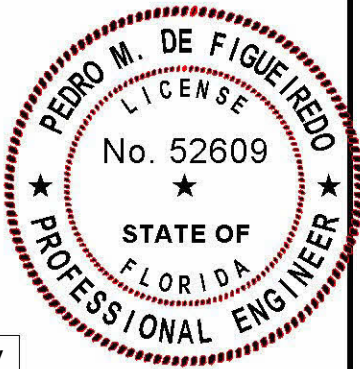


REGENCY ALUMINUM ACCORDION SHUTTER

EXTRUDED ALUMINUM ACCORDION SHUTTER

FLORIDA STATE APPROVAL

CODE VERSION: FLORIDA BUILDING CODE 2020 - 7th EDITION
APPROVED FOR USE IN HVHZ AND OUTSIDE HVHZ
CATEGORY: SHUTTERS -- SUBCATEGORY: ACCORDION
IMPACT RESISTANT: (LEVEL D) - LARGE & SMALL MISSILE



Pedro De Figueiredo
Digitally signed by Pedro De Figueiredo
Date: 2021.08.09 16:01:28 -04'00'

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PE 52609
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GENERAL NOTES: (FLORIDA BUILDING CODE 2020 - 7th 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 2020 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 SECTION 1703.5. 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 7-16, 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. PRESSURES ARE ASD, THEREFORE ULTIMATE WIND PRESSURES MUST BE MULTIPLIED BY 0.6 FACTOR.
- 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- SELECT ANCHOR TYPE ON SHEET 8 IN ACCORDANCE WITH THE SUBSTRATE
- 5- DETERMINE MAXIMUM ANCHORAGE SPACING FUNCTION OF SHUTTER SPAN, DESIGN LOAD CAPACITY AND MOUNT TYPE USING SHEETS 9, 10 & 11.
- 6- THE LOWEST PRESSURE FROM ITEMS 2 AND 5 ABOVE MUST NOT EXCEED THE REQUIRED DESIGN PRESSURE FROM GENERAL NOTES 4

TABLE OF CONTENTS:

SHEET	DESCRIPTION
1	TABLE OF CONTENTS, GENERAL NOTES, USER INSTRUCTIONS
2	TYPICAL ELEVATION, ALLOWABLE BLADE PRESSURE TABLE 1 (1A AND 1B) AND TABLE 2 (GLAZING SEPARATION)
3	TYPICAL VERTICAL SECTIONS A, B, C & C1
4	TYPICAL SECTIONS D, E, E1, F & G
5	TYPICAL SECTIONS H, H1, H2 & H3
6	BILL OF MATERIAL AND SHUTTER COMPONENTS
7	SHUTTER COMPONENTS & BLADE ASSEMBLY
8	ANCHORAGE TYPE SCHEDULE
9	ANCHOR SPACING FOR MOUNTS A, B, C & C1
10	ANCHOR SPACING FOR MOUNTS D, E, E1 & F
11	ANCHOR SPACING FOR MOUNTS H, H1, H2 & H3
12	HORIZONTAL SECTION L & I
13	HORIZONTAL SECTION J & J1
14	SECTION CT - INSTALLATION OVER COUNTER TOP
15	FRAMING WALLS AND CEILING TRUSSES INSTALLATIONS

STANDARD COMPLIANCE:
ASTM E330, E1996 (LEVEL D MISSILE)
TAS 201, 202, 203 (LARGE & SMALL MISSILE)
ASCE 7-16, ADM-15, NDS-18



PRODUCT:
REGENCY
EXTRUDED ALUMINUM
ACCORDION SHUTTER
LARGE MISSILE IMPACT RESISTANT

ASSOCIATION OF MANUFACTURERS:
N.A.S.A.
NATIONAL APPROVED SHUTTER ASSOCIATION L.L.C.
MIRAMAR, FL 33027

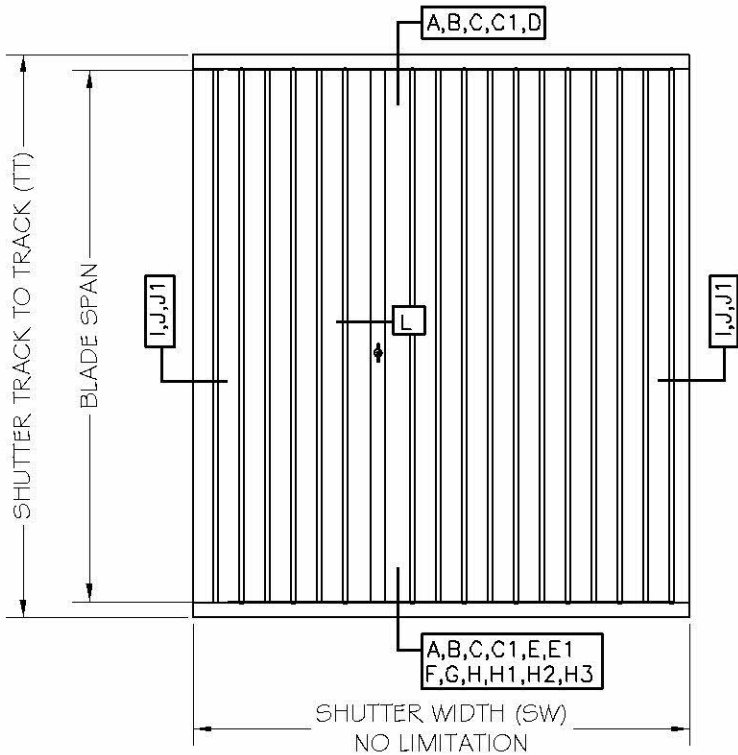
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1 OF 15

TABLE 1 - ALLOWABLE BLADE SHUTTER SPAN X PRESSURE

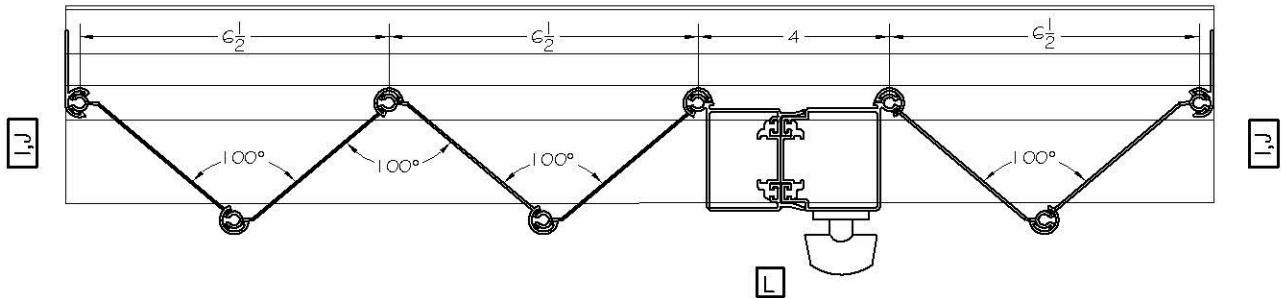
BLADE SPAN (INCHES)	TABLE 1A - FBC HVHZ (MIAMI-DADE & BROWARD COUNTIES)		TABLE 1B - FBC NON-HVHZ
	POS (PSF)	NEG (PSF)	
60	200	200	200
65	200	200	200
72	185	185	185
78	172	172	172
84	160	160	160
90	148	148	148
96	140	140	140
102	125	125	125
108	111	111	111
114	100	100	100
120	90	90	90
132	50	74	74
144	35	62	62
150	30	55	55

NOTES:
1- ACCORDION SHUTTER BLADE SPAN (INCHES) FOR ALL CONDITIONS
2- PRESSURE - ASD DESIGN WIND LOAD (PSF)
3- LINEAR INTERPOLATION IS ACCEPTABLE FOR DESIGN WIND LOADS AND BLADE SPAN BETWEEN TABULATED VALUES.
4- USE TABLE 1A FOR LOCATIONS OUTSIDE THE HVHZ AS DEFINED IN THE FBC.
5- BLADE REVERSED INSTALLATION IS ALLOWED FOR ALL MOUNTED CONDITIONS

TYPICAL ELEVATION



TYPICAL HORIZONTAL SECTION



TYPICAL VERTICAL SECTION

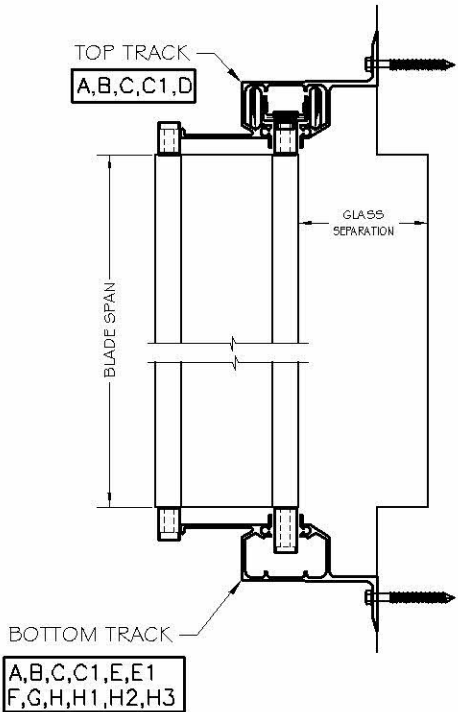
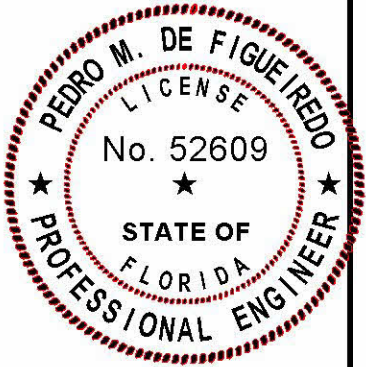


TABLE 2
MINIMUM SHUTTER SEPARATION FROM GLAZING

ELEVATION	GLAZING SEPARATION (INCHES)			
	<= 150"	<= 120"	<= 96"	<= 65'
>30° ELEVATION	3"	2 5/8"	2 1/8"	1 3/4"
<=30° ELEVATION	3 1/2"			

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 HVHZ (BROWARD AND MIAMI-DADE COUNTIES), WIND ZONE 4 AS PER ASTM E1996 AND ESSENTIAL FACILITIES AS DEFINED ON ASCE 7-16.



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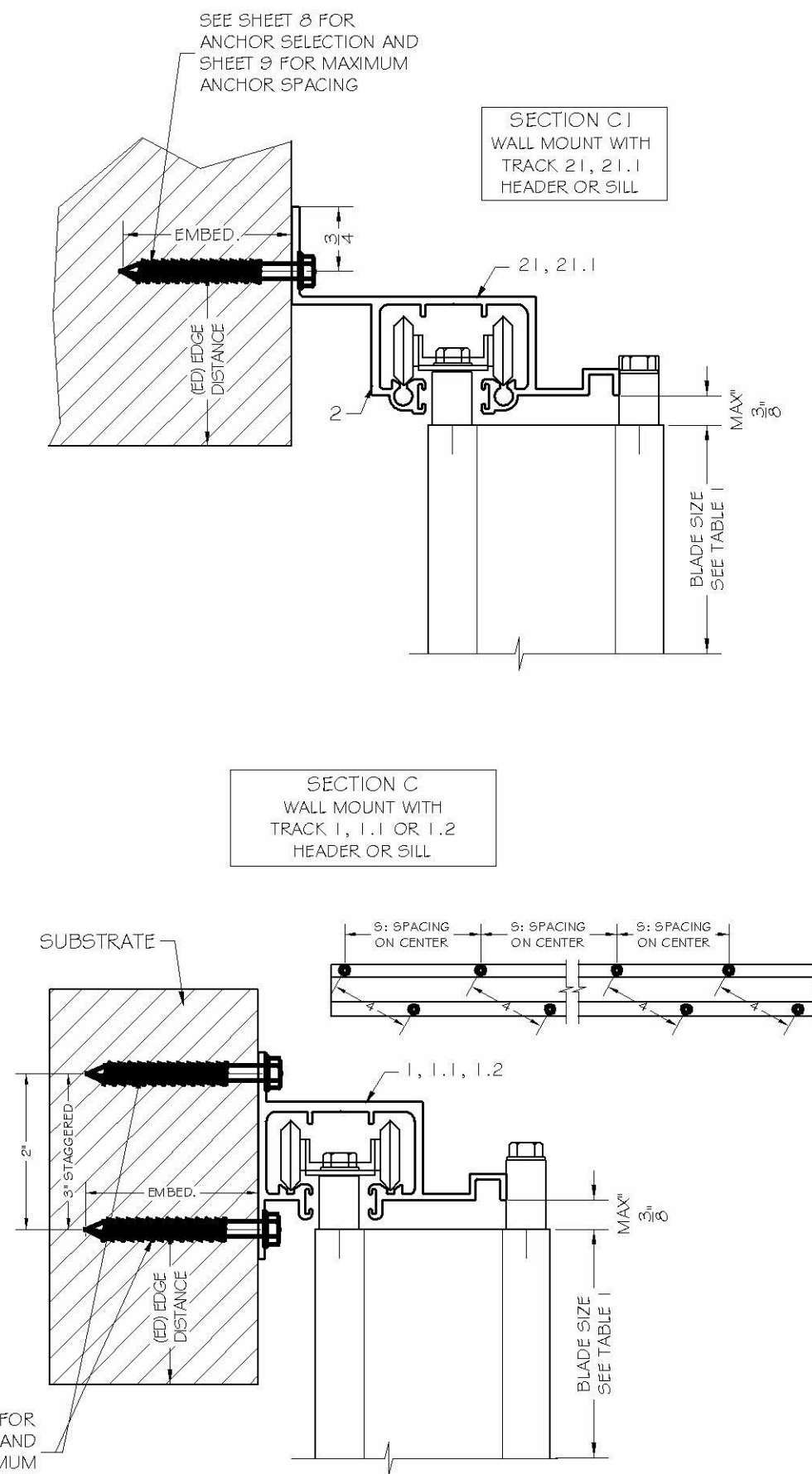
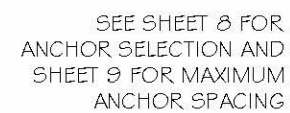
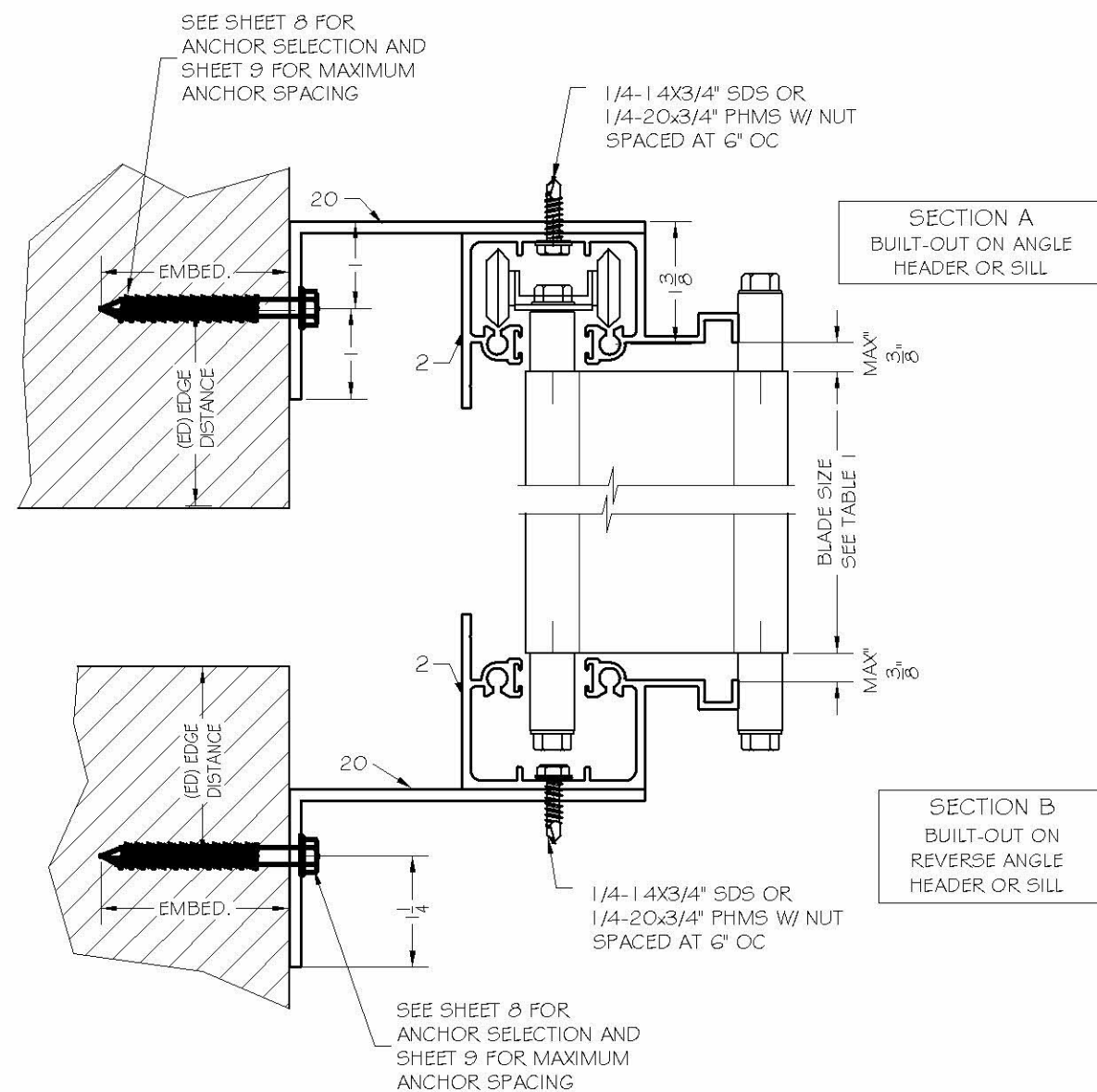


