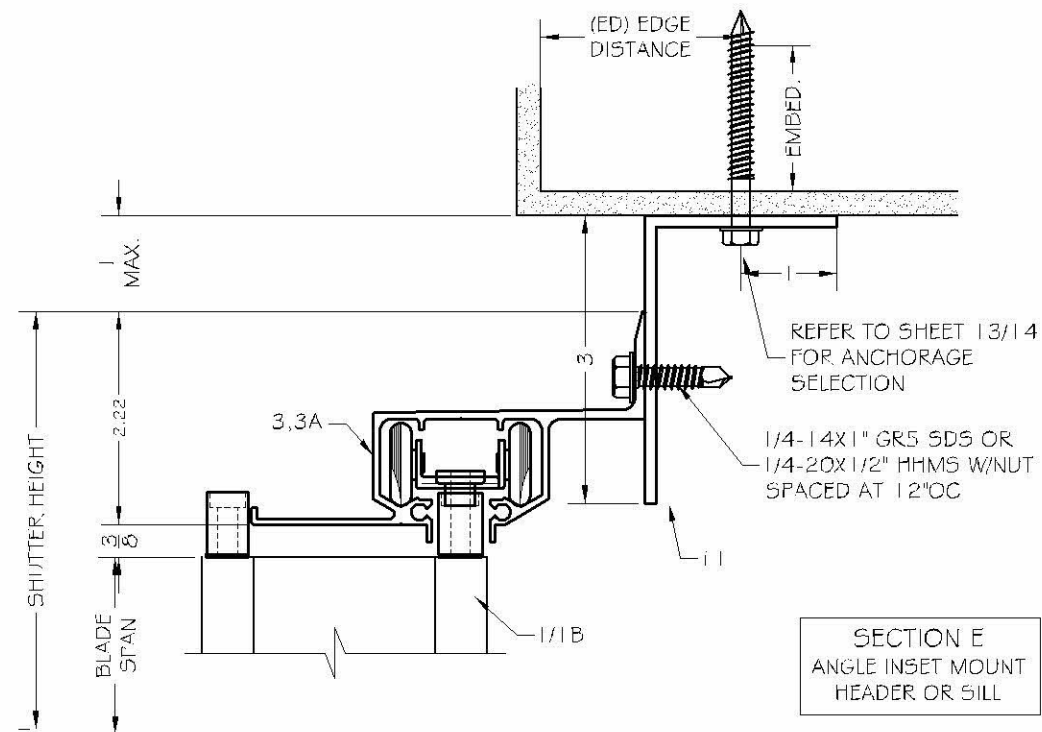
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TYPICAL SECTIONS



SECTION D
INSET MOUNT W/
TRACK 2 OR 2A
HEADER OR SILL



SECTION GH
ADJUSTABLE MOUNT
HEADER / SILL



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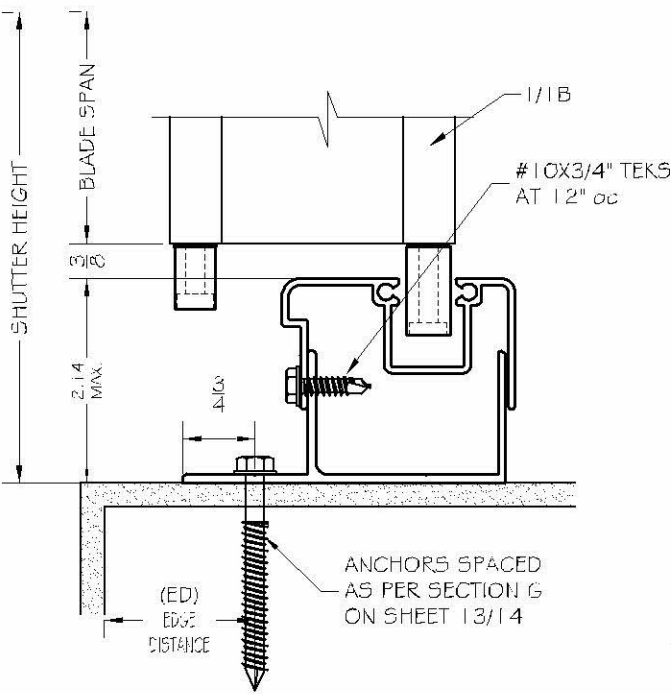
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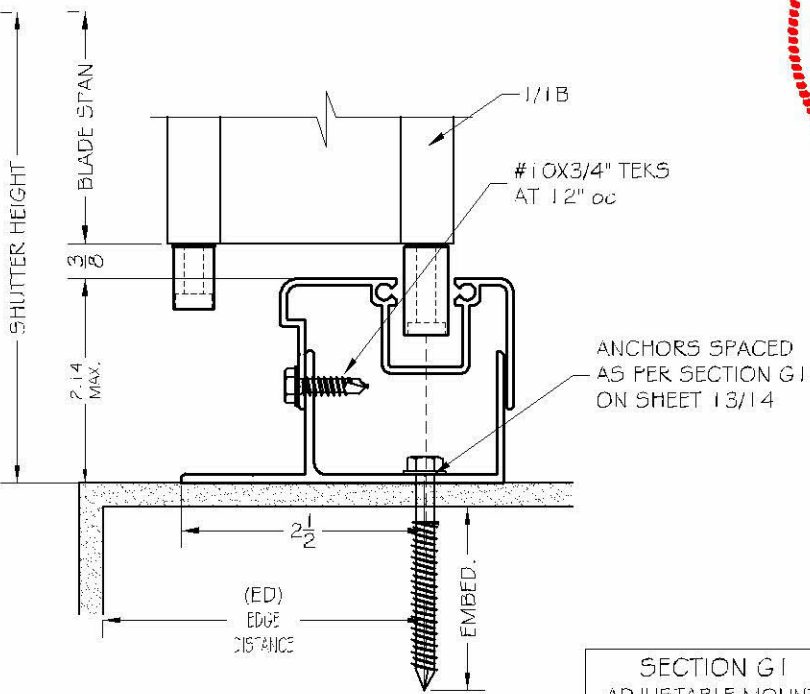
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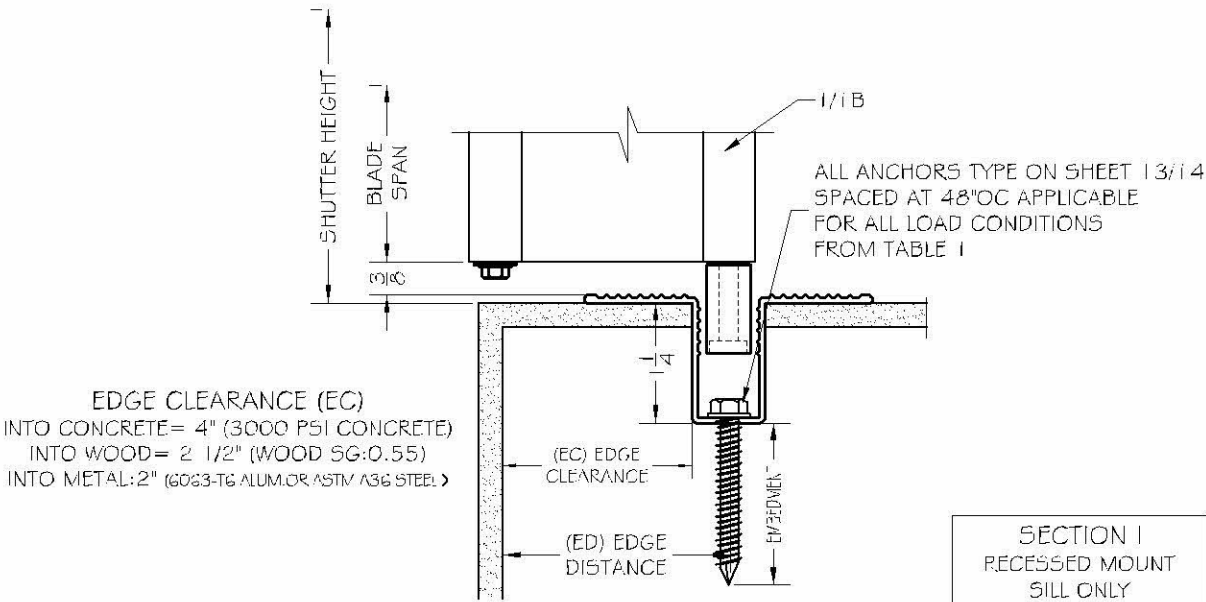
TYPICAL SECTIONS



SECTION G
ADJUSTABLE MOUNT
SILL ONLY

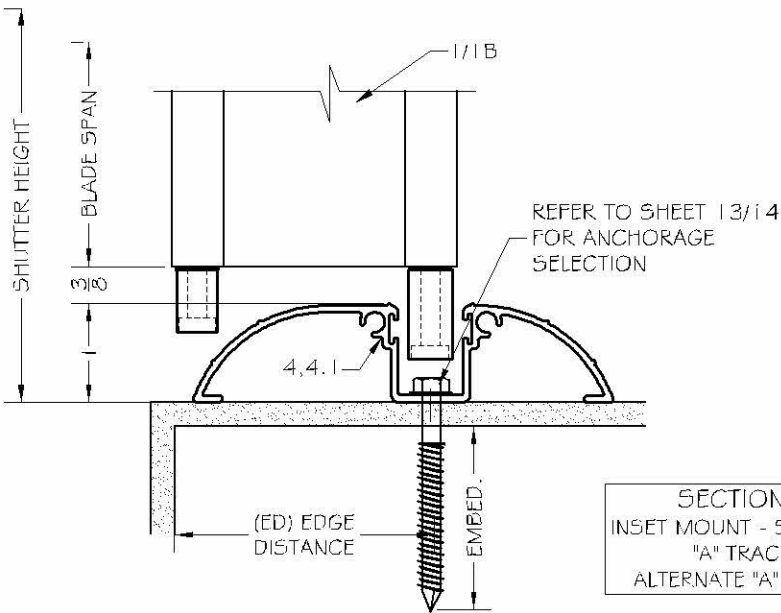


SECTION G I
ADJUSTABLE MOUNT
SILL ONLY



EDGE CLEARANCE (EC)
INTO CONCRETE= 4" (3000 PSI CONCRETE)
INTO WOOD= 2 1/2" (WOOD SG:0.55)
INTO METAL: 2" (6063-T6 ALUM. OR ASTM A36 STEEL)

