



Product Approval
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FL #	FL22558-R9																		
Application Type	Revision																		
Code Version	2023																		
Application Status	Approved																		
Comments																			
Archived	☐																		
Product Manufacturer	American Shutter Systems Association, Inc.																		
Address/Phone/Email	4268 Westroads Drive West Palm Beach, FL 33407 (561) 209-8263 bfeeley@easternmetal.com																		
Authorized Signature	Bill Feeley lrodriguez@easternmetal.com																		
Technical Representative																			
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Quality Assurance Representative																			
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Category	Impact Protective Systems																		
Subcategory	Operable																		
Compliance Method	Evaluation Report from a Florida Registered Architect or a Licensed Florida Professional Engineer ☐ Evaluation Report - Hardcopy Received																		
Florida Engineer or Architect Name who developed the Evaluation Report	Hermes F. Norero, P.E.																		
Florida License	PE-73778																		
Quality Assurance Entity	National Accreditation and Management Institute																		
Quality Assurance Contract Expiration Date	12/31/2025																		
Validated By	Zachary R. Priest, P.E. ☐ Validation Checklist - Hardcopy Received																		
Certificate of Independence	FL22558_R9_COI_COI ASSA SS 2023-10-19.pdf																		
Referenced Standard and Year (of Standard)	<table border="0"> <thead> <tr> <th><u>Standard</u></th> <th><u>Year</u></th> </tr> </thead> <tbody> <tr> <td>ASTM E1886</td> <td>2013</td> </tr> <tr> <td>ASTM E1886</td> <td>2019</td> </tr> <tr> <td>ASTM E1996</td> <td>2020</td> </tr> <tr> <td>ASTM E1996</td> <td>2014</td> </tr> <tr> <td>ASTM E330</td> <td>2014</td> </tr> <tr> <td>TAS 201</td> <td>1994</td> </tr> <tr> <td>TAS 202</td> <td>1994</td> </tr> <tr> <td>TAS 203</td> <td>1994</td> </tr> </tbody> </table>	<u>Standard</u>	<u>Year</u>	ASTM E1886	2013	ASTM E1886	2019	ASTM E1996	2020	ASTM E1996	2014	ASTM E330	2014	TAS 201	1994	TAS 202	1994	TAS 203	1994
<u>Standard</u>	<u>Year</u>																		
ASTM E1886	2013																		
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ASTM E1996	2020																		
ASTM E1996	2014																		
ASTM E330	2014																		
TAS 201	1994																		
TAS 202	1994																		
TAS 203	1994																		
Equivalence of Product Standards Certified By																			
Sections from the Code																			
Product Approval Method	Method 1 Option D																		
Date Submitted	10/19/2023																		
Date Validated	10/20/2023																		
Date Pending FBC Approval	10/28/2023																		
Date Approved	12/13/2023																		

Summary of Products

FL #	Model, Number or Name	Description
22558.1	55 MMER Roll Shutter (HVHZ)(Impact)	55 MMER Roll Shutter (HVHZ)(Impact)
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Missile Level E. See Installation Instructions and Evaluation report for allowable design pressures, sizes, installation requirements and limits of use.		Installation Instructions FL22558_R9_II_EMS003_SS_2023-10-19.pdf Verified By: Hermes F. Norero Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL22558_R9_AE_PER8829_SS_2023-10-19.pdf Created by Independent Third Party: Yes
22558.2	55 MMER Roll Shutter (WZ3)(Impact)	55 MMER Roll Shutter (WZ3)(Impact)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Missile Level E. See Installation Instructions and Evaluation report for allowable design pressures, sizes, installation requirements and limits of use.		Installation Instructions FL22558_R9_II_EMS002_SS_2023-10-19.pdf Verified By: Hermes F. Norero Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL22558_R9_AE_PER8828_SS_2023-10-19.pdf Created by Independent Third Party: Yes
22558.3	55 MMER Roll Shutter (HVHZ)(Impact)	55 MMER Roll Shutter (HVHZ)(Impact)
Limits of Use Approved for use in HVHZ: Yes Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Missile Level D. See Installation Instructions and Evaluation report for allowable design pressures, sizes, installation requirements and limits of use.		Installation Instructions FL22558_R9_II_EMS009_SS_2023-06-22.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL22558_R9_AE_PER8621_SS_2023-06-22.pdf Created by Independent Third Party: Yes
22558.4	55 MMER Roll Shutter (WZ3)(Impact)	55 MMER Roll Shutter (WZ3)(Impact)
Limits of Use Approved for use in HVHZ: No Approved for use outside HVHZ: Yes Impact Resistant: Yes Design Pressure: N/A Other: Missile Level D. See Installation Instructions and Evaluation report for allowable design pressures, sizes, installation requirements and limits of use.		Installation Instructions FL22558_R9_II_EMS008_SS_2023-06-22.pdf Verified By: Hermes F. Norero, P.E. Florida P.E. 73778 Created by Independent Third Party: Yes Evaluation Reports FL22558_R9_AE_PER8622_SS_2023-06-22.pdf Created by Independent Third Party: Yes

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Product Approval Accepts:



AMERICAN SHUTTER SYSTEMS ASSOCIATION

55 MMER ROLL SHUTTER (HVHZ) (IMPACT) ESSENTIAL FACILITIES APPROVED

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT FLORIDA BUILDING CODE (FBC), INCLUDING HVHZ AND HAS BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
 - ASTM E330-14
 - ASTM E1886-19
 - ASTM E1996-20
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY AND 2X STUD FRAMING AS A MAIN WIND FORCE RESISTING SYSTEM CAPABLE OF WITHSTANDING AND TRANSFERRING APPLIED PRODUCT LOADS TO THE FOUNDATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
3. 2X BUCKS (WHEN USED) SHALL BE DESIGNED AND ANCHORED TO PROPERLY TRANSFER ALL LOADS TO THE STRUCTURE. BUCK DESIGN AND INSTALLATION IS THE RESPONSIBILITY OF THE ENGINEER OR ARCHITECT OF RECORD FOR THE PROJECT OF INSTALLATION.
4. THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.
5. INSTALLATION OF ROLL DOWN MAY EITHER BE INSIDE OR OUTSIDE OF THE TIE BEAM.
6. ALL EXTRUSION MATERIAL: 6063-T6 ALUMINUM ALLOY, UNLESS OTHERWISE NOTED.
7. DESIGN AND OPERATION OF ROLL UP MECHANISM IS NOT PART OF THIS APPROVAL. MANUFACTURER SPECIFICATIONS SHOULD BE FOLLOWED. CARE SHOULD BE TAKEN WHEN SHUTTER IS IN MOTION ENSURING THAT PERSONAL INJURY OR DAMAGE TO THIS PRODUCT DOES NOT OCCUR.
8. FOR DESIGN PRESSURES SEE SHEET 2. SEE SHEET 16, 18 AND 19 FOR DESIGN PRESSURES BASED ON MULLIONS.
9. HOOD ASSEMBLY IS IMPACT RATED AND CAN BE PLACED INSIDE FRAME OPENING AS AN EXPOSED FEATURE.
10. OPTIONAL BOTTOM LOCK IS NOT REQUIRED FOR STRUCTURAL OR FORCED ENTRY RESISTANCE PERFORMANCE. FOR USE ON MAXIMUM 20' WIDE UNIT.
11. VENTED OR UNVENTED SLATS QUALIFIED.
12. SHUTTER MANUFACTURER LABEL SHALL BE LOCATED IN A READILY VISIBLE LOCATION, PER FBC CHAPTER 17.