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RESISTANT

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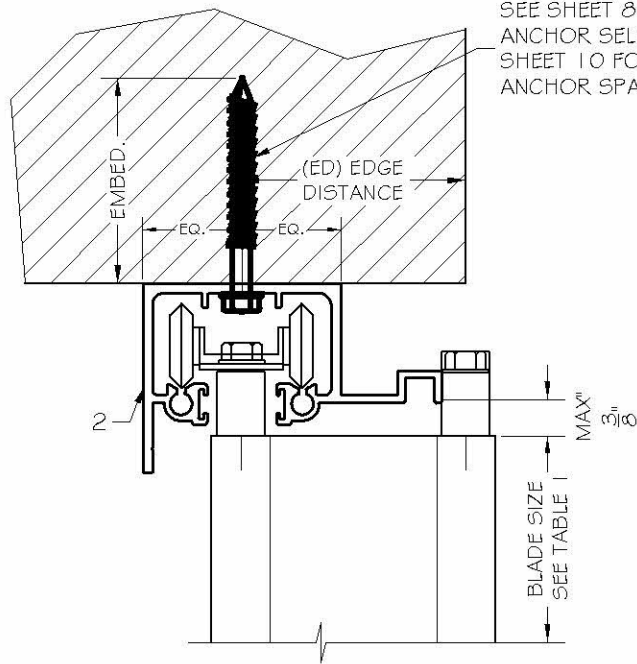
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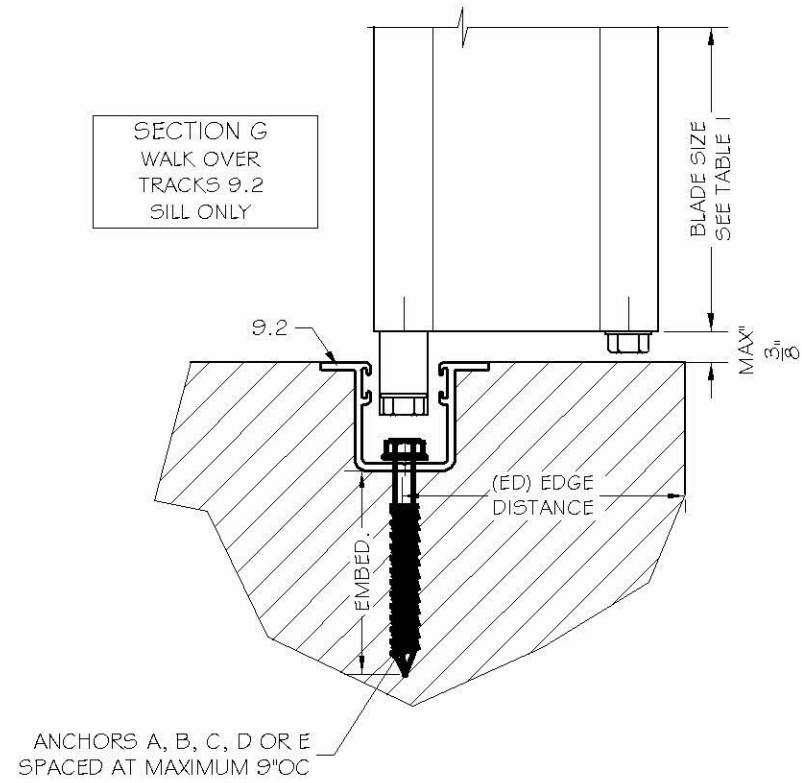
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SECTION D
INSET MOUNT W/ TRACK 2
HEADER OR SILL



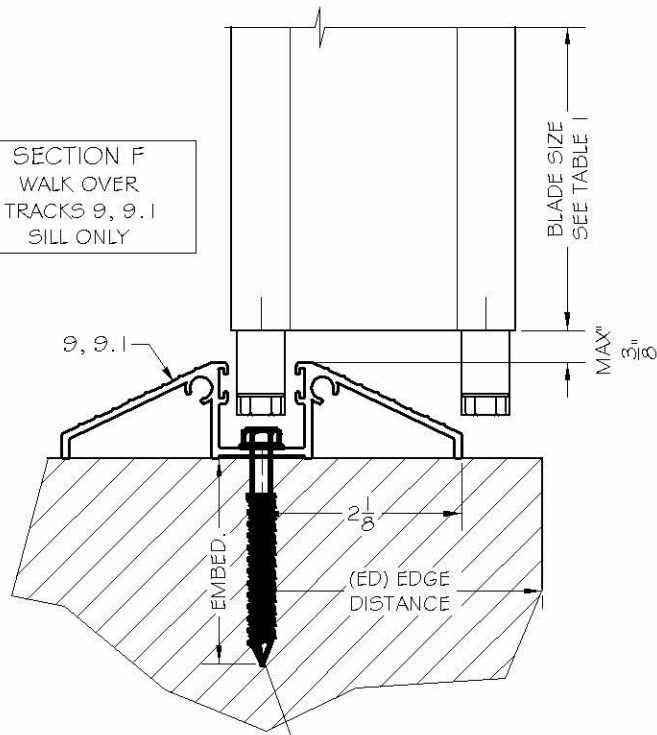
SEE SHEET 8 FOR
ANCHOR SELECTION AND
SHEET 10 FOR MAXIMUM
ANCHOR SPACING

SECTION G
WALK OVER
TRACKS 9.2
SILL ONLY



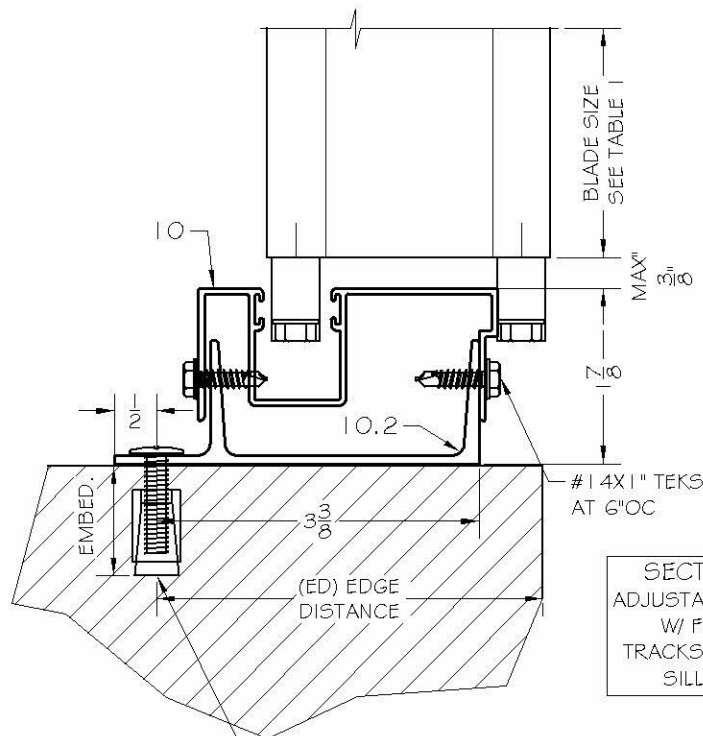
ANCHORS A, B, C, D OR E
SPACED AT MAXIMUM 9\"/>

SECTION F
WALK OVER
TRACKS 9, 9.1
SILL ONLY



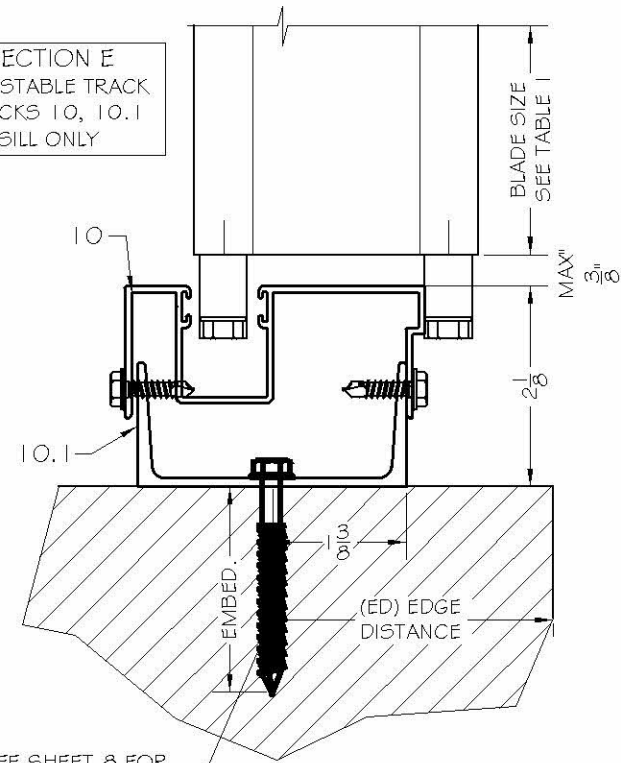
SEE SHEET 8 FOR
ANCHOR SELECTION AND
SHEET 10 FOR MAXIMUM
ANCHOR SPACING

SECTION E1
ADJUSTABLE TRACK
W/ FLANGE
TRACKS 10, 10.2
SILL ONLY



SEE SHEET 8 FOR
ANCHOR SELECTION AND
SHEET 10 FOR MAXIMUM
ANCHOR SPACING

SECTION E
ADJUSTABLE TRACK
TRACKS 10, 10.1
SILL ONLY



SEE SHEET 8 FOR
ANCHOR SELECTION AND
SHEET 10 FOR MAXIMUM
ANCHOR SPACING



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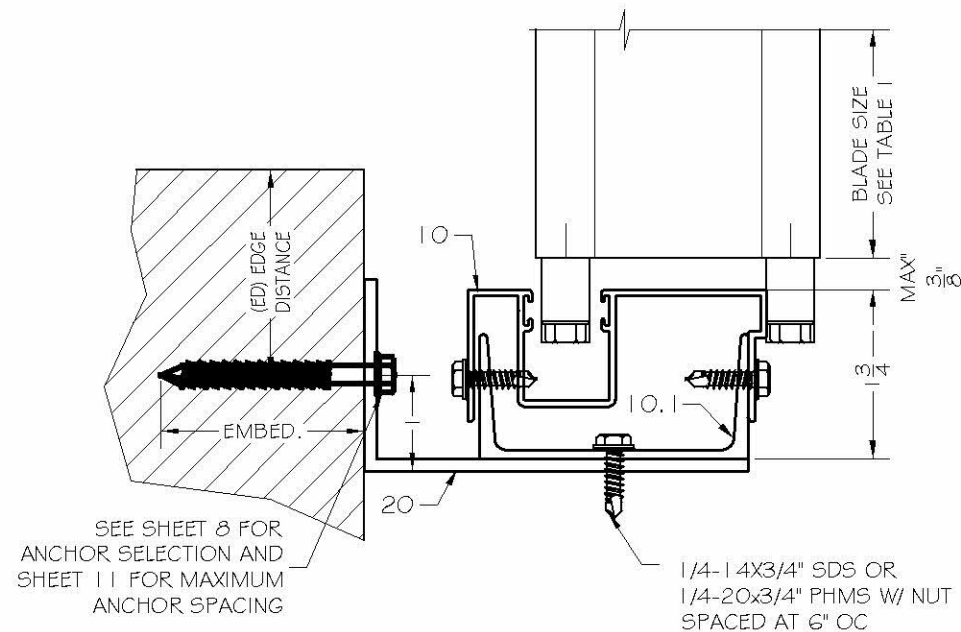