SECTION I
RECESSED MOUNT
SILL ONLY



SECTION F
INSET MOUNT - SILL ONLY
"A" TRACK
ALTERNATE "A" TRACK



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OPTIONAL CURVED TRACK
BENT TRACK OR SEGMENTED TRACK OPTIONS

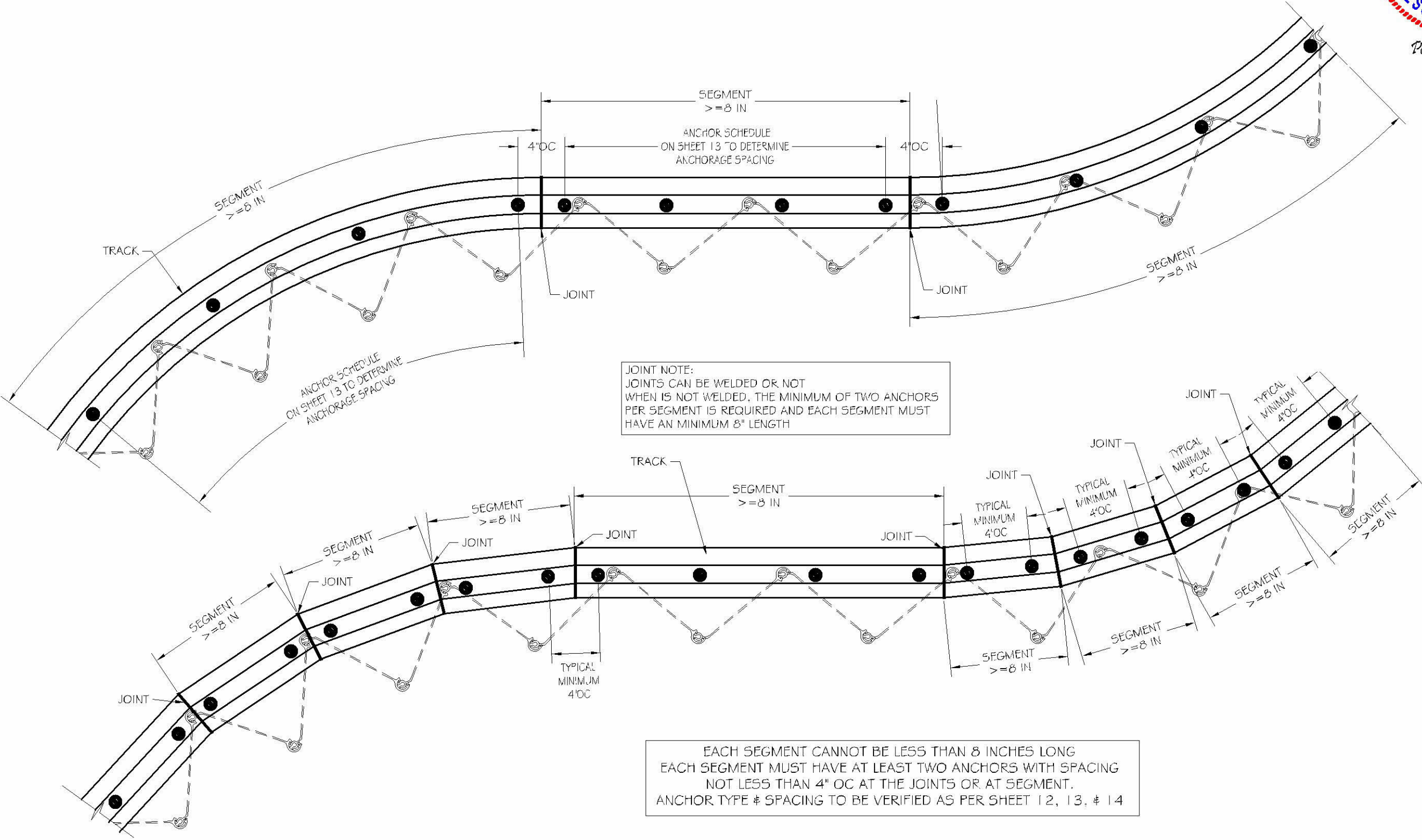


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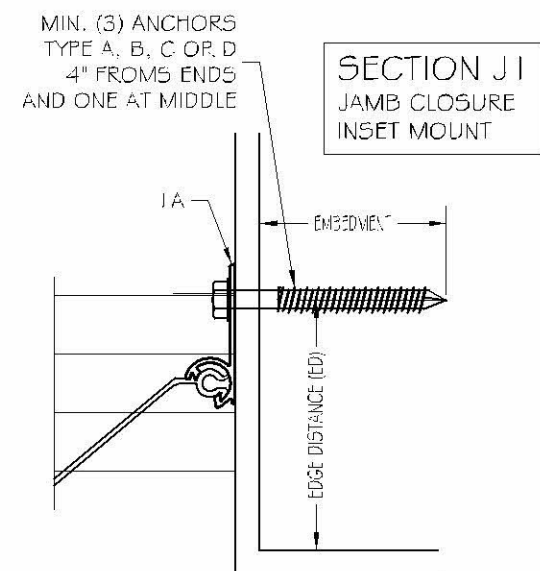
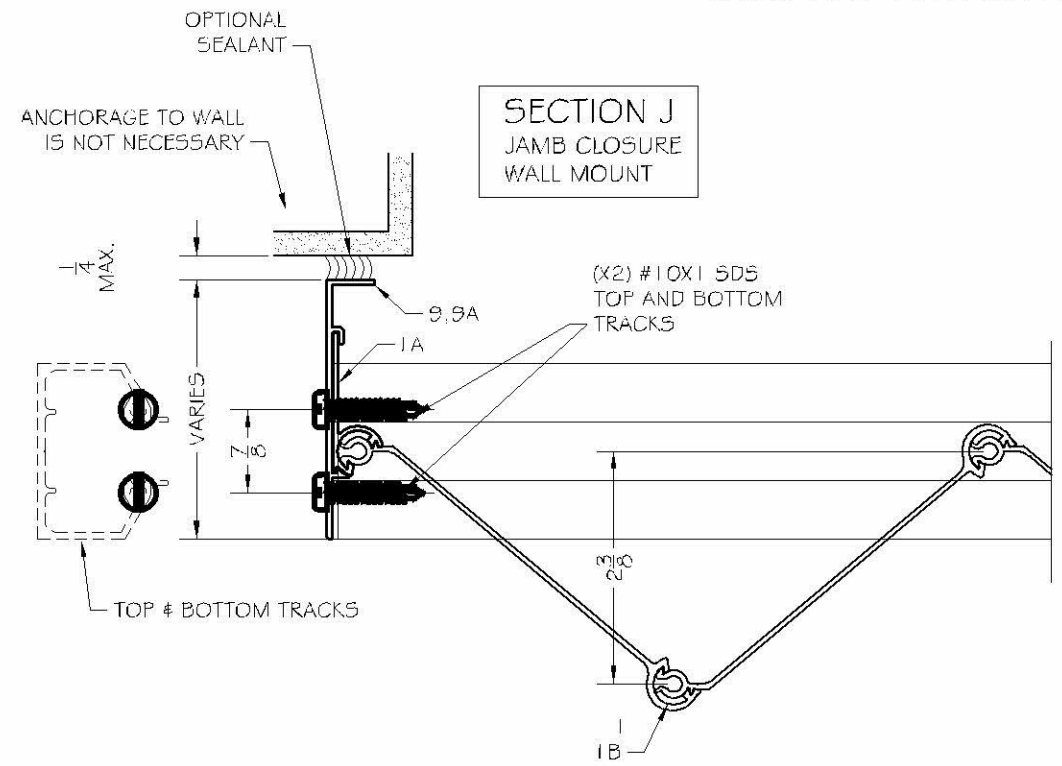
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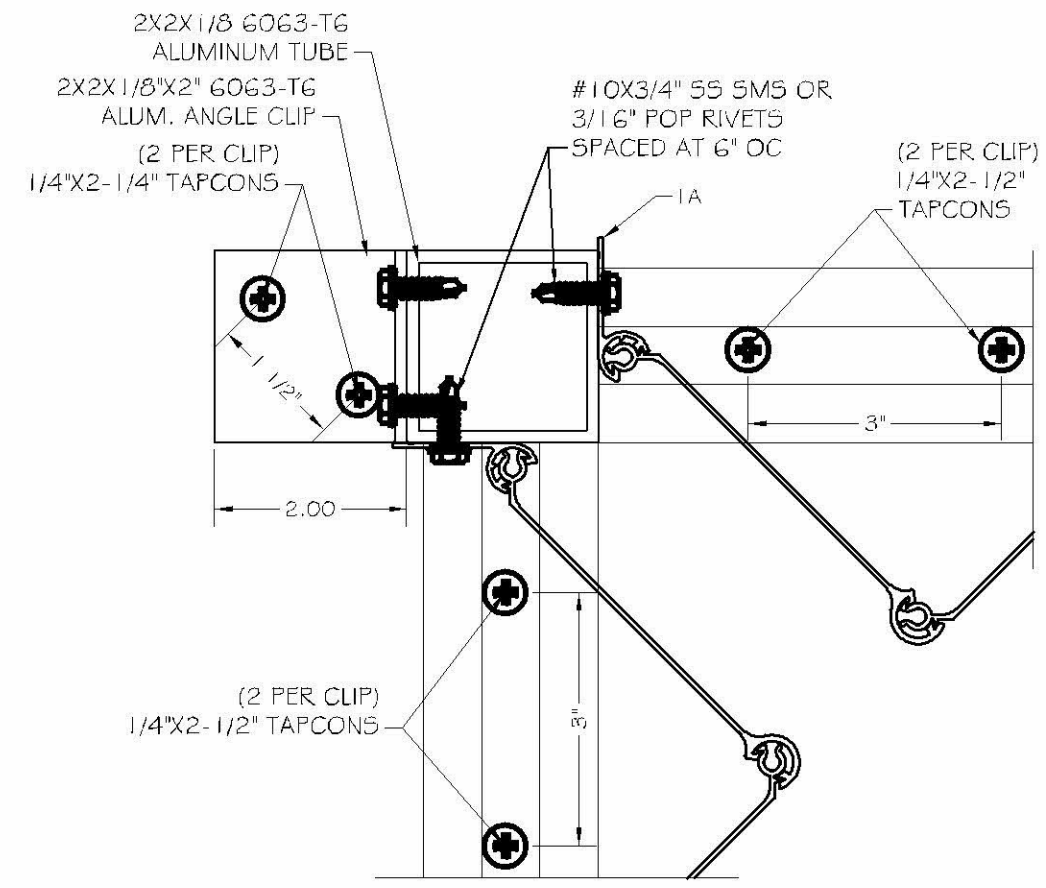
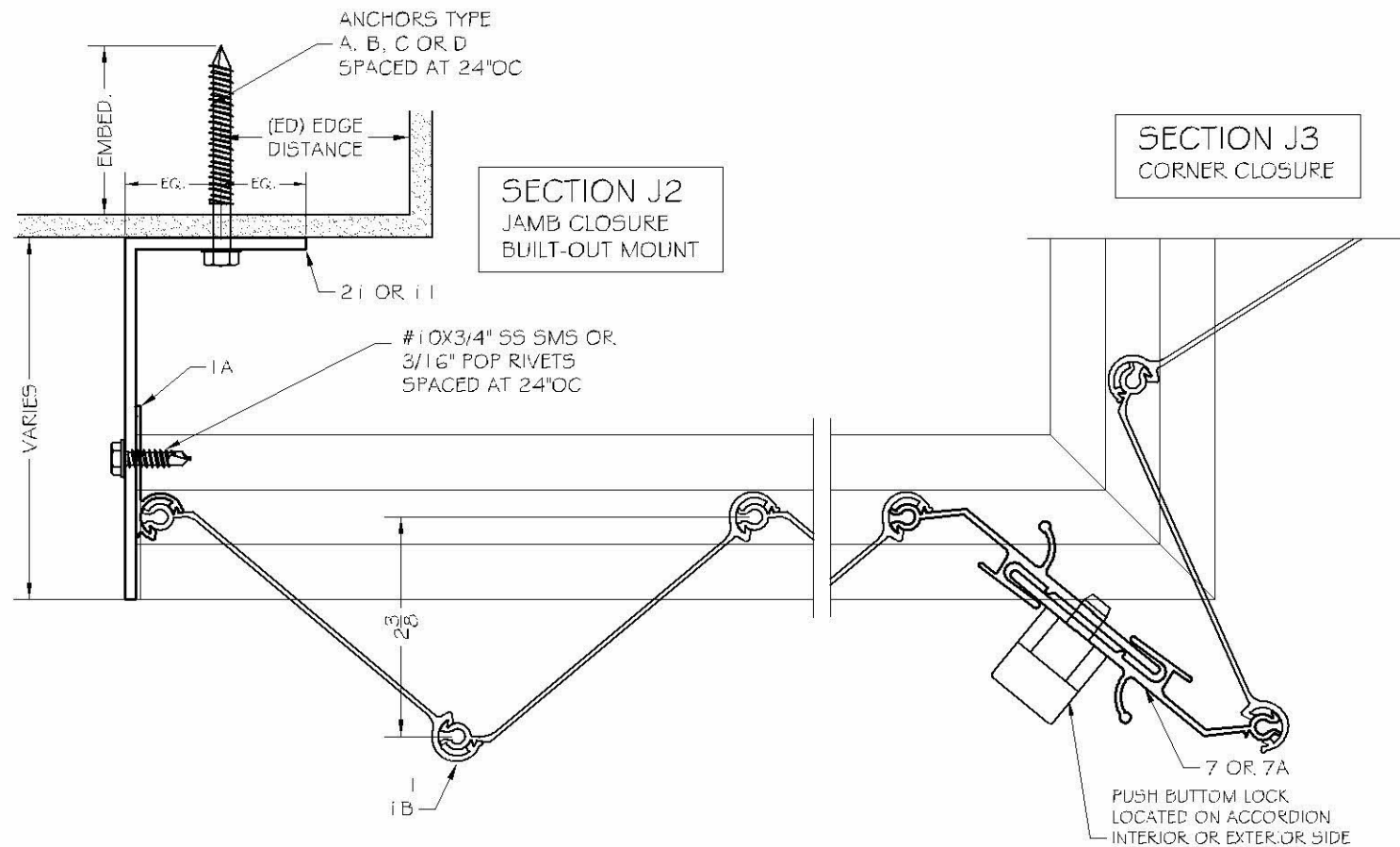
JOINT NOTE:
JOINTS CAN BE WELDED OR NOT
WHEN IS NOT WELDED, THE MINIMUM OF TWO ANCHORS
PER SEGMENT IS REQUIRED AND EACH SEGMENT MUST
HAVE AN MINIMUM 8" LENGTH

EACH SEGMENT CANNOT BE LESS THAN 8 INCHES LONG
EACH SEGMENT MUST HAVE AT LEAST TWO ANCHORS WITH SPACING
NOT LESS THAN 4" OC AT THE JOINTS OR AT SEGMENT.
ANCHOR TYPE & SPACING TO BE VERIFIED AS PER SHEET 12, 13, & 14

TYPICAL HORIZONTAL
JAMB AND CORNER SECTIONS J



SECTION J3.1
ALTERNATE
CORNER CLOSURE



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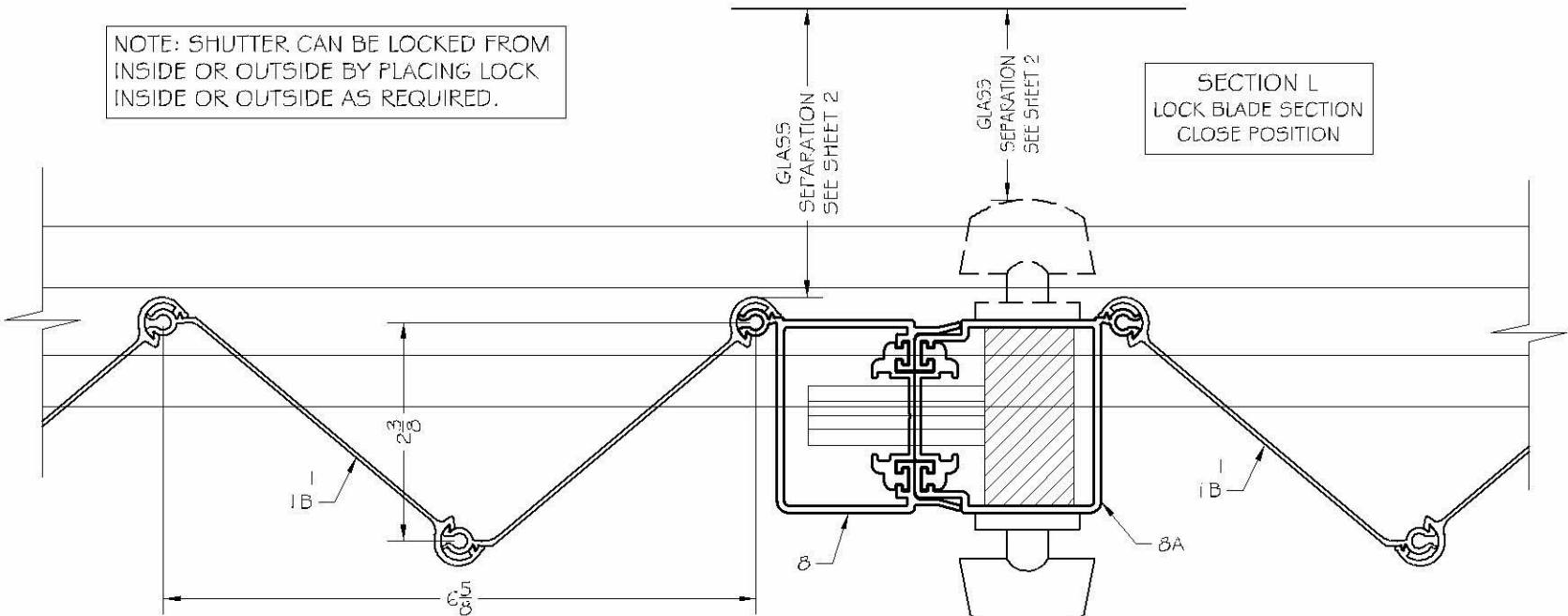
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TYPICAL HORIZONTAL SECTIONS
HD LOCK SECTIONS L

