USER INSTRUCTIONS:

1- DETERMINE PROJECT DESIGN WIND LOAD PRESSURES AS PER ITEM 4 OF GENERAL NOTES, SHEET 1.

2- CHECK BLADE SIZE WITH TABLE 1 ON SHEET 1 FOR ALLOWABLE DESIGN PRESSURE.

3- SELECT MOUNT TYPE TO BE USED AS PER SHEETS 2, 3, 4, 5 & 6. MOUNT TYPES ARE INTERCHANGEABLE.

4- CALCULATE ANCHOR SPACING FUNCTION OF BLADE SIZE AND PRESSURE FOR EACH SPECIFIC MOUNT TYPE AS PER SHEETS 2, 3, 4, 5 & 6.

GENERAL NOTES: (FLORIDA BUILDING CODE 2023 - 8th edition)

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 (LARGE & SMALL 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 FLORIDA BUILDING CODE UNDER TAS 201, 202 AND 203.

3- POSTING: A PERMANENT LEGIBLE DECAL SHALL BE PLACED AT BOTTOM OF THE LOCKING BAR OR CENTER MATE FACING THE EXTERIOR OR OUTSIDE AS PER FLORIDA BUILDING CODE.

4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED 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.

9- OFFSET REQUIREMENTS: PRODUCT IS QUALIFIED AS "NON POROUS", THEREFORE GLAZING SEPARATION (GS) AS PER TABLE 1 IS NOT REQUIRED WITH EXCEPTION FOR THE FOLLOWING LOCATIONS:

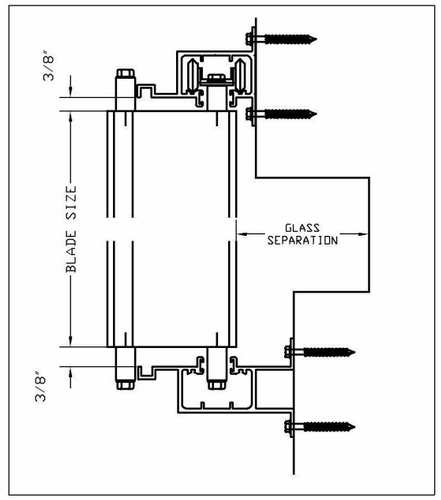
9.1- IN ESSENTIAL FACILITIES IN ALL WIND ZONES.

9.2- IN WIND ZONE 4 AS DEFINED IN ASTM E 1996 WITH MODIFICATION BY THE FBC SECTION 1609.1.2.2 (LOCATIONS WITH BASIC WIND SPEED GREATER THAN 170 MPH), WHERE THE SPECIFYING AUTHORITY HAS SPECIFIED OPTIONAL ADDITIONAL PASS/FAIL CRITERIA IN ACCORDANCE WITH ASTM E1996-17 APPENDIX X4.

9.3- IN HIGH VELOCITY HURRICANE ZONES (HVHZ), MIAMI DADE AND BROWARD COUNTIES.

TABLE 1
ALLOWABLE DESIGNED LOADS
X
MAXIMUM BLADE SIZE

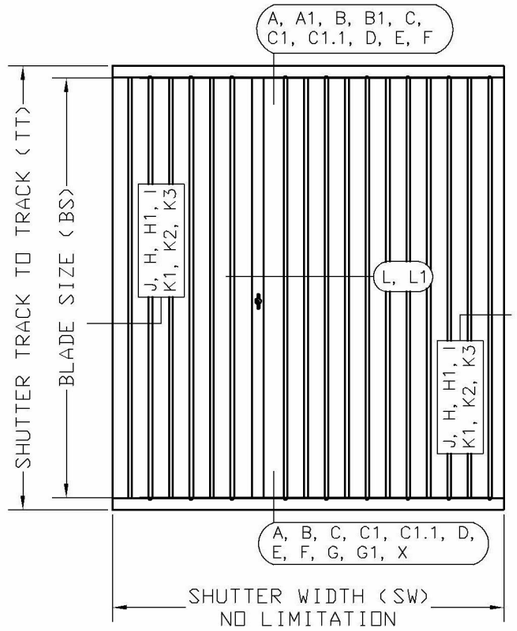
BLADE (IN)	PRESSURE (PSF)	
INCHES	POSITIVE	NEGATIVE
60"	188	188
66"	170	170
72"	156	156
78"	144	144
84"	134	134
90"	125	125
96"	117	117
102"	110	110
108"	102	102
114"	92	92
120"	83	83
126"	75	75
132"	69	69
138"	59	63
144"	49	58
150"	42	52



GLASS SEPARATION: SEE GENERAL NOTE 9 FOR REQUIREMENTS ON SHUTTER OFFSET FROM GLAZING PANELS

GLASS SEPARATION		
INSTALLATION BELOW 30' ELEVATION	BLADE <=120" 3 1/2"	BLADE >120" 4 3/4"
INSTALLATION ABOVE 30' ELEVATION	BLADE <=120" 3"	BLADE >120" 3"

TYPICAL ELEVATION



PEDRO M. DE FIGUEIREDO LICENSE No. 52609 STATE OF FLORIDA PROFESSIONAL ENGINEER

Pedro De Figueiredo
PE52609
09/10/2023

Pedro Figueiredo

Digitally signed by Pedro Figueiredo
Date: 2023.09.16 09:10:00 -04'00'

DIGITALLY SIGNED FOR 12 PAGES

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TABLE OF CONTENTS:

SHEET 1- TABLE OF CONTENTS, GENERAL NOTES, TYPICAL ELEVATION, ALLOWABLE BLADE PRESSURE TABLE 1
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SHEET 3- SECTIONS A1, B1 & C1.1 WITH ANCHORAGE TABLES
SHEET 4- SECTIONS D, E, F & G WITH ANCHORAGE TABLES
SHEET 5- SECTIONS D1, E1, F1 & X WITH ANCHORAGE TABLES
SHEET 6- SECTIONS C & G1 WITH ANCHORAGE TABLES, REMOVABLE TRACK
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SHEET 8- LOCK SECTION L, MALE & FEMALE STACK
SHEET 9- LOCK SECTION L1, UNIMATE STACK
SHEET 10- BILL OF MATERIALS, ANCHOR SCHEDULE & BLADE ASSEMBLY.
SHEET 11 & 12- COMPONENTS

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ACCORDION SHUTTER
EXTRUDED ALUMINUM

MANUFACTURER:
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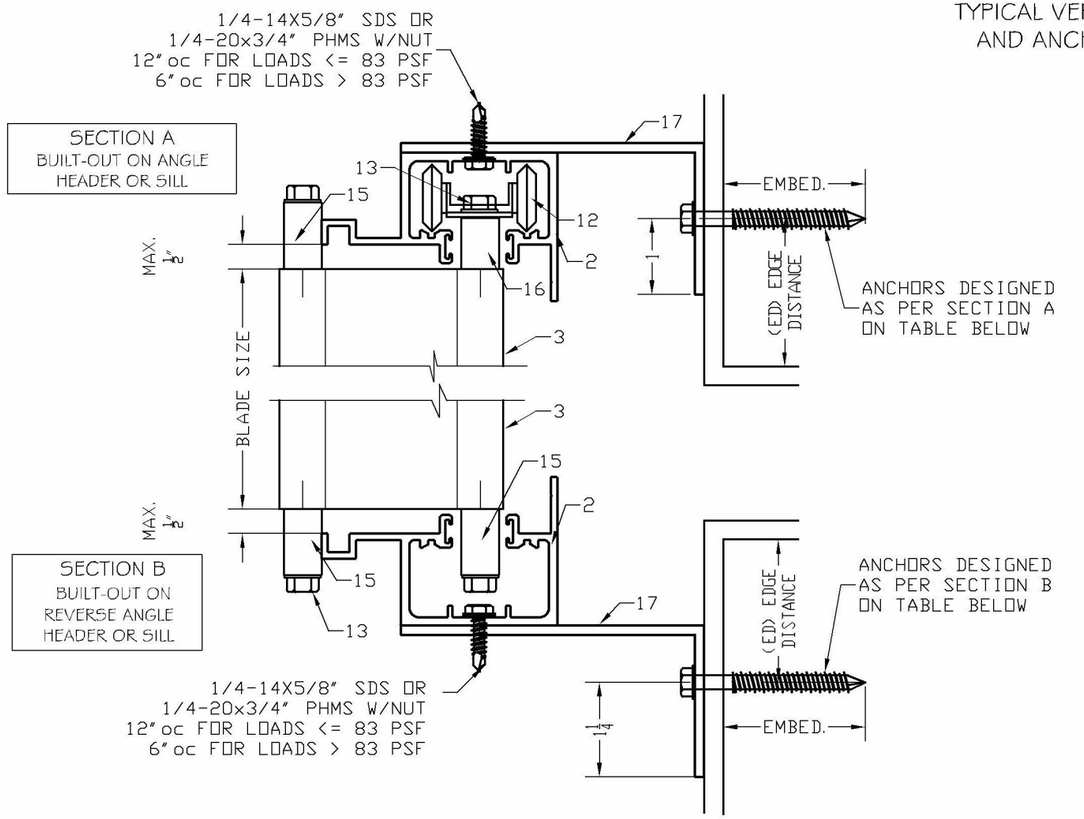
SCALE: NA

DATE: 09/10/2023

DRAWING # 23-162

SHEET 1 of 12

TYPICAL VERTICAL SECTIONS AND ANCHOR SCHEDULE



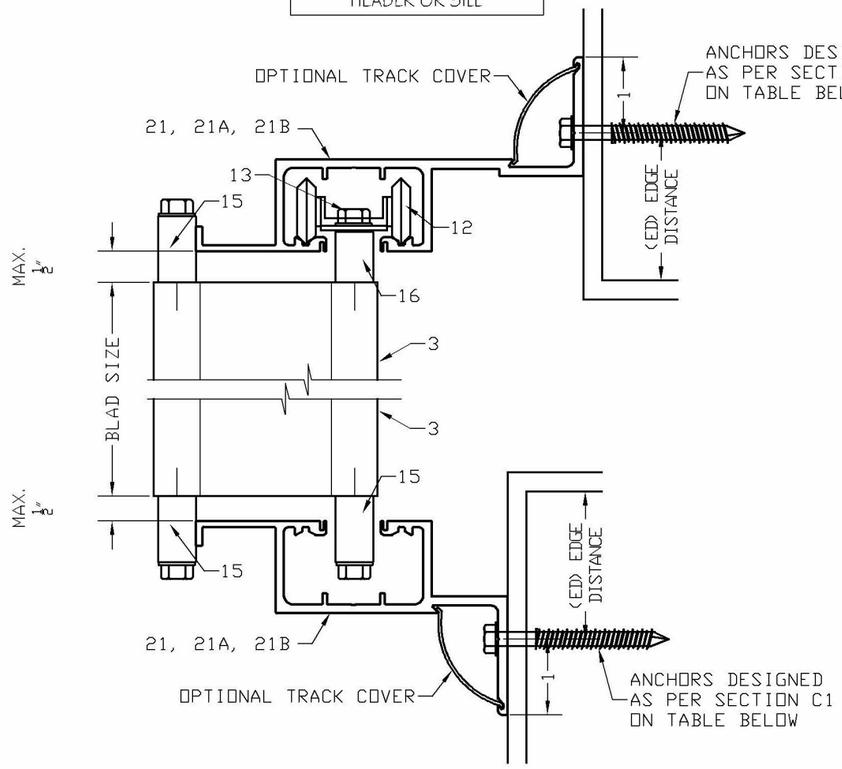
ALLOWABLE PRESSURE (PSF)