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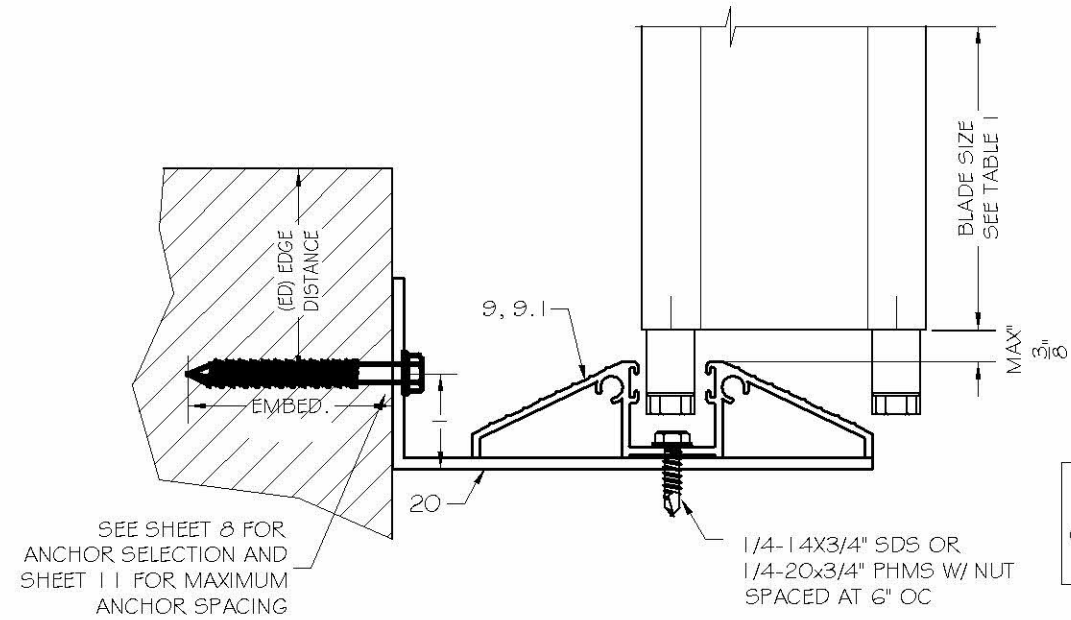
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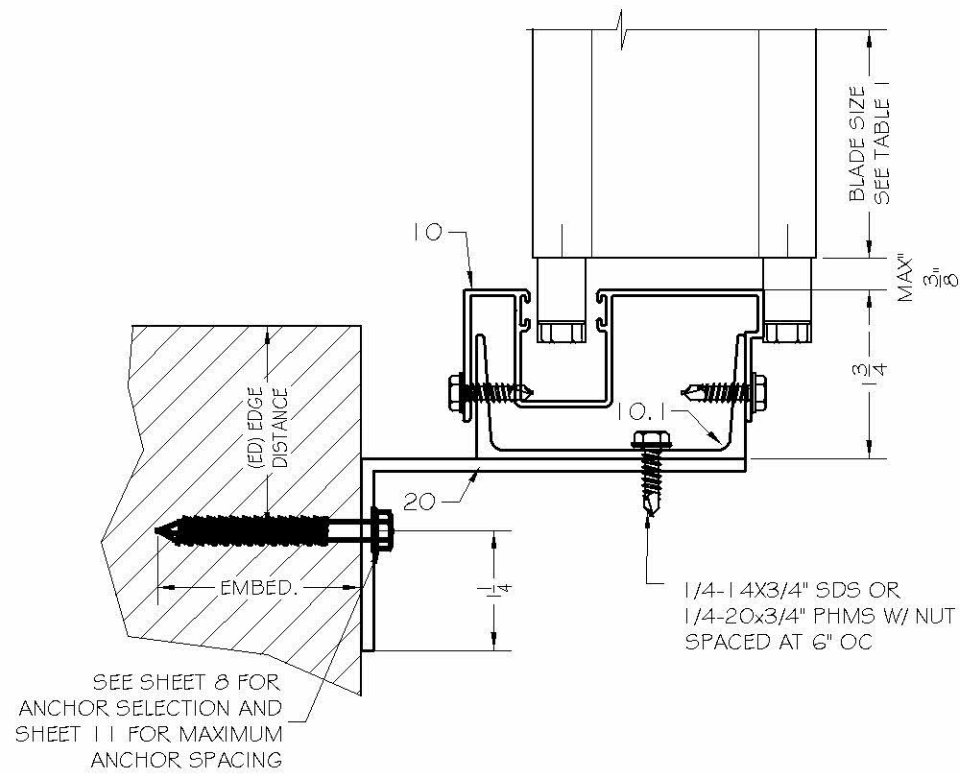
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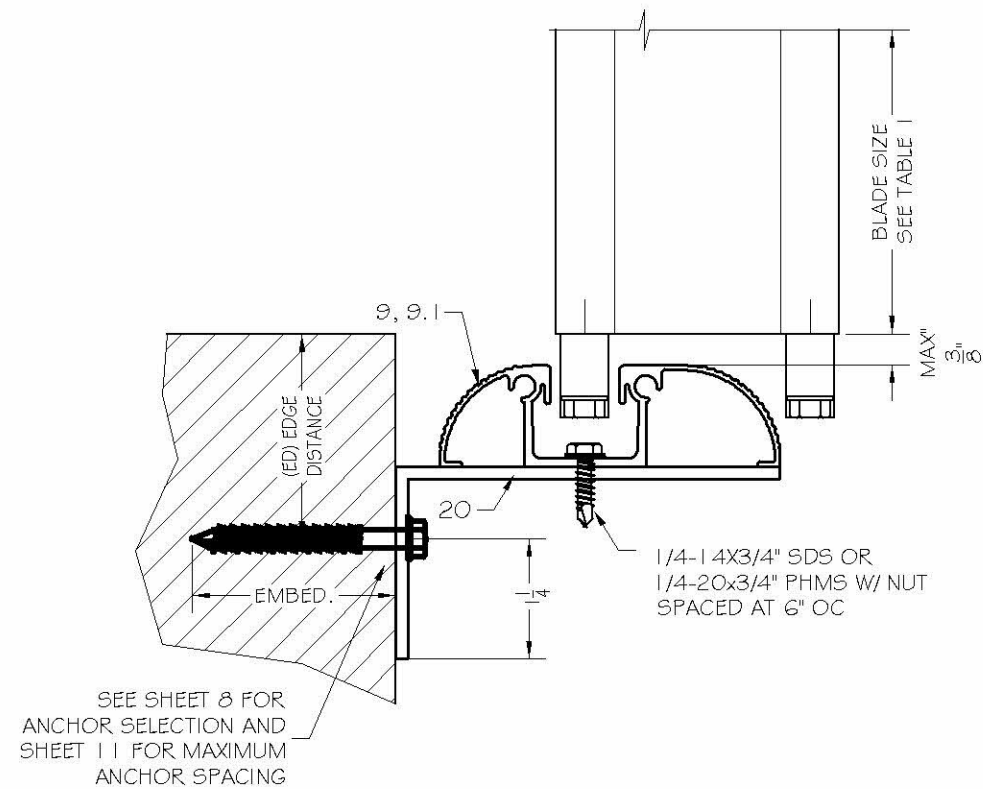
SECTION H
ADJUSTABLE TRACK
ON BUILT-OUT ANGLE
SILL ONLY



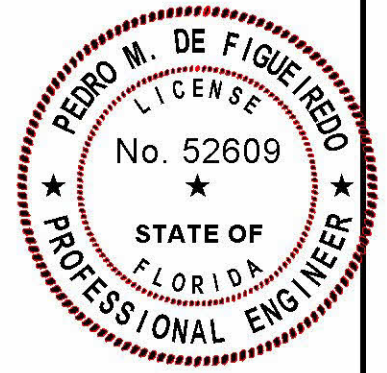
SECTION H2
WALK OVER TRACK
ON BUILT-OUT ANGLE
SILL ONLY



SECTION H1
ADJUSTABLE TRACK
ON BUILT-OUT
REVERSED ANGLE
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SECTION H3
WALK OVER TRACK
ON BUILT-OUT
REVERSED ANGLE
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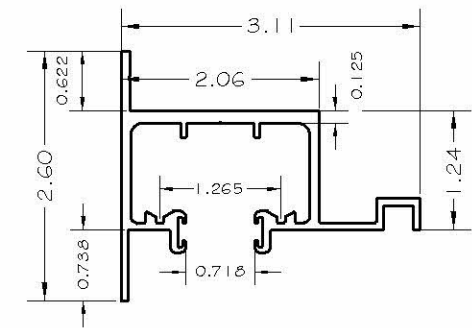
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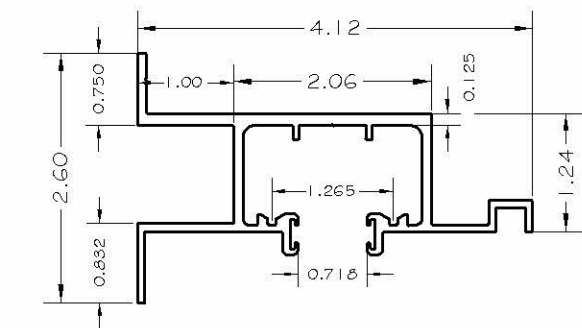
BILL OF MATERIALS

ITEM	DESCRIPTION	MATERIAL
1	1" WALL MOUNT TRACK	6063-T6 ALUMINUM
1.1	2" WALL MOUNT TRACK	6063-T6 ALUMINUM
1.2	3" WALL MOUNT TRACK	6063-T6 ALUMINUM
2	CEILING TRACK	6063-T6 ALUMINUM
3	ACCORDION BLADE	6063-T6 ALUMINUM
3.1	ACCORDION BLADE FLOATER	6063-T6 ALUMINUM
4	STARTER BLADE	6063-T6 ALUMINUM
4.1	3" CLOSURE - STARTER BLADE	6063-T6 ALUMINUM
4.2	2" CLOSURE - STARTER BLADE	6063-T6 ALUMINUM
4.3	1" CLOSURE - STARTER BLADE	6063-T6 ALUMINUM
5	LOCK BLADE INSERT	6063-T6 ALUMINUM
5.1	MALE LOCK BLADE	6063-T6 ALUMINUM
5.2	FEMALE LOCK BLADE	6063-T6 ALUMINUM
6	NA	
7	NA	
8	NA	
9	WALKOVER SILL TRACK	6063-T6 ALUMINUM
9.1	ALTERNATE WALKOVER SILL TRACK	6063-T6 ALUMINUM
9.2	RECESSED TRACK	6063-T6 ALUMINUM
10	ADJUSTABLE SILL TRACK	6063-T6 ALUMINUM
10.1	ADJUSTABLE SILL CHANNEL	6063-T6 ALUMINUM
10.2	ADJUSTABLE SILL CHANNEL WITH FLANGE	6063-T6 ALUMINUM
11	NA	
12	WHEEL CARRIER	PLATED STEEL / NYLON
13	1/4"X3" BLADE ASSEMBLY SCREW	410 STAINLESS STEEL
14	1/2" FLAT WASHER	STAINLESS STEEL
15	NA	
16	1/2" X 1/2" WHEEL BUSHING	NYLON
16.1	1/2" X 3/4" WHEEL BUSHING	NYLON
16.2	1/2" X 1/4 WHEEL SPACER	NYLON
17	NA	
18	NA	
19	NA	
20	1/8" BUILT-OUT ANGLE	6063-T6 ALUMINUM
21	ALTERNATE 2" WALL MOUNT TRACK	6063-T6 ALUMINUM
21.1	ALTERNATE 3" WALL MOUNT TRACK	6063-T6 ALUMINUM

