

CODE AND STANDARD COMPLIANCE:
FLORIDA BUILDING CODE 2026 - 9th EDITION
(HVHZ & non HVHZ)
TAS 201, 202, 203 (LARGE & SMALL MISSILE)

GENERAL NOTES:
(FLORIDA BUILDING CODE 2026 - 9th EDITION HVHZ & non HVHZ)

- 1- DEFINITION: THIS PRODUCT IS A ROLL-UP WIND ABATEMENT SYSTEM; DESIGNED, CONSTRUCTED AND ERECTED TO EASILY ENCLOSE AN AREA, PROVIDING PROTECTION FROM HURRICANE FORCE WINDS AND WIND BORNE DEBRIS WITHIN THE ALLOWABLE DESIGNED PRESSURES AND LIMITATIONS STATED IN THIS APPROVAL.
- 2- POSTING: A PERMANENT LABEL SHALL BE PROVIDED AS PER FBC. IT SHALL BE LOCATED ON THE BOTTOM OF THE HOOD FACING THE EXTERIOR OR OUTSIDE OR THE BOTTOM SLAT FACING THE EXTERIOR OR OUTSIDE AND A MINIMUM OF ONE LABEL PER OPENING. INFORMATION TO STATE THE FOLLOWING:
- "ADVANCED HURRICANE TECHNOLOGIES
NAPLES - FLORIDA
LARGE & SMALL MISSILE IMPACT RESISTANT"
- 3- LIMITATION: GLAZING SEPARATION (GS) AS PER TABLE 2 AND GLASS SEPARATION NOTES.
- 4- LOADS: DESIGNED LOAD CALCULATED BASED ON THE ASCE 7-22 AND PROVIDED BY A PROFESSIONAL ARCHITECT OR ENGINEER FOR EACH SPECIFIC PROJECT. THE CALCULATED DESIGNED PRESSURE MUST NOT EXCEED THE ALLOWABLE PRESSURES FOR EACH COMPONENT TO BE USED. THE DESIGN PRESSURES ARE PERMITTED TO BE MULTIPLIED BY 0.6
- 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 PRODUCT 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.

DESIGN SCHEDULE	
COMPONENT	SHEET
SLAT ALLOWABLE PRESSURE - TABLE 1	I
GLASS SEPARATION - TABLE 2	I
TRACK REACTION - TABLE 3	I
TRACK ANCHORAGE	G THROUGH 10
MULLION DESIGN	11, 12 & 13

- NOTES:
- 1- ALLOWABLE DESIGNED PRESSURE ARE FUNCTION OF THE LOWEST ALLOWABLE DESIGNED LOAD FOR EACH COMPONENT (SLATS, ANCHORAGE, STORM BARS & MULLIONS)
- 2- DESIGNED PRESSURES MUST NOT EXCEED 180 PSF.
- 3- FINISHED WIDTH (FW) MUST NOT EXCEED 294-1/2".

TABLE 1
ALLOWABLE DESIGNED PRESSURE

FW MAXIMUM (IN)	TT MAXIMUM (IN)	DESIGN RATING (PSF)
294 1/2	288	30
282 1/2	276	36
270 1/2	264	43
258 1/2	252	50
246 1/2	240	58
234 1/2	228	66
222 1/2	216	74
210 1/2	204	82
198 1/2	192	91
186 1/2	180	100
174 1/2	168	109
162 1/2	156	118
150 1/2	144	128
138 1/2	132	138
126 1/2	120	148
114 1/2	108	158
102 1/2	96	169
90 1/2	84	180

LINEAR INTERPOLATION BETWEEN ABOVE TABLE VALUES ARE ACCEPTABLE

TABLE 3 - TRACK REACTIONS (LB/FT)

PD (PSF)	TT - TRACK TO TRACK DIMENSION IN INCHES																					
	84		96		120		144		168		180		192		216		240		264		288	
	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy	Vx	Vy
30	-	105	-	120	-	150	-	180	-	210	-	225	-	240	445	270	890	300	1202	330	1397	360
35	-	123	-	140	-	175	-	210	-	245	-	263	220	280	706	315	1109	350	1395	385	1576	420
40	-	140	-	160	-	200	-	240	-	280	142	300	482	320	936	360	1318	400	1594	440	1774	480
45	-	158	-	180	-	225	-	270	295	315	372	338	677	360	1100	405	1467	450	1740	495		
50	-	175	-	200	-	250	50	300	618	350	553	375	834	400	1235	450	1592	500				
60	-	210	-	240	-	300	410	360	1103	420	898	450	1150	480	1511	540	1836	600				
70	-	245	-	280	-	350	719	420	1450	490	1216	525	1438	560	1755	630						
80	-	280	-	320	177	400	1003	480	1709	560	1526	600	1713	640	1977	720						
90	-	315	-	360	446	450	1251	540	1912	630	1807	675	1954	720								
100	-	350	-	400	683	500	1485	600	2073	700	2084	750										
110	-	385	-	440	896	550	1693	660	2205	770	2325	825										
120	-	420	174	480	1088	600	1887	720	2316	840	2554	900										
130	-	455	367	520	1271	650	2078	780														
140	67	490	540	560	1439	700																
150	216	525	661	600	1560	750																
160	332	560	755	640																		
180	514	630	926	720																		

Diagram illustrating the track-to-track dimension (TT) in inches, showing the relationship between the track width (Vx) and the track height (Vy).

CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE
FOR MAXIMUM IMPOSED LOADS VY AND Vx

CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE
FOR MAXIMUM IMPOSED LOADS VY AND Vx

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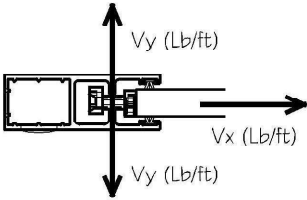


PRODUCT NAME:
WIND ABATEMENT
SYSTEM - LARGE MISSILE
55 MM ROLLING DOOR SYSTEM

MANUFACTURER:
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TECHNOLOGIES
6063 JAMES LANE
NAPLES, FLORIDA 34109
TEL: (239) 260-0020

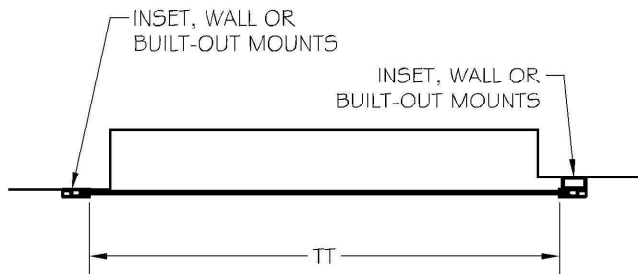
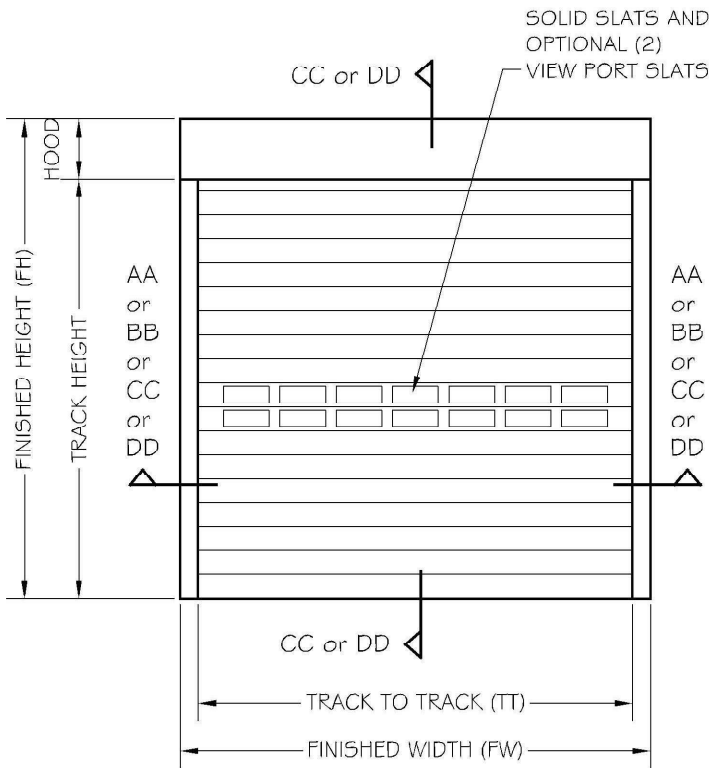