MAXIMUM BLADE SPAN IN INCHES

		MAXIMUM ANCHORAGE SPACING IN INCHES ON CENTER											
		SECTION A SILL / HEADER				SECTION B SILL / HEADER				SECTION C1 SILL / HEADER			
BS	Pd	A	B	C	E	A	B	C	E	A	B	C	E
60	188	9	--	12	7	5	--	7	4	7	--	8	5
	140	12	4	12	10	9	--	11	7	12	--	12	9
	100	12	5	12	12	12	5	12	12	12	5	12	12
	60	12	9	12	12	12	9	12	12	12	9	12	12
	40	12	12	12	12	12	12	12	12	12	12	12	12
90	188	6	--	7	4	--	--	4	--	--	--	4	--
	160	7	--	8	5	4	--	5	3	4	--	5	3
	125	9	--	12	7	5	--	7	4	7	--	8	5
	80	12	4	12	12	12	--	12	9	12	4	12	12
	35	12	10	12	12	12	10	12	12	12	10	12	12
108	125	7	--	9	6	4	--	5	3	5	--	6	4
	100	10	--	12	8	6	--	7	4	7	--	9	5
	80	12	--	12	10	8	--	10	6	11	--	12	8
	70	12	4	12	11	11	--	12	8	12	4	12	11
	35	12	8	12	12	12	8	12	12	12	8	12	12
120	105	8	--	10	6	4	--	6	3	5	--	7	4
	90	10	--	12	8	6	--	7	4	7	--	9	5
	85	11	--	12	8	6	--	8	5	8	--	10	6
	60	12	4	12	12	12	--	12	9	12	4	12	12
	35	12	8	12	12	12	8	12	12	12	8	12	12
150	85	8	--	10	6	4	--	5	3	5	--	7	4
	65	12	--	12	9	7	--	8	5	9	--	11	6
	55	12	4	12	10	9	--	11	7	12	--	12	9
	45	12	5	12	12	12	4	12	10	12	5	12	12
	35	12	6	12	12	12	6	12	12	12	6	12	12

REFER TO ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

NOTES:
1- USE IN CONJUNCTION WITH TABLE 1, THE LOWER OF THE PRESSURE CONTROL DESIGN.
2- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES



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TYPICAL VERTICAL SECTIONS AND ANCHOR SCHEDULE

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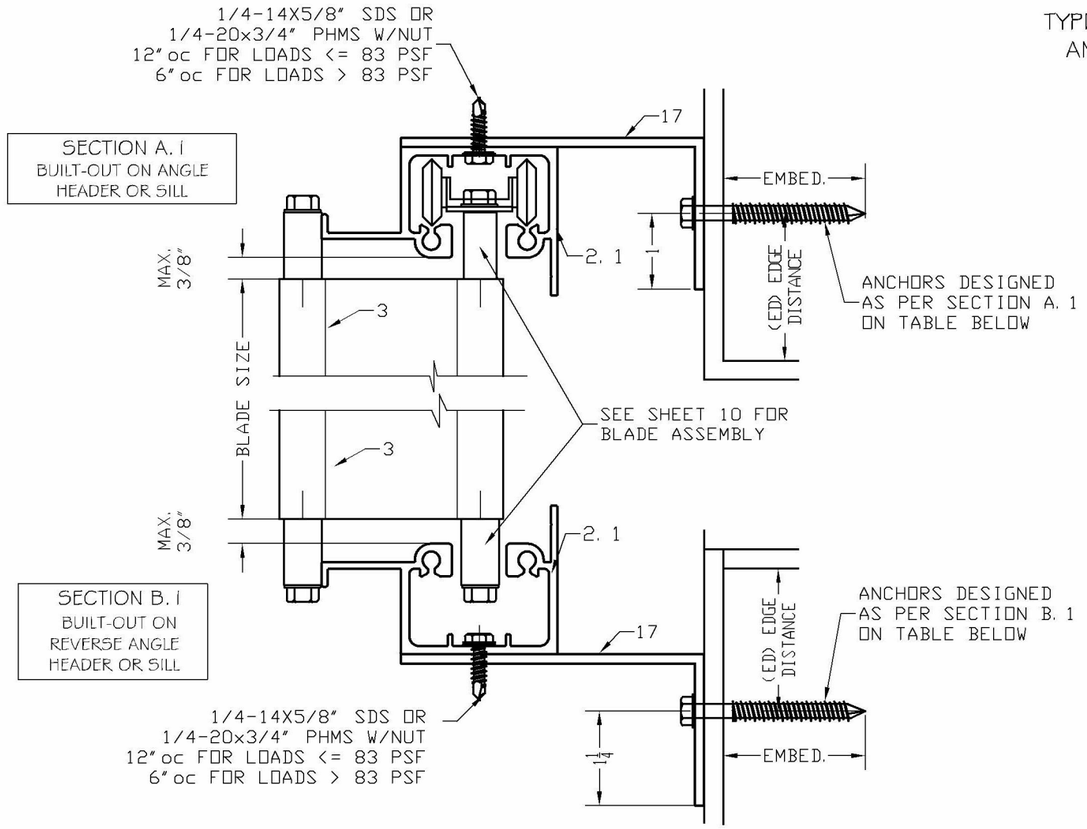

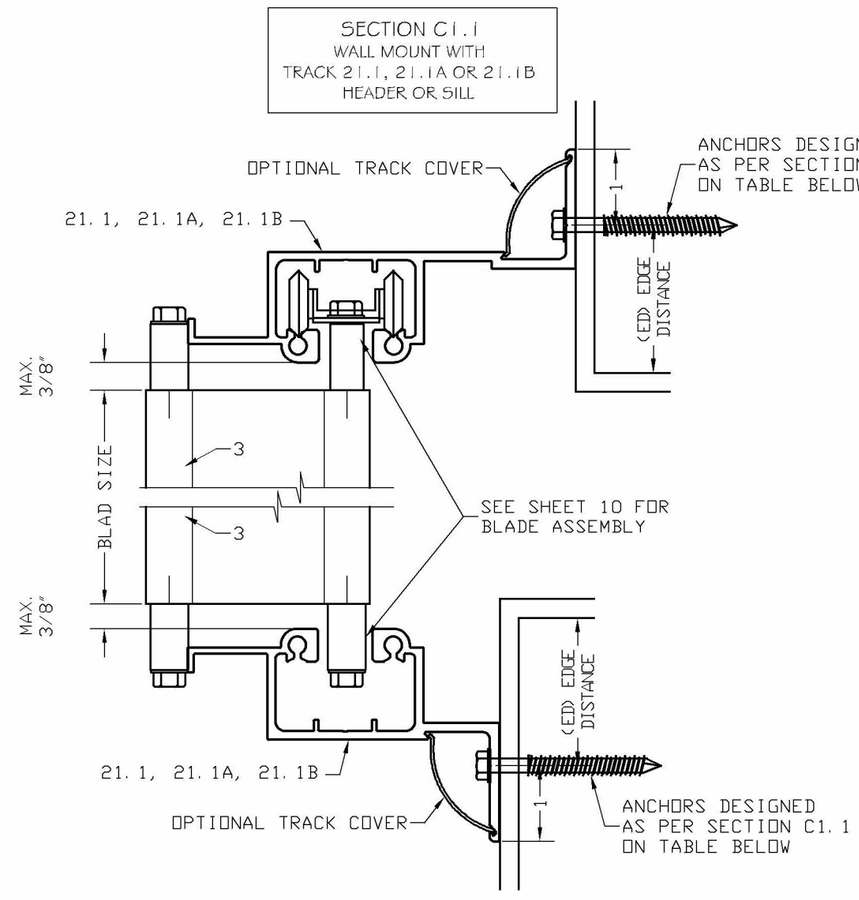

ALLOWABLE PRESSURE (PSF)

MAXIMUM BLADE SPAN IN INCHES

REFER TO ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

		MAXIMUM ANCHORAGE SPACING IN INCHES ON CENTER											
		SECTION A. 1 SILL / HEADER				SECTION B. 1 SILL / HEADER				SECTION C1. 1 SILL / HEADER			
BS	Pd	A	B	C	E	A	B	C	E	A	B	C	E
60	188	9	--	12	7	5	--	7	4	7	--	8	5
	140	12	4	12	10	9	--	11	7	12	--	12	9
	100	12	5	12	12	12	5	12	12	12	5	12	12
	60	12	9	12	12	12	9	12	12	12	9	12	12
	40	12	12	12	12	12	12	12	12	12	12	12	12
90	188	6	--	7	4	--	--	4	--	--	--	4	--
	160	7	--	8	5	4	--	5	3	4	--	5	3
	125	9	--	12	7	5	--	7	4	7	--	8	5
	80	12	4	12	12	12	--	12	9	12	4	12	12
	35	12	10	12	12	12	10	12	12	12	10	12	12
108	125	7	--	9	6	4	--	5	3	5	--	6	4
	100	10	--	12	8	6	--	7	4	7	--	9	5
	80	12	--	12	10	8	--	10	6	11	--	12	8
	70	12	4	12	11	11	--	12	8	12	4	12	11
	35	12	8	12	12	12	8	12	12	12	8	12	12
120	105	8	--	10	6	4	--	6	3	5	--	7	4
	90	10	--	12	8	6	--	7	4	7	--	9	5
	85	11	--	12	8	6	--	8	5	8	--	10	6
	60	12	4	12	12	12	--	12	9	12	4	12	12
	35	12	8	12	12	12	8	12	12	12	8	12	12
150	85	8	--	10	6	4	--	5	3	5	--	7	4
	65	12	--	12	9	7	--	8	5	9	--	11	6
	55	12	4	12	10	9	--	11	7	12	--	12	9
	45	12	5	12	12	12	4	12	10	12	5	12	12
	35	12	6	12	12	12	6	12	12	12	6	12	12