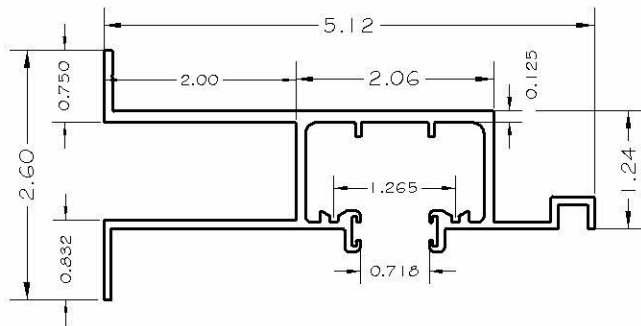
SHUTTER COMPONENTS



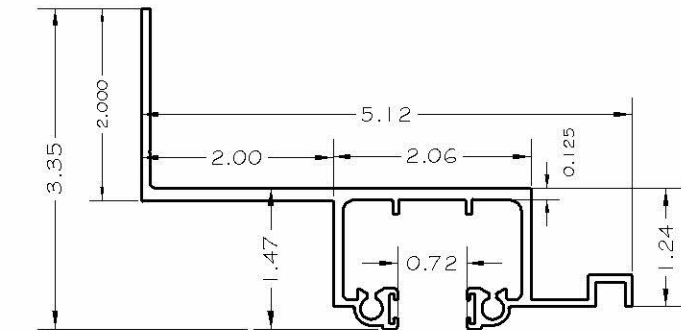
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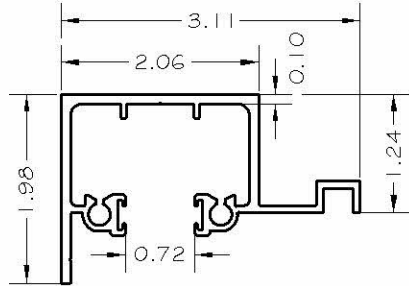
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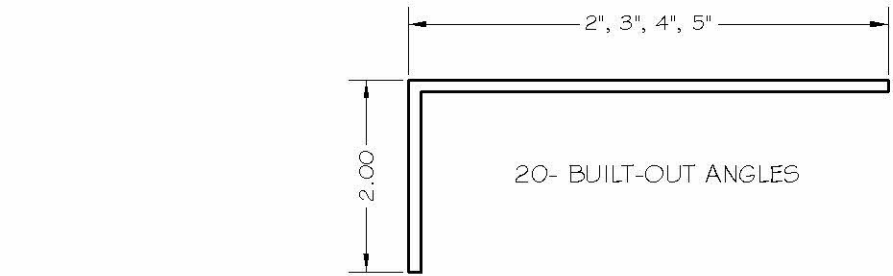
1.2- 3" WALL MOUNT TRACK



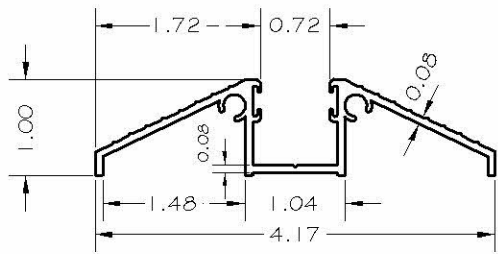
21.1- ALTERNATE 3" WALL MOUNT TRACK



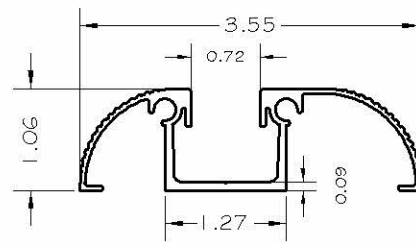
2- CEILING TRACK



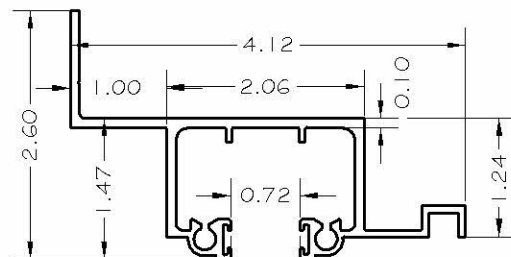
20- BUILT-OUT ANGLES



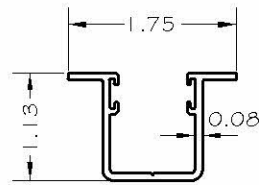
9- WALKOVER SILL TRACK



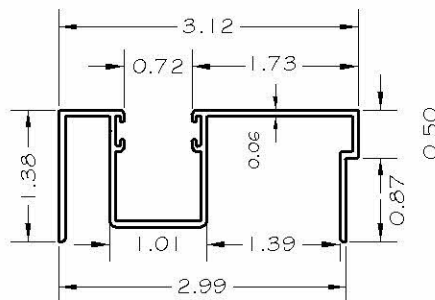
9.1- ALTERNATE WALKOVER SILL TRACK



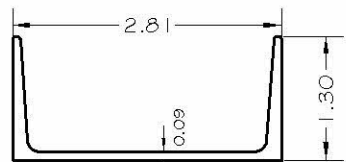
21- ALTERNATE 2" WALL MOUNT TRACK



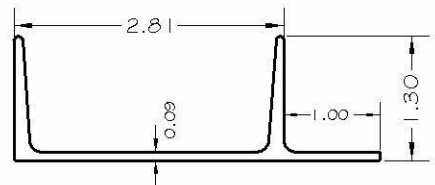
9.2- RECESSED TRACK



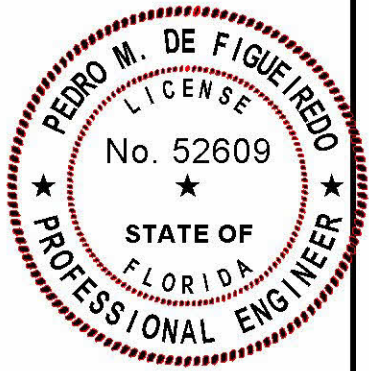
10-ADJUSTABLE SILL TRACK



10.1- ADJUSTABLE SILL CHANNEL



10.2- ADJUSTABLE SILL CHANNEL WITH FLANGE



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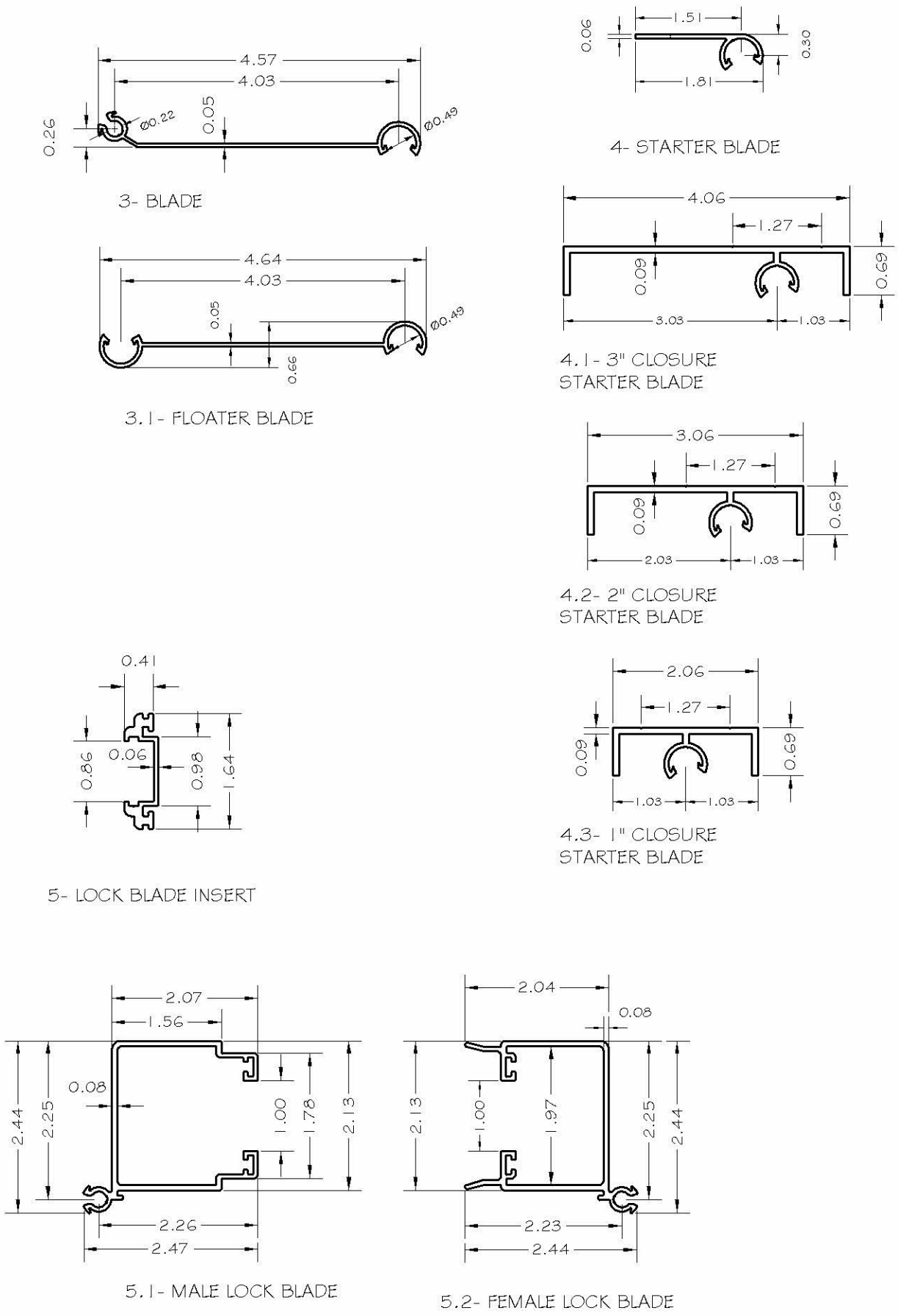
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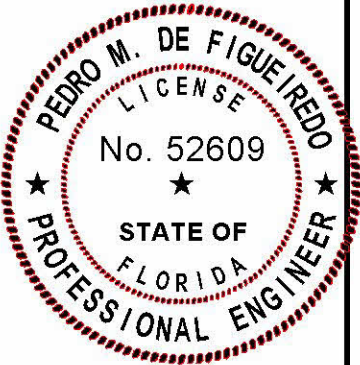
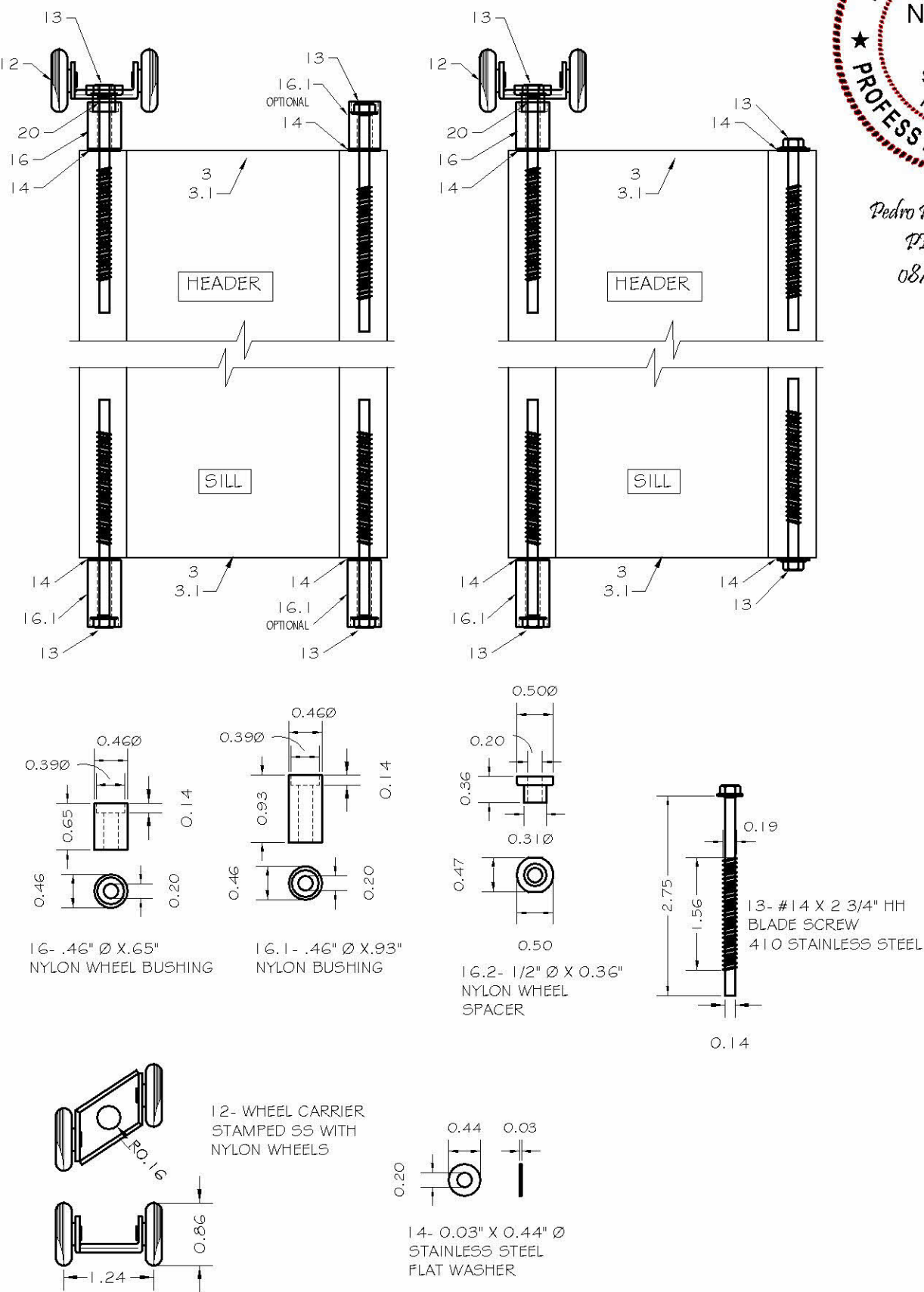
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SHUTTER COMPONENTS



TYPICAL BLADE ASSEMBLY



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DATE:
08/09/2021

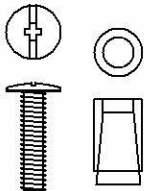
DRAWING #
21-035

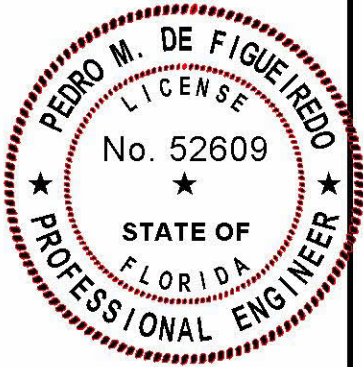
SHEET
7 OF 15

ANCHOR SCHEDULE

Type	Description
A	1/4" Ultracon by Dew alt 1 3/4" embedment into min. 3ksi concrete 2 1/2" min. ED
	1/4" Tapcon by ITW 1 3/4" embedment into min. 3ksi concrete 2 1/2" min. ED
A1	1/4" Ultracon by Dew alt 1 1/4" embedment into C-90 Hollow Block 2 1/2" min. ED
	1/4" Tapcon by ITW 1 1/4" embedment into C-90 Hollow Block 2 1/2" min. ED
B	1/4" Calk-in anchor by Dew alt into min. 3 Ksi concrete, 3" min. ED
B1	1/4" Calk-in anchor by Dew alt into C-90 Block, 3" min. ED
C	1/4" Galvanized Lag Screw s with 1 1/2" embedment into w ood (SG>=.55), 1" min. ED
D	1/4" Kw ik-Flex SDS by Hilti into 1/8" Metal (6063-T5 aluminum or ASTM A36 Steel)
E	5/16" Ultracon by Dew alt 1 3/4" embedment into min. 3ksi concrete 3 1/8" min. ED
E1	5/16" Ultracon by Dew alt 1 3/4" embedment into GF C-90 Block 2 1/2" min. ED