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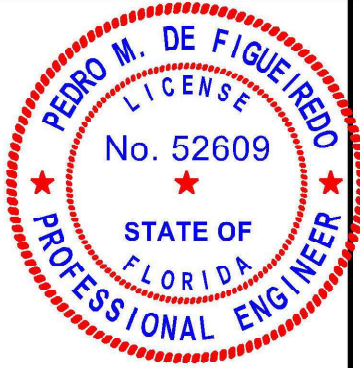
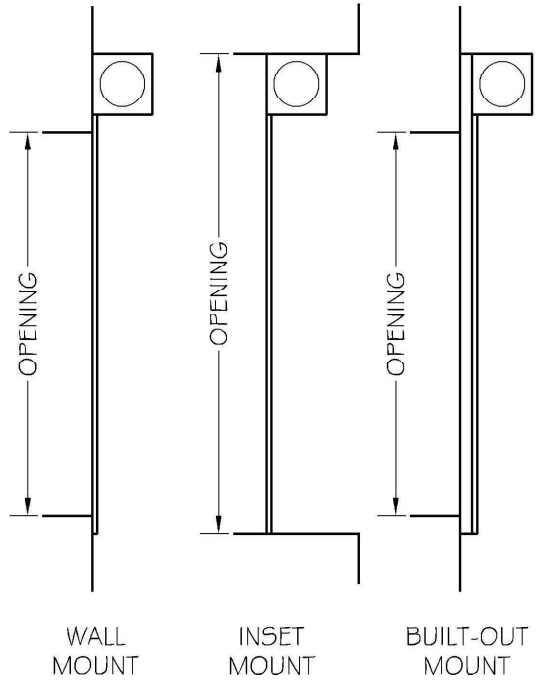
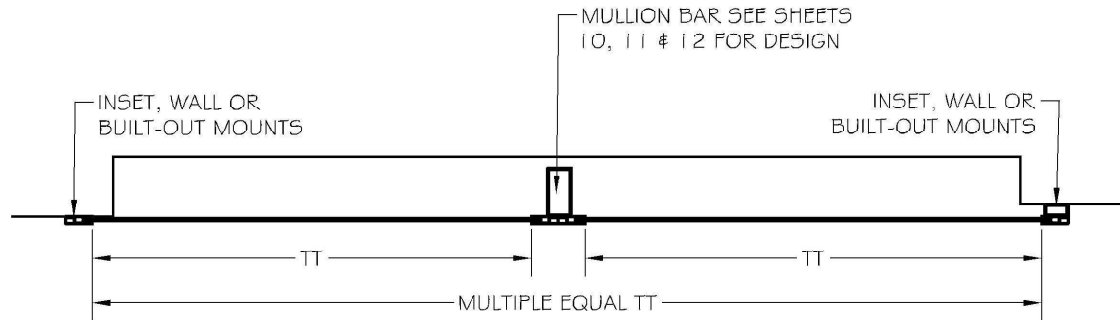
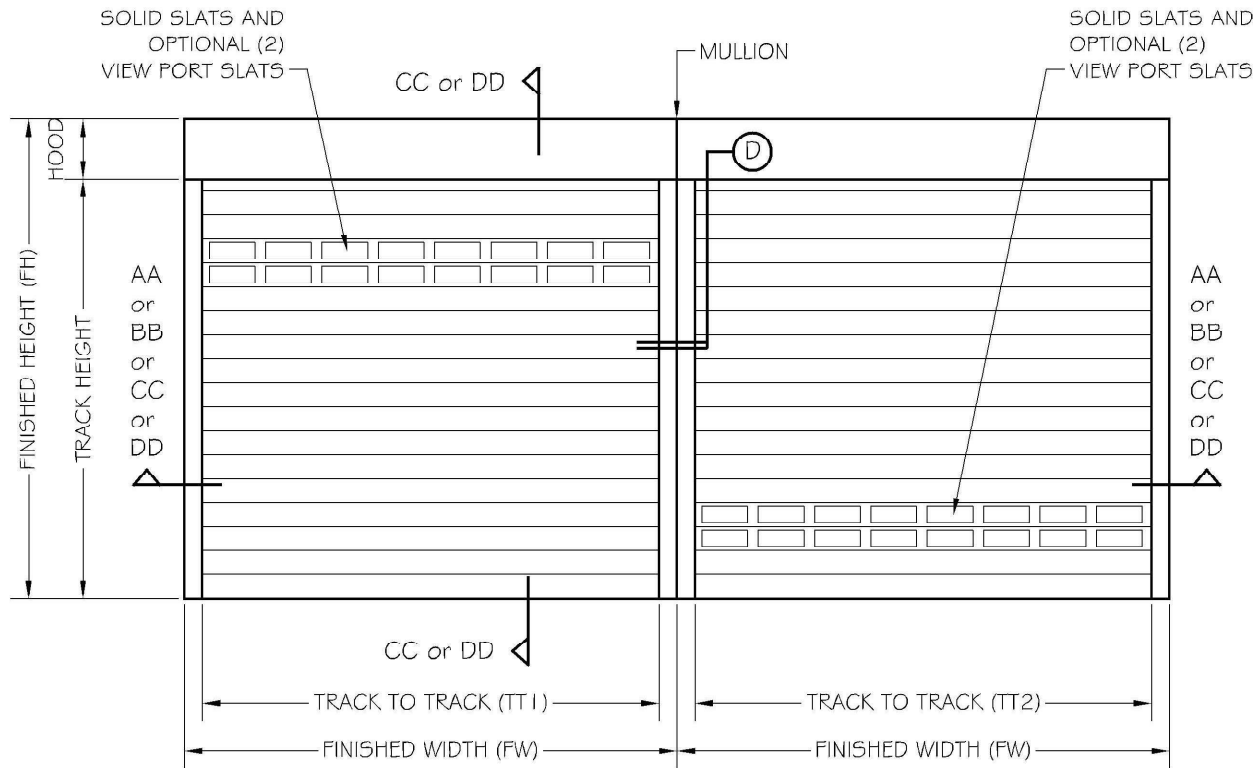


TYPICAL ELEVATIONS

TYPICAL SINGLE UNIT ELEVATION



TYPICAL MULTIPLE UNITS ELEVATION



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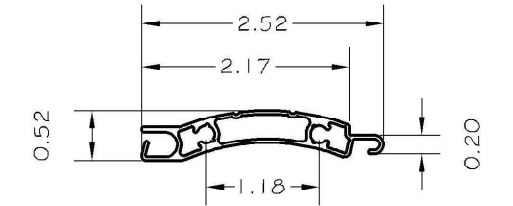
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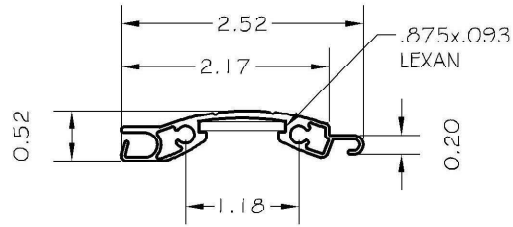


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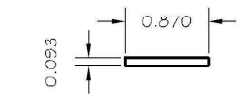
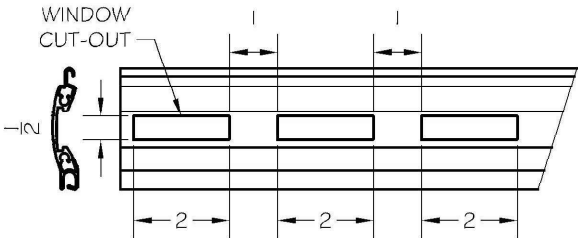
PRODUCT COMPONENTS



A- 55mm SLAT
EXTRUDED ALUMINUM 6060-T6

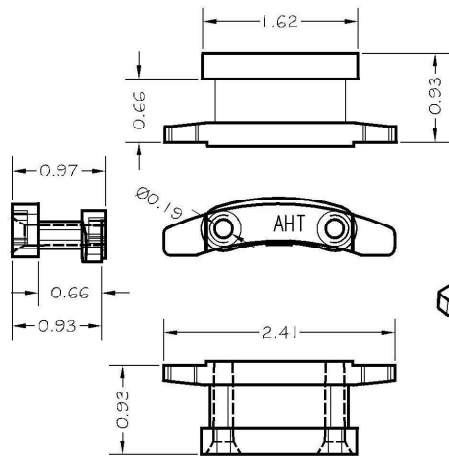


A1- 55mm W/LEXAN INSERT
EXTRUDED ALUMINUM 6060-T6

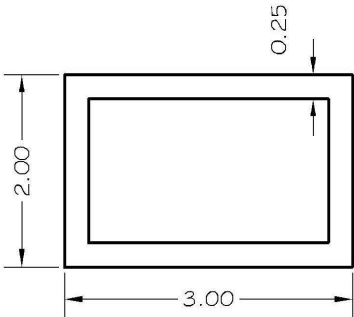
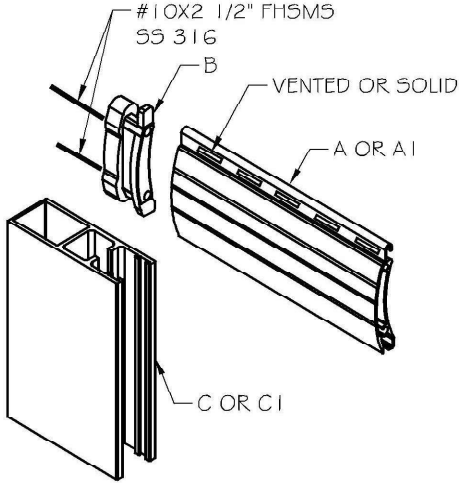


A2- POLYCARBONATE VIEWPORT WINDOW
10" MINIMUM 48" MAXIMUM

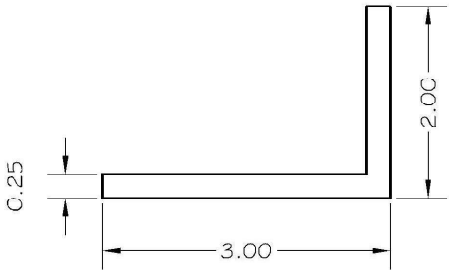
NOTES:		
TENSILE YIELD STRENGTH	ASTM D638	9,500 PSI
FLEXURAL STRENGTH AT YIELD	ASTM D790	13,400 PSI
FLEXURAL MODULUS	ASTM D790	345,000 PSI
NOTCHED IZOD	ASTM D256	17 FT-LB/IN
SMOKE DENSITY	ASTM D2843	64.5% MAX
RATE OF BURNING	ASTM D635	C-1 CLASS
SELF IGNITION	ASTM D1929	980° F
TENSILE STRENGTH AFTER WEATHERING	ASTM D638	8,840 PSI
TENSILE STRENGTH BEFORE WEATHERING	ASTM D638	8,880 PSI
SPECIFIC GRAVITY	ASTM D792	0.043 LB/IN³