INSTALLATION NOTES:

1. ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/2$ INCH OF THE DEPICTED LOCATION IN THE ANCHOR LAYOUT DETAIL (I.E., WITHOUT CONSIDERATION OF TOLERANCES). TOLERANCES ARE NOT CUMULATIVE FROM ONE INSTALLATION ANCHOR TO THE NEXT.
4. REFER TO ANCHOR SCHEDULE CHART ON SHEETS 5, 6, 7, 9, 11, 12, & 14 FOR ANCHOR TYPE, SUBSTRATE TYPE, EDGE DISTANCE AND MINIMUM EMBEDMENT.
5. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
6. ASSEMBLY FASTENERS SHALL BE COATED WITH AN HV COATING SYSTEM AS MANUFACTURED BY AN APPROVED COATING APPLICATOR REGISTERED WITH THE AMERICAN SHUTTER SYSTEMS ASSOCIATION.
7. EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
8. INSTALLATION ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH ANCHOR MANUFACTURER'S INSTALLATION INSTRUCTIONS, AND ANCHORS SHALL NOT BE USED IN SUBSTRATES WITH STRENGTHS LESS THAN THE MINIMUM STRENGTH SPECIFIED BY THE ANCHOR MANUFACTURER.
9. INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - 9.A. WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - 9.B. CONCRETE - MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI. SEE ANCHOR SCHEDULES, SHEETS 5, 6, 8, 12, 14, 17 AND 20 FOR ADDITIONAL REQUIREMENTS.
 - 9.C. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MIN 2000 PSI.
 - 9.D. STEEL - MINIMUM A36, $\frac{3}{16}$ " THICKNESS
 - 9.E. ALUMINUM - MINIMUM 6063-T6 $\frac{1}{4}$ " THICKNESS.

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6	BUILD OUT HORIZONTAL SECTIONS & ANCHOR SCHEDULE
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11	INSET MOUNT HORIZONTAL SECTIONS & ANCHOR SCHEDULE
12	OFFSET ANCHOR INSET MOUNT HORIZONTAL SECTIONS & ANCHOR SCHEDULE
13	OFFSET ANCHOR INSET MOUNT HORIZONTAL SECTIONS & ANCHOR SCHEDULE
14	CORNER ANGLE MOUNT HORIZONTAL SECTIONS & ANCHOR SCHEDULE
15	CORNER ANGLE MOUNT HORIZONTAL SECTIONS & ANCHOR SCHEDULE
16	EQUALLY SPACED MULLIONS SELECTION
17	EQUALLY SPACED MULLIONS CONNECTION
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20	END AND CORNER MULLION CONNECTIONS
21	SLAT END RETENTION AND HOOD VENT ASSEMBLY
22	VIEWPORT AND VENT DETAILS
23	COMPONENTS & BILL OF MATERIALS

ASSA

4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
FAX: 561-841-0852

TITLE: 55 MMER ROLL SHUTTERS
(HVHZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED
GENERAL & INSTALLATION NOTES

PREPARED BY:
BUILDING DROPS, INC.
1500 NE MAHAM CT. SUITE 2-15
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REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.18.20
ANCHOR UPDATE	SM	02.08.21
GUIDE RAIL UPDATE	MS	04.07.22
2023 FBC UPDATE	MS	09.18.23

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE WITH THIS DOCUMENT.

Digitally signed by [Signature] on 09/18/23 at 10:00:00 AM, P.E.
Reason: I am approving this document
Date: 2023.09.18 10:00:00 AM -0400

**FL22558**

DATE: 06.06.17	
DWG. BY: SM	CHK. BY: HFN
SCALE: NTS	
DWG. #: EMS003	
SHEET: 1	OF 23

TABLE 1 - MAX ALLOWABLE DESIGN PRESSURE

W/ END RETENTION		
TT MAX	POSITIVE	NEGATIVE
286.5	40	40
264	45	45
240	50	50
216	55	55
204	75	75
168	100	100
144	125	125
132	135	135
120	150	150
108	160	160
96	175	175
84	185	185
72	200	200

NOTES:

1. DESIGN PRESSURES MUST NOT EXCEED 200 PSF FOR END RETENTION SYSTEM.
2. SHUTTER SIZE (TT) MUST NOT EXCEED 286.5".

MULTIPLE SHUTTER NOTES:

1. USE TABLE 1 TO VERIFY MAXIMUM ALLOWABLE PRESSURE.
2. USE TABLE 2, 3 & 4 TO SELECT INTERMEDIATE AND END MULLIONS.
3. SELECT PROPER MULLION ANCHORAGE.

DESIGN PRESSURE RATINGS

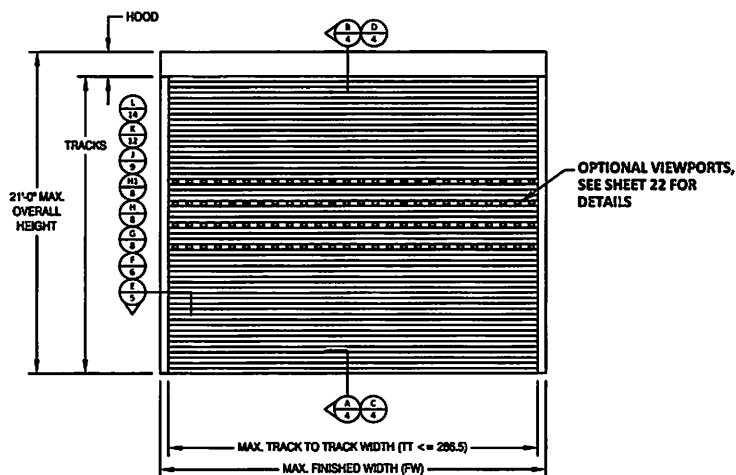
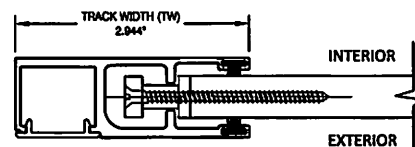


TABLE 2: GLASS SEPARATION (GS) INCHES													
LOAD (PSF)	TRACK TO TRACK (IN)												
	72	84	96	108	120	132	144	168	204	216	240	264	286.5
40	5.13	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	8.13	8.13	9.50	12.25
45	5.13	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.50	8.13	8.50	-
50	5.13	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	7.00	7.75	9.50	-
55	5.13	6.31	6.31	6.31	6.31	6.31	6.31	6.31	6.31	7.75	8.50	-	-
75	5.13	6.31	6.31	6.31	6.31	6.31	6.31	7.00	10.25	-	-	-	-
100	5.13	6.31	6.31	6.31	6.31	6.31	6.75	7.50	9.00	-	-	-	-
125	5.75	6.31	6.50	7.00	7.50	8.25	9.00	-	-	-	-	-	-
135	6.00	6.50	7.00	7.50	8.25	8.75	-	-	-	-	-	-	-
150	6.75	7.25	7.75	8.25	9.00	-	-	-	-	-	-	-	-
160	7.00	7.50	8.25	8.75	-	-	-	-	-	-	-	-	-
175	7.75	8.25	8.75	-	-	-	-	-	-	-	-	-	-
185	8.00	8.50	-	-	-	-	-	-	-	-	-	-	-
200	8.75	-	-	-	-	-	-	-	-	-	-	-	-

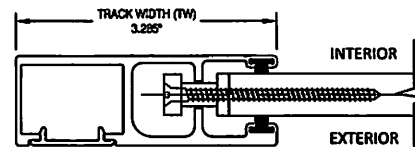
NOTES:

1. MINIMUM GLASS SEPARATION BASED ON MAXIMUM DEFLECTION + 1".
2. ANALYSIS IS LIMITED BY DEFLECTION UNDER STRUCTURAL LOADS AS WELL AS DEFLECTION DUE TO MISSILE LEVEL E LARGE MISSILE IMPACTS.
3. APPROPRIATE INSTALLATION METHOD SHALL BE USED TO ACHIEVE THE REQUIRED SEPARATION IN THE ABOVE TABLE



SMALL GUIDE RAIL WITH END RETENTION

SECTION DETAILS ON FOLLOWING SHEETS SHOW LARGE GUIDE RAIL, SMALL GUIDE RAIL IS ALSO QUALIFIED FOR ANY MOUNTING CONDITION.