NOTES: 1- ED: EDGE DISTANCE SHALL BE BEYOND WALL DRESSING
2- EMB: EMBEDMENT SHALL BE BEYOND WALL DRESSING
3- 1/4" CONCRETE ANCHORS TYPE A CAN BE USED REPLACING TYPE C (1/4" LAG SCREWS)

TYPE A & A1	TYPE B & B1	TYPE C	TYPE D	TYPE E & E1
				
CONCRETE CMU	CONCRETE HOLLOW CMU GF CMU	2X WOOD	1/8" ALUMINUM 1/8" STEEL	CONCRETE GF CMU



Pedro De Figueiredo
PE 52609
08/09/2021

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PRODUCT:
REGENCY
EXTRUDED ALUMINUM
ACCORDION SHUTTER
LARGE MISSILE IMPACT RESISTANT

ASSOCIATION OF MANUFACTURERS:
N.A.S.A
NATIONAL APPROVED SHUTTER ASSOCIATION L.L.C.
MIRAMAR, FL 33027

SCALE:
NA
DATE:
08/09/2021
DRAWING #
21-035
SHEET
8 OF 15

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PEDRO DE FIGUEIREDO
PE 52609

ANCHORAGE SPACING TABLES - MOUNTS TYPE A, B, C AND C1

BLADE SPAN	PD	MOUNT TYPE A							
		MAXIMUM ANCHOR SPACING - ANCHOR TYPES							
		A	A1	B	B1	C	D	E	E1
65	200	9	--	7	--	9	4	9	5
	180	9	--	8	4	9	4	9	5
	160	9	--	9	4	9	5	9	6
	140	9	--	9	5	9	6	9	7
	120	9	4	9	6	9	7	9	8
	100	9	5	9	7	9	8	9	9
	80	9	6	9	9	9	9	9	9
	60	9	8	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
72	180	9	--	7	--	9	4	9	5
	160	9	--	8	4	9	5	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
	100	9	4	9	7	9	8	9	9
	80	9	5	9	9	9	9	9	9
	60	9	7	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
84	160	9	--	8	4	9	4	9	5
	140	9	--	8	4	9	4	9	5
	120	9	--	9	5	9	5	9	6
	100	9	4	9	6	9	6	9	7
	80	9	5	9	7	9	8	9	9
	60	9	6	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
	160	9	--	8	4	9	4	9	5
90	140	9	--	7	--	9	4	9	5
	120	9	--	9	4	9	5	9	6
	100	9	--	9	5	9	6	9	7
	80	9	4	9	7	9	8	9	9
	60	9	6	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
	160	9	--	8	4	9	4	9	5
	140	9	--	9	5	9	5	9	6
96	120	9	--	9	5	9	6	9	7
	100	9	--	9	5	9	6	9	7
	80	9	4	9	6	9	7	9	8
	60	9	5	9	8	9	9	9	9
	40	9	8	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
	160	9	--	8	4	9	4	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
102	100	9	--	9	5	9	6	9	7
	80	9	4	9	6	9	7	9	8
	60	9	5	9	8	9	9	9	9
	40	9	8	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
	160	9	--	8	4	9	4	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
	100	9	--	9	5	9	6	9	7
108	80	9	--	9	5	9	6	9	7
	60	9	5	9	7	9	8	9	9
	40	9	7	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
	160	9	--	8	4	9	4	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
	100	9	--	9	5	9	6	9	7
	80	9	--	9	5	9	6	9	7
114	60	9	5	9	7	9	8	9	9
	40	9	7	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
	160	9	--	8	4	9	4	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
	100	9	--	9	5	9	6	9	7
	80	9	--	9	5	9	6	9	7
	60	9	--	9	5	9	6	9	7
120	40	9	7	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
	160	9	--	8	4	9	4	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
	100	9	--	9	5	9	6	9	7
	80	9	--	9	5	9	6	9	7
	60	9	--	9	5	9	6	9	7
	40	9	7	9	9	9	9	9	9
132	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
	160	9	--	8	4	9	4	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
	100	9	--	9	5	9	6	9	7
	80	9	--	9	5	9	6	9	7
	60	9	--	9	5	9	6	9	7
	40	9	7	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
144	180	9	--	7	--	9	4	9	--
	160	9	--	8	4	9	4	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
	100	9	--	9	5	9	6	9	7
	80	9	--	9	5	9	6	9	7
	60	9	--	9	5	9	6	9	7
	40	9	7	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
150	160	9	--	8	4	9	4	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
	100	9	--	9	5	9	6	9	7
	80	9	--	9	5	9	6	9	7
	60	9	--	9	5	9	6	9	7
	40	9	7	9	9	9	9	9	9
	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	--
	160	9	--	8	4	9	4	9	5

BLADE SPAN	PD	MOUNT TYPE B								
		MAXIMUM ANCHOR SPACING - ANCHOR TYPES								
		A	A1	B	B1	C	D	E	E1	
65	200	7	--	4	--	8	--	8	--	
	180	8	--	5	--	9	3	9	--	
	160	9	--	7	--	9	4	9	5	
	140	9	--	9	5	9	6	9	7	
	120	9	4	9	6	9	7	9	8	
	100	9	5	9	7	9	8	9	9	
	80	9	6	9	9	9	9	9	9	
	60	9	8	9	9	9	9	9	9	
	40	9	9	9	9	9	9	9	9	
72	200	6	--	4	--	6	--	6	--	
	180	7	--	4	--	8	--	8	--	
	160	9	--	6	--	9	3	9	--	
	140	9	--	8	4	9	4	9	5	
	120	9	--	9	5	9	6	9	7	
	100	9	4	9	7	9	8	9	9	
	80	9	5	9	8	9	9	9	9	
	60	9	7	9	9	9	9	9	9	
	40	9	9	9	9	9	9	9	9	
84	170	6	--	4	--	6	--	7	--	
	160	6	--	4	--	7	--	7	--	
	140	8	--	5	--	9	3	9	--	
	120	9	--	8	4	9	4	9	5	
	100	9	4	9	6	9	6	9	7	
	80	9	5	9	7	9	8	9	9	
	60	9	6	9	9	9	9	9	9	
	40	9	9	9	9	9	9	9	9	
	90	160	6	--	4	--	6	--	6	--
140		7	--	5	--	8	3	8	--	
120		9	--	6	--	9	4	9	--	
100		9	--	9	5	9	6	9	7	
80		9	4	9	7	9	8	9	9	
60		9	6	9	9	9	9	9	9	
40		9	9	9	9	9	9	9	9	
96		150	6	--	4	--	6	--	6	--
		140	6	--	4	--	7	--	7	--
	120	9	--	6	--	9	3	9	--	
	100	9	--	9	4	9	5	9	6	
	80	9	4	9	6	9	7	9	8	
	60	9	5	9	8	9	9	9	9	
	40	9	8	9	9	9	9	9	9	
	102	140	6	--	4	--	6	--	7	--
		120	8	--	5	--	9	3	9	--
100		9	--	7	4	9	4	9	5	
80		9	4	9	6	9	7	9	8	
60		9	5	9	8	9	9	9	9	
40		9	8	9	9	9	9	9	9	
108		130	6	--	4	--	7	--	7	--
		120	7	--	4	--	8	--	8	--
		100	9	--	6	--	9	4	9	--
	80	9	--	9	5	9	6	9	7	
	60	9	5	9	7	9	8	9	9	
	40	9	7	9	9	9	9	9	9	
	30	9	9	9	9	9	9	9	9	
	114	110	7	--	5	--	8	3	8	--
		100	9	--	6	--	9	3	9	--
80		9	--	9	5	9	6	9	7	
60		9	4	9	7	9	8	9	9	
40		9	7	9	9	9	8	9	9	
30		9	9	9	9	9	9	9	9	
120		100	8	--	5	--	9	3	9	--
		80	9	--	9	4	9	5	9	6
		60	9	4	9	7	9	8	9	9
	40	9	7	9	9	9	9	9	9	
	30	9	9	9	9	9	9	9	9	
	132	90	8	--	5	--	9	3	9	--
		80	9	--	7	--	9	4	9	--
		60	9	4	9	6	9	7	9	8
		40	9	6	9	9	9	9	9	9
30		9	8	9	9	9	9	9	9	
144		80	9	--	6	--	9	3	9	--
		60	9	--	9	5	9	6	9	7
		40	9	5	9	8	9	9	9	9
		30	9	7	9	9	9	8	9	9
	55	9	4	9	6	9	7	9	8	
	150	40	9	5	9	8	9	9	9	9
		30	9	7	9	9	9	8	9	9

ANCHORAGE SPACING TABLES - MOUNTS TYPE D, E, E1 AND F

BLADE SPAN	PD	MOUNT TYPE D				
		ANCHOR TYPES				
		A	B	C	D	E
65	200	6	5	--	5	9
	180	7	6	4	6	9
	160	9	7	5	8	9
	140	9	9	6	9	9
	120	9	9	7	9	9
	100	9	9	9	9	9
	80	9	9	9	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
72	200	5	4	--	4	8
	180	6	5	4	5	9
	160	7	6	4	6	9
	140	9	8	5	9	9
	120	9	9	6	9	9
	100	9	9	8	9	9
	80	9	9	9	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
84	170	5	4	--	4	8
	160	6	5	--	4	9
	140	7	6	4	6	9
	120	9	8	5	9	9
	100	9	9	7	9	9
	80	9	9	8	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
90	160	5	4	--	4	8
	140	6	5	4	5	9
	120	8	7	5	7	9
	100	9	9	6	9	9
	80	9	9	8	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
96	150	5	4	--	4	8
	140	6	5	--	4	9
	120	7	6	4	6	9
	100	9	9	5	9	9
	80	9	9	7	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
102	140	5	4	--	4	9
	120	7	5	4	5	9
	100	9	8	5	9	9
	80	9	9	7	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	5	9	9	9	9	9
108	130	5	4	--	4	9
	120	6	5	4	5	9
	100	8	7	5	7	9
	80	9	9	6	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	5	9	9	9	9	9
114	110	6	5	4	5	9
	100	7	6	4	6	9
	80	9	9	6	9	9
	60	9	9	8	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	5	9	9	9	9	9
	0	9	9	9	9	9
120	100	7	6	4	6	9
	80	9	9	5	9	9
	60	9	9	8	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	5	9	9	9	9	9
	0	9	9	9	9	9
	-10	9	9	9	9	9
132	90	7	6	4	6	9
	80	8	7	5	8	9
	60	9	9	7	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	5	9	9	9	9	9
	0	9	9	9	9	9
	-10	9	9	9	9	9
144	80	9	9	6	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	5	9	9	9	9	9
	0	9	9	9	9	9
	-10	9	9	9	9	9
	-20	9	9	9	9	9
	-30	9	9	9	9	9
150	55	9	9	7	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	5	9	9	9	9	9
	0	9	9	9	9	9
	-10	9	9	9	9	9
	-20	9	9	9	9	9
	-30	9	9	9	9	9

BLADE SPAN	PD	MOUNT TYPE E				
		ANCHOR TYPES				
		A	B	C	D	E
65	200	6	5	--	4	9
	180	7	6	4	5	9
	160	8	7	5	7	9
	140	9	9	6	9	9
	120	9	9	7	9	9
	100	9	9	9	9	9
	80	9	9	9	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
72	200	5	4	--	--	8
	180	6	5	--	4	9
	160	7	6	4	6	9
	140	9	7	5	8	9
	120	9	9	6	9	9
	100	9	9	8	9	9
	80	9	9	9	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
84	170	5	4	--	4	8
	160	5	4	--	4	9
	140	7	6	4	5	9
	120	9	7	5	8	9
	100	9	9	7	9	9
	80	9	9	8	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
90	160	5	4	--	--	8
	140	6	5	4	5	9
	120	8	7	4	7	9
	100	9	9	6	9	9
	80	9	9	8	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
96	150	5	4	--	--	8
	140	5	4	--	4	9
	120	7	6	4	6	9
	100	9	8	5	9	9
	80	9	9	7	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
102	140	5	4	--	4	8
	120	6	5	4	5	9
	100	9	7	5	8	9
	80	9	9	7	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
108	130	5	4	--	4	8
	120	6	5	--	4	9
	100	8	7	4	7	9
	80	9	9	6	9	9
	60	9	9	9	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
114	110	6	5	4	5	9
	100	7	6	4	6	9
	80	9	9	6	9	9
	60	9	9	8	9	9
	40	9	9	8	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	0	9	9	9	9	9
120	100	6	5	4	5	9
	80	9	8	5	9	9
	60	9	9	8	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	0	9	9	9	9	9
	-10	9	9	9	9	9
132	80	8	7	5	7	9
	60	9	9	7	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	0	9	9	9	9	9
	-10	9	9	9	9	9
	-20	9	9	9	9	9
144	80	7	6	4	6	9
	60	9	9	6	9	9
	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9
	10	9	9	9	9	9
	0	9	9	9	9	9
	-10	9	9	9	9	9
	-20	9	9	9	9	9
150	40	9	9	9	9	9
	30	9	9	9	9	9
	20	9	9	9	9	9