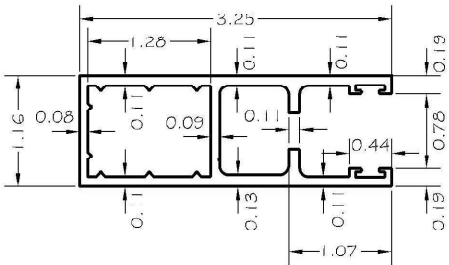
B- SLAT END LOCK
ACETAL



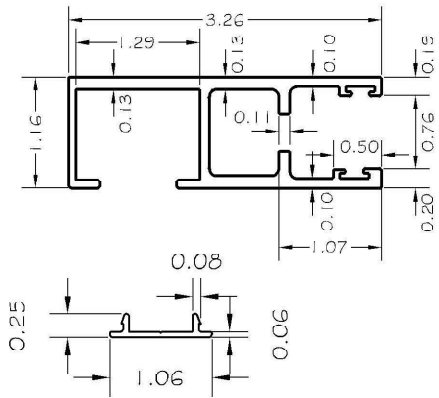
F- TUBE
EXTRUDED ALUMINUM
6063-T6



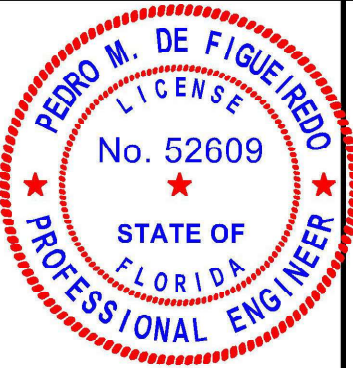
E- INSET SUPPORT ANGLE
EXTRUDED ALUMINUM
6063-T6



C- ROLLING WALL GUIDE RAIL
6063-T6 EXTRUDED ALUMINUM



C1- ROLLING WALL GUIDE RAIL
WITH SNAP COVER
6063-T6 EXTRUDED ALUMINUM



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WIND ABATEMENT
SYSTEM - LARGE MISSILE
55 MM ROLLING DOOR SYSTEM

MANUFACTURER:

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TECHNOLOGIES
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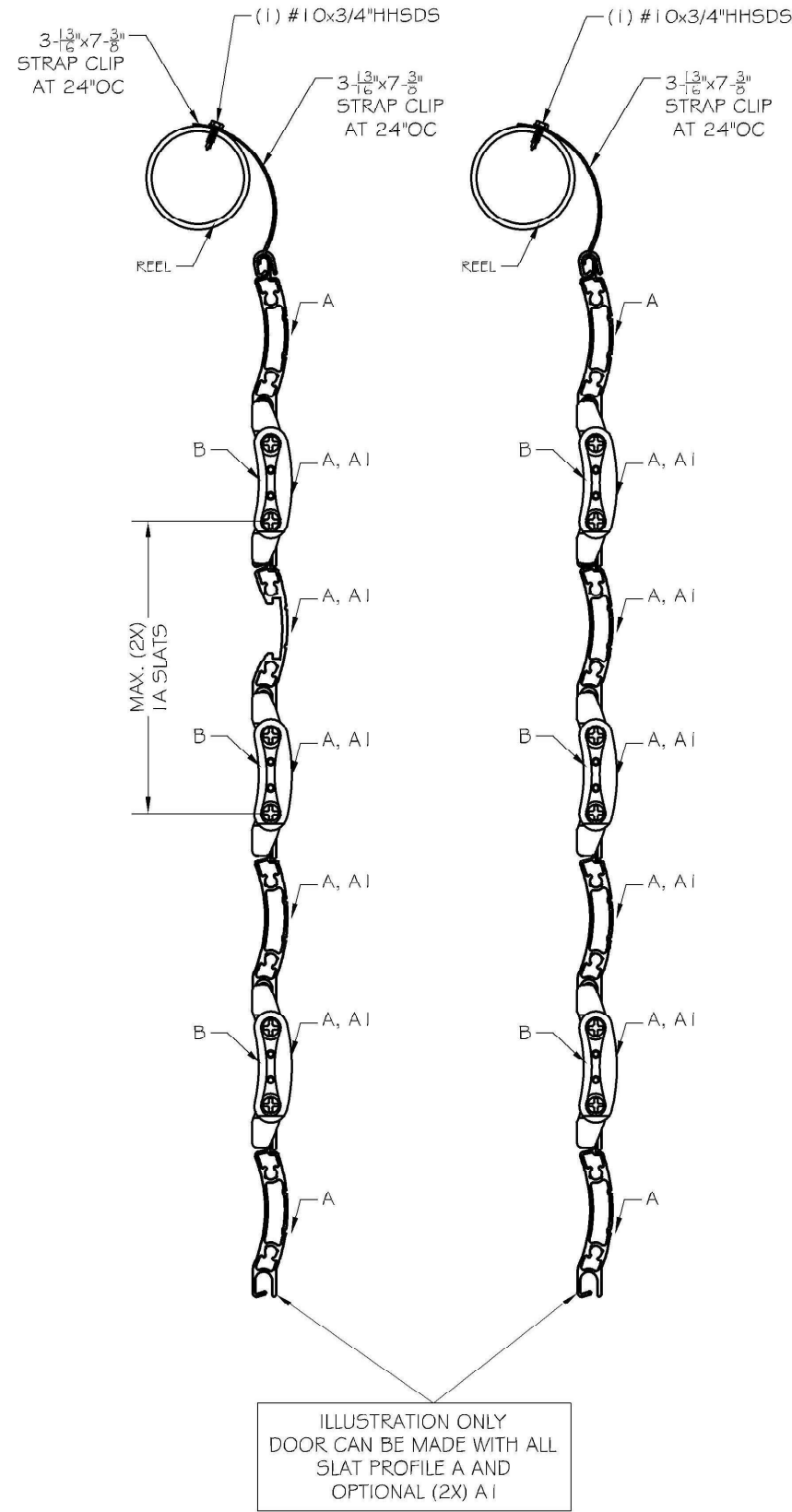
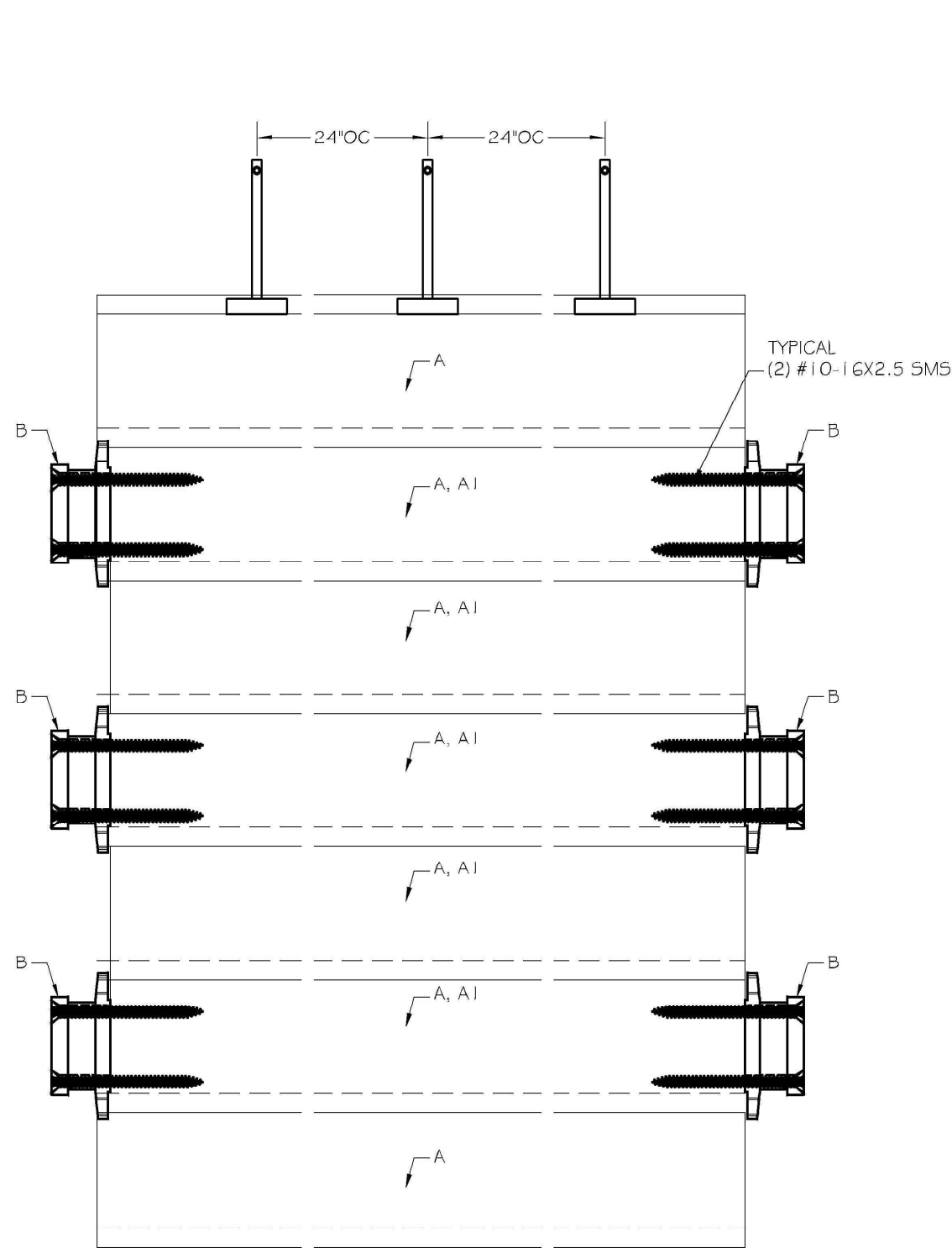
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SLAT END RETENTION LAY-OUT