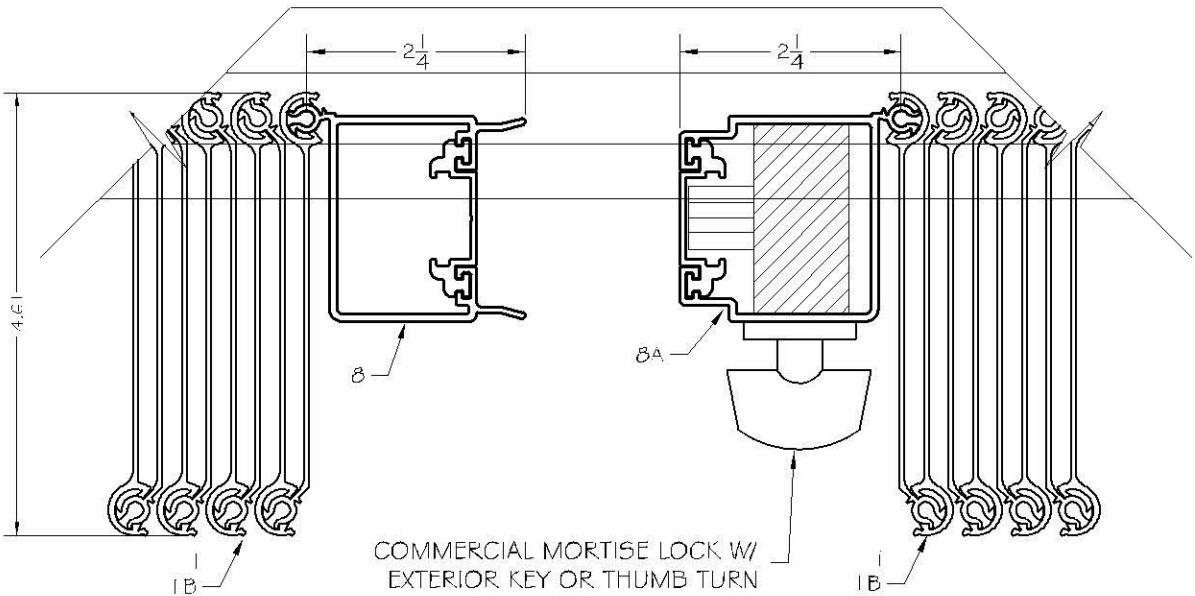
NOTE: SHUTTER CAN BE LOCKED FROM
INSIDE OR OUTSIDE BY PLACING LOCK
INSIDE OR OUTSIDE AS REQUIRED.

SECTION L
LOCK BLADE SECTION
CLOSE POSITION



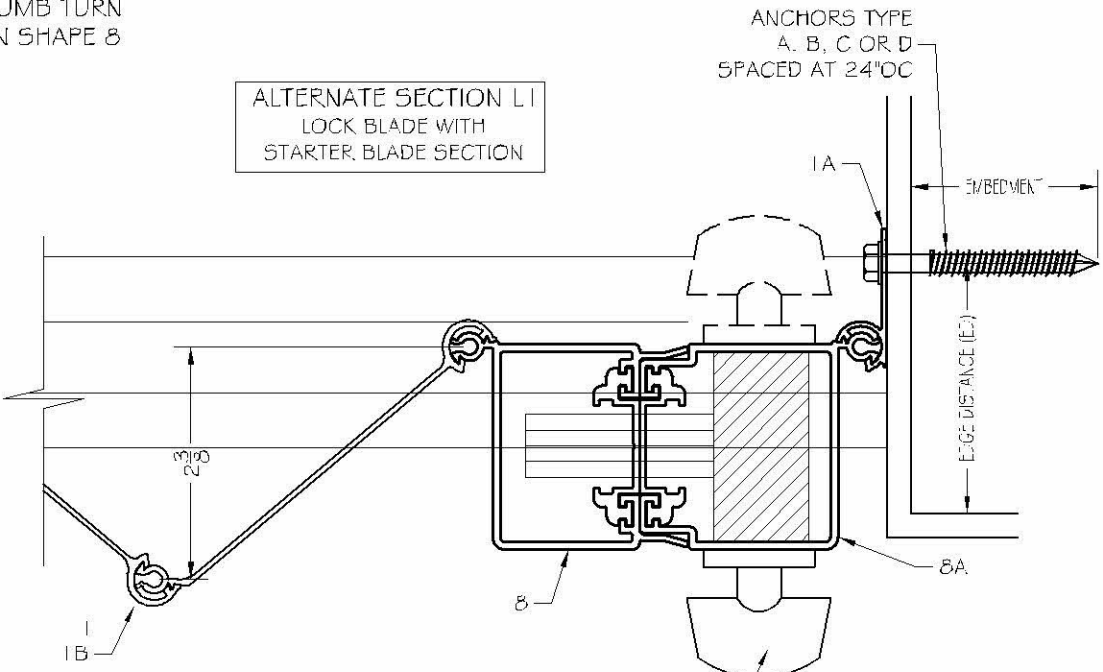
COMMERCIAL MORTISE LOCK W/
EXTERIOR KEY OR THUMB TURN
AND INSIDE THUMB TURN
INSTALLED ON SHAPE 8

SECTION L
LOCK BLADE SECTION
OPEN POSITION



COMMERCIAL MORTISE LOCK W/
EXTERIOR KEY OR THUMB TURN
AND INSIDE THUMB TURN
INSTALLED ON SHAPE 8

ALTERNATE SECTION L I
LOCK BLADE WITH
STARTER BLADE SECTION



COMMERCIAL MORTISE LOCK W/
EXTERIOR KEY OR THUMB TURN
AND INSIDE THUMB TURN
INSTALLED ON SHAPE 8



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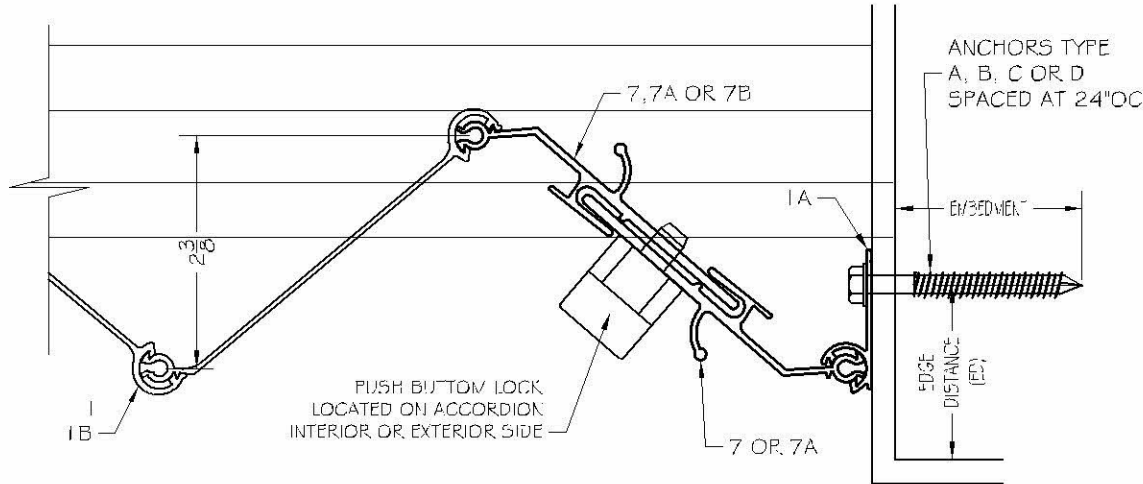
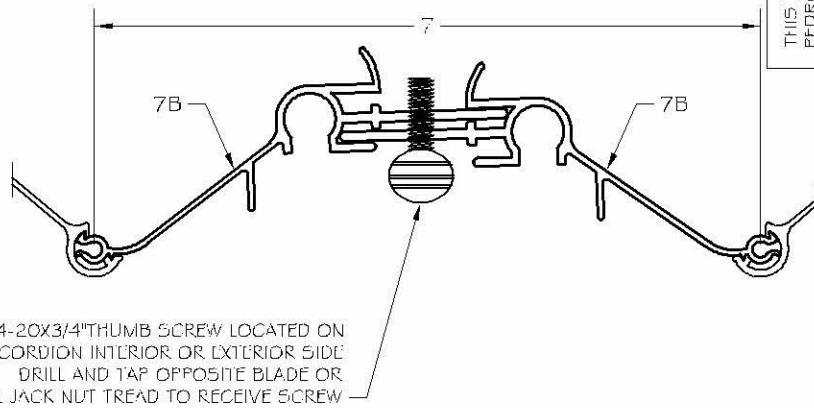
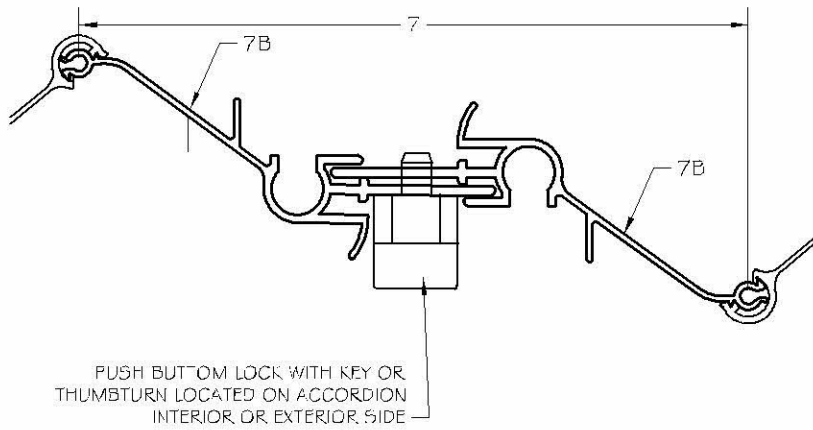
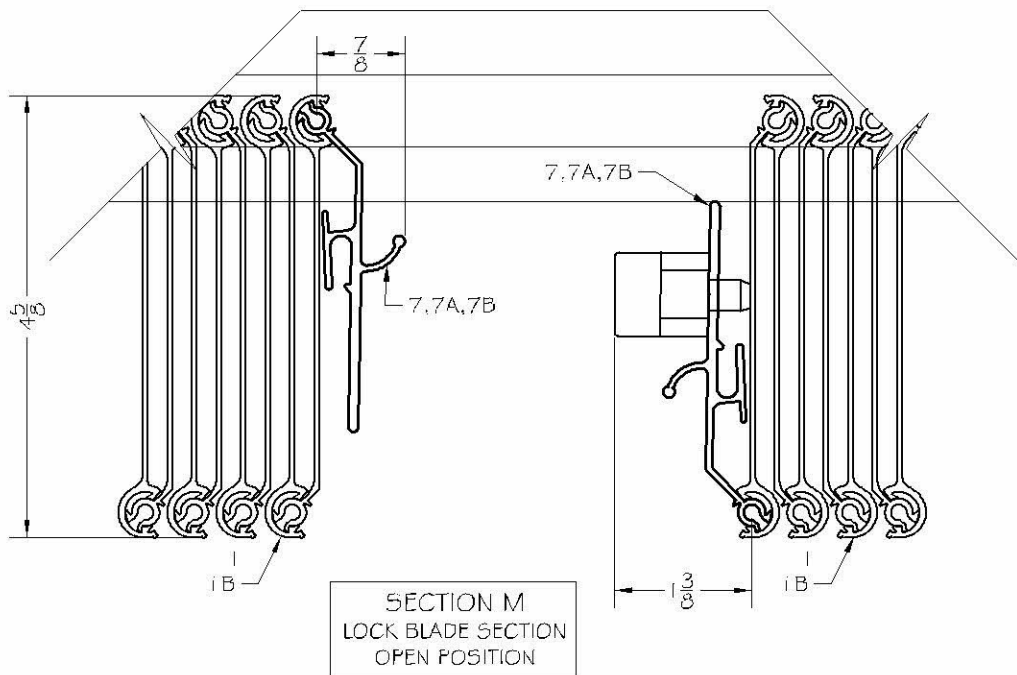
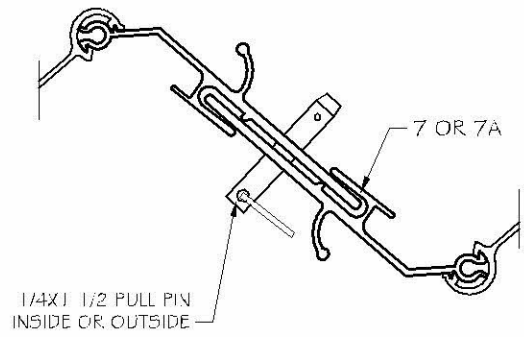
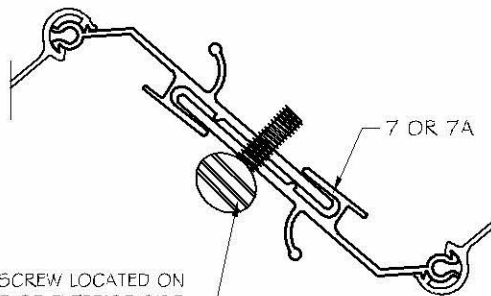
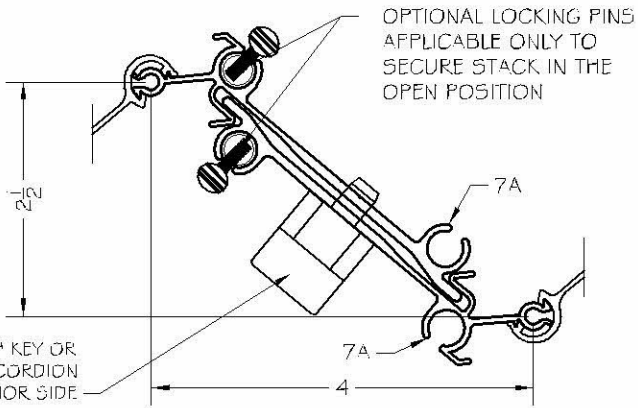
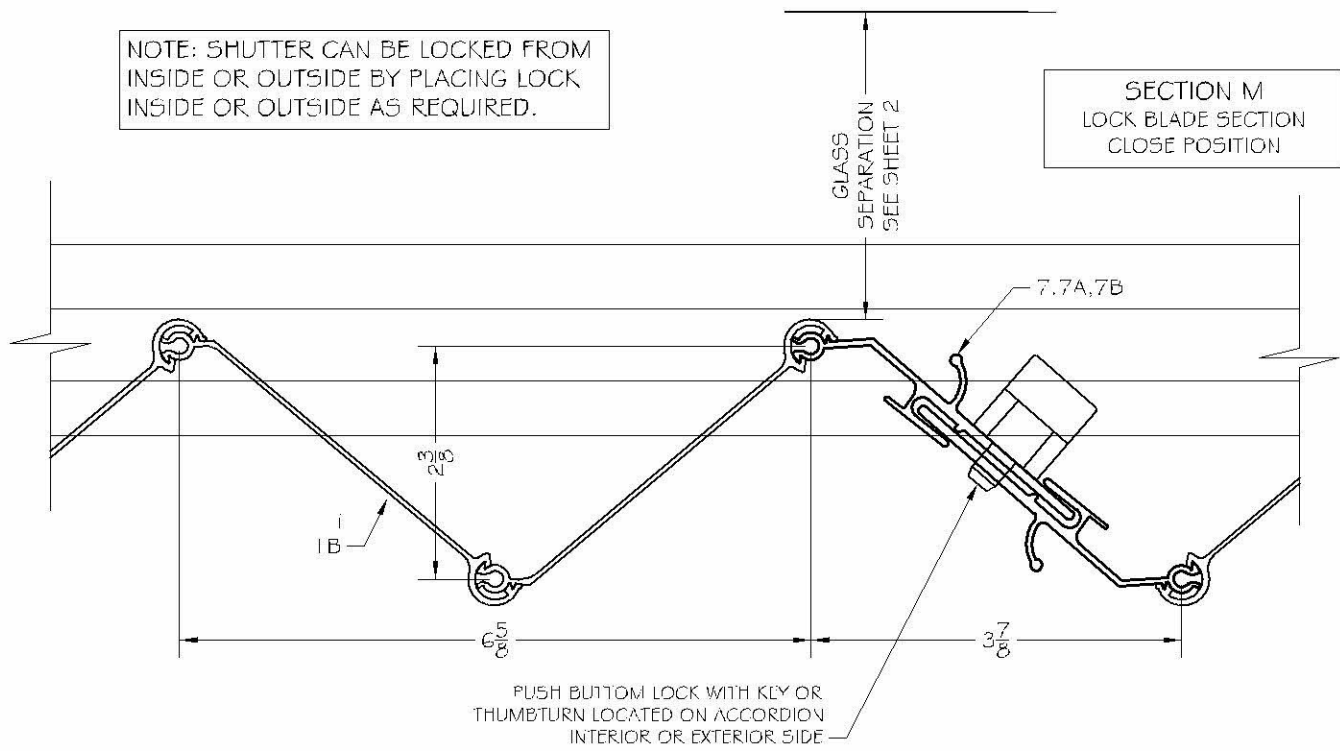
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TYPICAL HORIZONTAL
UNIMATE LOCK SECTIONS M