NOTES:
1- USE IN CONJUNCTION WITH TABLE 1, THE LOWER OF THE PRESSURE CONTROL DESIGN.
2- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES

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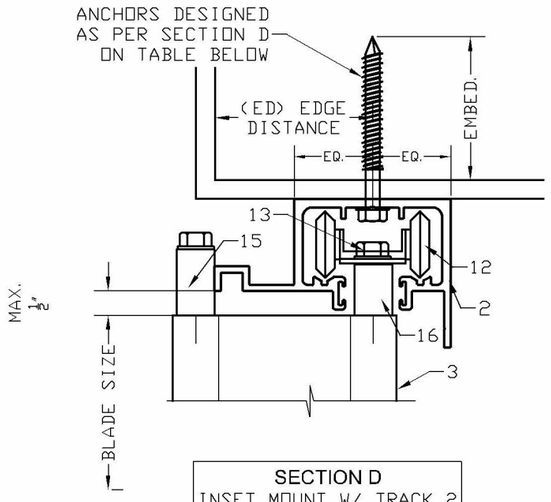
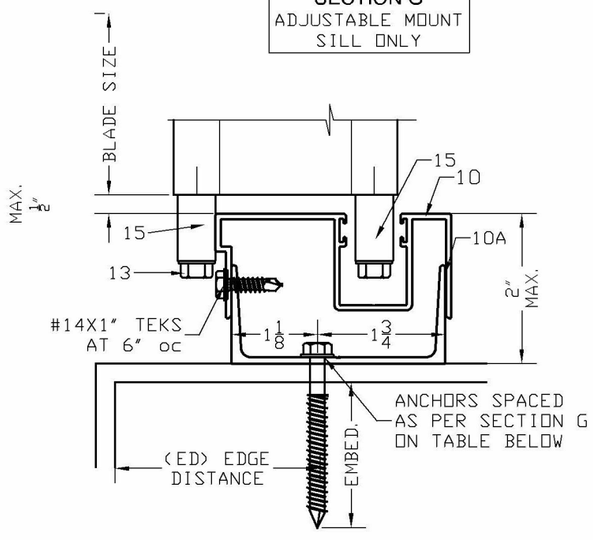
DATE: 09/10/2023

DRAWING # 23-162

TYPICAL VERTICAL SECTIONS AND ANCHOR SCHEDULE



SECTION D
INSET MOUNT W/ TRACK 2
HEADER OR SILL



ALLOWABLE PRESSURE (PSF)

MAXIMUM BLADE SPAN IN INCHES

MAXIMUM ANCHORAGE SPACING IN INCHES ON CENTER

BS	Pa	SECTION D SILL / HEADER A	B	C	E	SECTION G SILL A	B	C	E	SECTION E SILL / HEADER A	B	C	D	E	SECTION F SILL / HEADER A	B	C	E
60	188	5	--	4	10	6	4	4	11	5	--	4	11	12	6	--	4	8
	140	8	5	6	12	8	5	5	12	8	5	6	12	12	8	5	5	12
	100	12	8	8	12	12	8	8	12	12	8	9	12	12	12	8	8	16
	60	12	12	14	12	12	12	12	12	12	12	12	12	12	16	13	13	16
	40	12	12	12	12	12	12	12	12	12	12	12	12	12	16	16	16	16
90	188	--	--	--	4	--	--	--	5	--	--	--	5	4	--	--	--	4
	160	4	--	--	6	4	--	3	8	--	--	3	6	6	4	--	3	5
	125	5	--	4	10	6	4	4	11	5	--	4	11	12	6	--	4	8
	80	10	6	7	12	10	6	6	12	10	6	7	12	12	10	6	6	14
	35	12	12	12	12	12	12	12	12	12	12	12	12	12	16	15	15	16
108	125	4	--	--	7	5	--	3	9	--	--	3	7	7	4	--	3	6
	100	6	--	4	12	6	4	4	12	5	--	4	12	12	6	4	4	8
	80	8	5	6	12	8	5	5	12	8	5	6	12	12	8	5	5	11
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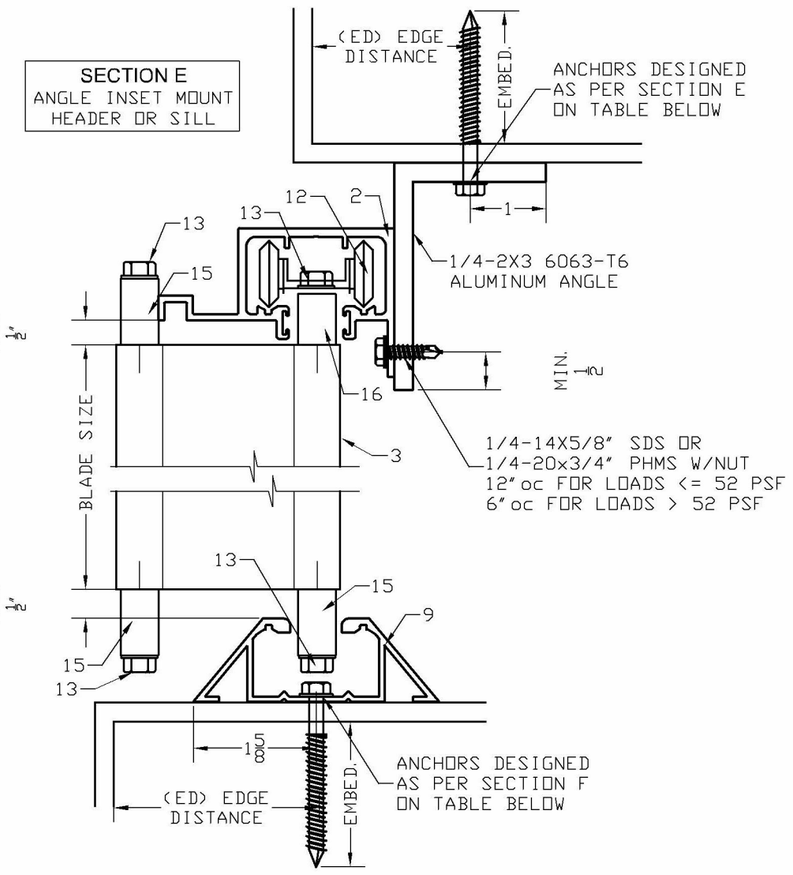
	35	12	12	12	12	12	12	12	12	12	12	12	12	12	16	13	13	16
120	105	4	--	--	8	5	--	3	10	4	--	3	8	8	5	--	3	6
	90	6	--	4	12	6	4	4	12	5	--	4	12	12	6	4	4	8
	85	6	4	4	12	7	4	4	12	6	4	5	12	12	6	4	4	9
	60	10	6	7	12	10	6	6	12	10	6	7	12	12	10	6	6	14
	35	17	11	12	12	12	11	11	12	12	11	12	12	12	16	11	11	16
150	85	4	--	--	8	5	--	3	10	4	--	3	8	8	5	--	3	6
	65	7	4	5	12	7	5	5	12	7	4	5	12	12	7	5	5	10
	55	8	5	6	12	8	5	6	12	8	5	6	12	12	8	5	6	12
	45	10	7	7	12	10	7	7	12	10	7	8	12	12	10	7	7	14
	35	12	9	9	12	12	9	9	12	12	9	10	12	12	13	9	9	16

REFER TO ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

NOTES:
1- USE IN CONJUNCTION WITH TABLE 1, THE LOWER OF THE PRESSURE CONTROL DESIGN.
2- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES



SECTION F
THRESHOLD TRACK
INSET MOUNT
HEADER OR SILL

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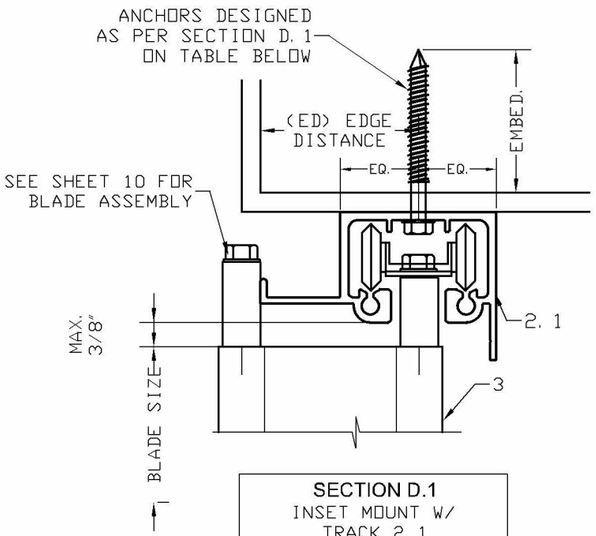
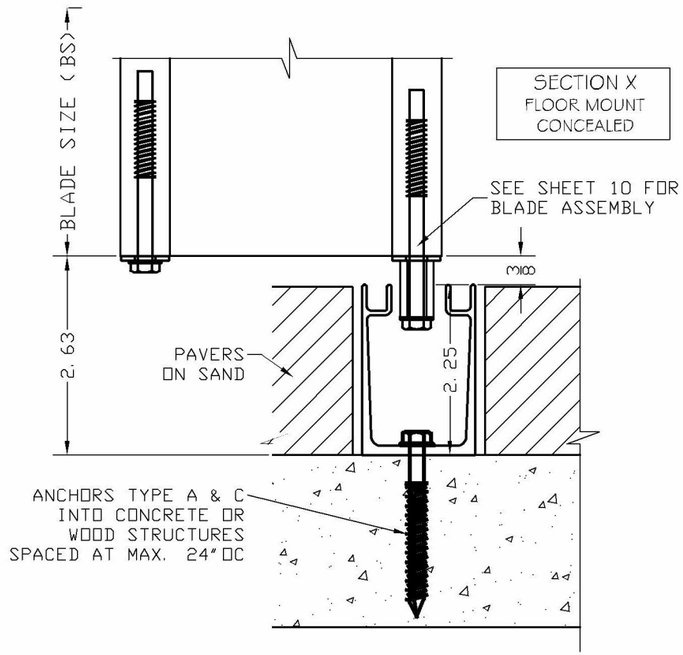
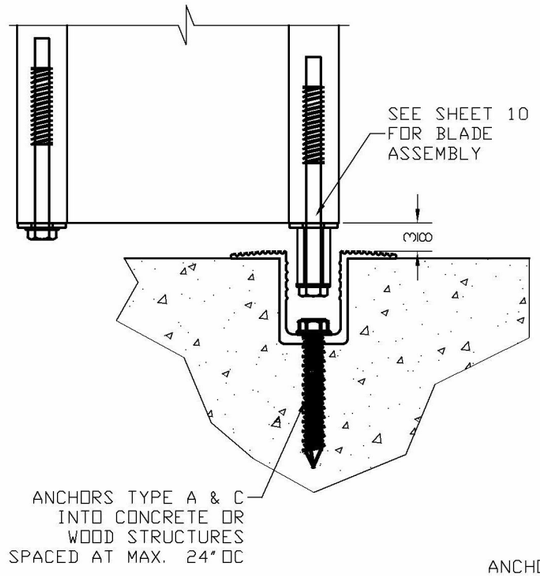
SHEET 4 of 12