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55 MM ROLLING DOOR SYSTEM

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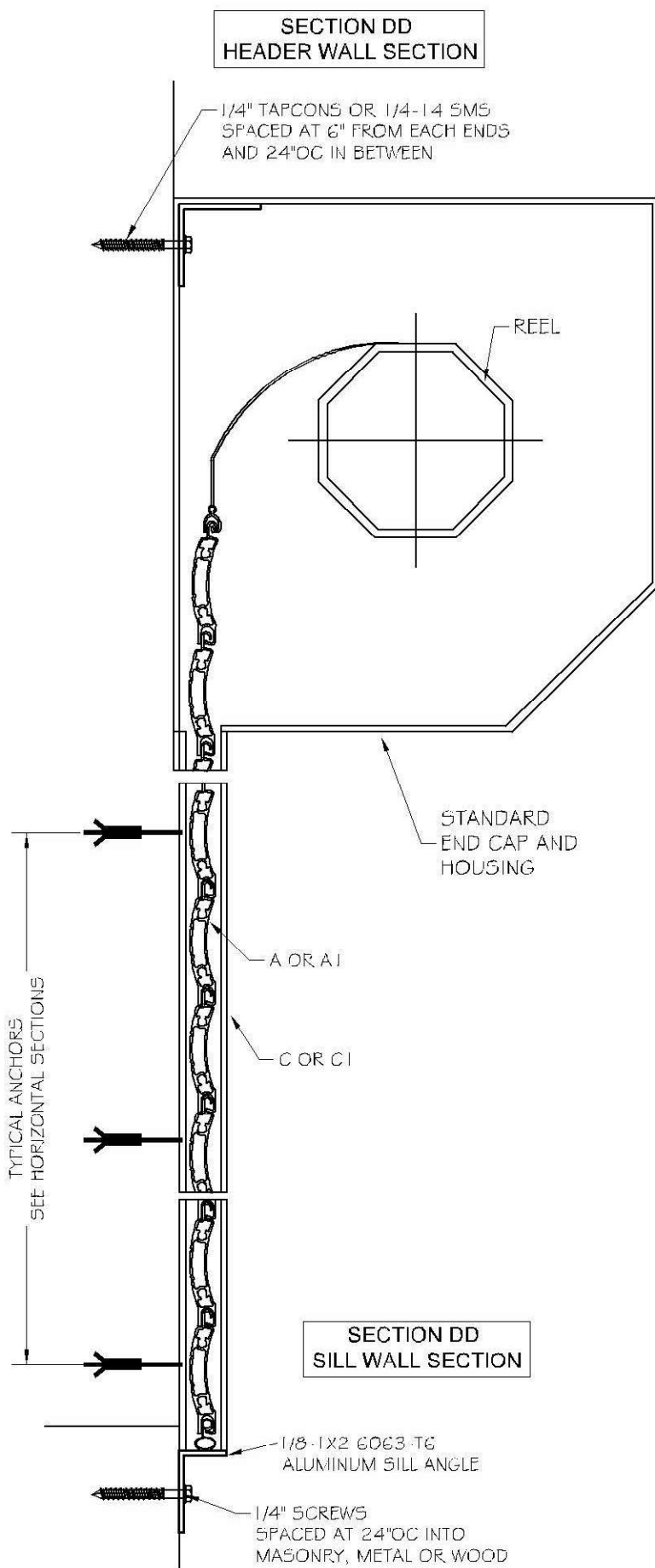
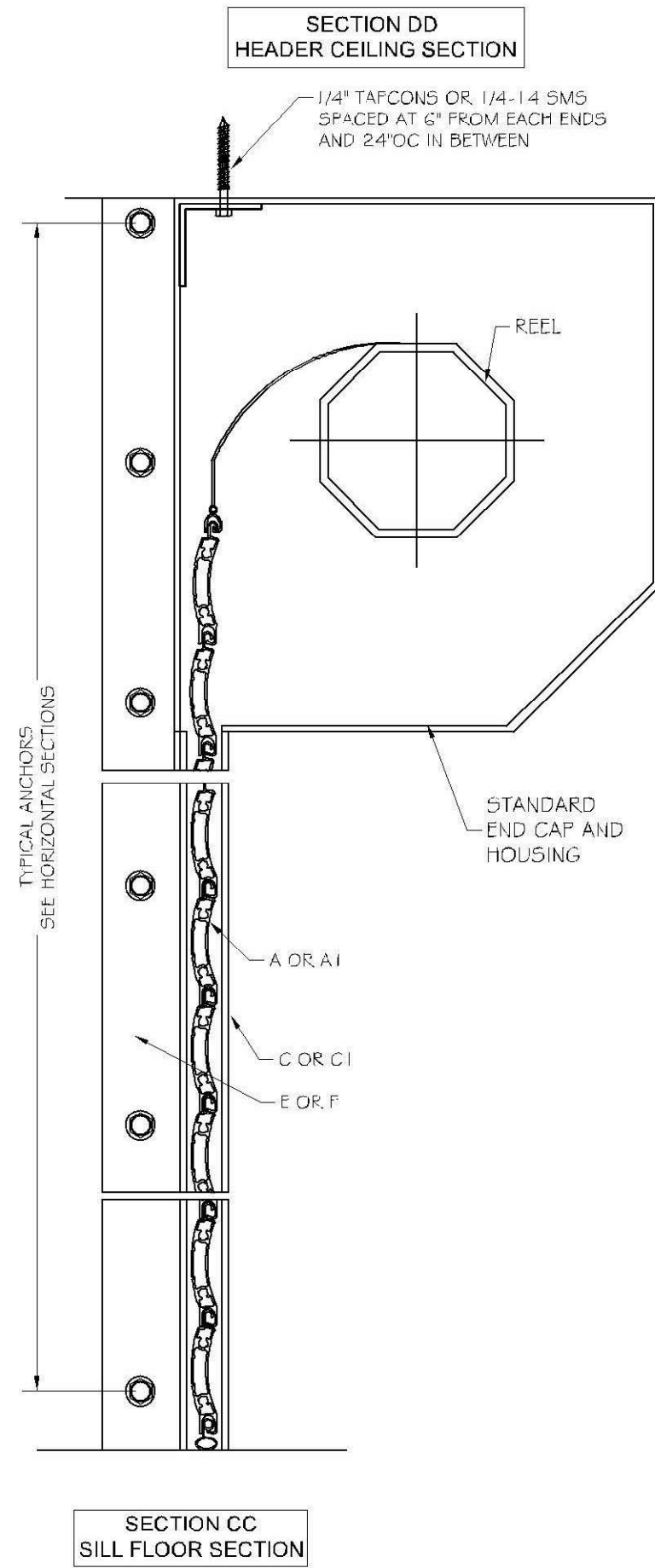
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TYPICAL VERTICAL SECTIONS

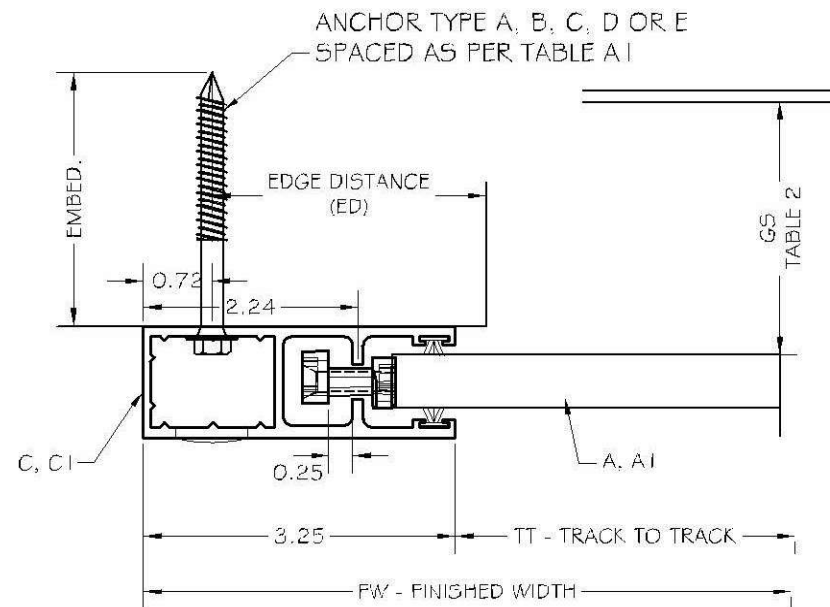


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PRODUCT NAME: WIND ABATEMENT SYSTEM - LARGE MISSILE 55 MM ROLLING DOOR SYSTEM	
MANUFACTURER: ADVANCED HURRICANE TECHNOLOGIES 6063 JAMES LANE NAPLES, FLORIDA 34109 TEL: (239) 260-0020	
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WALL MOUNT



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WIND ABATEMENT
SYSTEM - LARGE MISSILE
55 MM ROLLING DOOR SYSTEM

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TABLE A1 - SPACING ON CENTER FOR WALL MOUNT INSTALLATION

[illegible]



A circular professional engineer seal for Pedro M. de Figueiredo. The seal features a red dotted outer border. Inside, the text "PEDRO M. DE FIGUEIREDO" is arched at the top, "LICENSE" is in the center, "No. 52609" is below the license word, "STATE OF FLORIDA" is below the number, and "PROFESSIONAL ENGINEER" is arched at the bottom. Two red stars are positioned on the left and right sides of the seal.



PPM
Inc.