LARGE GUIDE RAIL WITH END RETENTION

DETAILS SHOWN HERE AND SECTION DETAILS ON FOLLOWING SHEETS SHOW OPEN GUIDE RAILS, ENCLOSED GUIDE RAILS ARE QUALIFIED FOR ANY APPROVED CONDITIONS. SEE B.O.M., SHEET 23 FOR DETAILS.

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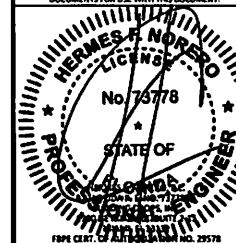
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(HVHZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED
ELEVATION & DESIGN PRESSURE TABLE

PREPARED BY:
BUILDING DROPS, INC.
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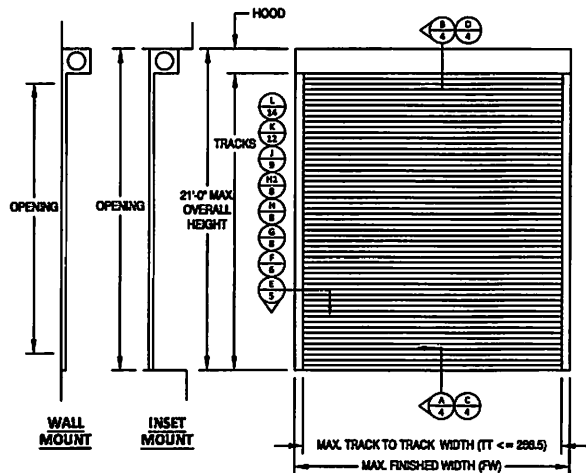
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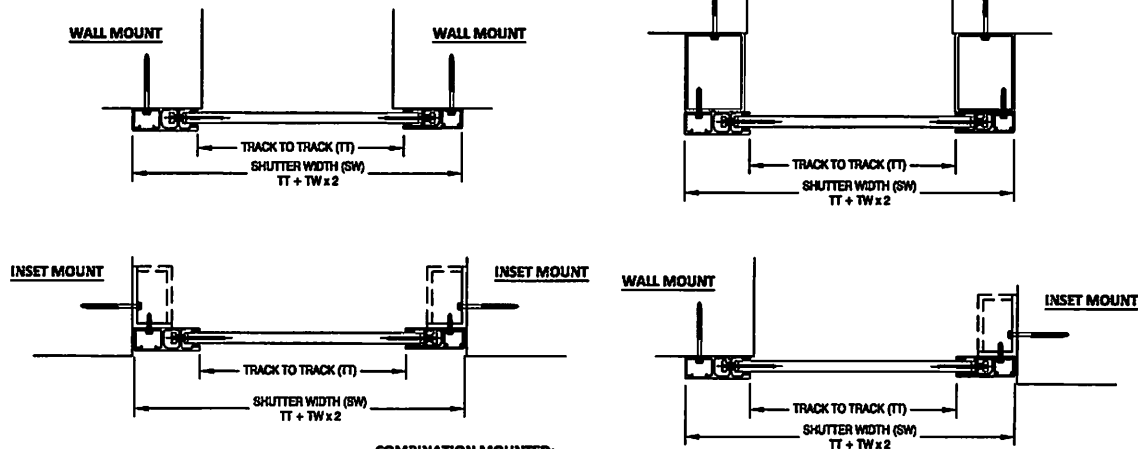
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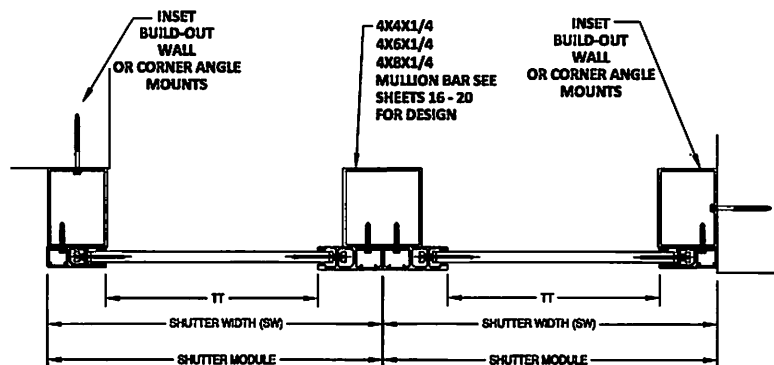
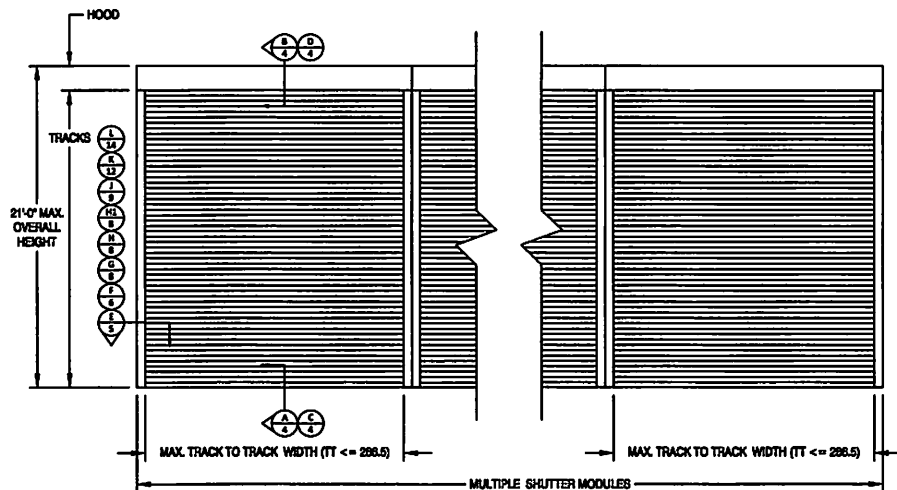
REVERSED INSTALLATION
IS ACCEPTABLE

TYPICAL SINGLE UNIT ELEVATION



COMBINATION MOUNTED:
WALL, INSET, BUILD-OUT, AND CORNER ANGLE MOUNTS CAN
BE INSTALLED BY MIXING ANY POSSIBLE COMBINATIONS. SEE
PAGE 12 FOR FURTHER DETAILS OF OFFSET INSET MOUNT
AND PAGE 14 FOR CORNER ANGLE MOUNTING.