TYPICAL VERTICAL SECTIONS AND ANCHOR SCHEDULE



SECTION D.1
INSET MOUNT W/
TRACK 2. 1
HEADER OR SILL





ALLOWABLE PRESSURE (PSF)

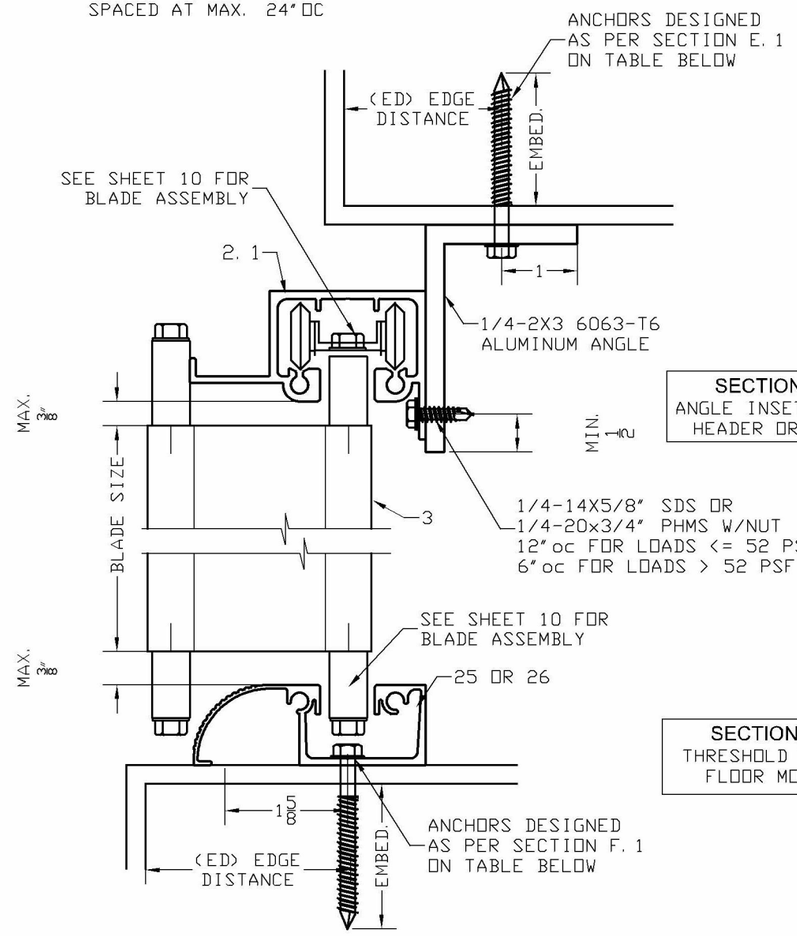
MAXIMUM BLADE SPAN IN INCHES

MAXIMUM ANCHORAGE SPACING IN INCHES ON CENTER

BS	Pd	SECTION D.1 SILL / HEADER A	B	C	E	SECTION E.1 SILL / HEADER A	B	C	D	E	SECTION F.1 SILL / HEADER A	B	C	E
60	188	5	--	4	10	5	--	4	11	12	6	--	4	8
	140	8	5	6	12	8	5	6	12	12	8	5	5	12
	100	12	8	8	12	12	8	9	12	12	12	8	8	16
	60	12	12	14	12	12	12	12	12	12	16	13	13	16
	40	12	12	12	12	12	12	12	12	12	16	16	16	16
90	188	--	--	--	4	--	--	--	5	4	--	--	--	4
	160	4	--	--	6	--	--	3	6	6	4	--	3	5
	125	5	--	4	10	5	--	4	11	12	6	--	4	8
	80	10	6	7	12	10	6	7	12	12	10	6	6	14
	35	12	12	12	12	12	12	12	12	12	16	15	15	16
108	125	4	--	--	7	--	--	3	7	7	4	--	3	6
	100	6	--	4	12	5	--	4	12	12	6	4	4	8
	80	8	5	6	12	8	5	6	12	12	8	5	5	11
	70	9	6	6	12	9	6	7	12	12	9	6	6	13
	35	12	12	12	12	12	12	12	12	12	16	13	13	16
120	105	4	--	--	8	4	--	3	8	8	5	--	3	6
	90	6	--	4	12	5	--	4	12	12	6	4	4	8
	85	6	4	4	12	6	4	5	12	12	6	4	4	9
	60	10	6	7	12	10	6	7	12	12	10	6	6	14
	35	17	11	12	12	12	11	12	12	12	16	11	11	16
150	85	4	--	--	8	4	--	3	8	8	5	--	3	6
	65	7	4	5	12	7	4	5	12	12	7	5	5	10
	55	8	5	6	12	8	5	6	12	12	8	5	6	12
	45	10	7	7	12	10	7	8	12	12	10	7	7	14
	35	12	9	9	12	12	9	10	12	12	13	9	9	16

REFER TO ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

NOTES:
1- USE IN CONJUNCTION WITH TABLE 1, THE LOWER OF THE PRESSURE CONTROL DESIGN.
2- LINEAR INTERPOLATION IS ALLOWABLE BETWEEN BLADE SPAN SIZES



SECTION E.1
ANGLE INSET MOUNT
HEADER OR SILL

SECTION F.1
THRESHOLD TRACK
FLOOR MOUNT

PEDRO M. DE FIGUEIREDO
LICENSE
No. 52609
STATE OF FLORIDA
PROFESSIONAL ENGINEER

Pedro De Figueiredo
PE52609
09/10/2023

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ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

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PFMF@AOL.COM

PFMF Inc.

PRODUCT:
CROCI
ACCORDION SHUTTER
EXTRUDED ALUMINUM

MANUFACTURER:
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EMAIL: INFO@CROCIUSA.COM

SCALE: NA

DATE: 09/10/2023

DRAWING # 23-162

SHEET 5 of 12

TYPICAL VERTICAL SECTIONS AND ANCHOR SCHEDULE

ALLOWABLE PRESSURE (PSF)

MAXIMUM BLADE SPAN IN INCHES

		MAXIMUM ANCHORAGE SPACING IN INCHES ON CENTER								
		SECTION C SILL / HEADER				SECTION G1 SILL / HEADER				
BS	Pd	A	B	C	E	A	B	C	D	E
60	188	22	6	24	17	6	4	4	12	11
	140	24	8	24	21	8	5	5	12	12
	100	24	11	24	24	12	8	8	12	12
	60	24	18	24	24	12	12	12	12	12
	40	24	24	24	24	12	12	12	12	12
90	188	17	4	21	13	--	--	--	7	5
	160	19	5	23	14	4	--	3	10	8
	125	22	6	24	17	6	4	4	12	11
	80	24	9	24	24	10	6	6	12	12
	35	24	21	24	24	12	12	12	12	12
108	125	20	5	24	15	5	--	3	12	9
	100	22	6	24	17	6	4	4	12	12
	80	24	7	24	20	8	5	5	12	12
	70	24	8	24	23	9	6	6	12	12
	35	24	17	24	24	12	12	12	12	12
120	105	20	6	24	15	5	--	3	12	10
	90	22	6	24	17	6	4	4	12	12
	85	23	6	24	18	7	4	4	12	12
	60	24	9	24	24	10	6	6	12	12
	35	24	16	24	24	12	11	11	12	12
150	85	20	5	24	15	5	--	3	12	10
	65	24	6	24	18	7	5	5	12	12
	55	24	8	24	21	8	5	6	12	12
	45	24	10	24	24	10	7	7	12	12
	35	24	12	24	24	12	9	9	12	12

REFER TO ANCHOR SCHEDULE ON SHEET 10 FOR ANCHOR TYPE

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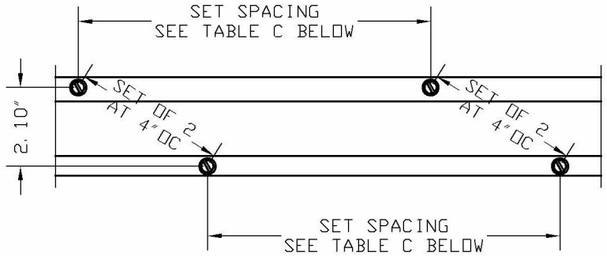