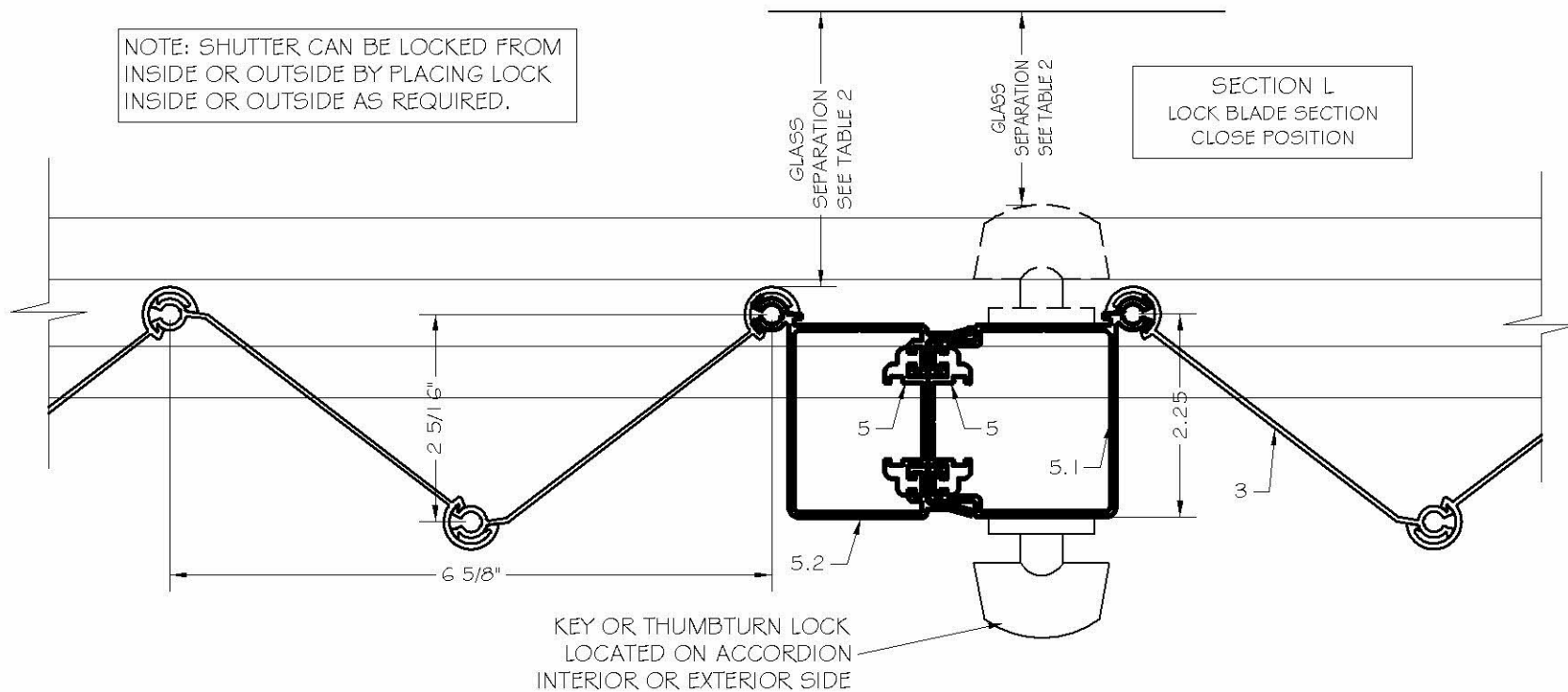
ANCHORAGE SPACING TABLES - MOUNTS TYPE H, H1, H2 AND H3

BLADE SPAN	PD	MOUNT TYPE H							
		MAXIMUM ANCHOR SPACING - ANCHOR TYPES							
		A	A1	B	B1	C	D	E	E1
65	200	9	--	6	--	9	3	9	--
	180	9	--	7	--	9	4	9	5
	160	9	--	9	4	9	5	9	6
	140	9	--	9	5	9	6	9	7
	120	9	4	9	6	9	7	9	8
	100	9	5	9	7	9	8	9	9
	80	9	6	9	9	9	9	9	9
	60	9	8	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
72	180	9	--	6	--	9	3	9	--
	160	9	--	7	4	9	4	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
	100	9	4	9	7	9	8	9	9
	80	9	5	9	8	9	9	9	9
	60	9	7	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
84	160	9	--	7	--	9	4	9	5
	140	9	--	9	5	9	5	9	6
	120	9	--	9	5	9	6	9	7
	100	9	4	9	7	9	8	9	9
	80	9	5	9	8	9	9	9	9
	60	9	6	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
	160	9	--	7	--	9	4	9	5
90	140	9	--	6	--	9	4	9	--
	120	9	--	8	4	9	5	9	5
	100	9	--	9	5	9	6	9	7
	80	9	4	9	7	9	8	9	9
	60	9	6	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
	160	9	--	7	4	9	4	9	5
	140	9	--	9	5	9	6	9	7
96	120	9	--	9	5	9	6	9	8
	100	9	4	9	6	9	7	9	9
	80	9	5	9	8	9	9	9	9
	60	9	6	9	9	9	9	9	9
	40	9	8	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
	160	9	--	7	4	9	4	9	5
	140	9	--	9	5	9	6	9	7
	120	9	--	9	5	9	6	9	8
102	100	9	--	9	4	9	5	9	6
	80	9	4	9	6	9	7	9	8
	60	9	5	9	8	9	9	9	9
	40	9	8	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
	160	9	--	7	4	9	4	9	5
	140	9	--	9	5	9	6	9	7
	120	9	--	9	5	9	6	9	8
	100	9	--	9	4	9	5	9	6
108	80	9	--	9	5	9	6	9	7
	60	9	5	9	7	9	8	9	9
	40	9	7	9	9	9	9	9	9
	30	9	9	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
	160	9	--	7	4	9	4	9	5
	140	9	--	9	5	9	6	9	7
	120	9	--	9	5	9	6	9	8
	100	9	--	9	4	9	5	9	6
114	80	9	--	9	5	9	6	9	7
	60	9	4	9	7	9	8	9	9
	40	9	7	9	9	9	9	9	9
	30	9	9	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
	160	9	--	7	4	9	4	9	5
	140	9	--	9	5	9	6	9	7
	120	9	--	9	5	9	6	9	8
	100	9	--	9	4	9	5	9	6
120	80	9	--	9	5	9	6	9	7
	60	9	4	9	7	9	8	9	9
	40	9	7	9	9	9	9	9	9
	30	9	9	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
	160	9	--	7	4	9	4	9	5
	140	9	--	9	5	9	6	9	7
	120	9	--	9	5	9	6	9	8
	100	9	--	9	4	9	5	9	6
132	80	9	--	9	4	9	5	9	6
	60	9	4	9	6	9	7	9	8
	40	9	6	9	9	9	9	9	9
	30	9	8	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
	160	9	--	7	4	9	4	9	5
	140	9	--	9	5	9	6	9	7
	120	9	--	9	5	9	6	9	8
	100	9	--	9	4	9	5	9	6
144	80	9	--	9	5	9	6	9	7
	60	9	4	9	6	9	7	9	8
	40	9	7	9	9	9	9	9	9
	30	9	9	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
	160	9	--	7	4	9	4	9	5
	140	9	--	9	5	9	6	9	7
	120	9	--	9	5	9	6	9	8
	100	9	--	9	4	9	5	9	6
150	80	9	--	9	4	9	5	9	6
	60	9	4	9	6	9	7	9	8
	40	9	5	9	8	9	9	9	9
	30	9	7	9	9	9	9	9	9
	200	8	--	5	--	9	3	9	--
	180	9	--	6	--	9	3	9	--
	160	9	--	7	4	9	4	9	5
	140	9	--	9	5	9	6	9	7
	120	9	--	9	5	9	6	9	8
	100	9	--	9	4	9	5	9	6

BLADE SPAN	PD	MOUNT TYPE H1							
		MAXIMUM ANCHOR SPACING - ANCHOR TYPES							
		A	A1	B	B1	C	D	E	E1
65	200	6	--	4	--	7	--	7	--
	180	7	--	5	--	8	3	8	--
	160	9	--	6	--	9	3	9	--
	140	9	--	8	4	9	5	9	5
	120	9	4	9	6	9	7	9	8
	100	9	5	9	7	9	8	9	9
	80	9	6	9	9	9	9	9	9
	60	9	8	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	5	--	--	--	6	--	6	--
72	180	6	--	4	--	7	--	7	--
	160	7	--	5	--	8	3	8	--
	140	9	--	6	--	9	4	9	--
	120	9	--	9	4	9	5	9	6
	100	9	4	9	7	9	8	9	9
	80	9	5	9	8	9	9	9	9
	60	9	7	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	5	--	--	--	6	--	6	--
	180	6	--	4	--	6	--	6	--
84	160	7	--	5	--	8	3	8	--
	140	9	--	6	--	9	4	9	--
	120	9	--	6	--	9	4	9	--
	100	9	--	9	5	9	6	9	6
	80	9	5	9	7	9	8	9	9
	60	9	6	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	5	--	--	--	6	--	6	--
	180	6	--	4	--	6	--	6	--
	160	7	--	5	--	8	3	8	--
90	140	6	--	4	--	7	--	7	--
	120	8	--	5	--	9	3	9	--
	100	9	--	8	4	9	5	9	5
	80	9	4	9	7	9	8	9	9
	60	9	6	9	9	9	9	9	9
	40	9	9	9	9	9	9	9	9
	200	5	--	--	--	6	--	6	--
	180	6	--	4	--	6	--	6	--
	160	7	--	5	--	8	3	8	--
	140	6	--	4	--	6	--	6	--
96	120	7	--	5	--	8	3	8	--
	100	9	--	7	--	9	4	9	5
	80	9	4	9	6	9	7	9	8
	60	9	5	9	8	9	9	9	9
	40	9	8	9	9	9	9	9	9
	200	5	--	--	--	6	--	6	--
	180	6	--	4	--	6	--	6	--
	160	7	--	5	--	8	3	8	--
	140	6	--	4	--	6	--	6	--
	120	7	--	5	--	8	3	8	--
102	100	9	--	6	--	9	3	9	--
	80	9	--	9	5	9	6	9	7
	60	9	5	9	8	9	9	9	9
	40	9	8	9	9	9	9	9	

TYPICAL HORIZONTAL SECTIONS
LOCK SECTIONS

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



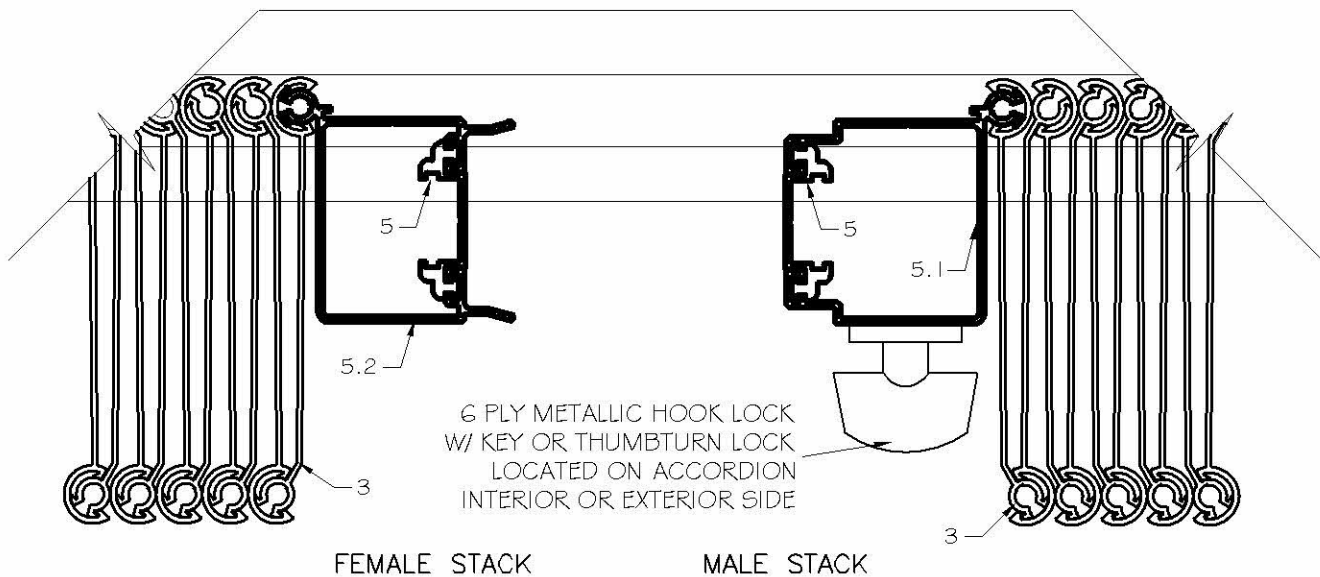
SECTION L
LOCK BLADE SECTION
CLOSE POSITION