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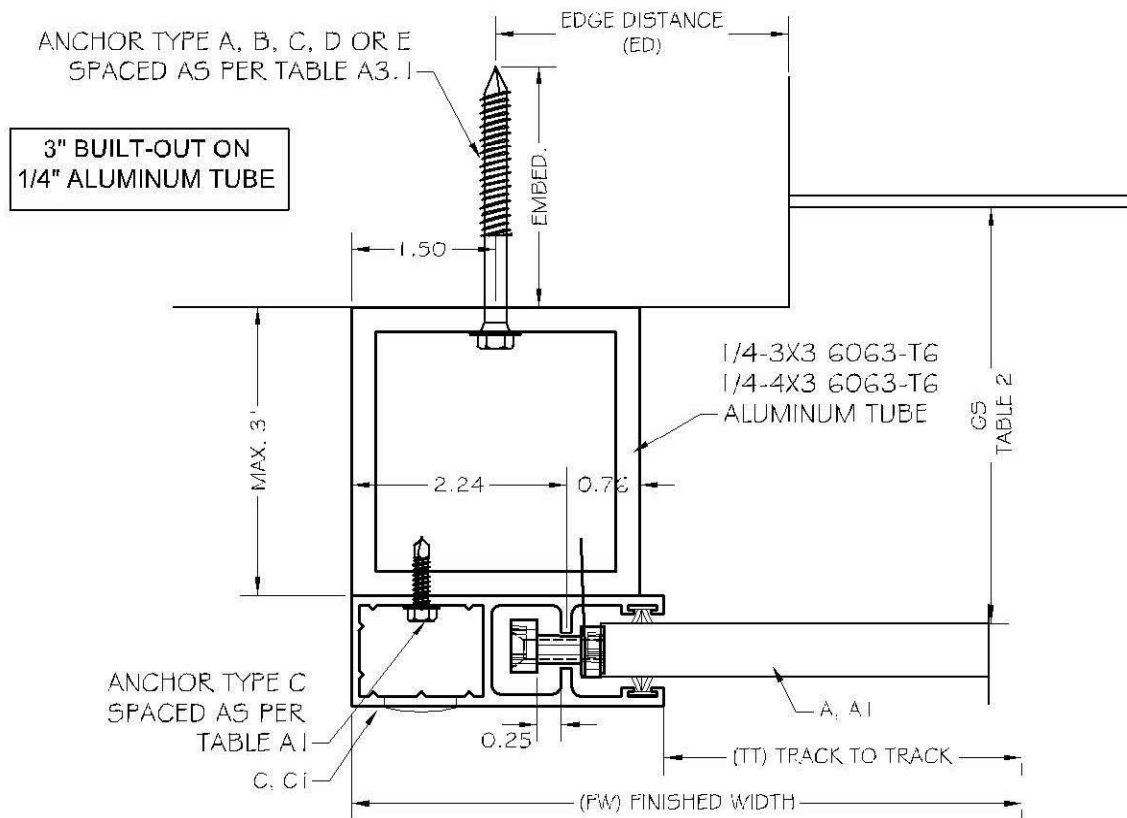
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TABLE A2.1 - SPACING ON CENTER FOR INSET MOUNT INSTALLATION W/ DOUBLE ANGLE / TUBE

[illegible]



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ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	MATERIAL	EMBEDMENT	EDGE DISTANCE
A	5/16" ITW TAPCONS XL	MIN. 3000 PSI CONCRETE	2 1/4"	2 3/16"
B	5/16" ITW TAPCONS XL	GROUT FILLED C-90 BLOCK	2 1/4"	4"
C	1/4"-14X1" GRADE 5 SELF DRILLING SCREWS	MIN. 1/4" 6063-T6 ALUM. OR A36 3/16" STEEL	3 TREADS 3 TREADS	1/2" 3/8"
D	5/16" ITW TAPCONS XL	WOOD WITH G>=.55	2 1/4"	1-1/4"
E	3/8" POWERS WEDGE BOLT	MIN. 3000 PSI CONCRETE	3 1/2"	4-1/2"

TABLE A3.1 - SPACING ON CENTER FOR 3" BUILT-OUT MOUNT INSTALLATION W/ ALUMINUM TUBE

LOAD (PSF)	TT = 84					TT = 96					TT = 120					TT = 144					TT = 168					TT = 180					TT = 192					TT = 216					TT = 240					TT = 264					TT = 288				
	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E	A	B	C	D	E										
30	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	6	5	6	5	8			3		7					5											
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130	8	8	8	8	8	6	6	7	5	8					5																																								
140	8	8	8	8	8	4	4	5	4	8																																													
150	8	8	8	8	8			4	3	8																																													
160	7	6	7	6	8			4		8																																													
180	5	4	5	4	8					6																																													

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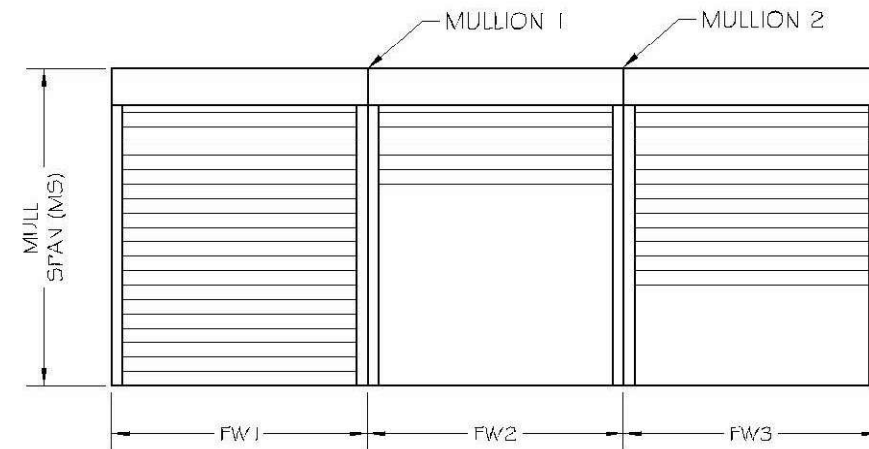
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55 MM ROLLING DOOR SYSTEM

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EQUALLY SPACED MULLIONS SELECTION



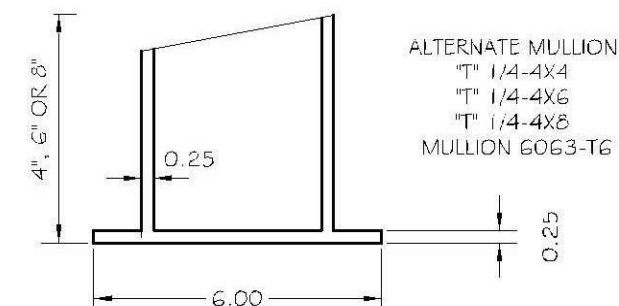
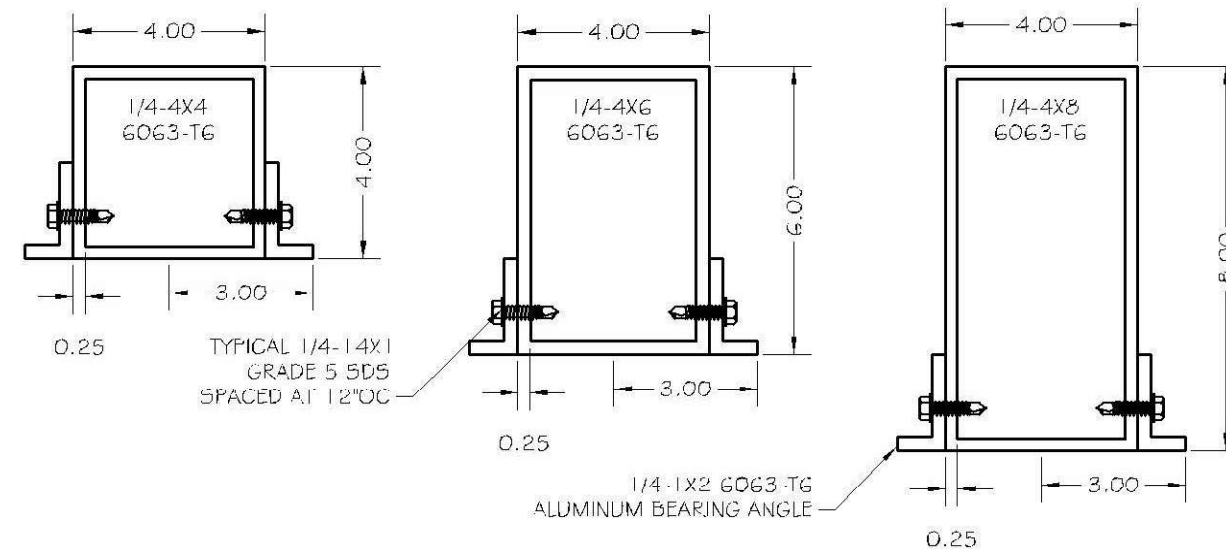
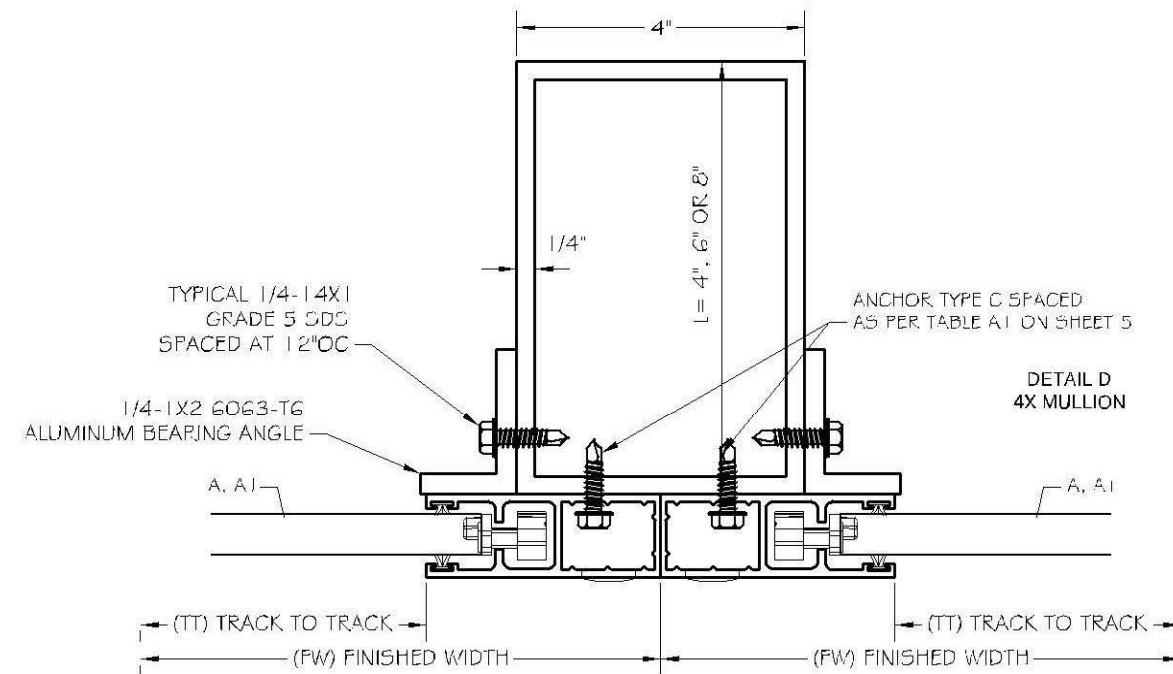
MULLION 1: $TM1 = (FW1 + FW2) / 2$
MULLION 2: $TM2 = (FW2 + FW3) / 2$
TM: TRIBUTARY MODULE