NOTE: SHUTTER CAN BE LOCKED FROM
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INSIDE OR OUTSIDE AS REQUIRED.



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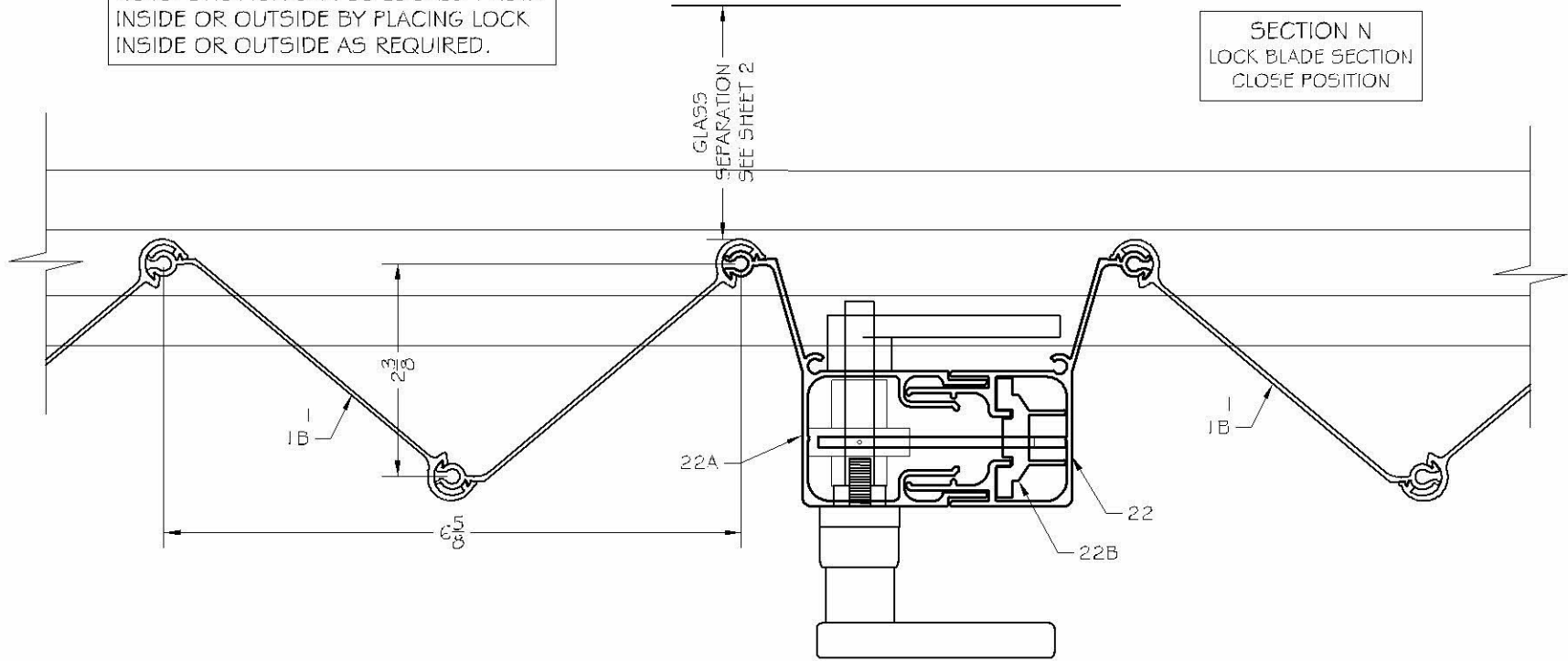
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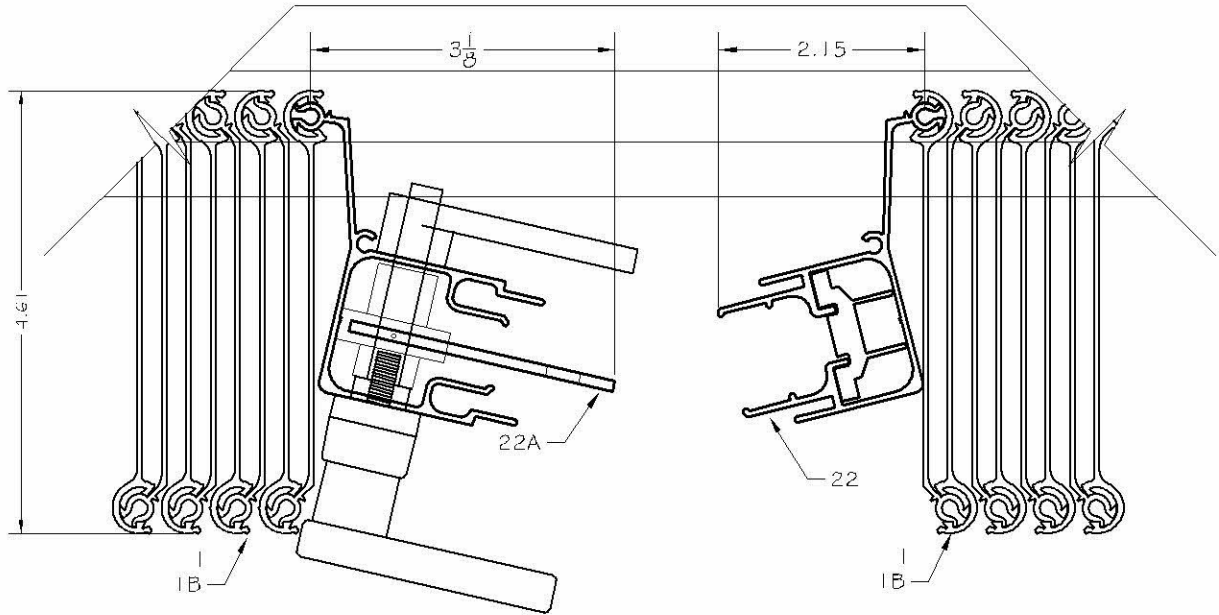
TYPICAL HORIZONTAL SECTIONS
STD LOCK SECTIONS N

NOTE: SHUTTER CAN BE LOCKED FROM
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INSIDE OR OUTSIDE AS REQUIRED.

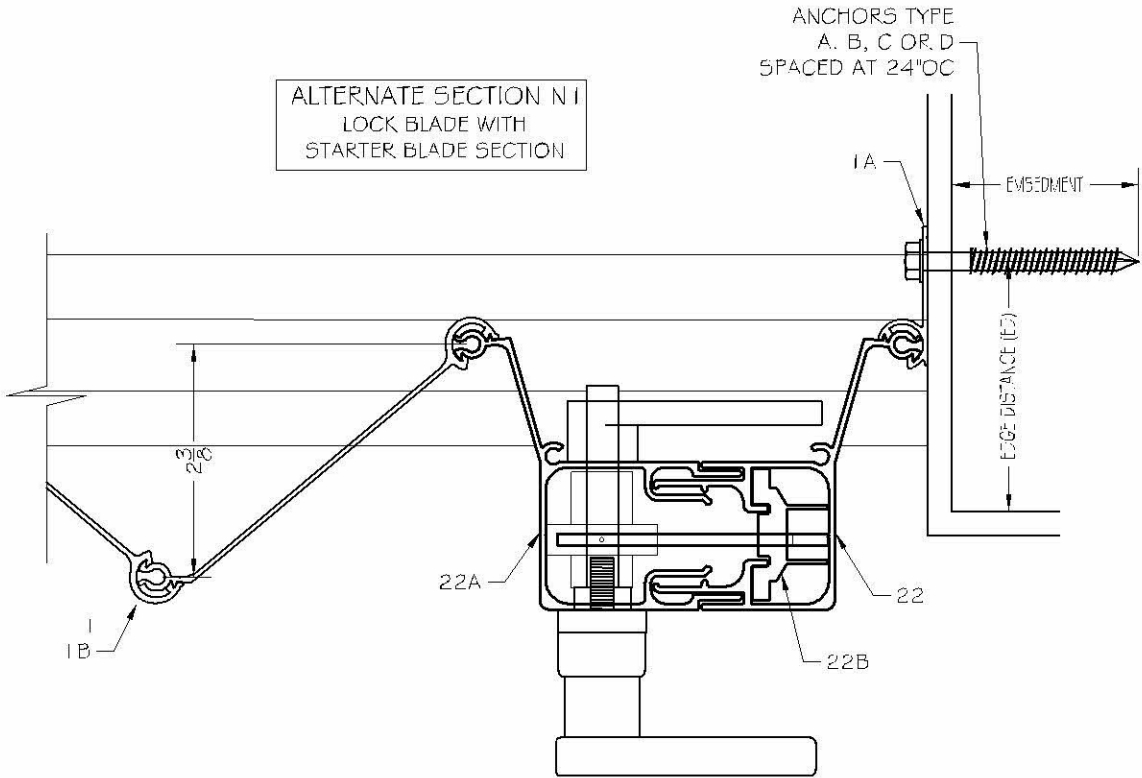
SECTION N
LOCK BLADE SECTION
CLOSE POSITION



SECTION N
LOCK BLADE SECTION
OPEN POSITION



ALTERNATE SECTION N I
LOCK BLADE WITH
STARTER BLADE SECTION



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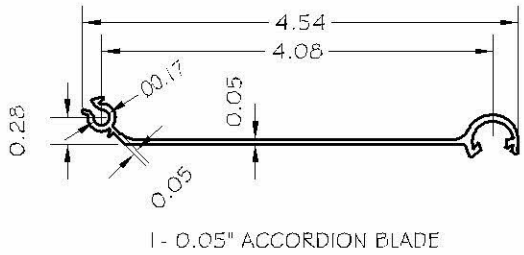
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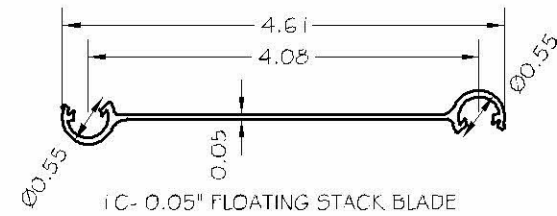
ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD., 247
PLANTATION, FL 33324
ENGINEER SEAL
PEDRO DE FIGUEIREDO
PEMF@AOL.COM
TE 52603