TYPICAL MULTIPLE UNITS ELEVATION



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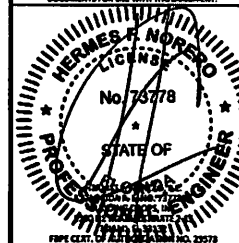
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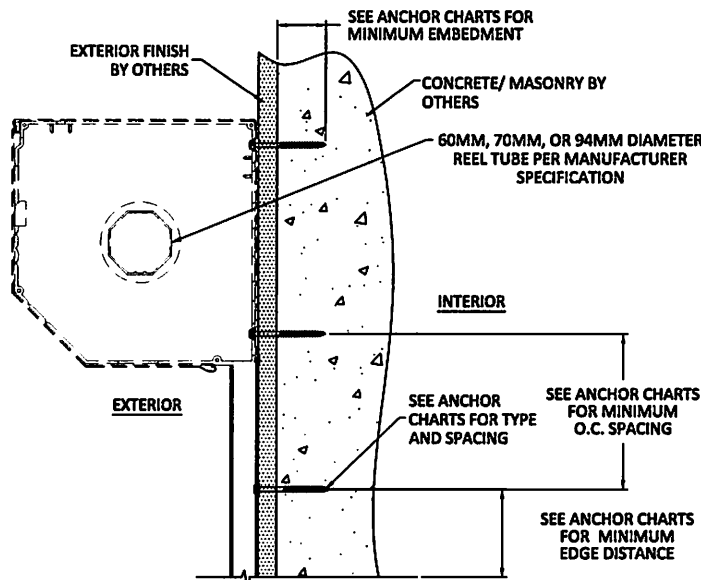


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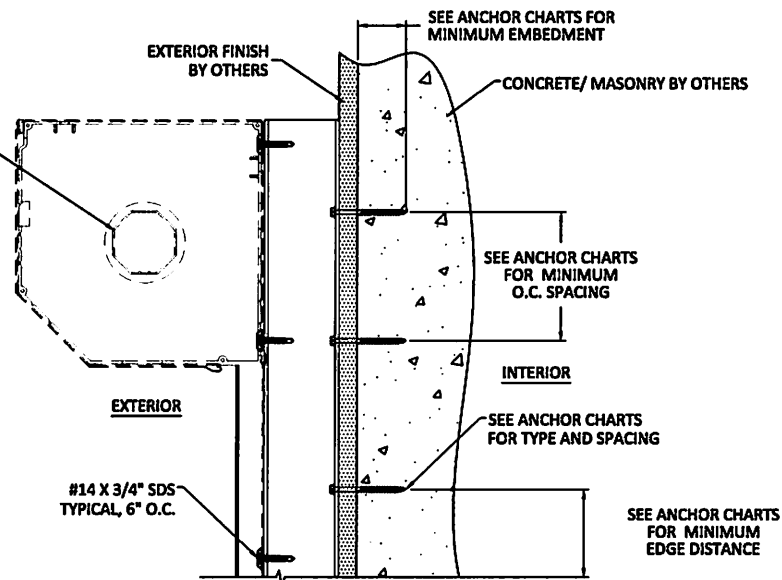
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CHK. BY:	HFN
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3

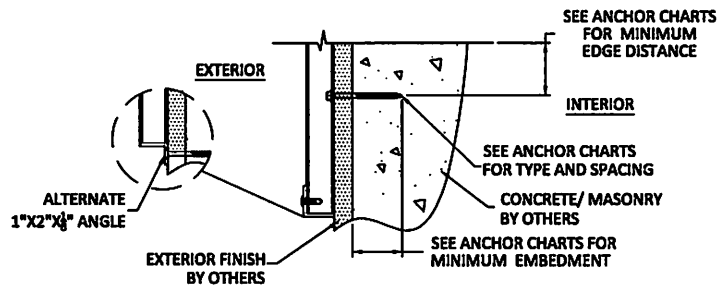
TYPICAL VERTICAL SECTIONS



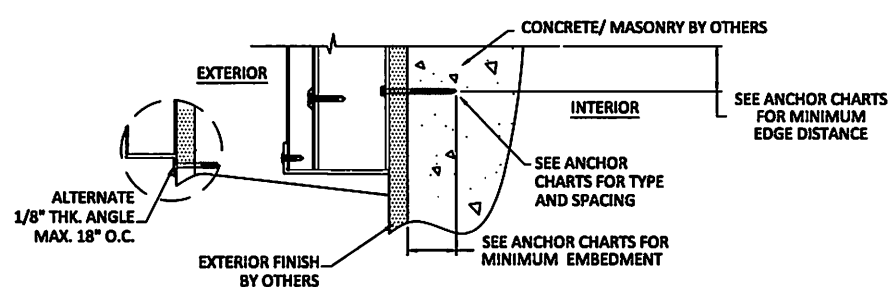
B
4 **VERTICAL SECTION**
MASONRY/CONCRETE SUBSTRATE - WALL MOUNT
SEE CHARTS ON SHEETS 5, 6, 8, 12 & 14
FOR OTHER SUBSTRATES



D
4 **VERTICAL SECTION**
MASONRY/CONCRETE SUBSTRATE - BUILDOUT
SEE CHARTS ON SHEETS 5, 6, 8, 12 & 14
FOR OTHER SUBSTRATES



A
4 **VERTICAL SECTION**
MASONRY/CONCRETE SUBSTRATE - WALL MOUNT
SEE CHARTS ON SHEETS 5, 6 & 8, 12 & 14
FOR OTHER SUBSTRATES



C
4 **VERTICAL SECTION**
MASONRY/CONCRETE SUBSTRATE - BUILDOUT
SEE CHARTS ON SHEETS 5, 6, 8, 12 & 14
FOR OTHER SUBSTRATES

- NOTES:**
1. SLATS NOT SHOWN FOR CLARITY
2. REVERSED INSTALLATION IS ACCEPTABLE

ASSA

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WEST PALM BEACH, FL 33407
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FAX: 561-841-0852

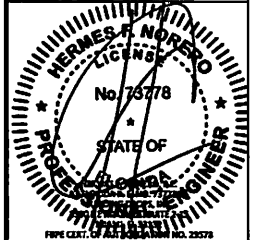
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PREPARED BY:
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2023 FBC UPDATE	MS	09.18.23

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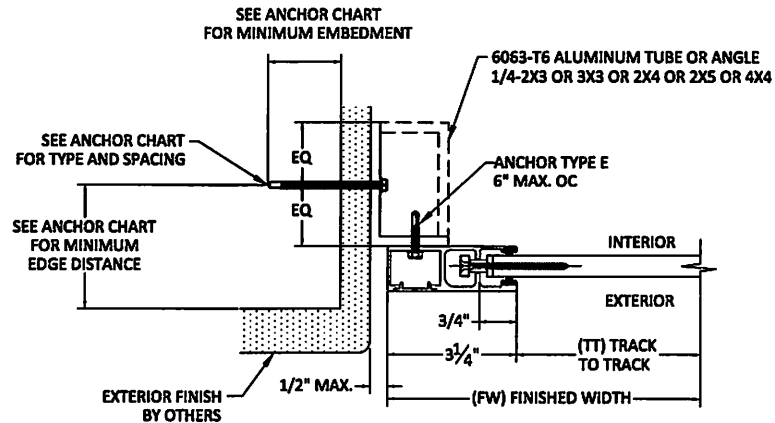