TABLE 4 - MULLIONS MAXIMUM DESIGNED PRESSURES (PSF)

DOOR TRIBUTARY MODULE (TM)	1/4-4x8 mullion span			1/4-4x6 mullion span			1/4-4x4 mullion span		
	144	132	120	120	108	96	96	84	72
294.5	27	30	30	23	30	30	17	25	30
270.5	29	38	43	25	34	43	18	27	43
246.5	32	42	56	27	38	54	20	30	48
222.5	36	46	62	30	42	60	22	33	53
210.5	38	49	65	32	44	63	24	35	56
186.5	42	55	74	36	50	71	27	40	63
162.5	49	63	85	42	57	82	31	46	72
150.5	53	68	91	45	61	88	33	49	78
126.5	63	81	109	54	73	105	40	59	93
102.5	77	100	134	66	90	129	49	72	115
90.5	87	114	152	75	102	146	55	82	130

- NOTES:
1- MULLIONS WERE DESIGNED BY RATIONAL ANALYSIS BASED ON THE ALUMINUM DESIGN MANUAL 2020 ED. AND THE FLORIDA BUILDING CODE.
2- DEFLECTION CRITERIA: MAXIMUM MULL SPAN DIVIDED BY 180: (MS/180)
3- VALUES ABOVE IS APPLICABLE ONLY FOR EQUAL MODULES FW1=FW2=FW3.
4- UNEQUAL MODULES ARE TO BE DESIGNED BY RATIONAL ANALYSIS IN A CASE BY CASE BASIS.

MULLIONS SECTIONS



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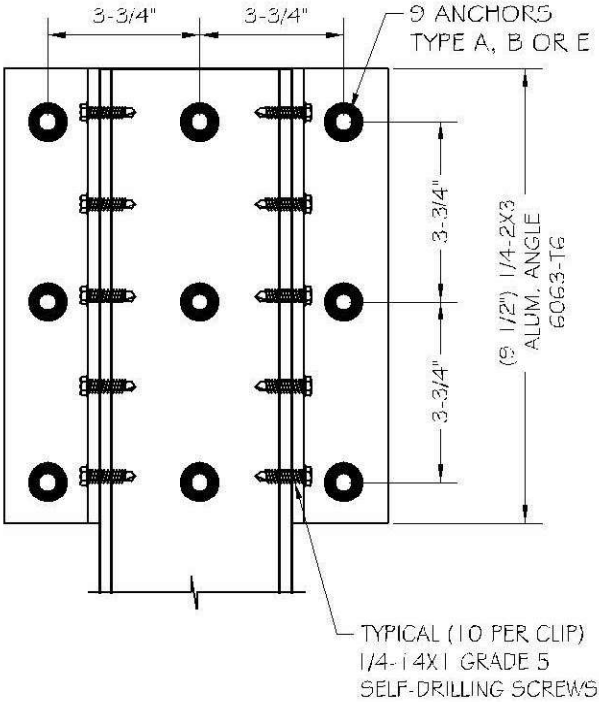
PRODUCT NAME:

WIND ABATEMENT SYSTEM - LARGE MISSILE
55 MM ROLLING DOOR SYSTEM

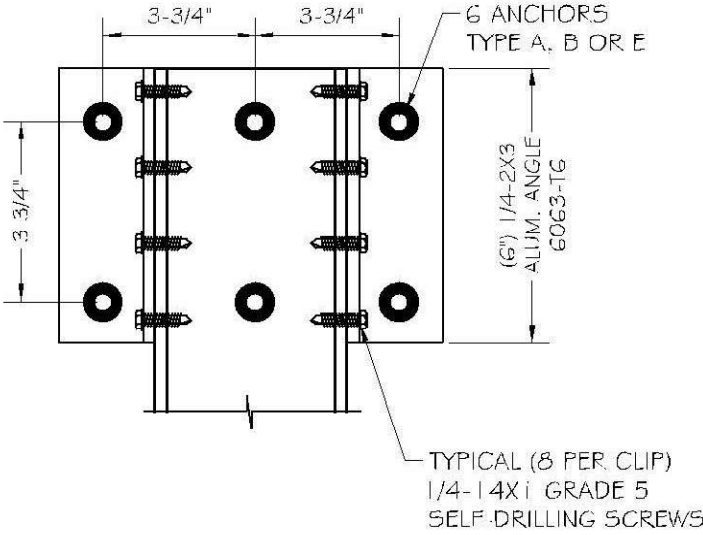
ENGINEERING SERVICES - CA 32159
9715 W. BROWARD BLVD. 247
PLANTATION, FL 33324
PTM@AOL.COM
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EQUALLY SPACED MULLIONS WALL CONNECTIONS

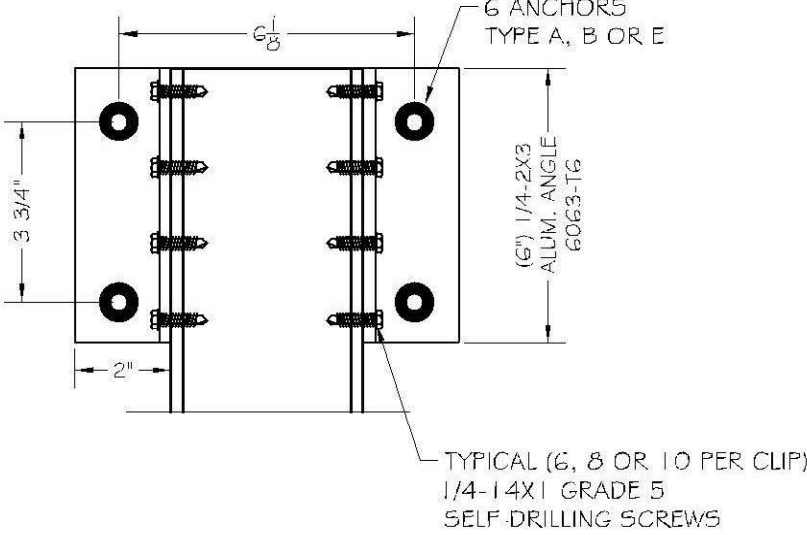
W9 - WALL MOUNT MOUNT
WITH (9) ANCHORS TYPE A OR B



W6 - WALL MOUNT MOUNT
WITH (6) ANCHORS TYPE A OR B



W4 - WALL MOUNT MOUNT
WITH (4) ANCHORS TYPE A, B OR E



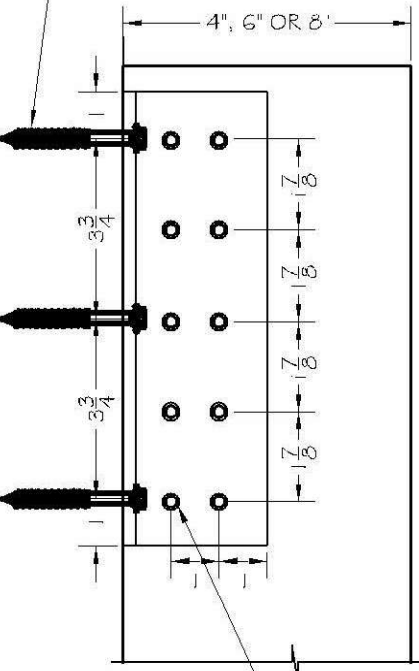
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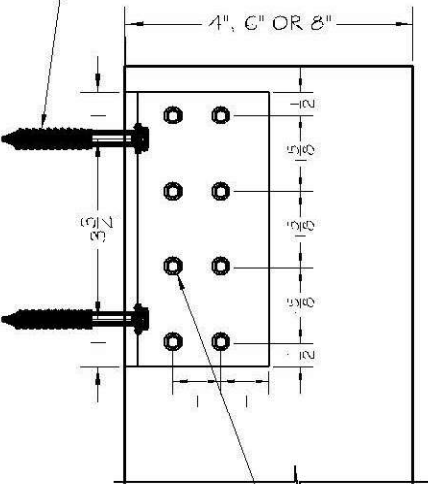


WIND ABATEMENT
SYSTEM - LARGE MISSILE
55 MM ROLLING DOOR SYSTEM

W9 (6) ANCHORS TYPE A, B OR E



W4 (4) ANCHORS TYPE A, B OR E
W6 (6) ANCHORS TYPE A, B OR E



MULL WALL ANCHORAGE CAPACITY (Ra)

ANCHOR TYPE	W4 (LB)	W6 (LB)	W9 (LB)
A	3120	4680	7020
B	3016	4524	6786
E	3750	5625	11250

CALCULATING SERVICE REACTION (Rs):

- 1- (PD) - PROJECT DESIGNED PRESSURE CALCULATED AS PER GENERAL NOTE 4.
- 2- (TM) - TRIBUTARY MODULE TM AS PER SHEET 11
- 3- (MS) - MULL SPAN

$$\text{SERVICE REACTION: } R_s = PD \times TM \times MS / 144 / 2$$

Service Reaction must be lower or equal to anchorage capacity: $R_s \leq R_a$

Example:

- 1- Project pressure: $PD = \pm 47$ psf
- 2- Two doors 180" wide with one 96" mull at middle
- 3- Tributary Module: $TM = (180 + 180) / 2 = 180$ "
- 4- Mullion Span: $MS = 96$ "
- 5- Table 4 select 1/4-4x6 mull rated at: 71 psf > 47 psf -- Ok
- 6- Wall Mounted with W4 condition anchor type A - $R_a = 3120$ lb
- 7- Calculate R_s as above:
 $R_s = 47 \text{ psf} \times 180" \times 96" / 144 / 2 = 2820 \text{ LB}$
 $R_s = 2820 < R_a = 3120$ (W4 Type A anchor type)

ANCHOR SCHEDULE:

ANCHOR	DESCRIPTION	SUBSTRATE	EMBEDMENT	EDGE DISTANCE
A	5/16"x3" TAPCONS XL	MIN. 3000 psi CONCRETE	2 1/4"	2 3/16"
B	5/16"x3" TAPCONS XL	GROUT FILLED C-90 BLOCK	2 1/4"	4"
E	3/8"x4" WEDGE BOLTS	MIN. 3000 psi CONCRETE	3"	4 1/2"

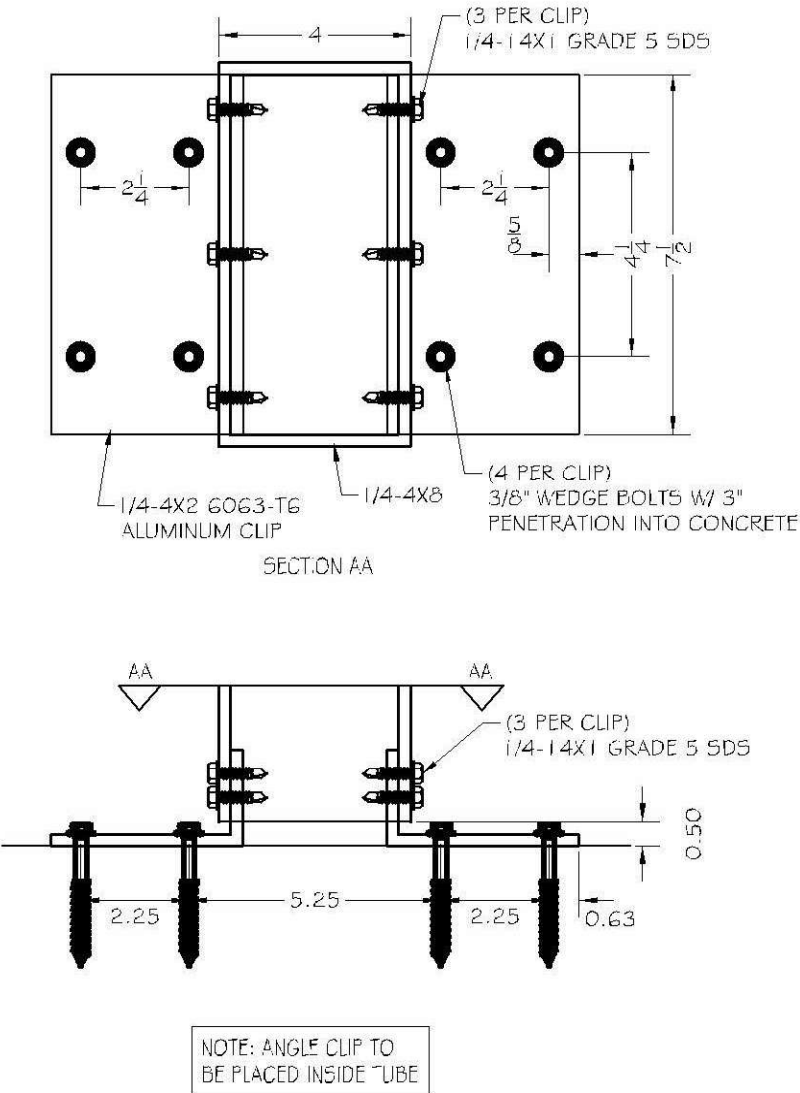
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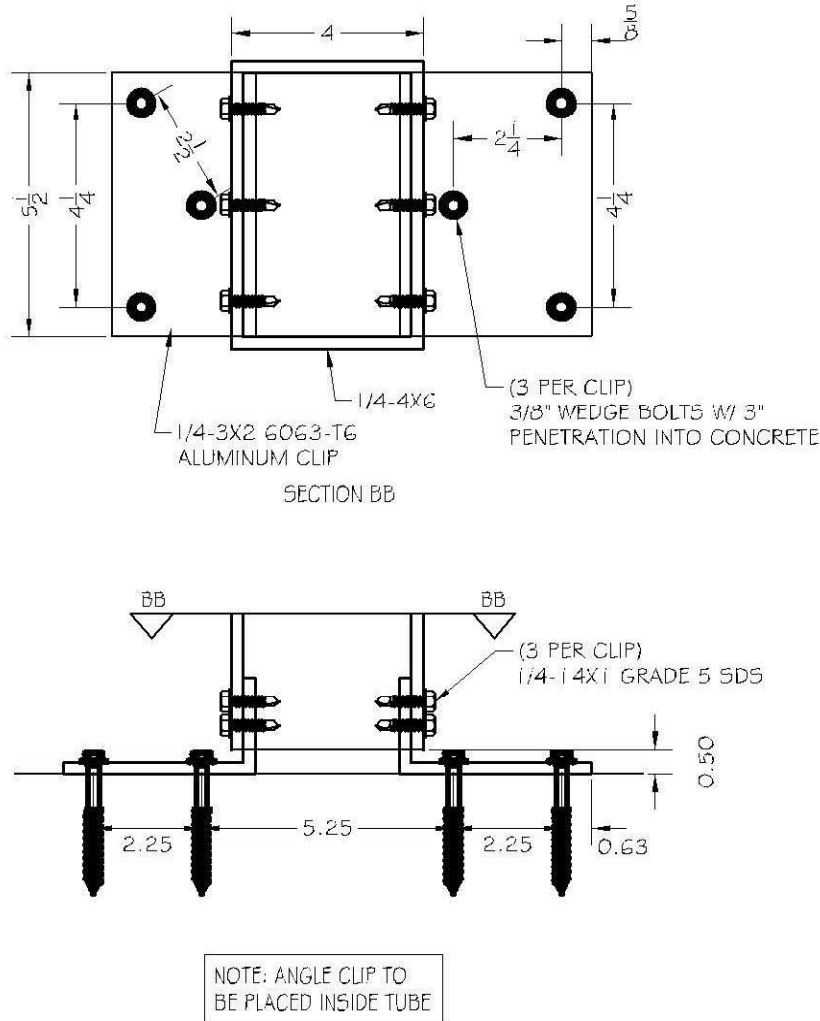
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EQUALLY SPACED MULLIONS FLOOR AND CEILING CONNECTIONS