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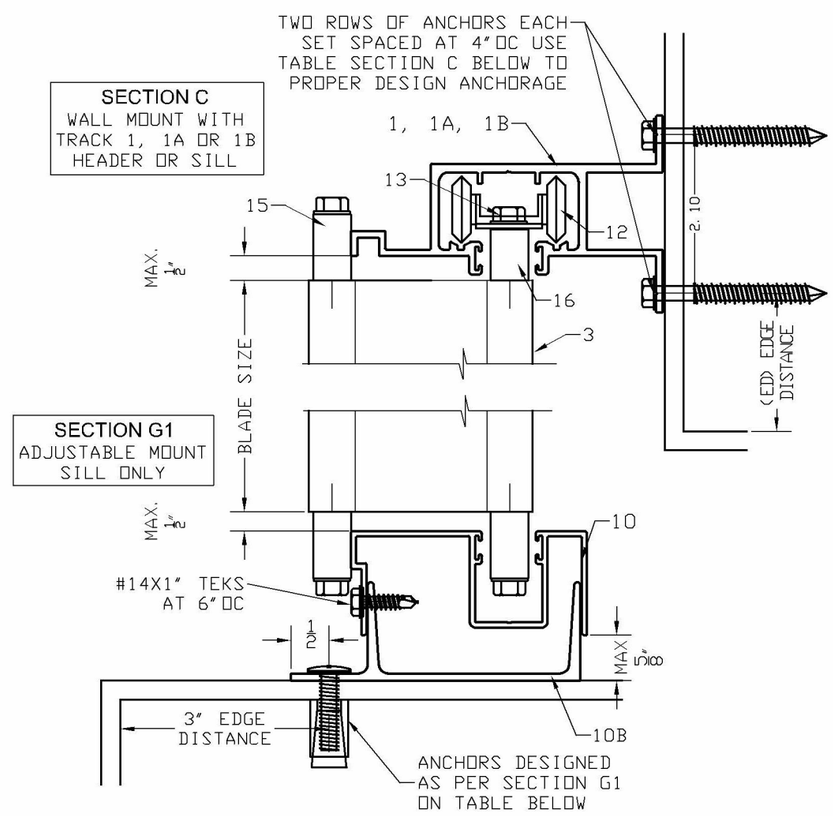
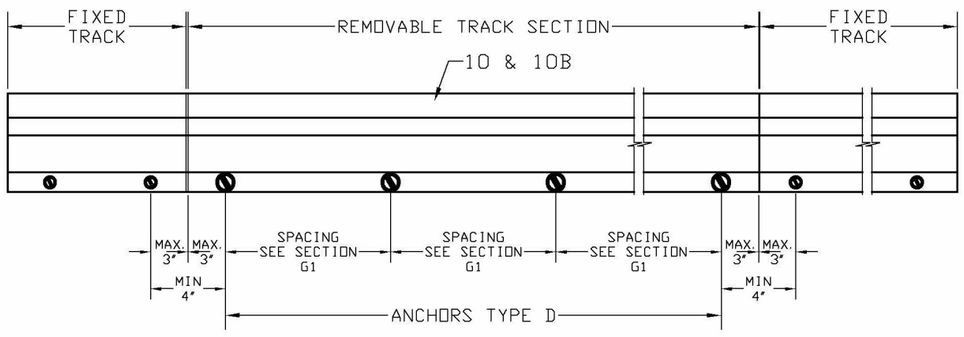
SECTION C
WALL MOUNT WITH TRACK 1, 1A OR 1B HEADER OR SILL

SECTION G1
ADJUSTABLE MOUNT SILL ONLY



REMOVABLE SILL TRACK



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DRAWING # 23-162

TYPICAL HORIZONTAL SECTIONS
JAMB & CORNER SECTIONS

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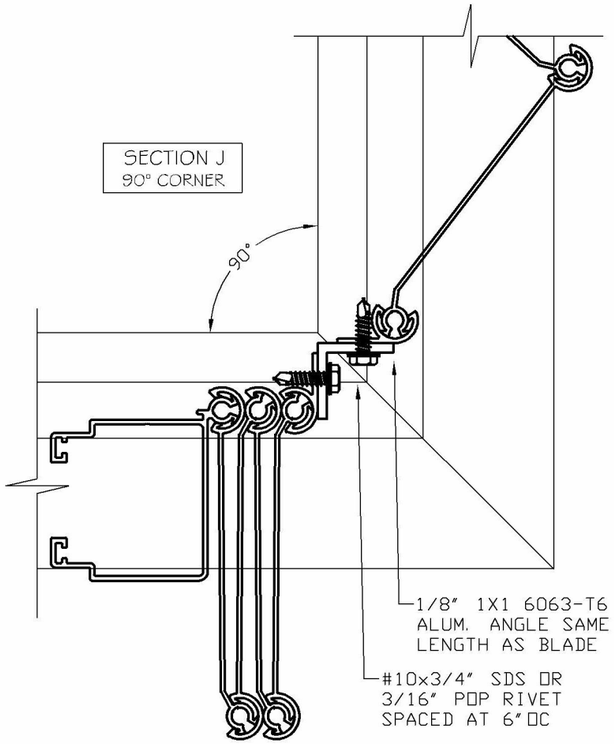
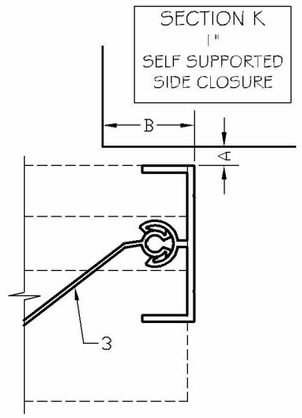
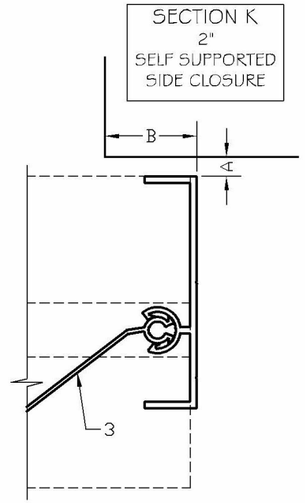
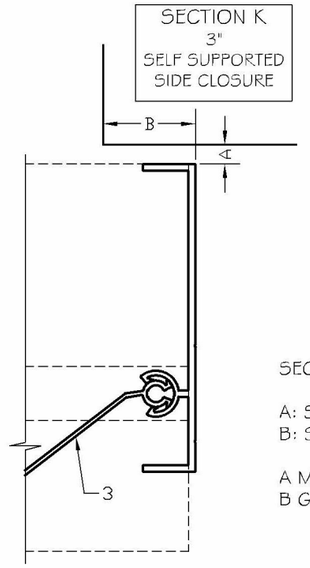




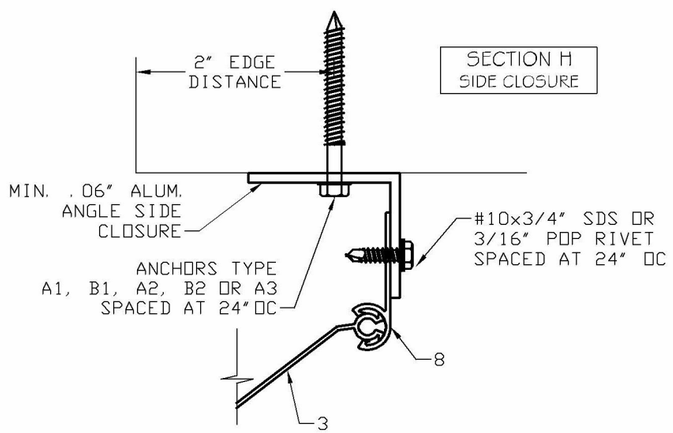


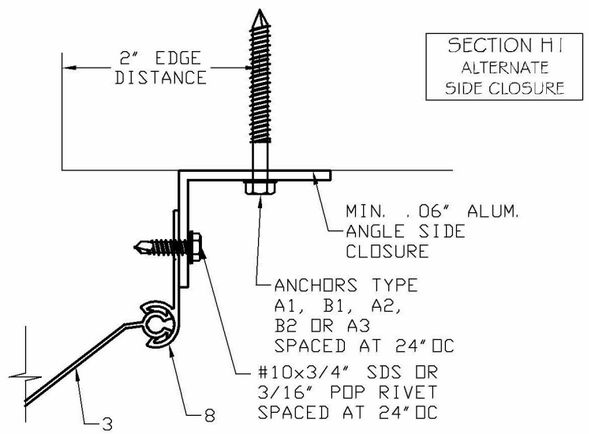


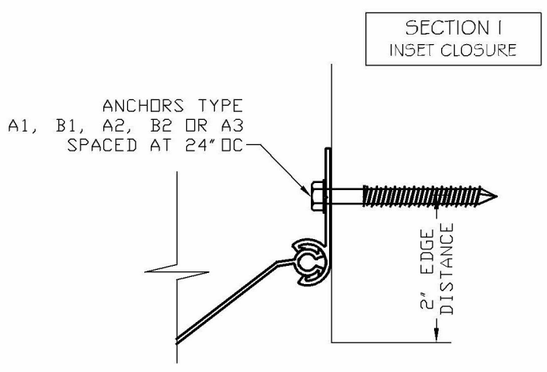
SECTION K - OPENING CLOSURE NOTES:

A: SIDE CLEARANCE
B: SHUTTER OVERLAP

A MUST BE NOT MORE THAN 1/4 INCHES OR
B GREATER THAN 1.5 X A







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TYPICAL HORIZONTAL SECTIONS
LOCK SECTIONS

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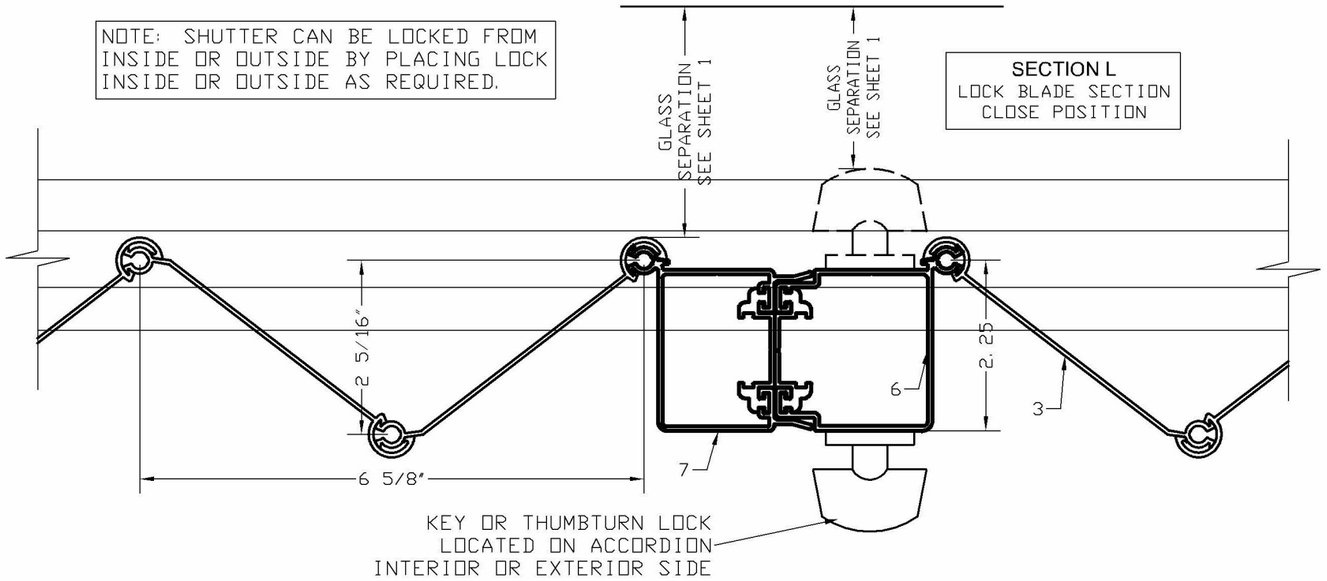
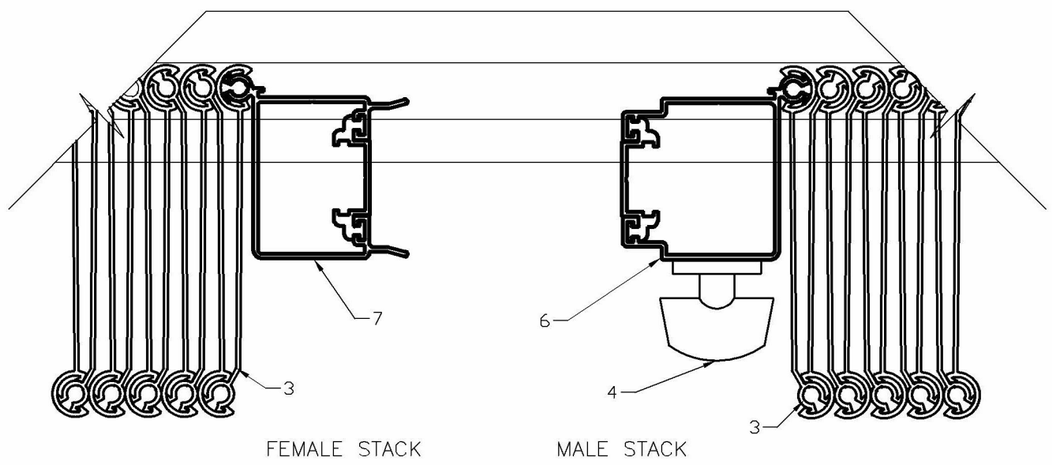
Pedro De Figueiredo
PE52609
09/10/2023