GLASS
SEPARATION
SEE TABLE 2

GLASS
SEPARATION
SEE TABLE 2

KEY OR THUMBTURN LOCK
LOCATED ON ACCORDION
INTERIOR OR EXTERIOR SIDE

SECTION L
LOCK BLADE SECTION
OPEN POSITION

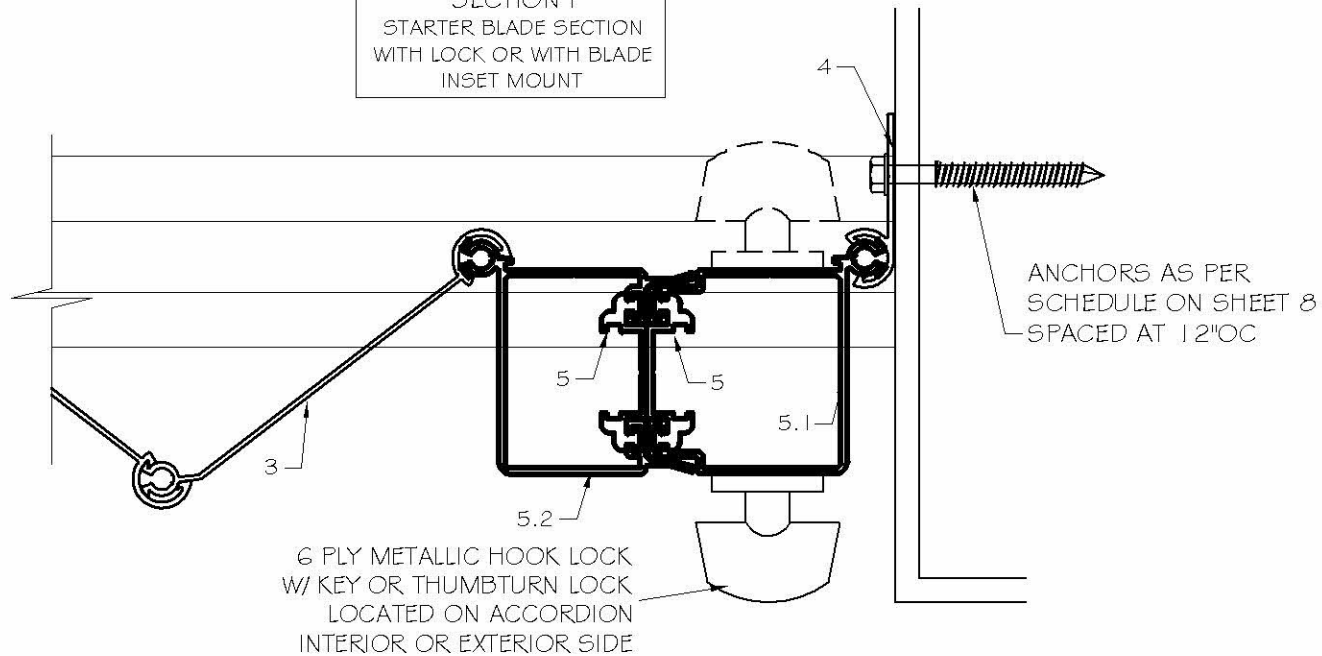


FEMALE STACK

MALE STACK

6 PLY METALLIC HOOK LOCK
W/ KEY OR THUMBTURN LOCK
LOCATED ON ACCORDION
INTERIOR OR EXTERIOR SIDE

SECTION I
STARTER BLADE SECTION
WITH LOCK OR WITH BLADE
INSET MOUNT



6 PLY METALLIC HOOK LOCK
W/ KEY OR THUMBTURN LOCK
LOCATED ON ACCORDION
INTERIOR OR EXTERIOR SIDE

ANCHORS AS PER
SCHEDULE ON SHEET 8
SPACED AT 12"OC



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ACCORDION SHUTTER
LARGE MISSILE IMPACT RESISTANT

ASSOCIATION OF MANUFACTURERS:
N.A.S.A
NATIONAL APPROVED SHUTTER ASSOCIATION L.L.C.
MIRAMAR, FL 33027

SCALE:
NA

DATE:
08/09/2021

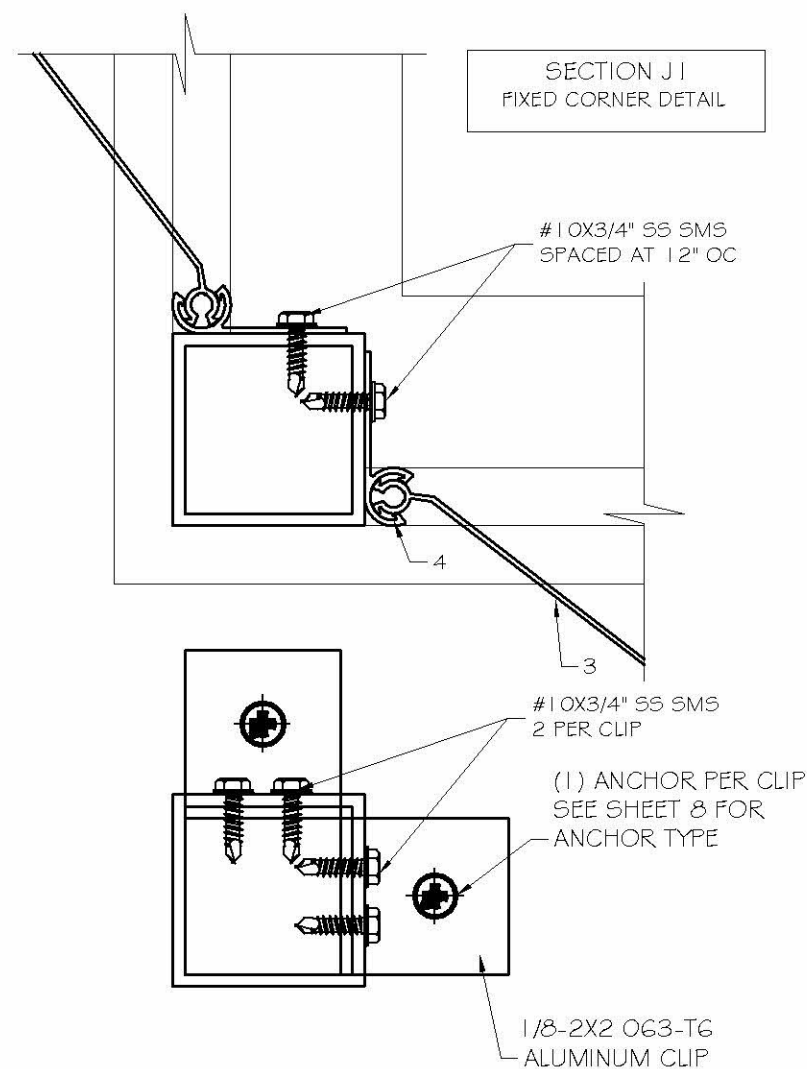
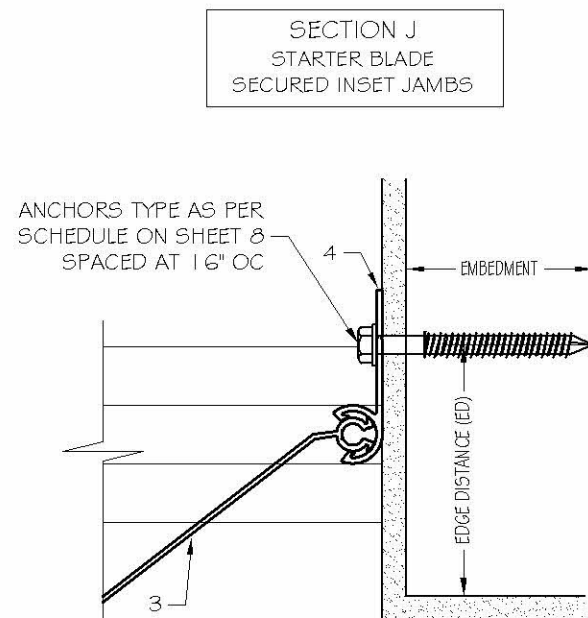
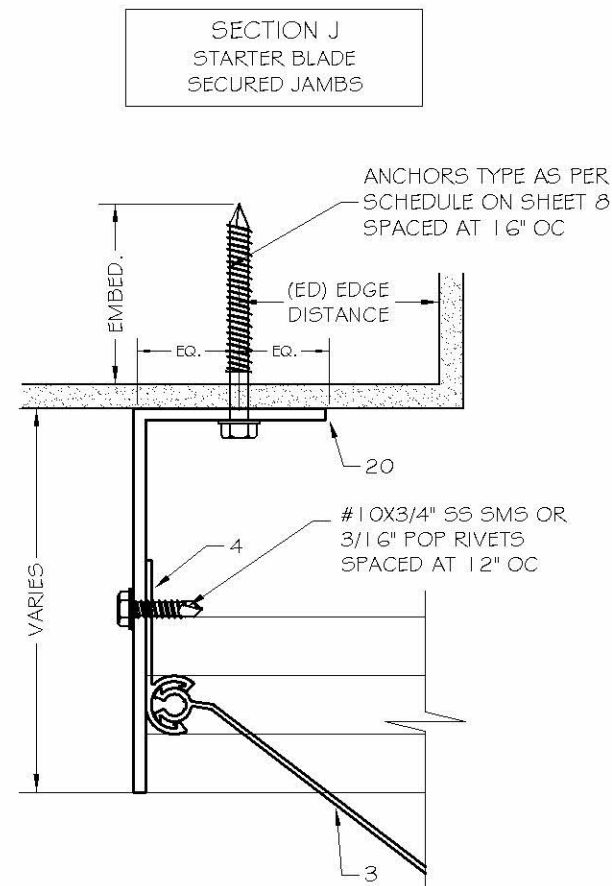
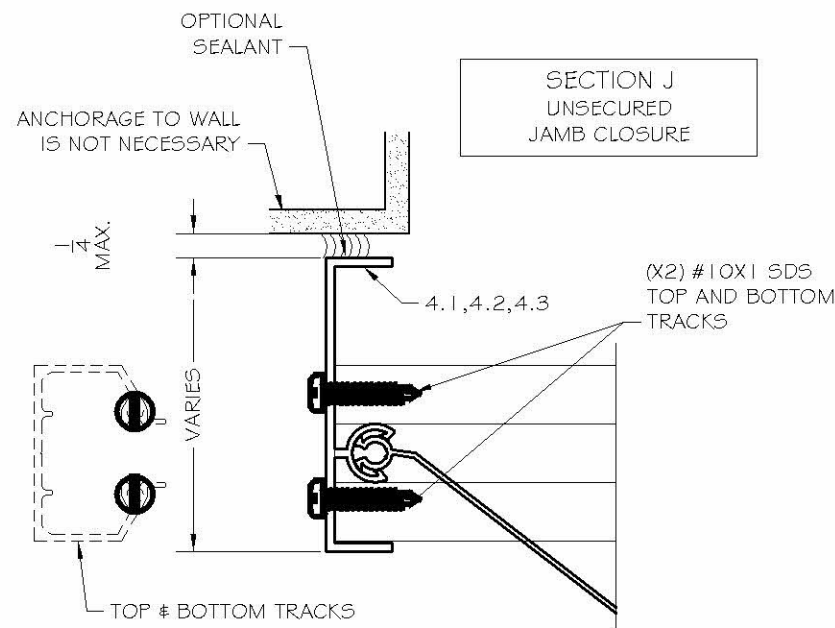
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SHEET
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TYPICAL HORIZONTAL
JAMB J AND CORNER SECTION J I