FL22558

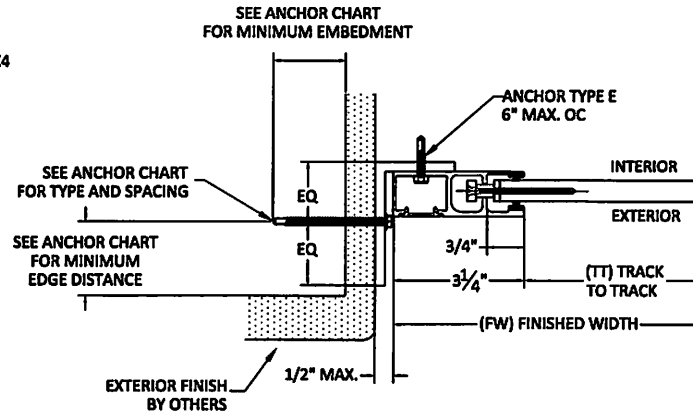
DATE: 06.06.17	
DWG. BY: SM	CHK. BY: HFN
SCALE: NTS	
DWG. #: EMS003	
SHEET: OF 23	

TABLE 3 - ANCHOR SPACING				ANCHOR TYPE & SPACING																ANCHOR TYPE & SPACING															
				WALL - MOUNT 1																1x3, 1x4, 2x4, 3x4, 3x3 OR 4x4 BO - MOUNT 2															
TT	PD	Vx	Vy	Vs	Ts	A	B	C	D	E	F	G	H	Vs	Ts	A	B	C	D	E	F	G	H	Vs	Ts	A	B	C	D	E	F	G	H		
72	40	0.0	10.9	0.0	39.3	5	5	5	5	5	5	5	5	0.0	9.3	5	5	5	5	5	5	5	5	0.0	9.3	5	5	5	5	5	5	5	5		
	45	0.0	12.3	0.0	44.2	5	5	5	5	5	5	5	5	5	0.0	10.4	5	5	5	5	5	5	5	0.0	10.4	5	5	5	5	5	5	5	5		
	50	0.0	13.6	0.0	49.1	5	5	5	5	5	5	5	5	5	0.0	11.6	5	5	5	5	5	5	5	0.0	11.6	5	5	5	5	5	5	5	5		
	55	0.0	15.0	0.0	54.0	5	5	5	5	5	5	5	5	5	0.0	12.8	5	5	5	5	5	5	5	0.0	12.8	5	5	5	5	5	5	5	5		
	60	0.0	16.4	0.0	58.9	5	5	5	5	5	5	5	5	5	0.0	13.9	5	5	5	5	5	5	5	0.0	13.9	5	5	5	5	5	5	5	5		
	65	0.0	17.7	0.0	63.9	5	5	5	5	5	5	5	5	5	0.0	15.1	5	5	5	5	5	5	5	0.0	15.1	5	5	5	5	5	5	5	5		
	70	0.0	19.1	0.0	68.8	5	5	5	5	5	5	5	5	5	0.0	16.2	5	5	5	5	5	5	5	0.0	16.2	5	5	5	5	5	5	5	5		
	75	0.0	20.5	0.0	73.7	5	5	5	5	5	5	5	5	5	0.0	17.4	5	5	5	5	5	5	5	0.0	17.4	5	5	5	5	5	5	5	5		
	80	0.0	21.8	0.0	78.6	5	5	5	5	5	5	5	5	5	0.0	18.6	5	5	5	5	5	5	5	0.0	18.6	5	5	5	5	5	5	5	5		
	85	0.0	23.2	0.0	83.5	5	5	5	5	5	5	5	5	5	0.0	19.7	5	5	5	5	5	5	5	0.0	19.7	5	5	5	5	5	5	5	5		
	90	0.0	24.6	0.0	88.4	5	5	5	5	5	5	5	5	5	0.0	20.9	5	5	5	5	5	5	5	0.0	20.9	5	5	5	5	5	5	5	5		
	95	138.3	25.9	138.3	38.9	5	5	4	5	5	5	5	5	4	138.3	333.8	5	3	-	-	-	-	-	3	-	138.3	333.8	5	3	-	-	-	-	3	-
	100	138.3	27.3	138.3	39.4	5	5	4	5	5	5	5	5	4	138.3	334.5	5	3	-	-	-	-	-	3	-	138.3	334.5	5	3	-	-	-	-	3	-
	105	138.3	28.6	138.3	40.0	5	5	4	5	5	5	5	5	4	138.3	335.1	5	3	-	-	-	-	-	3	-	138.3	335.1	5	3	-	-	-	-	3	-
	110	138.3	30.0	138.3	40.6	5	5	4	5	5	5	5	5	4	138.3	335.7	5	3	-	-	-	-	-	3	-	138.3	335.7	5	3	-	-	-	-	3	-
	115	138.3	31.4	138.3	41.1	5	5	4	5	5	5	5	5	4	138.3	336.4	5	3	-	-	-	-	-	3	-	138.3	336.4	5	3	-	-	-	-	3	-
	120	138.3	32.7	138.3	41.7	5	5	4	5	5	5	5	5	4	138.3	337.0	5	3	-	-	-	-	-	3	-	138.3	337.0	5	3	-	-	-	-	3	-
	125	138.3	34.1	138.3	42.2	5	5	4	5	5	5	5	5	4	138.3	337.7	5	3	-	-	-	-	-	3	-	138.3	337.7	5	3	-	-	-	-	3	-
	130	138.3	35.5	138.3	42.8	5	5	4	5	5	5	5	5	4	138.3	338.3	5	3	-	-	-	-	-	3	-	138.3	338.3	5	3	-	-	-	-	3	-
	135	138.3	36.8	138.3	43.4	5	5	4	5	5	5	5	5	4	138.3	338.9	5	3	-	-	-	-	-	3	-	138.3	338.9	5	3	-	-	-	-	3	-
140	138.3	38.2	138.3	43.9	5	5	4	5	5	5	5	5	4	138.3	339.6	5	3	-	-	-	-	-	3	-	138.3	339.6	5	3	-	-	-	-	3	-	
145	138.3	39.6	138.3	44.5	5	5	4	5	5	5	5	5	4	138.3	340.2	5	3	-	-	-	-	-	3	-	138.3	340.2	5	3	-	-	-	-	3	-	
150	138.3	40.9	138.3	45.0	5	5	4	5	5	5	5	5	4	138.3	340.8	5	3	-	-	-	-	-	3	-	138.3	340.8	5	3	-	-	-	-	3	-	
155	138.3	42.3	138.3	45.6	5	5	4	5	5	5	5	5	4	138.3	341.5	5	3	-	-	-	-	-	3	-	138.3	341.5	5	3	-	-	-	-	3	-	
160	138.3	43.7	138.3	46.2	5	5	4	5	5	5	5	5	4	138.3	342.1	5	3	-	-	-	-	-	3	-	138.3	342.1	5	3	-	-	-	-	3	-	
165	138.3	45.0	138.3	46.7	5	5	4	5	5	5	5	5	4	138.3	342.8	5	3	-	-	-	-	-	3	-	138.3	342.8	5	3	-	-	-	-	3	-	
170	138.3	46.4	138.3	47.3	5	5	4	5	5	5	5	5	4	138.3	343.4	5	3	-	-	-	-	-	3	-	138.3	343.4	5	3	-	-	-	-	3	-	
175	138.3	47.7	138.3	47.8	5	5	4	5	5	5	5	5	4	138.3	344.0	5	3	-	-	-	-	-	3	-	138.3	344.0	5	3	-	-	-	-	3	-	
180	138.3	49.1	138.3	48.4	5	5	4	5	5	5	5	5	4	138.3	344.7	5	3	-	-	-	-	-	3	-	138.3	344.7	5	3	-	-	-	-	3	-	
185	138.3	50.5	138.3	49.0	5	5	4	5	5	5	5	5	4	138.3	345.3	5	3	-	-	-	-	-	3	-	138.3	345.3	5	3	-	-	-	-	3	-	
190	138.3	51.8	138.3	49.5	5	5	4	5	5	5	5	5	4	138.3	346.0	5	3	-	-	-	-	-	3	-	138.3	346.0	5	3	-	-	-	-	3	-	
195	138.3	53.2	138.3	50.1	5	5	4	5	5	5	5	5	4	138.3	346.6	5	3	-	-	-	-	-	3	-	138.3	346.6	5	3	-	-	-	-	3	-	
200	138.3	54.6	138.3	50.7	5	5	4	5	5	5	5	5	4	138.3	347.2	5	3	-	-	-	-	-	3	-	138.3	347.2	5	3	-	-	-	-	3	-	
84	40	0.0	12.6	0.0	45.3	5	5	5	5	5	5	5	5	0.0	10.7	5	5	5	5	5	5	5	5	0.0	10.7	5	5	5	5	5	5	5	5		
	45	0.0	14.2	0.0	51.0	5	5	5	5	5	5	5	5	5	0.0	12.0	5	5	5	5	5	5	5	0.0	12.0	5	5	5	5	5	5	5	5		
	50	0.0	15.7	0.0	56.6	5	5	5	5	5	5	5	5	5	0.0	13.4	5	5	5	5	5	5	5	0.0	13.4	5	5	5	5	5	5	5	5		
	55	0.0	17.3	0.0	62.3	5	5	5	5	5	5	5	5	5	0.0	14.7	5	5	5	5	5	5	5	0.0	14.7	5	5	5	5	5	5	5	5		
	60	0.0	18.9	0.0	67.9	5	5	5	5	5	5	5	5	5	0.0	16.1	5	5	5	5	5	5	5	0.0	16.1	5	5	5	5	5	5	5	5		
	65	0.0	20.4	0.0	73.6	5	5	5	5	5	5	5	5	5	0.0	17.4	5	5	5	5	5	5	5	0.0	17.4	5	5	5	5	5	5	5	5		
	70	0.0	22.0	0.0	79.3	5	5	5	5	5	5	5	5	5	0.0	18.7	5	5	5	5	5	5	5	0.0	18.7	5	5	5	5	5	5	5	5		
	75	0.0	23.6	0.0	84.9	5	5	5	5	5	5	5	5	5	0.0	20.1	5	5	5	5	5	5	5	0.0	20.1	5	5	5	5	5	5	5	5		
	80	0.0	25.2	0.0	90.6	5	5	5	5	5	5	5	5	5	0.0	21.4	5	5	5	5	5	5	5	0.0	21.4	5	5	5	5	5	5	5	5		
	85	0.0	26.7	0.0	96.3	5	5	5	5	5	5	5	5	5	0.0	22.7	5	5	5	5	5	5	5	0.0	22.7	5	5	5	5	5	5	5	5		
	90	0.0	28.3	0.0	101.9	5	5	5	5	5	5	5	5	5	0.0	24.1	5	5	5	5	5	5	5	0.0	24.1	5	5	5	5	5	5	5	5		
	95	170.2	29.9	170.2	47.0	5	5	3	5	5	5	5	5	3	170.2	409.9	5	-	-	-	-	-	-	-	170.2	409.9	5	-	-	-	-	-	-	-	
	100	170.2	31.4	170.2	47.7	5	5	3	5	5	5	5	5	3	170.2	410.6	5	-	-	-	-	-	-	-	170.2	410.6	5	-	-	-	-	-	-	-	
	105	170.2	33.0	170.2	48.3	5	5	3	5	5	5	5	5	3	170.2	411.4	5	-	-	-	-	-	-	-	170.2	411.4	5	-	-	-	-	-	-	-	
	110	170.2	34.6	170.2	49.0	5	5	3	5	5	5	5	5	3	170.2	412.1	5	-	-	-	-	-	-	-	170.2	412.1	5	-	-	-	-	-	-	-	
	115	170.2	36.2	170.2	49.6	5	5	3	5	5	5	5	5	3	170.2	412.8	5	-	-	-	-	-	-	-	170.2	412.8	5	-	-	-	-				