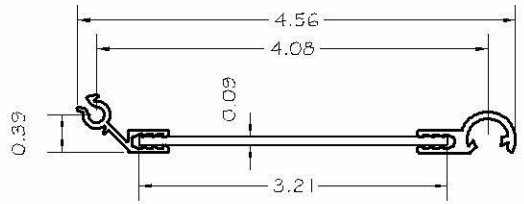
SHUTTER COMPONENTS



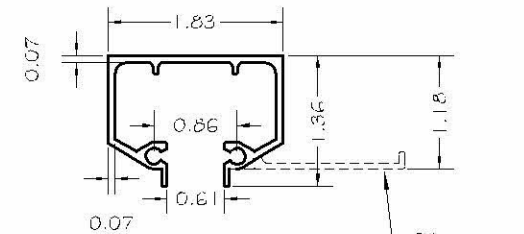
1- 0.05" ACCORDION BLADE



1C- 0.05" FLOATING STACK BLADE

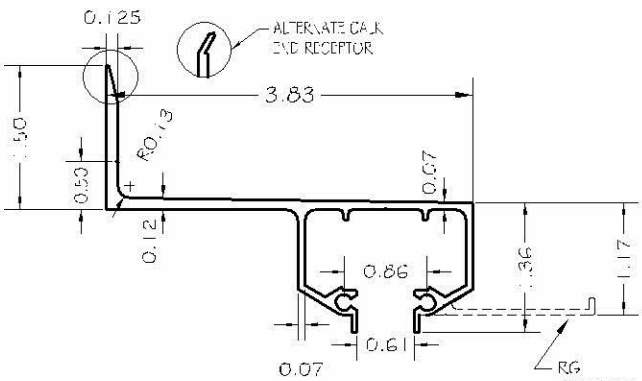


1B- COMPOSITE ALUMINUM / LEXAN BLADE
LEXAN POLYCARBONATE APPROVED
AS PER NOA 13-07 17.01
XL102UV



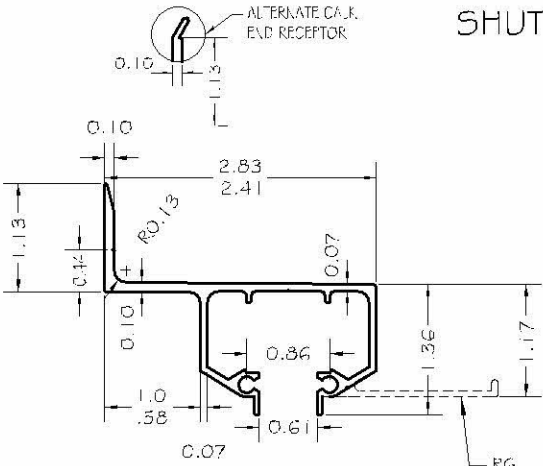
2- INSET TRACK W/ RG
HEADER / SILL MOUNT

2.1- INSET TRACK W/O RG
HEADER / SILL MOUNT



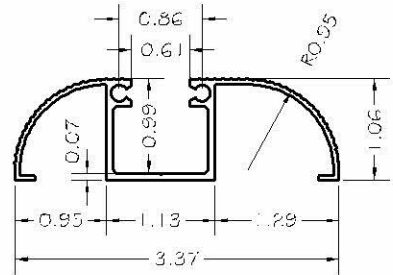
3A- 2" BUILD-OUT TRACK
HEADER / SILL MOUNT

3A.1- 2" BO TRACK W/O
RAIN GUARD (RG)

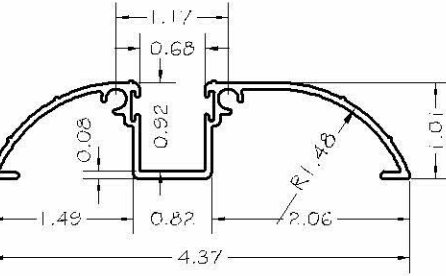


3- 1" // 3/4" BUILT-OUT TRACK
HEADER / SILL MOUNT

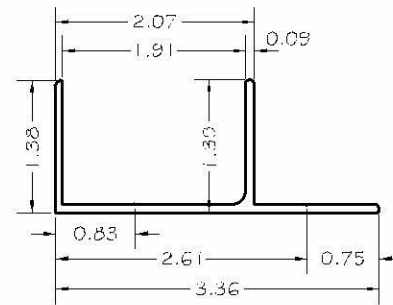
3.1- 1" // 3/4" BO TRACK W/O
RAIN GUARD (RG)



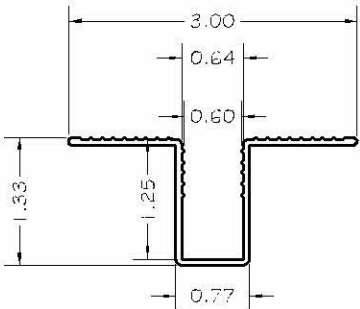
4- \"A\" TRACK
SILL MOUNT ONLY



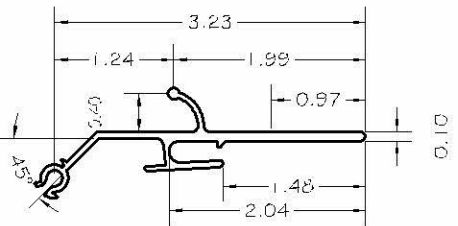
4.1- ALTERNATE \"A\" TRACK
SILL MOUNT ONLY



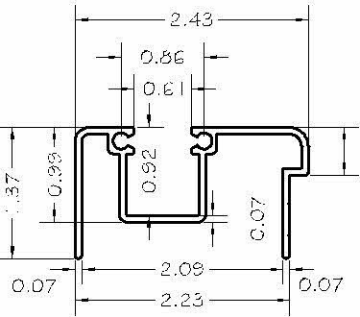
6A- ADJUSTABLE MALE
HEADER/ SILL MOUNT



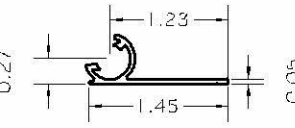
5- RECESSED TRACK
SILL MOUNT ONLY



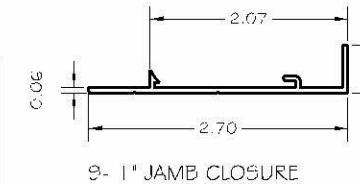
7- UNIMATE W/O LP
LOCKING BLADES



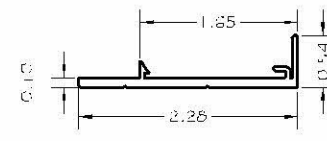
6- ADJUSTABLE FEMALE
HEADER/ SILL MOUNT



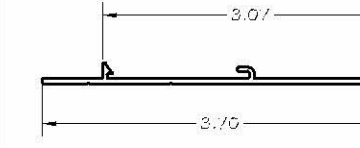
1A- STARTER BLADE



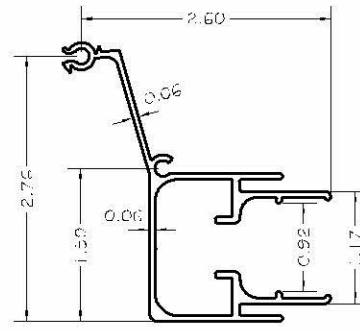
9- 1" JAMB CLOSURE



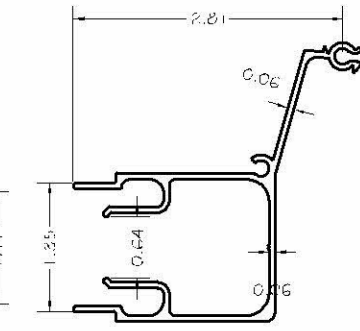
9B- HD JAMB CLOSURE



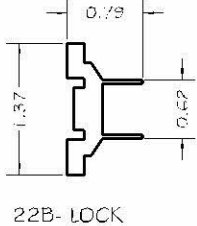
9A- 2" JAMB CLOSURE



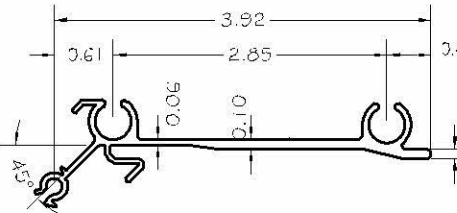
22- FEMALE STD
LOCKING BLADE



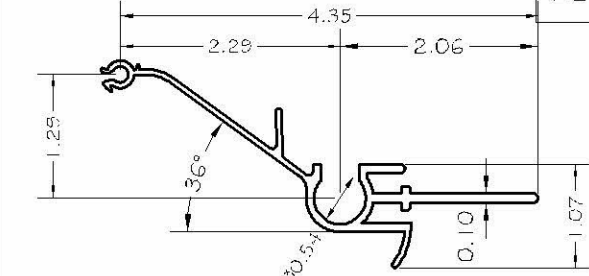
22A- MALE STD
LOCKING BLADE



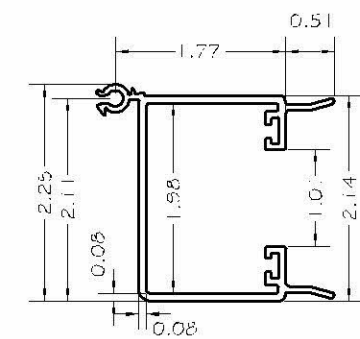
22B- LOCK
KEEPER
INSERT



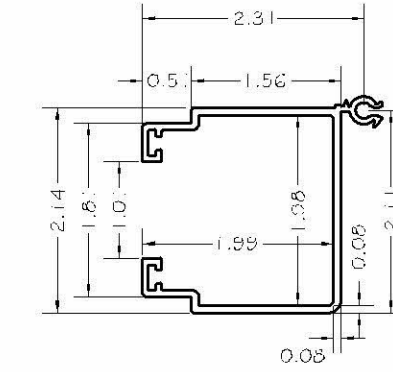
7A- UNIMATE W/ LP
LOCKING BLADES



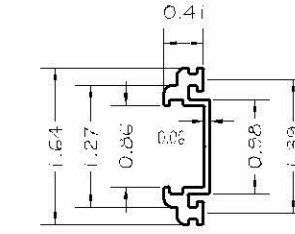
7B- UNIVERSAL
LOCKING BLADES



8- FEMALE HD
LOCKING BLADE



8A- MALE HD
LOCKING BLADE



8B- ADAPTOR FILLER
USE WITH 8 AND 8A



Pedro De Figueiredo
PE 52609
12/01/2023

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PEDRO DE FIGUEIREDO ON THE DATE INDICATED HERE.



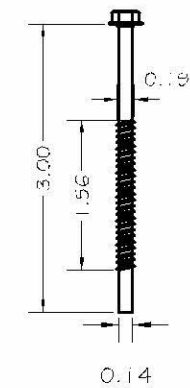
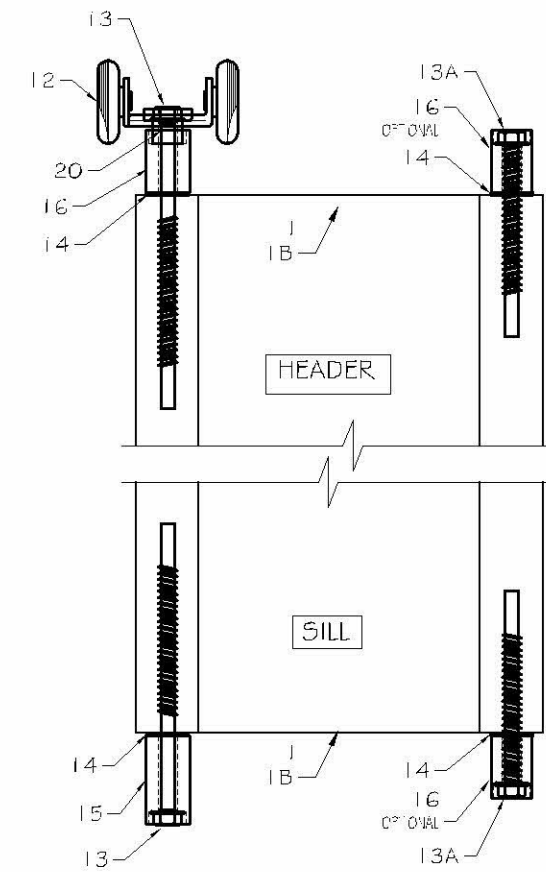
ASSOCIATION MEMBER:
MAXIMUM SHUTTER SYSTEMS, INC
2000 STIRLING ROAD
DANIA BEACH - FL 33004

SCALE:
NA
DATE:
12/01/2023
DRAWING #
23-220
SHEET
11 OF 18

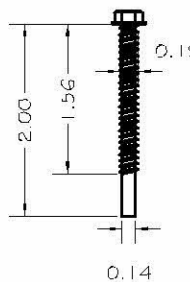
ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD. 247
PLANTATION, FL 33324
ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609
PFMIF@AOL.COM



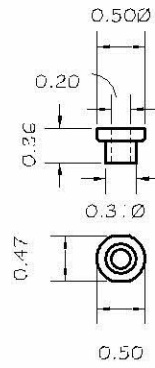
TYPICAL BLADE ASSEMBLY



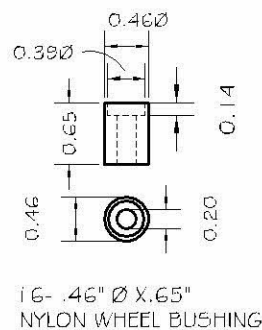
13- #10x3" HH
BLADE SCREW
410 STAINLESS STEEL



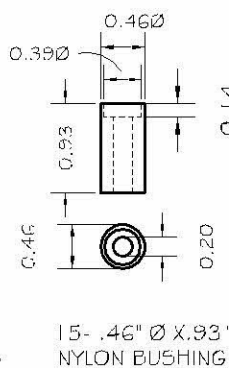
13A- #10x2" HH
BLADE SCREW
410 STAINLESS STEEL