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



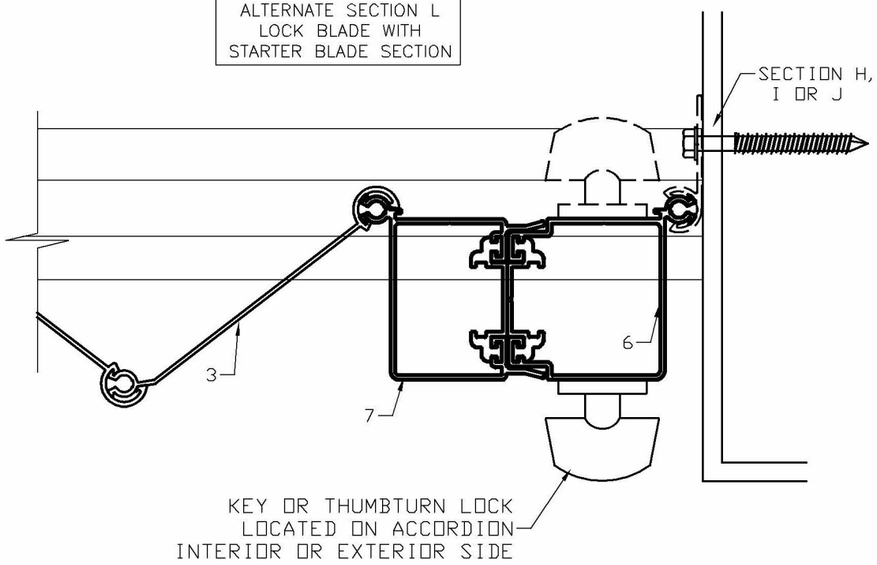
SECTION L
LOCK BLADE SECTION
CLOSE POSITION

SECTION L
LOCK BLADE SECTION
OPEN POSITION



FEMALE STACK MALE STACK

ALTERNATE SECTION L
ALTERNATE SECTION L
LOCK BLADE WITH
STARTER BLADE SECTION



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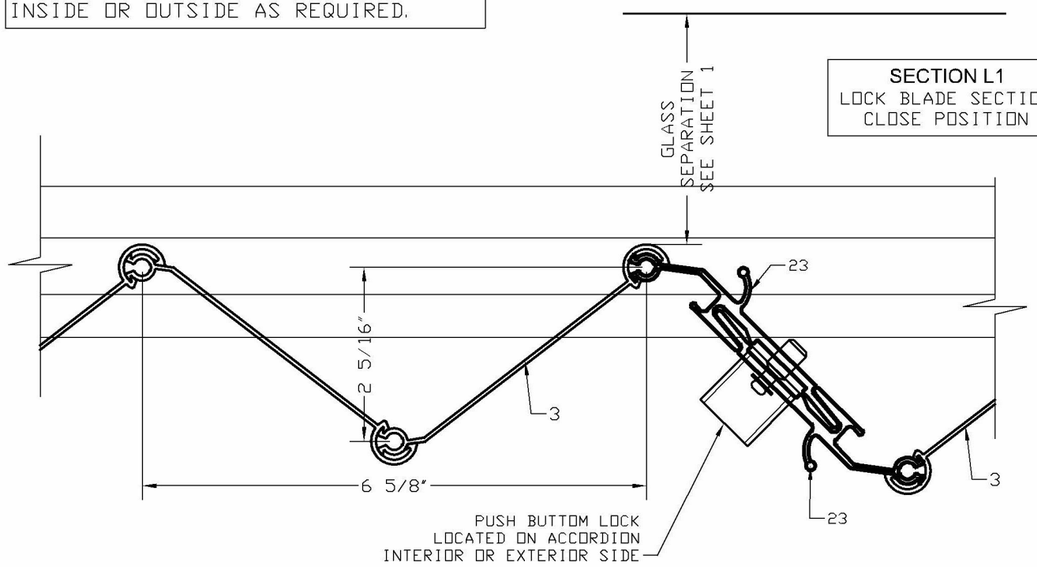
SHEET 8 of 12

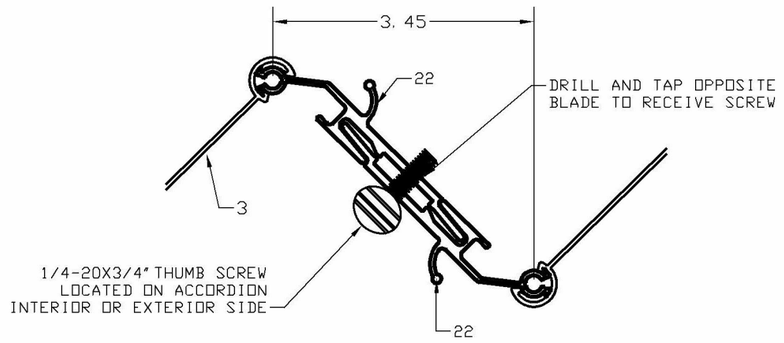
TYPICAL HORIZONTAL
UNIMATE LOCK SECTIONS

NOTE: SHUTTER CAN BE LOCKED FROM INSIDE OR OUTSIDE BY PLACING THE PUSH BUTTOM LOCK OR THUM SCREW INSIDE OR OUTSIDE AS REQUIRED.

SECTION L1
LOCK BLADE SECTION
CLOSE POSITION



SECTION L1
LOCK BLADE SECTION
CLOSE POSITION
W/ THUMB SCREW



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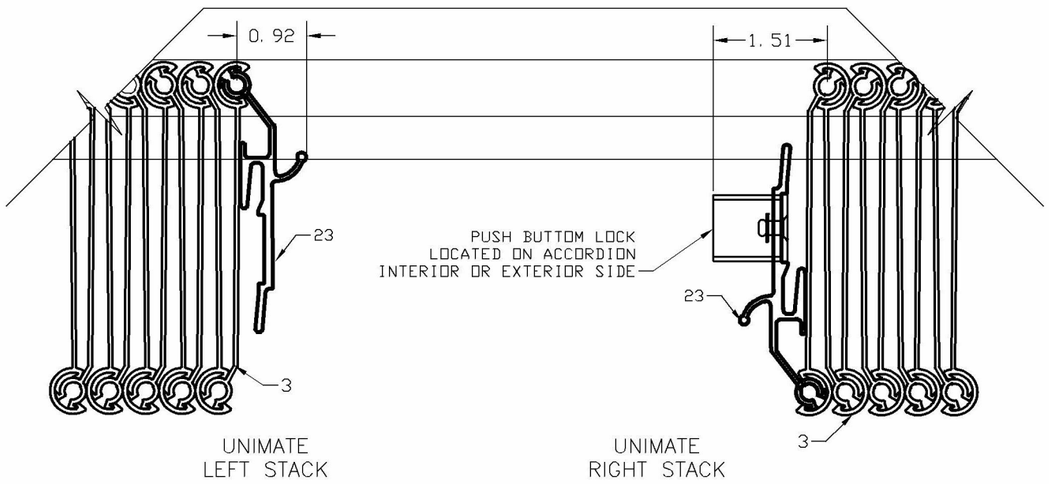
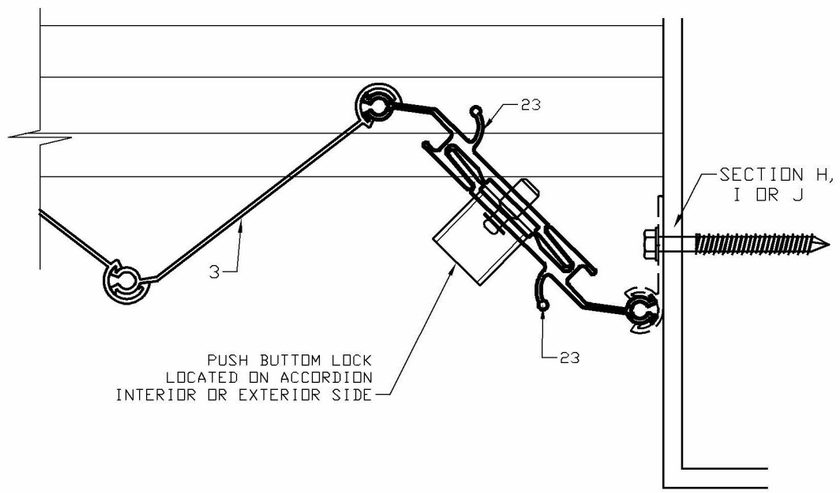
PE52609
09/10/2023