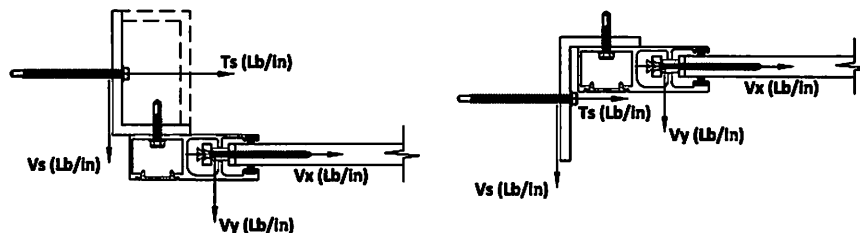
TYPICAL HORIZONTAL SECTIONS INSET MOUNT



H
8 **HORIZONTAL SECTION**
MOUNT TYPE 3
INSET MOUNT
*WITH END RETENTION



H1
8 **HORIZONTAL SECTION**
MOUNT TYPE 3 - ALTERNATE
INSET MOUNT
*WITH END RETENTION



CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE
NOTE: LOADS V_y AND V_x ARE LOADS IMPOSED BY
SLAT ON TRACK. LOADS T_s AND V_s ARE LOADS
IMPOSED ON STRUCTURE BY ANCHORS.

SEE SHEETS 9, 10 & 11 FOR ANCHOR SPACING TABLES

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	3/8" DEWALT/POWERS SCREW-BOLT+	MIN. 3000 PSI CONCRETE	3 3/4"	3 1/2"
B	5/16" ITW TAPCON	MIN. 3000 PSI CONCRETE	2 3/16"	2 1/4"
C	3/8" DEWALT/POWERS SCREW-BOLT+	GROUT FILLED C-90 BLOCK, $f_m \geq 1500$ PSI	2"	2 1/2"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK, $f_m \geq 2000$ PSI	4"	2 1/4"
E	#14 DEWALT/ELCO DRIL-FLEX SELF-DRILLING SCREW	MIN. 1/4" 6063-T6 ALUM. MIN. 3/16" A36 STEEL	1/2" 3/8"	3 THREADS PENETRATION
F	5/16" DEWALT/ELCO ULTRAICON	WOOD, MIN. SG = 0.55	1 1/2"	2"
G	5/16" DEWALT/ELCO ULTRAICON	MIN. 3515 PSI CONCRETE	3 1/8"	2"
H	5/16" DEWALT/ELCO ULTRAICON	GROUT FILLED C-90 BLOCK, $f_m \geq 1500$ PSI	2 1/2"	2 1/4"

ASSA

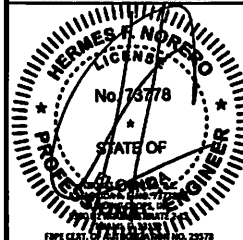
4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
FAX: 561-841-0852

TITLE: 55 MMER ROLL SHUTTERS
(HYHZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED
INSET MOUNT HORIZONTAL SECTIONS

PREPARED BY:
BUILDING DROPS, INC.
1500 W. MAHAM CT. SUITE 2-15
MAHAM, FL 33433
PH: (904) 398-8478
FAX: (904) 744-0728
WEB: www.bldginfo.com

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.18.20
ANCHOR UPDATE	SM	02.08.21
GUIDE RAIL UPDATE	MS	04.07.22
2023 FBC UPDATE	MS	09.18.23

THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC
AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC
SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE
FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.