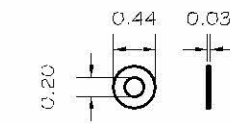
20- 1/2" Ø x 0.36"
NYLON WHEEL
SPACER



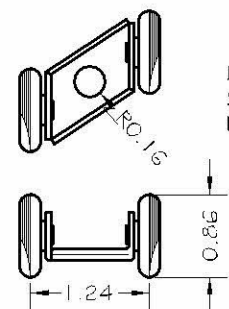
16- .46" Ø x .65"
NYLON WHEEL BUSHING



15- .46" Ø x .93"
NYLON BUSHING



14- 0.03" x 0.44" Ø
STAINLESS STEEL
FLAT WASHER



12- WHEEL CARRIER,
STAMPED SS WITH
NYLON WHEELS

BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	MANUFACTURER
1	BLADE	6063-T6 ALUMINUM	M.S.S. INC.
1A	STARTER BLADE	6063-T6 ALUMINUM	M.S.S. INC.
1B	COMPOSITE BLADE	6063-T6 / LEXAN	M.S.S. INC.
1C	FLOATING STACK BLADE	6063-T6 ALUMINUM	M.S.S. INC.
2	CEILING TRACK	6063-T6 ALUMINUM	M.S.S. INC.
3	1" WALL MOUNT TRACK	6063-T6 ALUMINUM	M.S.S. INC.
3A	2" WALL MOUNT TRACK	6063-T6 ALUMINUM	M.S.S. INC.
4	"A" TRACK	6063-T6 ALUMINUM	M.S.S. INC.
4.1	ALTERNATE "A" TRACK	6063-T6 ALUMINUM	M.S.S. INC.
5	RECESSED TRACK	6063-T6 ALUMINUM	M.S.S. INC.
6	ADJUSTABLE FEMALE TRACK	6063-T6 ALUMINUM	M.S.S. INC.
6A	ADJUSTABLE MALE TRACK	6063-T6 ALUMINUM	M.S.S. INC.
7	UNIMATE LOCK BLADE W/O LP	6063-T6 ALUMINUM	M.S.S. INC.
7A	UNIMATE LOCK BLADE W/ LP	6063-T6 ALUMINUM	M.S.S. INC.
8	HD FEMALE LOCK BLADE	6063-T6 ALUMINUM	M.S.S. INC.
8A	HD MALE LOCK BLADE	6063-T6 ALUMINUM	M.S.S. INC.
8B	HD ADAPTOR FILLER	6063-T6 ALUMINUM	M.S.S. INC.
9	1" JAMB CLOSURE	6063-T6 ALUMINUM	M.S.S. INC.
9A	2" JAMB CLOSURE	6063-T6 ALUMINUM	M.S.S. INC.
10	1/4-2X ANGLE	6063-T6 ALUMINUM	M.S.S. INC.
11	1/8-2X ANGLE	6063-T6 ALUMINUM	M.S.S. INC.
12	WHEEL CARRIER	PLATED STEEL/ NYLON	M.S.S. INC.
13	#10x3" HH BLADE SCREW	410 STAINLESS STEEL	M.S.S. INC.
13A	#10x2" HH BLADE SCREW	410 STAINLESS STEEL	M.S.S. INC.
14	0.44" Ø FLAT WASHER	STAINLESS STEEL	M.S.S. INC.
15	0.46" Ø x 0.93" BUSHING	NYLON	M.S.S. INC.
16	0.46" Ø x 0.65" WHEEL BUSHING	NYLON	M.S.S. INC.
19	PUSH-BUTTON LOCK		
20	1/2" x 3/8" WHEEL SPACER	NYLON	M.S.S. INC.
21	1/16"-1X2, 1X2.5, 1X4, 1.5X3 ANGLES	6063-T5 ALUMINUM	M.S.S. INC.
22	STD FEMALE LOCK BLADE	6063-T6 ALUMINUM	M.S.S. INC.
22A	STD MALE LOCK BLADE	6063-T6 ALUMINUM	M.S.S. INC.
22B	STD LOCK KEEPER	6063-T6 ALUMINUM	M.S.S. INC.

ANCHOR SCHEDULE

TYPE	DESCRIPTION	EMB	E.D.
A	1/4" ITW TAPCON INTO 3000 PSI CONCRETE	1.75	3.0
	1/4" DEWALT ULTRAON INTO 2700 PSI CONCRETE	1.75	2.5
A1	1/4" ITW TAPCON INTO CONCRETE BLOCK	1.25	3.0
	1/4" DEWALT ULTRAON INTO CONCRETE BLOCK	1.25	2.5
B	1/4-20X1 ALL POINTS SOLID-SET INTO 3.0 KSI CONCRETE	0.875	3.0
B1	1/4-20X1 ALL POINTS SOLID-SET INTO CONCRETE BLOCK	0.875	3.0
C	1/4" WOOD LAG SCREW INTO G=.55 WOOD	1.50	0.75
D	1/4"-14 SELF DRILLING SCREWS INTO 1/8" STEEL OR ALUMINUM	---	0.75
E	1/4" CRETE-FLEX SS4 INTO 3000 PSI CONCRETE	1.75	3.0
E1	1/4" CRETE-FLEX SS4 INTO CONCRETE BLOCK (2000 PSI)	1.25	3.0

NOTES: 1- ED: EDGE DISTANCE SHALL BE BEYOND WALL DRESSING
2- EMB: EMBEDMENT SHALL BE BEYOND WALL DRESSING
3- 1/4" TAPCON, 1/4" CRETE-FLEX, #14 WOOD SCREWS CAN BE USED IN REPLACE OF 1/4" LAG SCREWS
4- ANCHORS TYPE A CAN BE USED WITH REDUCED EDGE DISTANCE (3.0>E.D.>= 1 1/4") WHEN THE TABLE ANCHOR SPACING VALUES ON SHEET 13/14 ARE MULTIPLIED BY 0.95. THIS IS APPLICABLE ONLY FOR MOUNTS TYPE A, B, B1, B2, B3, B4 AND C.
5- THE ANCHOR TYPE A1 CAN BE USE WITH REDUCED EDGE DISTANCE OF 1" FOR ITW TAPCONS AND 2" FOR ULTRAONS FOR INSTALLATIONS WITH MOUNTS TYPE A, B, B1, B2, B3, B4 AND C. THE TABLE VALUES ON SHEET 13 CAN BE USED W/O REDUCTION.



Pedro De Figueiredo
PE 52609
12/01/2023

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PEDRO DE FIGUEIREDO ON THE DATE INDICATED HERE.



RHINO
ACCORDION SHUTTER



ASSOCIATION MEMBER:
MAXIMUM SHUTTER SYSTEMS, INC
2000 STIRLING ROAD
DANIA BEACH - FL 33004

SCALE:
NA
DATE:
12/01/2023
DRAWING #
23-220
SHEET
12 OF 18

ANCHOR SPACING TABLE
30 PSF <= PD <=70 PSF



Pedro De Figueiredo
PE 52609
12/01/2023

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ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD. 247
PLANTATION, FL 33324
PEMF@AOL.COM
TE 52609



ASSOCIATION MEMBER:
MAXIMUM SHUTTER SYSTEMS, INC
2000 STIRLING ROAD
DANIA BEACH - FL 33004

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NA
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12/01/2023
DRAWING #
23-220
SHEET
13 OF 18

		MOUNT TYPE																																										
		A, B1, B2, B3, B4									B, C								D					E					GH					G					G1, F					
PD	SPAN	ANCHOR TYPES									ANCHOR TYPES									ANCHOR TYPES					ANCHOR TYPES					ANCHOR TYPES					ANCHOR TYPES					ANCHOR TYPES				
		A	A1	B	B1	C	D	E	E1	A	A1	B	B1	C	D	E	E1	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E							
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ANCHOR SPACING TABLE
80 PSF <= PD <= 160 PSF



Pedro De Figueiredo
PE 52609
12/01/2023

ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD., 247
PLANTATION, FL 33324
PEMF@AOL.COM
TE 52603



ASSOCIATION MEMBER:
MAXIMUM SHUTTER SYSTEMS, INC
2000 STIRLING ROAD
DANIA BEACH - FL 33004

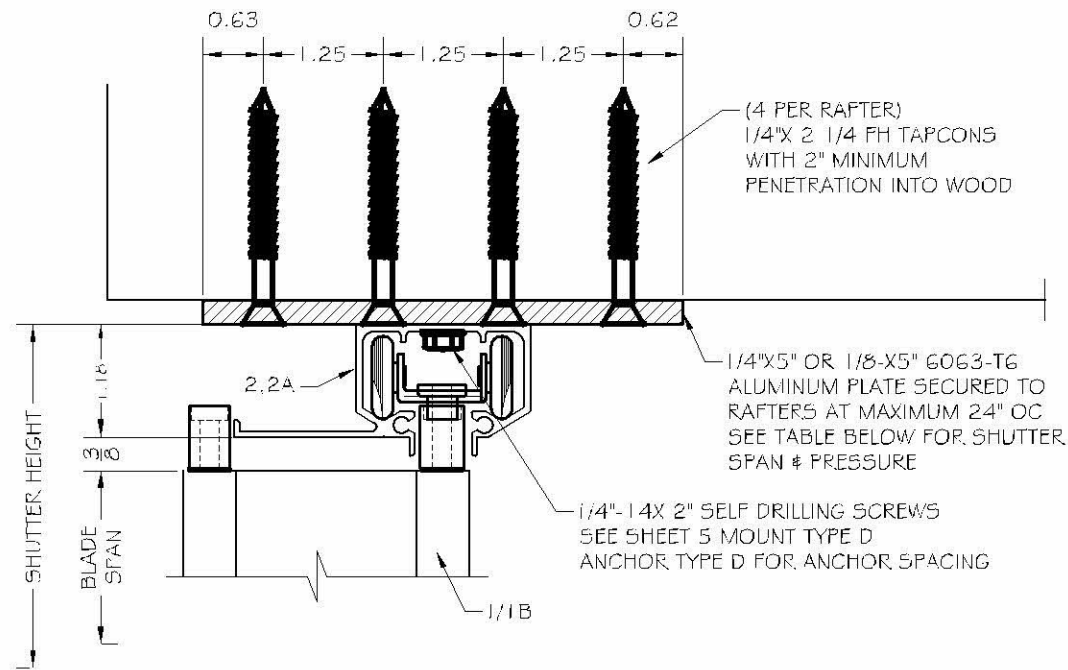
SCALE:
NA
DATE:
12/01/2023
DRAWING #
23-220
SHEET
14 OF 18

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
PEDRO DE FIGUEIREDO ON THE DATE INDICATED HERE.

		MOUNT TYPE																																									
		A, B1, B2, B3, B4								B, C								D					E					GH					G					G1, F					
		ANCHOR TYPES								ANCHOR TYPES								ANCHOR TYPES					ANCHOR TYPES					ANCHOR TYPES					ANCHOR TYPES										
PD	SPAN	A	A1	B	B1	C	D	E	E1	A	A1	B	B1	C	D	E	E1	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E						
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NOTE: SEE SHEET 12 FOR ANCHOR TYPE AND SELECTION

SECTION X
TRACK 2 OR 2A INSET MOUNT
SECURED TO AN ALUMINUM PLATE
BETWEEN WOOD TRUSSES



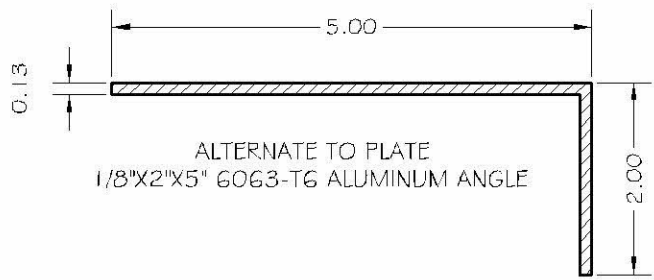
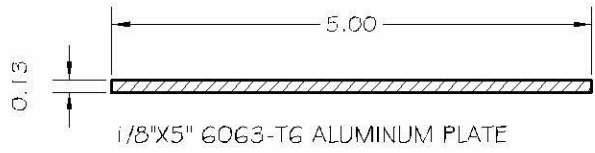
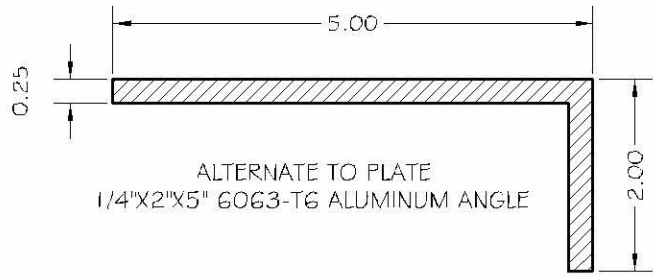
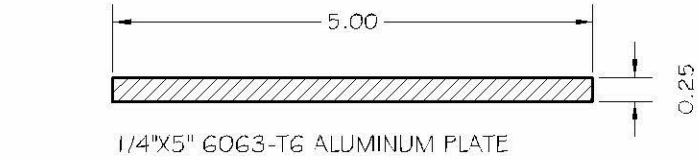
ALLOWABLE DESIGNED PRESSURES
FOR SECTION X WITH 1/4" ALUMINUM PLATE

BLADE SPAN (IN)	MAXIMUM DESIGNED PRESSURE (PSF)	
	BLADE 1	BLADE 1B
60	±159	±159
72	±132	±132
84	±113	±113
90	±106	±106
108	± 88	± 88
126	± 68	± 68
132	± 62	± 61
144	+48, -52	+45, -47
162	+30, -40	+28, -33

ALLOWABLE DESIGNED PRESSURES
FOR SECTION X WITH 1/8" ALUMINUM PLATE

BLADE SPAN (IN)	MAXIMUM DESIGNED PRESSURE (PSF)	
	BLADE 1	BLADE 1B
60	±99	±99
72	±82	±82
84	±71	±71
90	±66	±66
108	±55	±55
126	±47	±47
132	±45	±45
144	±41	±41
162	±30	+28, -30

NOTE: I- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES



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9715 W. BROWARD BLVD., 247
PLANTATION, FL 33324
ENGINEER SEAL
PEDRO DE FIGUEIREDO
PEMF@AOL.COM
TE 52603