SECTION L1
LOCK BLADE SECTION
OPEN POSITION



ALTERNATE SECTION L1
UNIMATE LOCK BLADE WITH
STARTER BLADE SECTION



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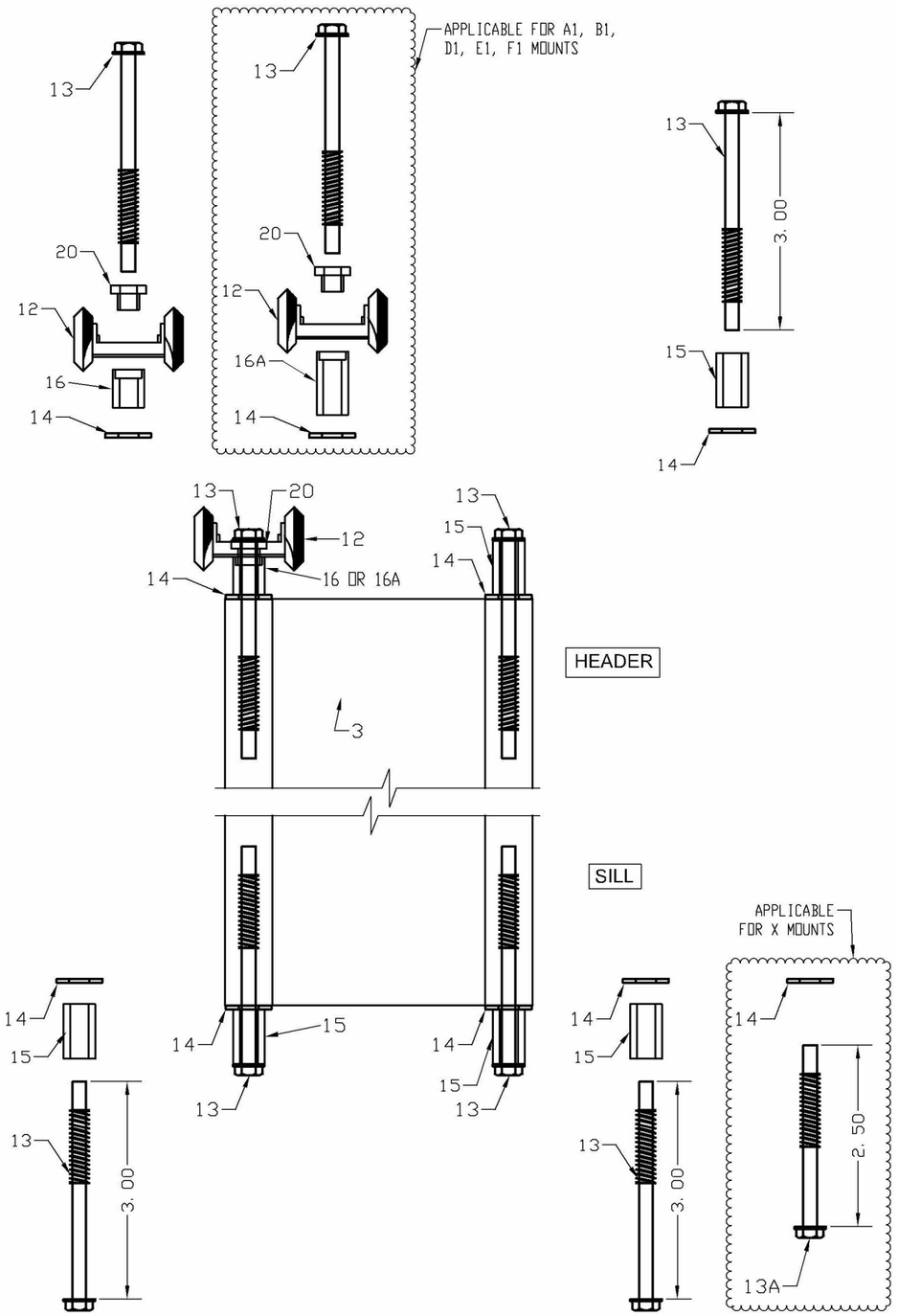
23-162

SHEET
9 of 12

TYPICAL BLADE ASSEMBLY



BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL	MANUFACTURER
1	1" WALL MOUNT TRACK	6063-T6 ALUMINUM	CROCI
1A	2" WALL MOUNT TRACK	6063-T6 ALUMINUM	CROCI
1B	3" WALL MOUNT TRACK	6063-T6 ALUMINUM	CROCI
2	CEILING TRACK	6063-T6 ALUMINUM	CROCI
2.1	CEILING TRACK	6063-T6 ALUMINUM	CROCI
3	ACCORDION BLADE	6063-T6 ALUMINUM	CROCI
4	LOCK		
5	LOCK BLADE INSERT	6063-T6 ALUMINUM	CROCI
6	MALE LOCK BLADE	6063-T6 ALUMINUM	CROCI
7	FEMALE LOCK BLADE	6063-T6 ALUMINUM	CROCI
8	STARTER BLADE	6063-T6 ALUMINUM	CROCI
9	"A" TRACK	6063-T6 ALUMINUM	CROCI
10	ADJUSTABLE TRACK	6063-T6 ALUMINUM	CROCI
10A	ADJUST. CHANNEL	6063-T6 ALUMINUM	CROCI
10B	ADJUST. CHANNEL W/ FLANGE	6063-T6 ALUMINUM	CROCI
11			
12	WHEEL CARRIER	PLATED STEEL/ NYLON	CROCI
13	1/4"X3" SCREW BLADE	410 STAINLESS STEEL	CROCI
13A	1/4"X2.5" SCREW BLADE	410 STAINLESS STEEL	CROCI
14	1/2" SS FLAT WASHER	STAINLESS STEEL	CROCI
15	7/8"x7/16" BUSHING	NYLON	CROCI
16	1/2"x1/2" WHEEL BUSHING	NYLON	CROCI
16A	1/2"x3/4" WHEEL BUSHING	NYLON	CROCI
17	1/8 BUILT-OUT ANGLES	6063-T6 ALUMINUM	CROCI
18	1/4"-2X3 ANGLE	6063-T6 ALUMINUM	CROCI
19	PUSH-BUTTOM LOCK		
20	1/2"x 1/4" WHEEL SPACER	NYLON	CROCI
21	1" WALL MOUNT TRACK	6063-T6 ALUMINUM	CROCI
21.1	1" WALL MOUNT TRACK	6063-T6 ALUMINUM	CROCI
21A	2" WALL MOUNT TRACK	6063-T6 ALUMINUM	CROCI
21.1A	2" WALL MOUNT TRACK	6063-T6 ALUMINUM	CROCI
21B	3" WALL MOUNT TRACK	6063-T6 ALUMINUM	CROCI
21.1B	3" WALL MOUNT TRACK	6063-T6 ALUMINUM	CROCI
22	0.04" OPTIONAL COVER	ALUMINUM BREAK METAL	CROCI
23	UNIMATE LOCK BLADE	6063-T6 ALUMINUM	CROCI
24	1 1/2 X 2 1/4 RECESS TRACK	6063-T6 ALUMINUM	CROCI
24A	DUST COVER	6063-T6 ALUMINUM	CROCI
25	THRESHOLD SILL TRACK	6063-T6 ALUMINUM	CROCI
26	THRESHOLD SILL TRACK	6063-T6 ALUMINUM	CROCI
27	1" END CLOSURE	6063-T6 ALUMINUM	CROCI
28	2" END CLOSURE	6063-T6 ALUMINUM	CROCI
29	3" END CLOSURE	6063-T6 ALUMINUM	CROCI

ANCHOR SCHEDULE

ANCHOR	SUBSTRATE	DESCRIPTION	EMBED.	ED	MANUFACTURER
A	3000 PSI CONCRETE	1/4" TAPCON	1-3/4"	2-1/2	ITW
		1/4" ULTRACON	1-3/4"	2-1/2	ELCO
	GF C90 CMU BLOCK	1/4" ULTRACON	2-1/4"	2-1/2	ELCO
B	HOLLOW C90 CMU BLOCK	1/4" TAPCON	1-1/4"	2-1/2	ITW
		1/4" ULTRACON	1-1/4"	2-1/2	ELCO
C	WOOD (SG>=.55)	1/4" TAPCONS/ ULTRACON	1-1/2"	1.0	ITW / ELCO
		#14 WOOD SCREWS	1-1/2"	1.0	GENERIC
D	3000 PSI CONCRETE	1/4-20 SOLID-SET	7/8"	3.0	ALL POINTS
E	.125" ALUMINUM .11" 12GA STEEL	1/4-14 TAPPING SCREWS	1/8"	3/8	GR5 GENERIC

ANCHOR NOTES:
1- ANCHOR TYPE E TO BE INSTALLED IN 6063-T6 ALUMINUM OR ASTM A36 STEEL
2- WOOD MINIMUM SPECIFIC GRAVITY SG=0.55 SOUTHERN PINE OR MIXED MAPLE
3- ANCHORS HAVE BEEN EVALUATED UNDER ALUMINUM DESIGN MANUAL 2010 AND AMERICAN WOOD COUNCIL DESIGN MANUAL NDS 2012
4- ANCHORS ARE TO BE 300 SERIES STAINLESS STEEL OR PROTECTED WITH COATING SUFFICIENT TO PROVIDE CORROSION PROTECTION FOR THE INTENDED SERVICE.