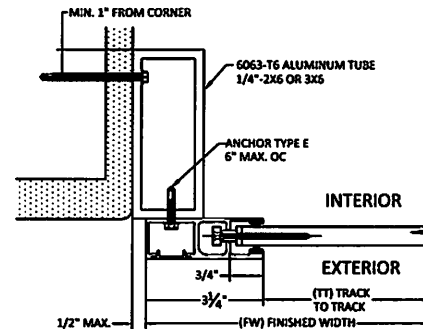
FL22558

DATE: 06.06.17	CHK. BY: HFN
DWG. BY: SM	
SCALE: NTS	
DWG. #: EMS003	
SHEET: 8	OF 23

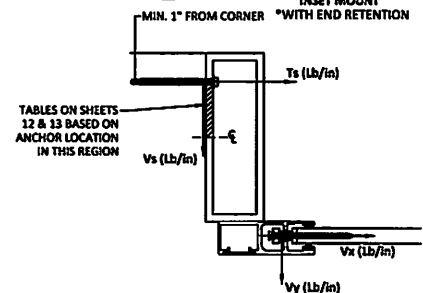
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TABLE 5 - ANCHOR SPACING						ANCHOR TYPE & SPACING 2X6 OR 3X6 OFFSET ANCHOR INSET - MOUNT 4							
TT	PD	Vx	Vy	Vs	Ts	A	B	C	D	E	F	G	H
72	40	0	10.91	10.91	30.53	5	5	5	5	5	5	5	5
	45	0	12.28	12.28	34.35	5	5	5	5	5	5	5	5
	50	0	13.64	13.64	38.17	5	5	5	5	5	5	5	5
	55	0	15.00	15.00	41.98	5	5	5	5	5	5	5	5
	60	0	16.37	16.37	45.80	5	5	5	5	5	5	5	5
	65	0	17.73	17.73	49.62	5	5	5	5	5	5	5	5
	70	0	19.10	19.10	53.43	5	5	5	5	5	5	5	5
	75	0	20.46	20.46	57.25	5	5	5	5	5	5	5	5
	80	0	21.83	21.83	61.07	5	5	5	5	5	5	5	5
	85	0	23.19	23.19	64.88	5	5	5	5	5	5	5	5
	90	0	24.55	24.55	68.70	5	5	5	5	5	5	5	5
	95	138.268	25.92	25.92	969.85	3	-	-	-	-	-	-	-
	100	138.268	27.28	27.28	973.68	3	-	-	-	-	-	-	-
	105	138.268	28.65	28.65	977.50	3	-	-	-	-	-	-	-
	110	138.268	30.01	30.01	981.31	3	-	-	-	-	-	-	-
	115	138.268	31.37	31.37	985.13	3	-	-	-	-	-	-	-
	120	138.268	32.74	32.74	988.95	3	-	-	-	-	-	-	-
	125	138.268	34.10	34.10	992.76	3	-	-	-	-	-	-	-
	130	138.268	35.47	35.47	996.58	3	-	-	-	-	-	-	-
	135	138.268	36.83	36.83	1000.40	3	-	-	-	-	-	-	-
	140	138.268	38.19	38.19	1004.21	3	-	-	-	-	-	-	-
84	145	138.268	39.56	39.56	1008.03	3	-	-	-	-	-	-	-
	150	138.268	40.92	40.92	1011.85	3	-	-	-	-	-	-	-
	155	138.268	42.29	42.29	1015.66	3	-	-	-	-	-	-	-
	160	138.268	43.65	43.65	1019.48	3	-	-	-	-	-	-	-
	165	138.268	45.01	45.01	1023.30	3	-	-	-	-	-	-	-
	170	138.268	46.38	46.38	1027.11	3	-	-	-	-	-	-	-
	175	138.268	47.74	47.74	1030.93	3	-	-	-	-	-	-	-
	180	138.268	49.11	49.11	1034.75	3	-	-	-	-	-	-	-
	185	138.268	50.47	50.47	1038.56	3	-	-	-	-	-	-	-
	190	138.268	51.83	51.83	1042.38	3	-	-	-	-	-	-	-
	195	138.268	53.20	53.20	1046.19	3	-	-	-	-	-	-	-
	200	138.268	54.56	54.56	1050.01	3	-	-	-	-	-	-	-
	40	0	12.58	12.58	35.20	5	5	5	5	5	5	5	5
	45	0	14.15	14.15	39.60	5	5	5	5	5	5	5	5
	50	0	15.72	15.72	44.00	5	5	5	5	5	5	5	5
	55	0	17.30	17.30	48.40	5	5	5	5	5	5	5	5
	60	0	18.87	18.87	52.79	5	5	5	5	5	5	5	5
	65	0	20.44	20.44	57.19	5	5	5	5	5	5	5	5
	70	0	22.01	22.01	61.59	5	5	5	5	5	5	5	5
	75	0	23.59	23.59	65.99	5	5	5	5	5	5	5	5
	80	0	25.16	25.16	70.39	5	5	5	5	5	5	5	5
	85	0	26.73	26.73	74.79	5	5	5	5	5	5	5	5
	90	0	28.30	28.30	79.19	5	5	5	5	5	5	5	5
96	80	0	14.25	14.25	39.86	5	5	5	5	5	5	5	5
	45	0	16.03	16.03	44.84	5	5	5	5	5	5	5	5
	50	0	17.81	17.81	49.82	5	5	5	5	5	5	5	5
	55	0	19.59	19.59	54.81	5	5	5	5	5	5	5	5
	60	0	21.37	21.37	59.79	5	5	5	5	5	5	5	5
	65	0	23.15	23.15	64.77	5	5	5	5	5	5	5	5
	70	0	24.93	24.93	69.75	5	5	5	5	5	5	5	5
	75	0	26.71	26.71	74.74	5	5	5	5	5	5	5	5
	80	0	28.49	28.49	79.72	5	5	5	5	5	5	5	5
	85	0	30.27	30.27	84.70	5	5	5	5	5	5	5	5
	90	0	32.05	32.05	89.68	5	5	5	5	5	5	5	5

TYPICAL HORIZONTAL SECTIONS OFFSET ANCHOR INSET MOUNT



HORIZONTAL SECTION MOUNT TYPE 4 - OFFSET ANCHOR INSET MOUNT



CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE
NOTE: LOADS V_y AND V_x ARE LOADS IMPOSED BY
SLAT ON TRACK. LOADS T_s AND V_s ARE LOADS
IMPOSED ON STRUCTURE BY ANCHORS.