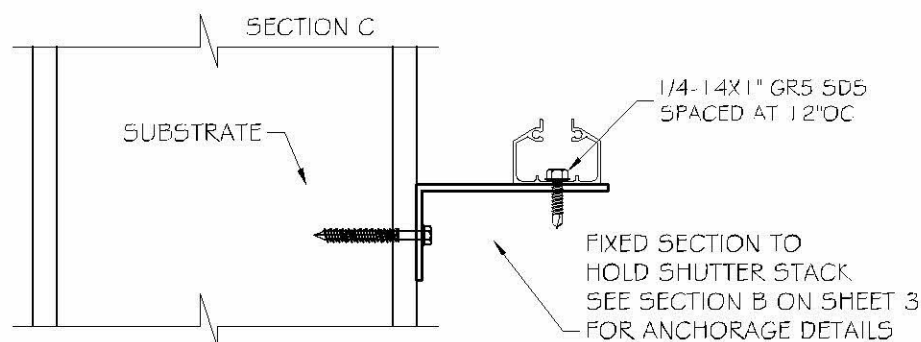
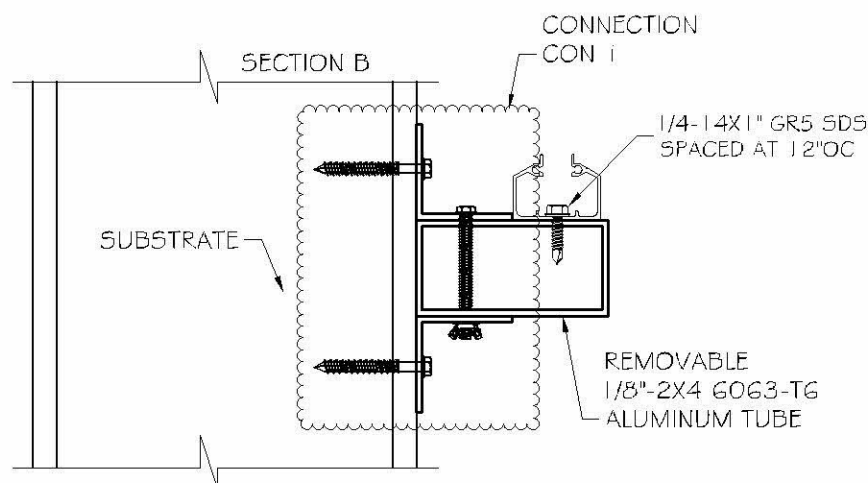
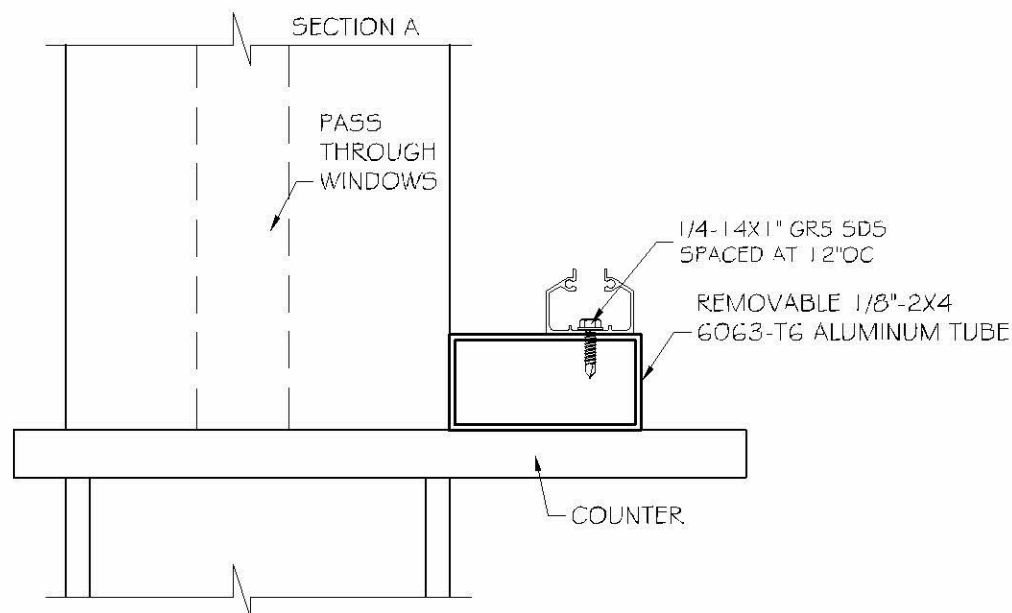
RHINO
ACCORDION SHUTTER



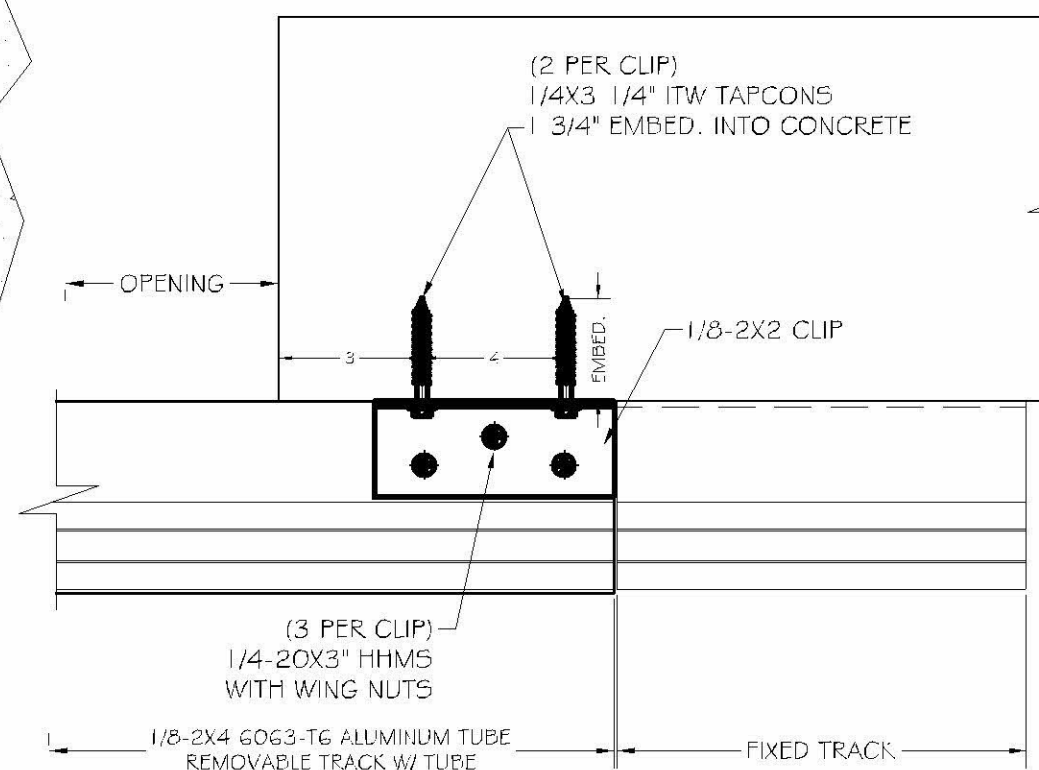
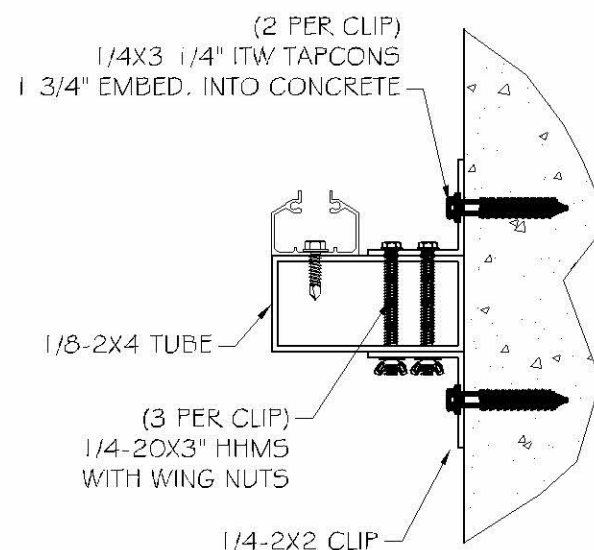
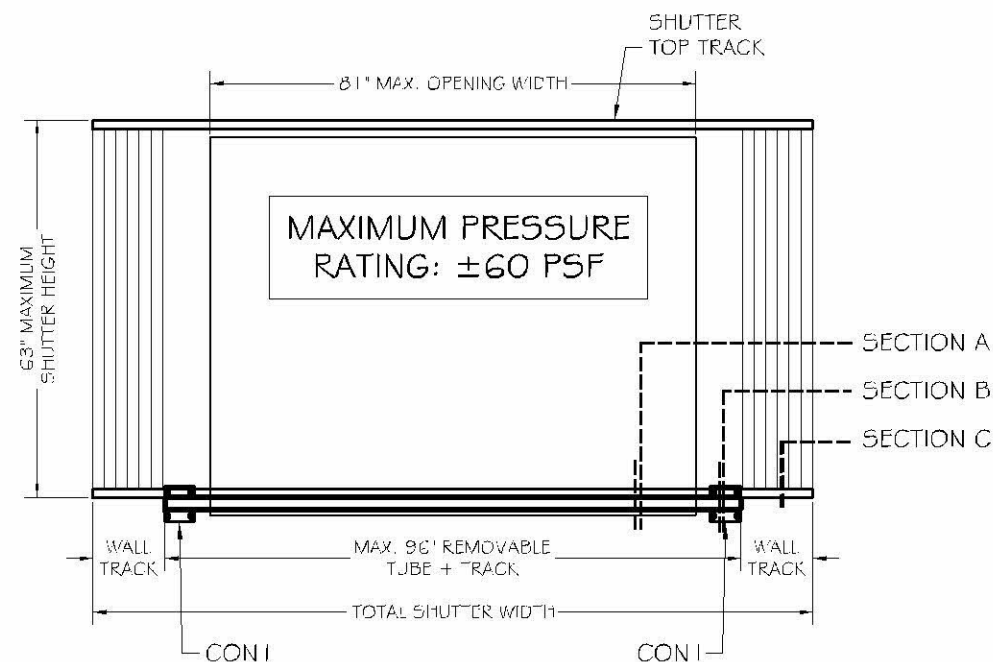
ASSOCIATION MEMBER:
MAXIMUM SHUTTER SYSTEMS, INC
2000 STIRLING ROAD
DANIA BEACH - FL 33004

SCALE:
NA
DATE:
12/01/2023
DRAWING #
23-220
SHEET
15 OF 18

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY
PEDRO DE FIGUEIREDO ON THE DATE INDICATED HERE.



SECTION CT
REMOVABLE SILL
OVER COUNTER TOP



Pedro De Figueiredo
PE 52609
12/01/2023

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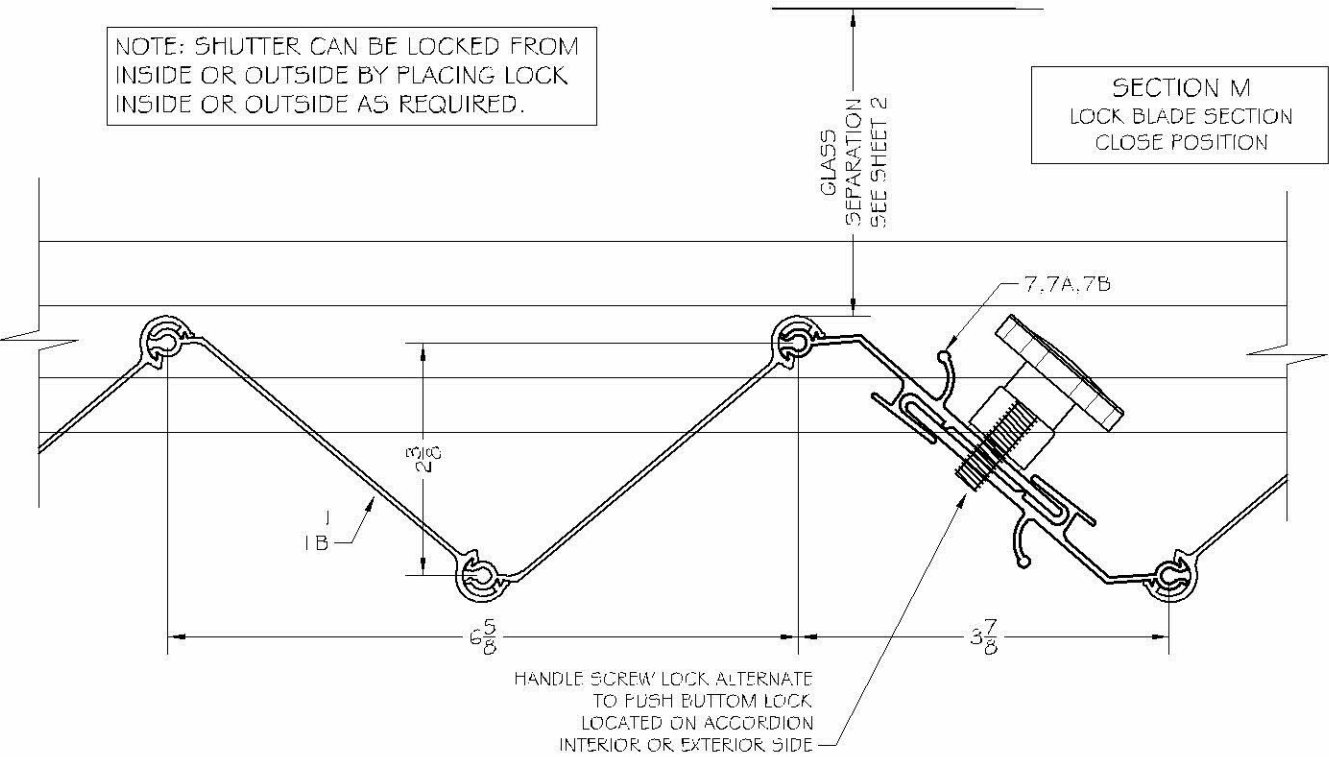
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MAXIMUM SHUTTER SYSTEMS, INC
2000 STIRLING ROAD
DANIA BEACH - FL 33004