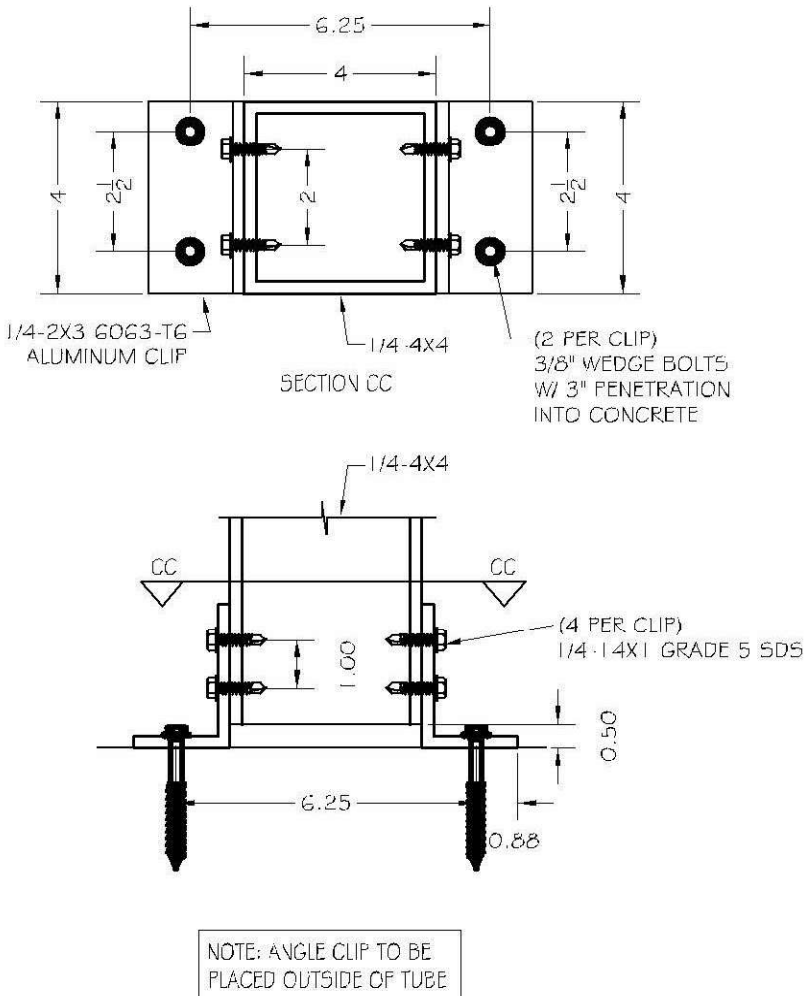
1/4-4X8 MULLION
FLOOR/CEILING MOUNT



1/4-4X6 MULLION
FLOOR/CEILING MOUNT



1/4-4X4 MULLION
FLOOR/CEILING MOUNT



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55 MM ROLLING DOOR SYSTEM

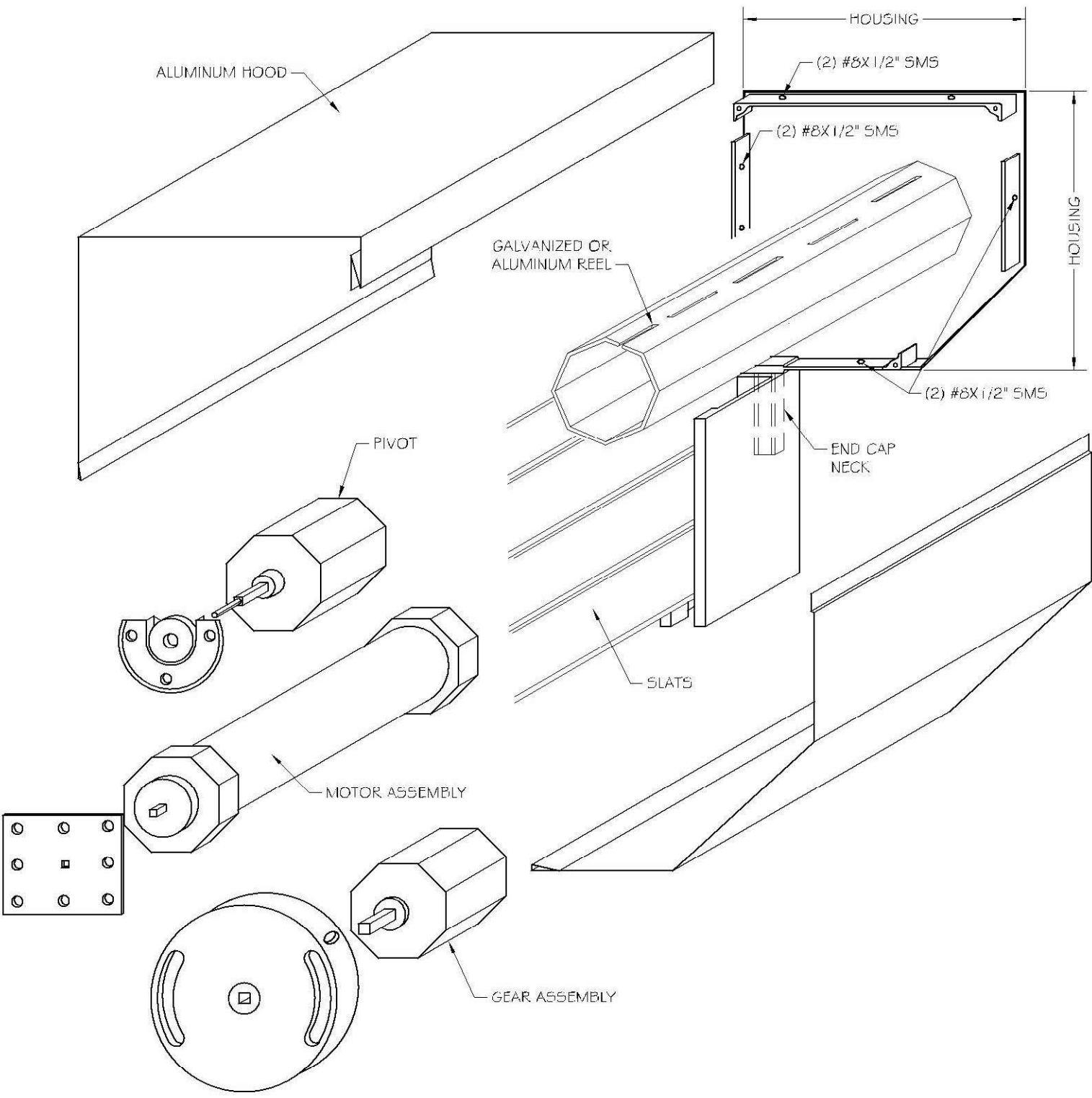
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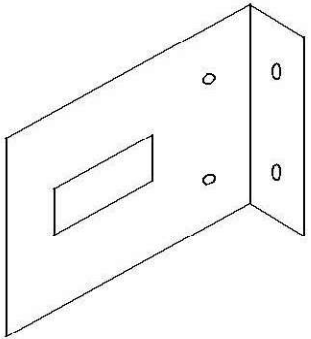
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FLOOR / CEILING CONNECTION CAPACITY FUNCTION OF DESIGNED PRESSURES ON TABLE 4

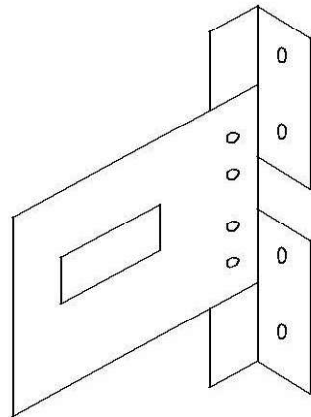
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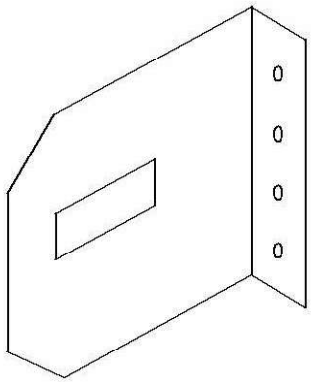
OPTIONAL STEEL BRACKET



UP TO 100 LBS SHUTTER WEIGHT
(2) 5/16" TAPCON OR,
(3) 1/4"Øx1" SMS

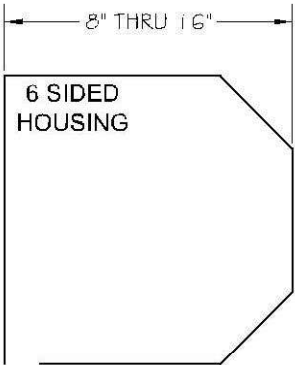
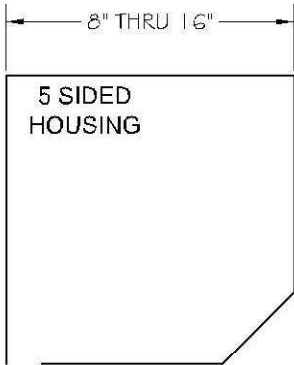
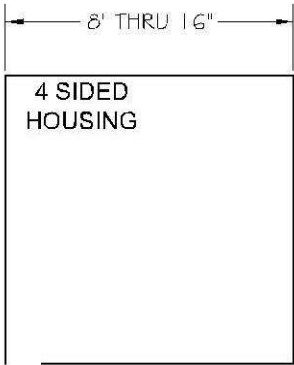


UP TO 200 LBS SHUTTER WEIGHT
(3) 5/16"Ø TAPCONS OR
(4) 1/4"Øx1" SMS



UP TO 350 LBS SHUTTER WEIGHT
(4) 5/16" TAPCON OR,
(6) 1/4"Øx1" SMS

NOTE: THE ROLL-UP MECHANISM (GEARS, MOTORS, SUPPORTING END PLATES) ARE NOT PART OF THIS APPROVAL. MANUFACTURER IS RESPONSIBLE TO SPECIFY THESE COMPONENTS FOR PROPER SHUTTER OPERATION.



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TABLE 1711.1 - CORROSION RESISTANCE OF FASTENERS

EXPOSURE		BUILDING LOCATION FROM COASTAL SHORELINE	
		≤ 300 FEET	>300 AND ≤3000 FEET
EXTERIOR	PARTIALLY SHELTERED	STAINLESS STEEL SECTION 1711.1.1.1	GALVANIZED SECTION 1711.1.1.2
	OPEN EXPOSED		
INTERIOR UNCONDITIONED ENCLOSED	VENTED UNVENTED	GALVANIZED SECTION 1711.1.1.2	GALVANIZED SECTION 1711.1.1.2



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ANCHOR DATA

FBC 2026 SECTION
1711 COMPLIANCE

ANCHOR DATA						FBC 2026 SECTION 1711 COMPLIANCE
MARK	MANUFACTURER	DESCRIPTION	SUBSTRATE	EMB.	ED	
A	ITW BUILDEX	5/16" ITW TAPCONS XL	MIN. 3KSI CONCRETE	2.25	2.1875	1711.1.1.2
B	ITW BUILDEX	5/16" ITW TAPCONS XL	GROUT FILLED C90 BLOCK	2.25	4	1711.1.1.2
C	DEWALT OR SIMILAR	1/4"-14 DRIL-FLEX SDS GR5	MIN. 1/4" 6063-T6 ALUM.	3 TREADS	0.5	1711.1.1.2
			MIN. 3/16" A36 STEEL	3 TREADS	0.375	
C alternate	DEWALT	1/4"-20 BI-FLEX 300 SS	MIN. 1/4" 6063-T6 ALUM.	3 TREADS	0.5	1711.1.1.1
			MIN. 3/16" A36 STEEL	3 TREADS	0.375	
D	ITW BUILDEX	5/16" ITW TAPCONS XL	WOOD SG>=0.55	2.25	1.25	1711.1.1.2
E	DEWALT	3/8" WEDGE BOLT	MIN. 3KSI CONCRETE	3.5	4.5	1711.1.1.2

NOTES: 1- EMD.: MINIMUM EMBEDMENT INTO SUBSTRATE, E.D.: MINIMUM EDGE DISTANCE, S: MINIMUM ANCHOR SPACING

2- ALL DIMENSIONS IN INCHES

3- ANCHORS CAN BE CONSIDERED EXTERIOR OPEN OR PARTIALLY SHELTERED EXPOSED AS PER SECTION 1711 OF THE FBO

4- SITE SPECIFIC MAY BE REQUIRED FOR CONDITIONS MEETING SECTION 1711.1.1.1 (WITHIN 300 FEET FROM SALTWATER ENVIRONMENTS).