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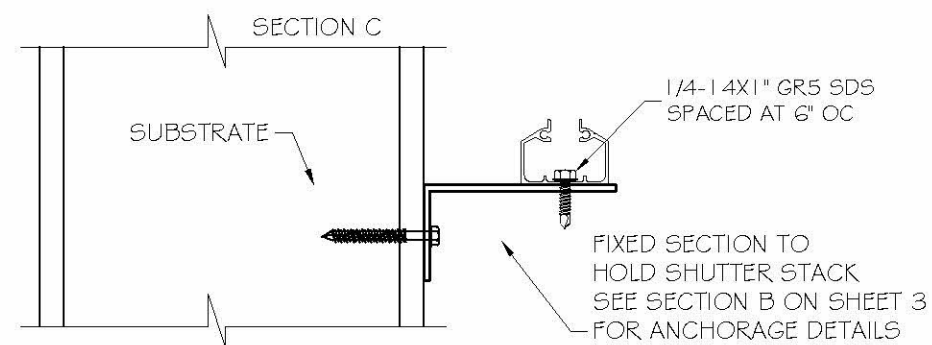
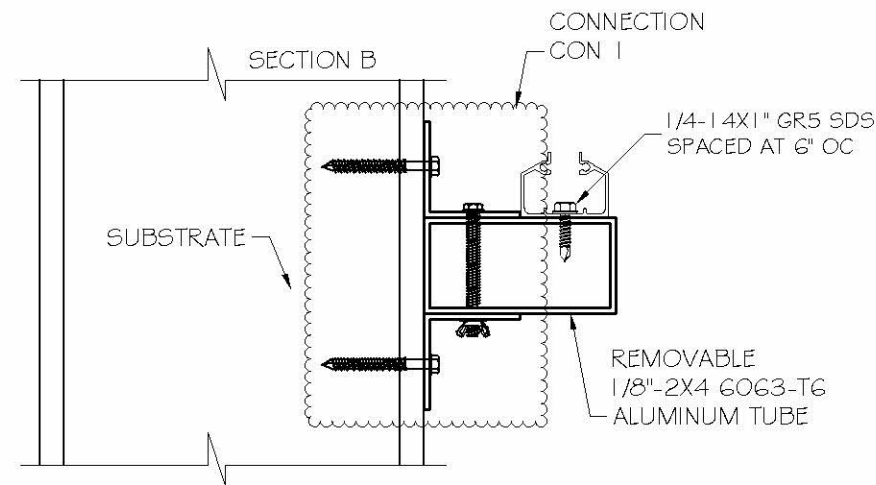
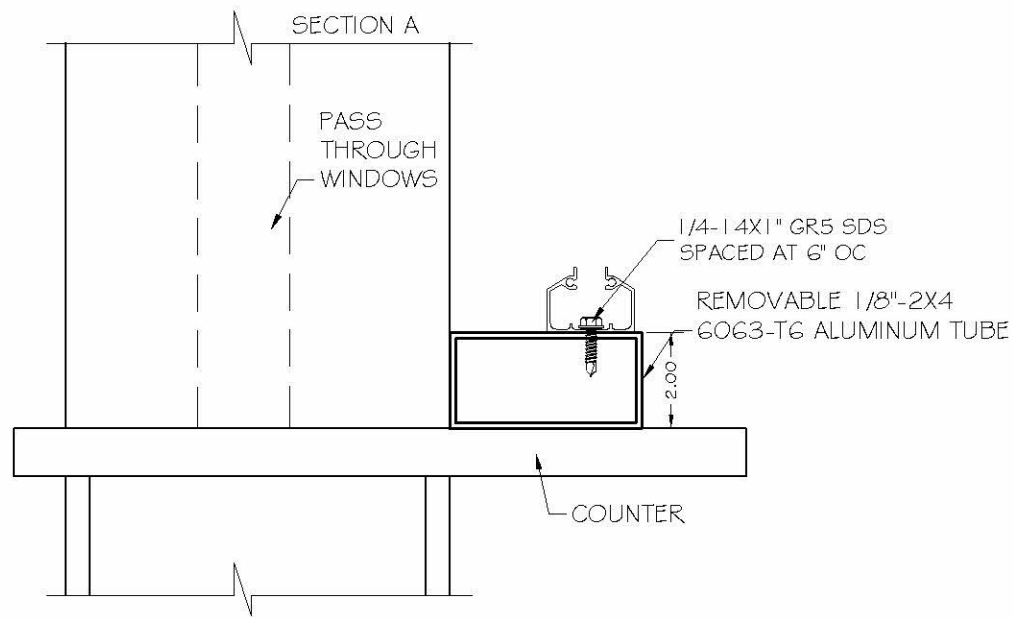
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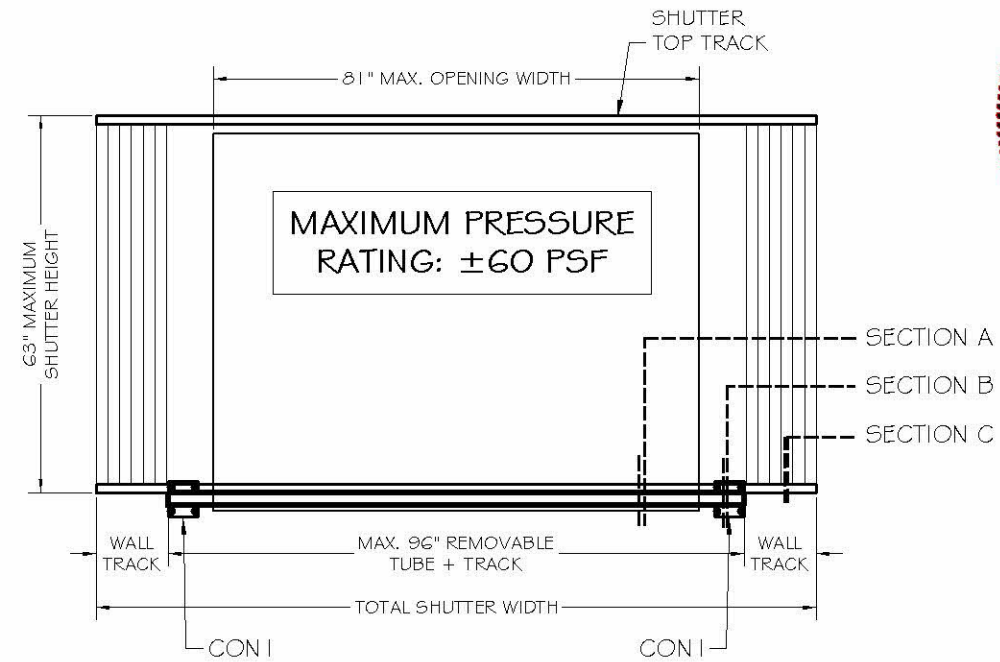
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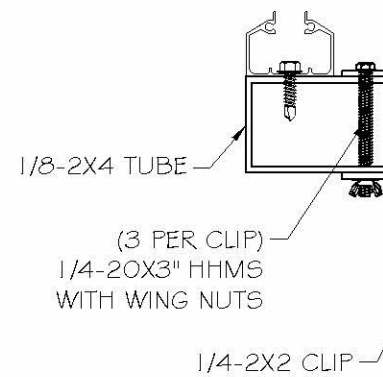
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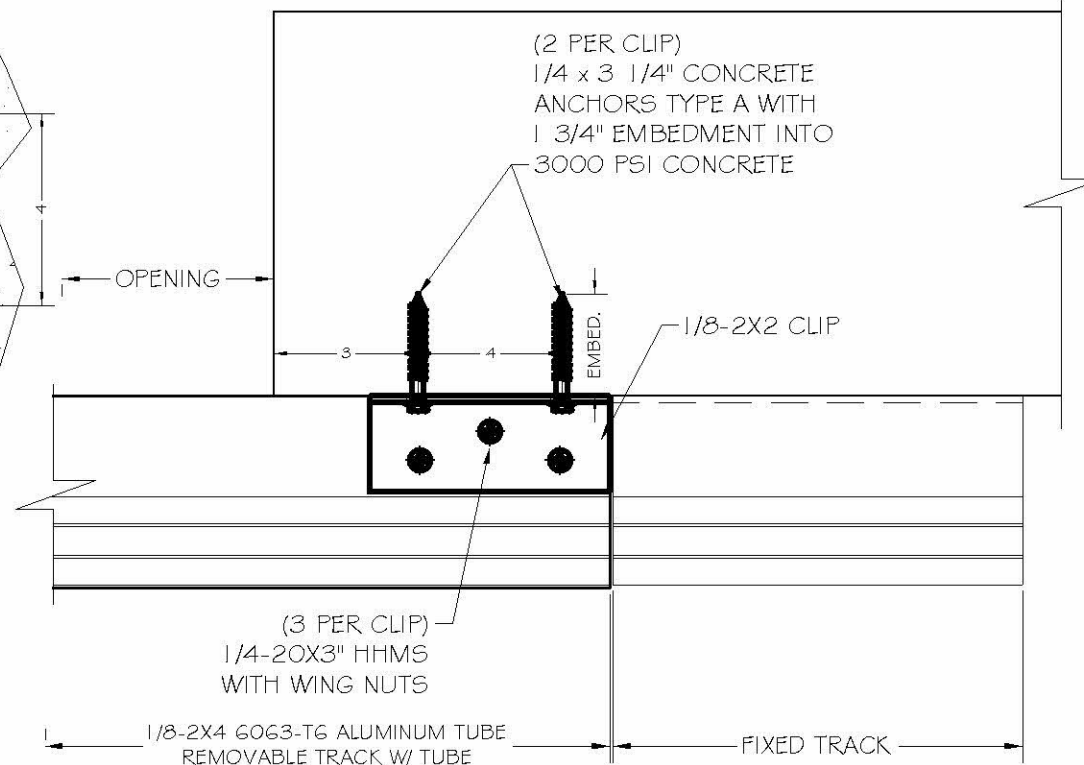
SECTION CT
REMOVABLE SILL
OVER COUNTER TOP



(2 PER CLIP)
1/4 x 3 1/4" CONCRETE
ANCHORS TYPE A WITH
1 3/4" EMBEDMENT INTO
3000 PSI CONCRETE



TUBE ANCHORAGE
CON 1



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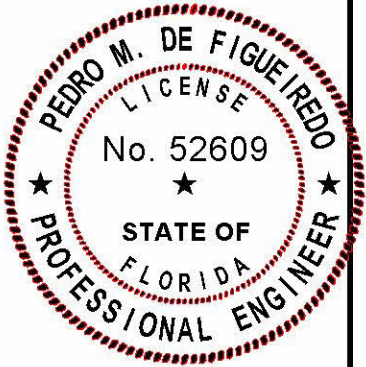
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INSTALLATION DETAIL ON EXISTING WOOD WALL / CEILING TRUSSES
DETAILS SHOWS CONNECTION OF 2X6 WOOD, 1X4 ALUMINUM TUBE AND
1/8-2X5 ALUMINUM ANGLE TO PROVIDE A CONTINUOUS SURFACE FOR
SHUTTER INSTALLATION. USE SHEETS 9 AND 11 TO SELECT THE TYPE OF WALL
MOUNT DESIRED OR SHEET 10 FOR THE CEILING MOUNT.



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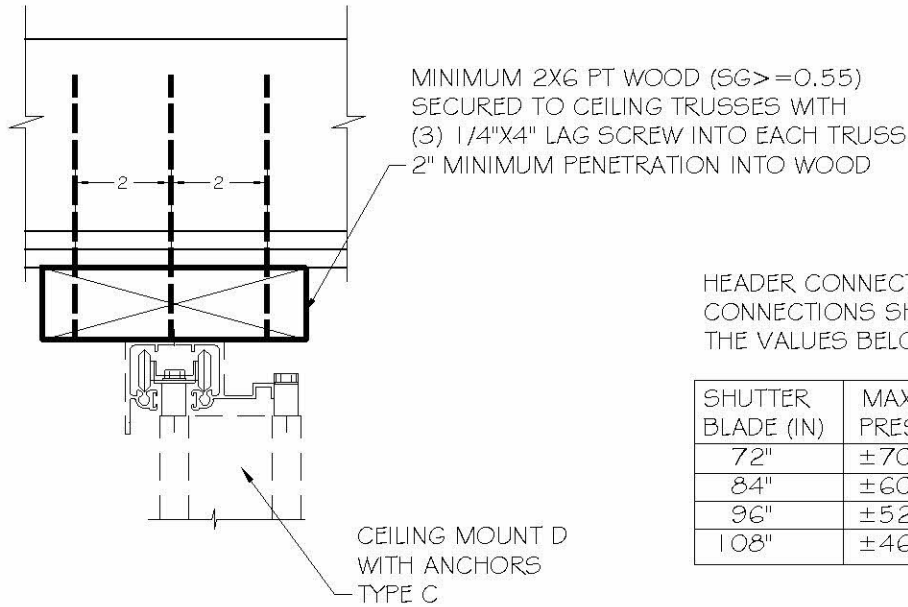
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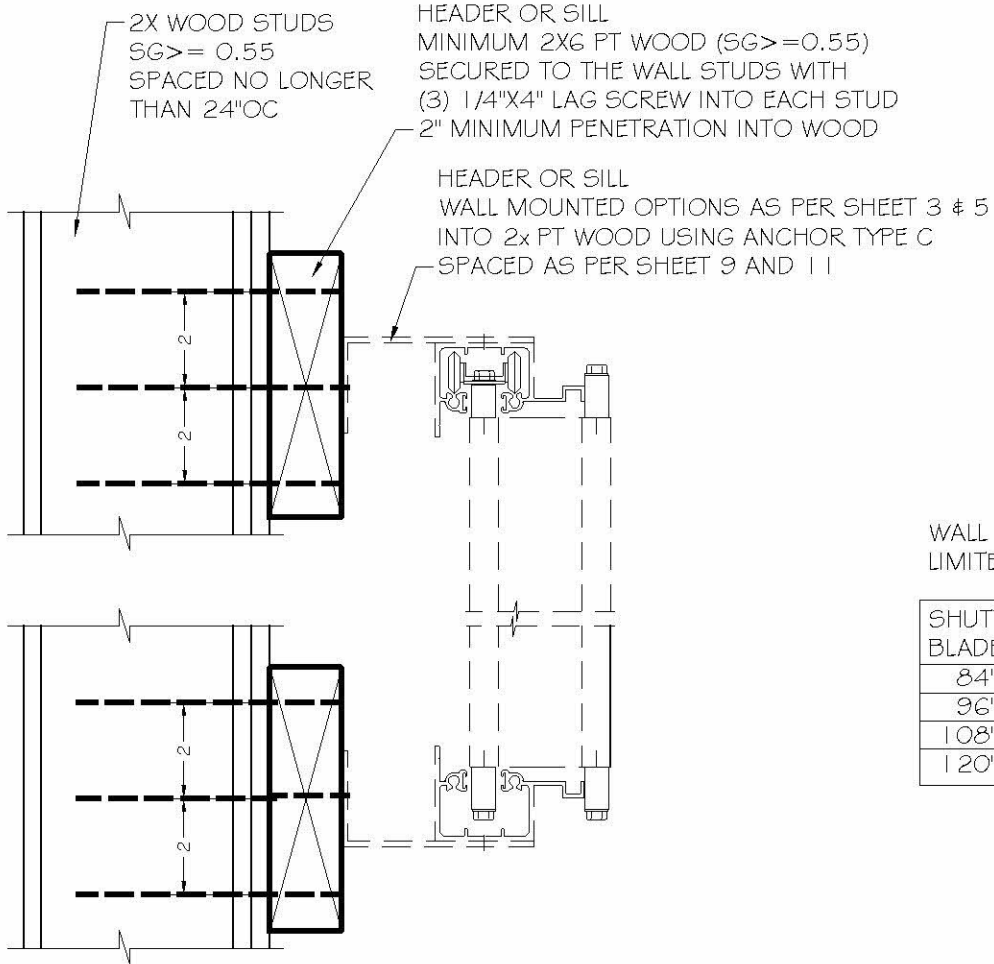
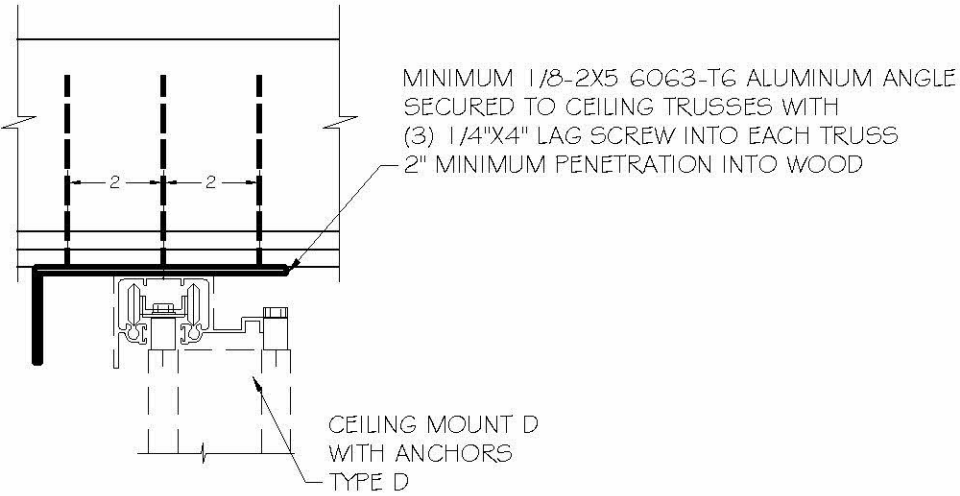
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HEADER CONNECTION TO WOOD TRUSSES
CONNECTIONS SHALL BE LIMITED TO
THE VALUES BELOW:

SHUTTER BLADE (IN)	MAXIMUM PRESSURE
72"	±70 PSF
84"	±60 PSF
96"	±52 PSF
108"	±46 PSF



WALL CONNECTIONS SHALL BE
LIMITED TO THE VALUES BELOW:

SHUTTER BLADE (IN)	MAXIMUM PRESSURE
84"	±60 PSF
96"	±52 PSF
108"	±46 PSF
120"	±42 PSF