SCALE:
NA
DATE:
12/01/2023
DRAWING #
23-220
SHEET
16 OF 18

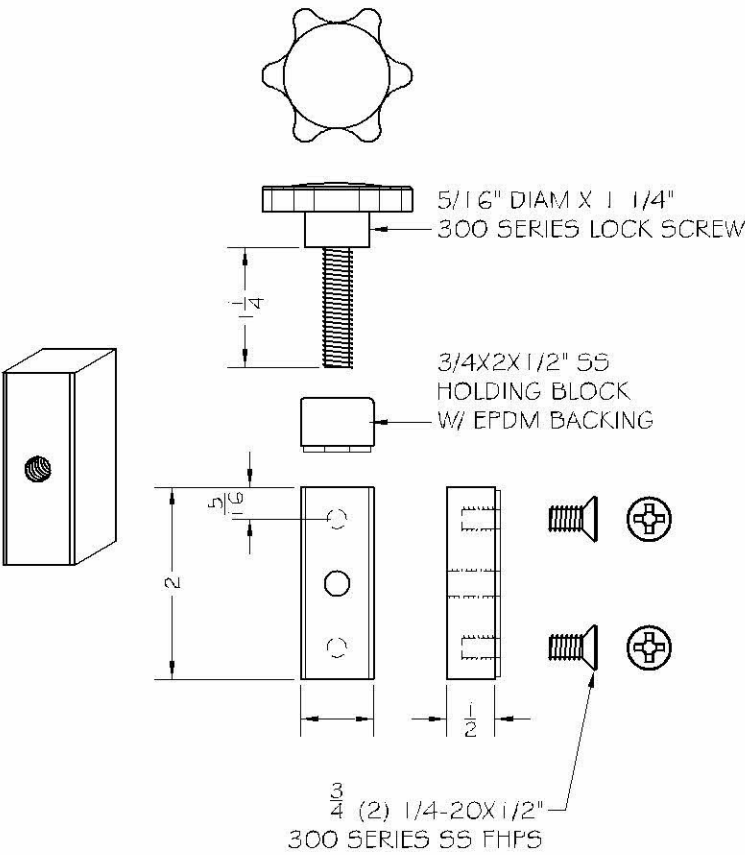
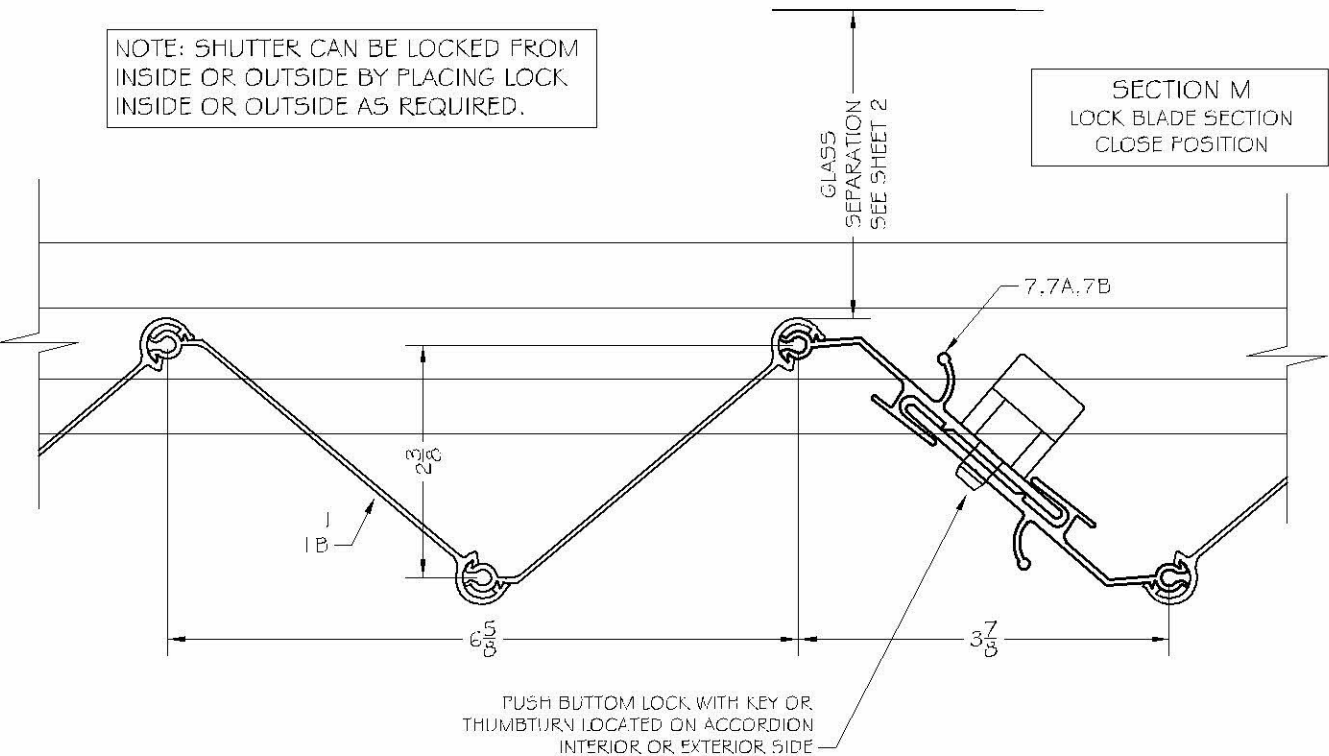
ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD. 247
PLANTATION, FL 33324
PEDRO DE FIGUEIREDO
PEMF@AOL.COM
TE 52603

TYPICAL HORIZONTAL
UNIMATE LOCK SECTIONS M
WITH PUSH BUTTON LOCK OR HANDLE SCREW LOCK

NOTE: SHUTTER CAN BE LOCKED FROM
INSIDE OR OUTSIDE BY PLACING LOCK
INSIDE OR OUTSIDE AS REQUIRED.



NOTE: SHUTTER CAN BE LOCKED FROM
INSIDE OR OUTSIDE BY PLACING LOCK
INSIDE OR OUTSIDE AS REQUIRED.



Pedro De Figueiredo
PE 52609
12/01/2023

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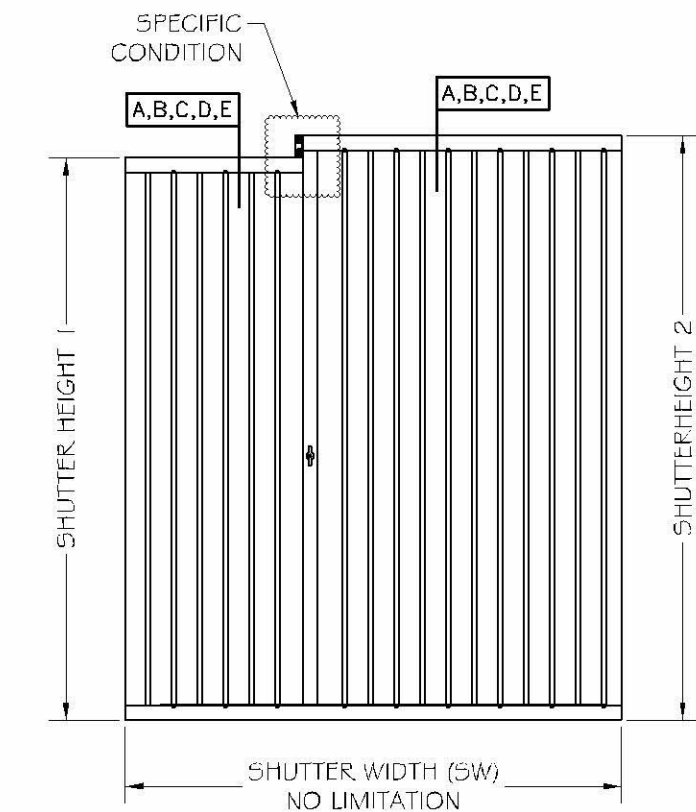
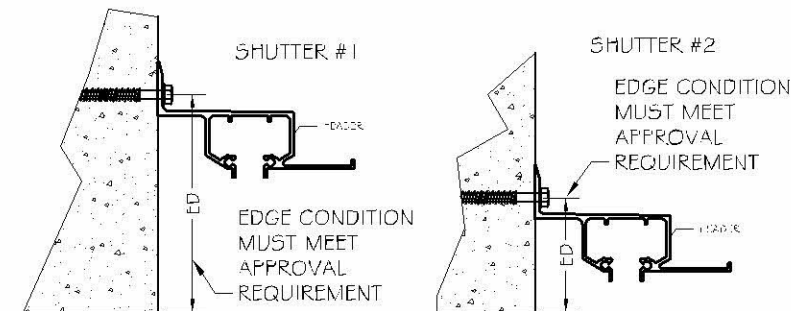
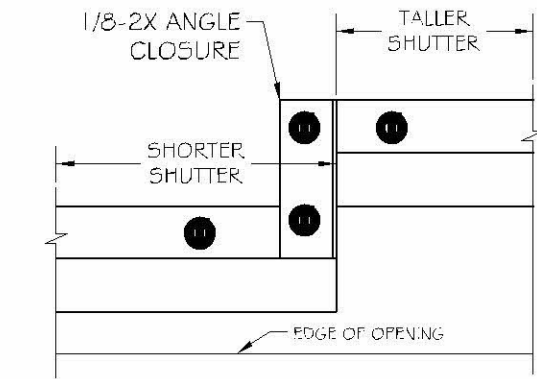
ASSOCIATION MEMBER:
MAXIMUM SHUTTER SYSTEMS, INC
2000 STIRLING ROAD
DANIA BEACH - FL 33004

SCALE:
NA
DATE:
12/01/2023
DRAWING #
23-220
SHEET
17 OF 18

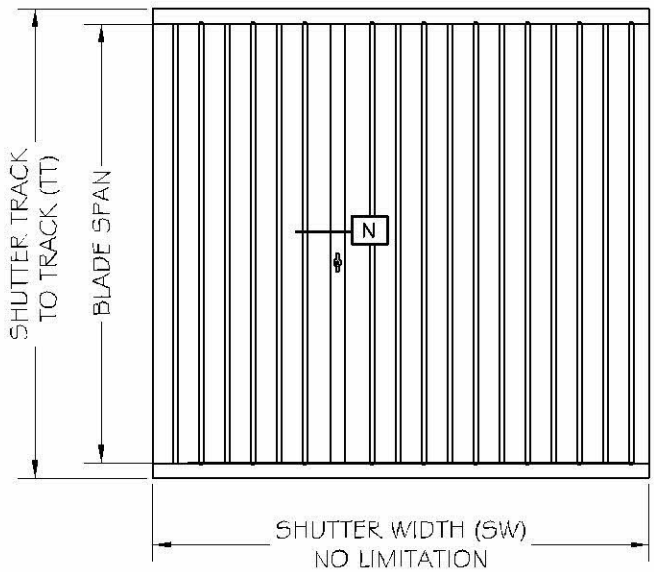
ENGINEERING SERVICES - CA 32459
9715 W. BROWARD BLVD. 247
PLANTATION, FL 33324
ENGINEER SEAL
PEDRO DE FIGUEIREDO
PEMF@AOL.COM
TE 526093

SHUTTERS STACKS WITH DIFFERENT HEIGHTS:

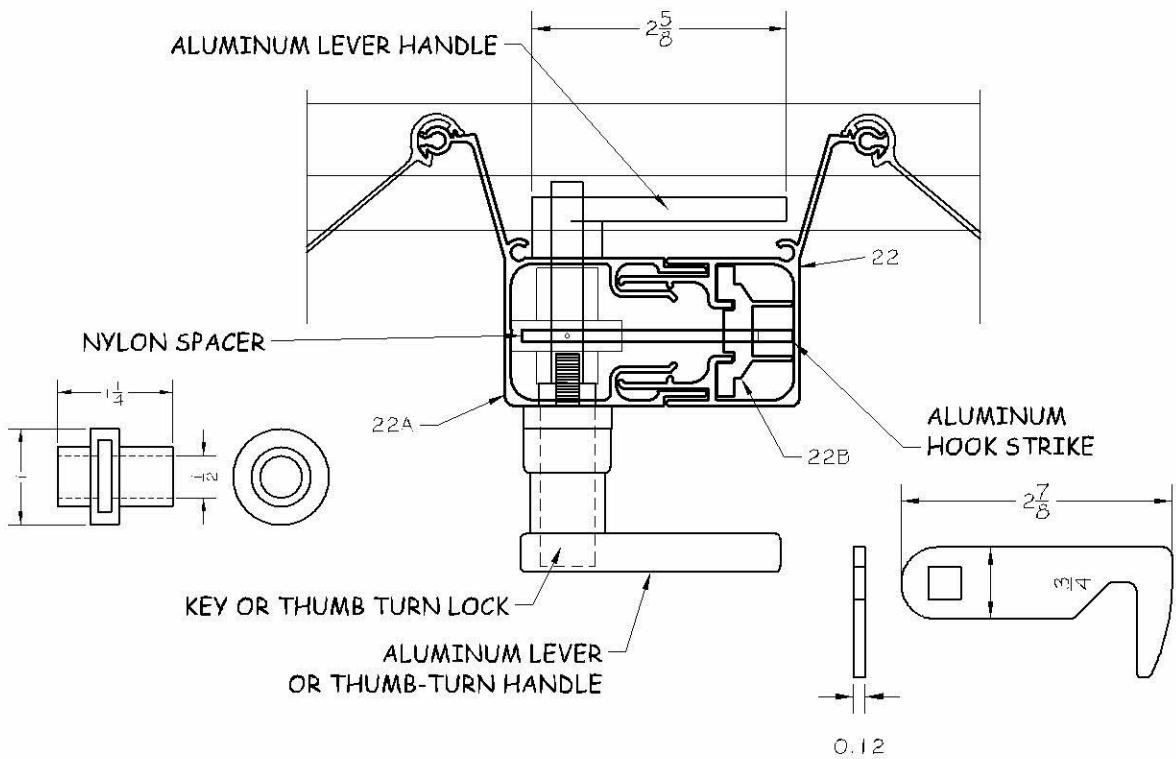
- 1- SOME FIELD CONDITIONS WILL CREATE AN INSTALLATION REQUIREMENT THAT THE LEFT AND THE RIGHT STACKS OF THE SHUTTER BE WITH DIFFERENT HEIGHTS. THE LOCK STILES WILL BE THE BRIDGE TO CONNECT BOTH STACKS AT THE CLOSED POSITION.
- 2- THIS APPLICATION IS NOT VALID FOR INSET MOUNT HEAD CONDITIONS



ACCORDION SHUTTER
LOCK TYPE N DETAILS



STANDARD ACCORDION LEVER HANDLE LOCK
INSTALLATION CAN BE DONE WITH
LOCK ACCESS FROM INSIDE OR OUTSIDE



Pedro De Figueiredo
PE 52609
12/01/2023

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2000 STIRLING ROAD
DANIA BEACH - FL 33004

SCALE:
NA
DATE:
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SHEET
18 OF 18

ENGINEERING SERVICES - CA 32459
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