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09/10/2023

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SHEET 10 of 12

COMPONENTS

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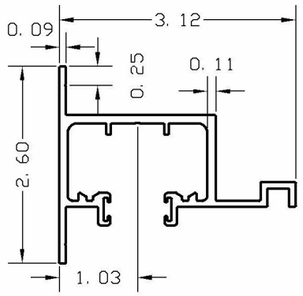
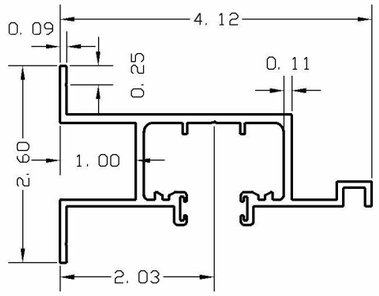
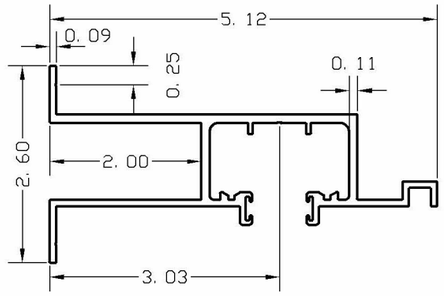


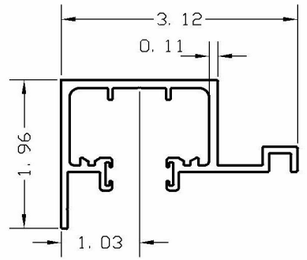
1- 1" WALL MOUNT TRACK



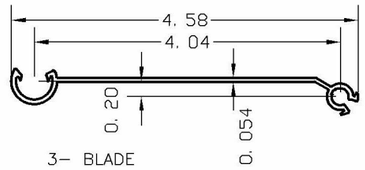
1A- 2" WALL MOUNT TRACK



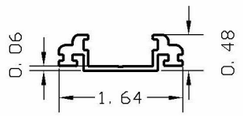
1B- 3" WALL MOUNT TRACK



2- CEILING TRACK

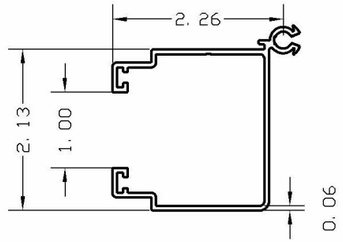


3- BLADE

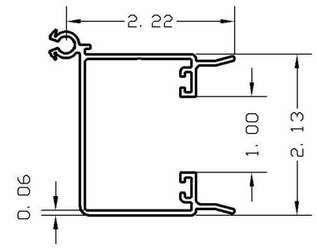


5- LOCK BLADE INSERT

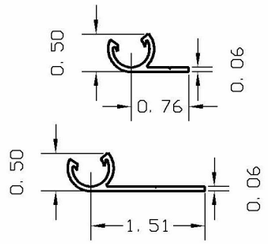
6- MALE LOCK STYLE



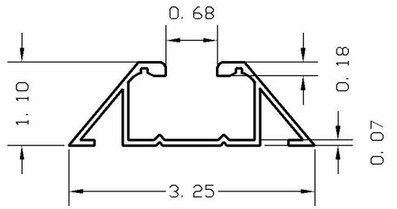
7- FEMALE LOCK STYLE

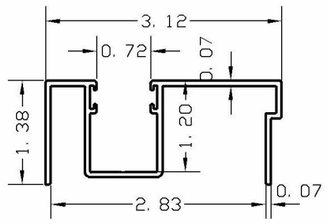


8- STARTER BLADES

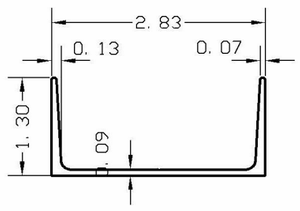


9- "A" TRACK

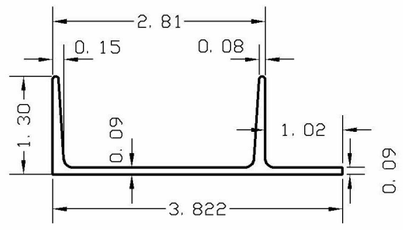




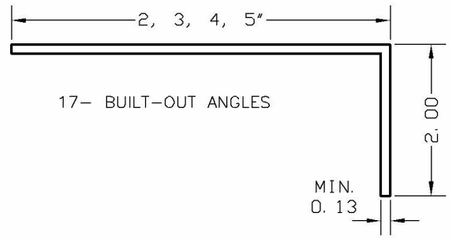
10-ADJUSTABLE SILL TRACK



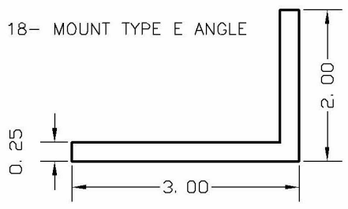
10A- ADJUSTABLE SILL CHANNEL



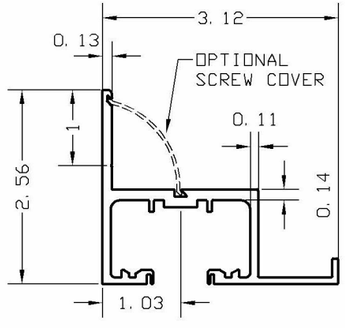
10B- ADJUSTABLE SILL CHANNEL W/ FLANGE



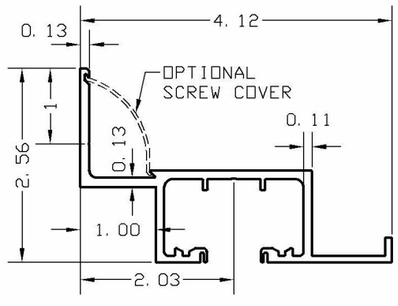
17- BUILT-OUT ANGLES



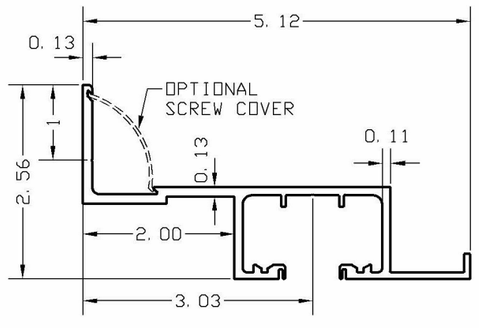
18- MOUNT TYPE E ANGLE



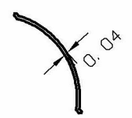
21- 1" WALL MOUNT TRACK



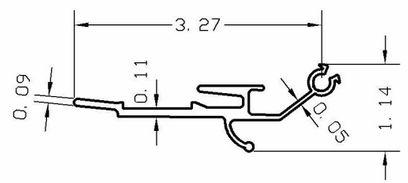
21A- 2" WALL MOUNT TRACK



21B- 3" WALL MOUNT TRACK



22- 0.04" BREAK METAL
OPTIONAL SCREW COVER



23- UNIMATE LOCK STYLE

ENGINEERING SERVICES
CA 32459
9715 W. BROWARD BLVD. 247
PLANTATION, FL 33324
PFMF@AOL.COM

ENGINEER SEAL
PEDRO DE FIGUEIREDO
PE 52609

PRODUCT:
CROCI ACCORDION SHUTTER
EXTRUDED ALUMINUM

MANUFACTURER:
CROCI
NORTH AMERICA
11600 ADELMO LANE FORT MYERS, FL 33966
TEL.: (239) 278-3066 - FAX: (239) 278-5977
EMAIL: INFO@CROCIUSA.COM

SCALE: NA

DATE: 09/10/2023

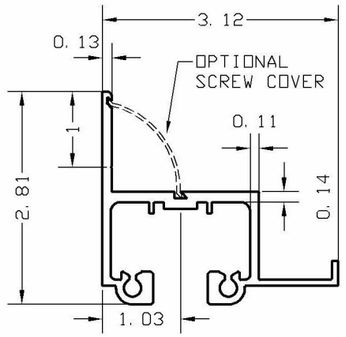
DRAWING # 23-162

COMPONENTS

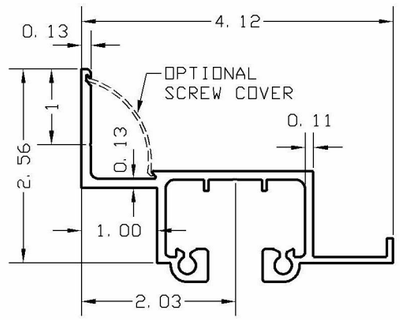
THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY PEDRO DE FIGUEIREDO ON THE DATE INDICATED HERE.

PEDRO M. DE FIGUEIREDO LICENSE No. 52609 STATE OF FLORIDA PROFESSIONAL ENGINEER

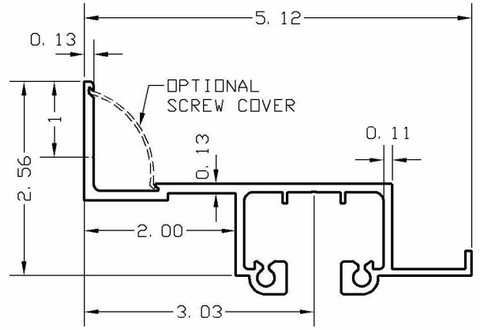
Pedro De Figueiredo
PE52609
09/10/2023



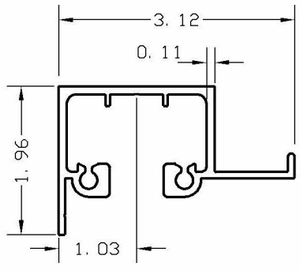
21.1- 1" WALL MOUNT TRACK



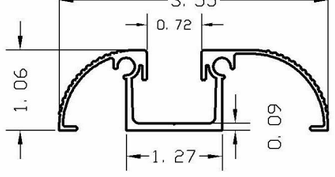
21.1A- 2" WALL MOUNT TRACK



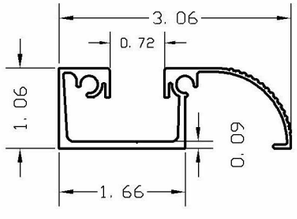
21.1B- 3" WALL MOUNT TRACK



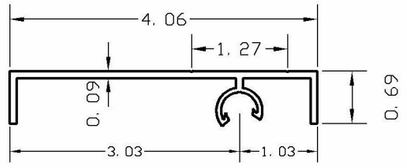
2.1- CEILING TRACK



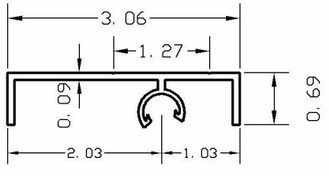
25- THRESHOLD SILL TRACK



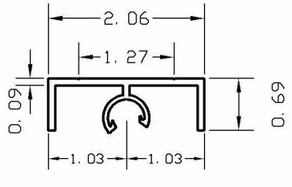
26- THRESHOLD SILL TRACK



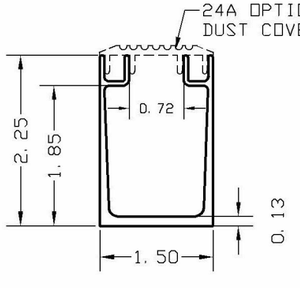
27B- 3" END CLOSURE



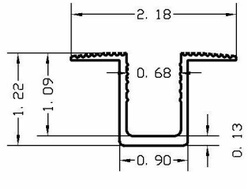
27A- 2" END CLOSURE



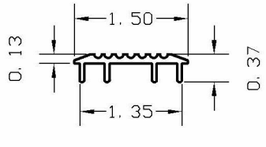
27- 1" END CLOSURE



24- RECESS FLOOR TRACK



24.1- ALTERNATE
RECESS FLOOR TRACK



24A- DUST COVER

ENGINEER SEAL
PEDRO DE FIGUEIREDO
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SCALE:
NA

DATE:
09/10/2023

DRAWING #
23-162

SHEET
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