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	3/8" DEWALT/POWERS SCREW-BOLT+	MIN. 3000 PSI CONCRETE	3 3/4"	3 1/2"
B	5/16" ITW TAPCON	MIN. 3000 PSI CONCRETE	2 3/16"	2 1/4"
C	3/8" DEWALT/POWERS SCREW-BOLT+	GROUT FILLED C-90 BLOCK, f'm $\geq$ 1500 PSI	2"	2 1/2"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK, f'm $\geq$ 2000 PSI	4"	2 1/4"
E	#14 DEWALT/ELCO DRILL-FLEX SELF-DRILLING SCREW	MIN. 1/4" 6063-T6 ALUM. MIN. 3/16" A36 STEEL	1/2" 3/8"	3 THREADS PENETRATION
F	5/16" DEWALT/ELCO ULTRACON	WOOD, MIN. SG = 0.55	1 1/2"	2"
G	5/16" DEWALT/ELCO ULTRACON	MIN. 3515 PSI CONCRETE	3 1/8"	2"
H	5/16" DEWALT/ELCO ULTRACON	GROUT FILLED C-90 BLOCK, f'm $\geq$ 1500 PSI	2 1/2"	2 1/4"

ASSA

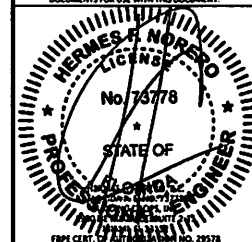
4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
FAX: 561-841-0852

TITLE: 55 MMER ROLL SHUTTERS
(HVHZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED
OFFSET ANCHOR INSET MOUNT
ANCHOR SPACING

PREPARED BY:
BUILDING DROPS, INC.
1500 NE MAHAR CT. SUITE 2-15
MAHAR, FL 33132
PH: (954)399-8478
FAX: (954)394-4735
WEB: www.buildingdrops.com

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.18.20
ANCHOR UPDATE	SM	02.08.21
GUIDE RAIL UPDATE	MS	04.07.22
2023 FBC UPDATE	MS	09.18.23

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AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC
SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE
FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL22558

DATE:	06.06.17
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	EMS003
SHEET:	OF 23

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TABLE 5 - ANCHOR SPACING						ANCHOR TYPE & SPACING 2X6 OR 3X6 OFFSET ANCHOR INSET - MOUNT 4							
TT	PD	Vx	Vy	Vs	Ts	A	B	C	D	E	F	G	H
108	80	0	15.91	15.91	44.52	S	S	S	S	S	S	S	S
	45	0	17.90	17.90	50.09	S	S	S	S	S	S	S	S
	50	0	19.89	19.89	55.65	S	S	S	S	S	S	S	S
	55	0	21.88	21.88	61.22	S	S	S	S	S	S	S	S
	60	0	23.87	23.87	66.78	S	S	S	S	S	S	S	S
	65	0	25.86	25.86	72.35	S	S	S	S	S	S	S	S
	70	0	27.85	27.85	77.92	S	S	S	S	S	S	S	S
	75	0	29.84	29.84	83.48	S	S	S	S	S	S	S	S
	80	0	31.83	31.83	89.05	S	S	S	S	S	S	S	S
	85	0	33.81	33.81	94.61	S	S	S	S	S	S	S	S
120	90	0	35.80	35.80	100.18	S	S	S	S	S	S	S	S
	40	0	17.58	17.58	49.19	S	S	S	S	S	S	S	S
	45	0	19.78	19.78	55.33	S	S	S	S	S	S	S	S
	50	0	21.97	21.97	61.48	S	S	S	S	S	S	S	S
	55	0	24.17	24.17	67.63	S	S	S	S	S	S	S	S
	60	0	26.37	26.37	73.78	S	S	S	S	S	S	S	S
	65	0	28.57	28.57	79.93	S	S	S	S	S	S	S	S
	70	0	30.76	30.76	86.08	S	S	S	S	S	S	S	S
	75	0	32.96	32.96	92.22	S	S	S	S	S	S	S	S
	80	0	35.16	35.16	98.37	S	S	S	S	S	S	S	S
132	85	0	37.36	37.36	104.52	S	S	S	S	S	S	S	4
	40	0	19.25	19.25	53.85	S	S	S	S	S	S	S	S
	45	0	21.65	21.65	60.58	S	S	S	S	S	S	S	S
	50	0	24.06	24.06	67.31	S	S	S	S	S	S	S	S
	55	0	26.46	26.46	74.04	S	S	S	S	S	S	S	S
	60	0	28.87	28.87	80.77	S	S	S	S	S	S	S	S
	65	0	31.27	31.27	87.51	S	S	S	S	S	S	S	S
	70	0	33.68	33.68	94.24	S	S	S	S	S	S	S	S
	75	0	36.09	36.09	100.97	S	S	S	S	S	S	S	S
	80	0	38.49	38.49	107.70	S	S	S	S	S	S	S	4

TABLE 5 - ANCHOR SPACING						ANCHOR TYPE & SPACING 2X6 OR 3X6 OFFSET ANCHOR INSET - MOUNT 4							
TT	PD	Vx	Vy	Vs	Ts	A	B	C	D	E	F	G	H
144	40	0	20.91	20.91	58.51	S	S	S	S	S	S	S	S
	45	0	23.53	23.53	65.83	S	S	S	S	S	S	S	S
	50	0	26.14	26.14	73.14	S	S	S	S	S	S	S	S
	55	0	28.75	28.75	80.46	S	S	S	S	S	S	S	S
	60	0	31.37	31.37	87.77	S	S	S	S	S	S	S	S
	65	0	33.98	33.98	95.08	S	S	S	S	S	S	S	S
	70	0	36.60	36.60	102.40	S	S	S	S	S	S	S	S
	75	0	39.21	39.21	109.71	S	S	S	S	S	S	S	4
	40	0	24.25	24.25	67.84	S	S	S	S	S	S	S	S
	45	0	27.28	27.28	76.32	S	S	S	S	S	S	S	S
168	50	0	30.31	30.31	84.80	S	S	S	S	S	S	S	S
	55	0	33.34	33.34	93.28	S	S	S	S	S	S	S	S
	60	0	36.37	36.37	101.76	S	S	S	S	S	S	S	S
	65	0	39.40	39.40	110.24	S	S	S	S	S	S	S	4
	40	0	29.25	29.25	81.83	S	S	S	S	S	S	S	S
204	45	0	32.90	32.90	92.06	S	S	S	S	S	S	S	S
	50	92.97349	36.56	36.56	705.68	5	-	-	-	-	-	-	-
	55	112.6951	40.21	40.21	843.90	4	-	-	-	-	-	-	-
	60	129.1298	43.87	43.87	960.78	3	-	-	-	-	-	-	-
	65	143.0361	47.52	47.52	1061.26	3	-	-	-	-	-	-	-
216	40	0	30.91	30.91	86.49	S	S	S	S	S	S	S	S
	45	0	34.78	34.78	97.30	S	S	S	S	S	S	S	S
	50	93.89875	38.64	38.64	717.51	5	-	-	-	-	-	-	-
	55	113.8167	42.50	42.50	857.59	4	-	-	-	-	-	-	-
	40	38.68479	34.25	34.25	346.88	5	3	-	3	3	3	4	-
240	45	68.77296	38.53	38.53	554.13	5	-	-	-	-	-	-	-
	50	92.8435	42.81	42.81	722.32	5	-	-	-	-	-	-	-
	40	73.11576	37.58	37.58	3.00	5	S	S	S	S	S	S	S
264	45	97.48768	42.28	42.28	750.98	5	-	-	-	-	-	-	-
286.5	40	65.92552	40.70	40.70	541.74	5	-	-	-	-	-	-	-

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4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
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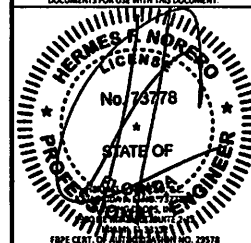
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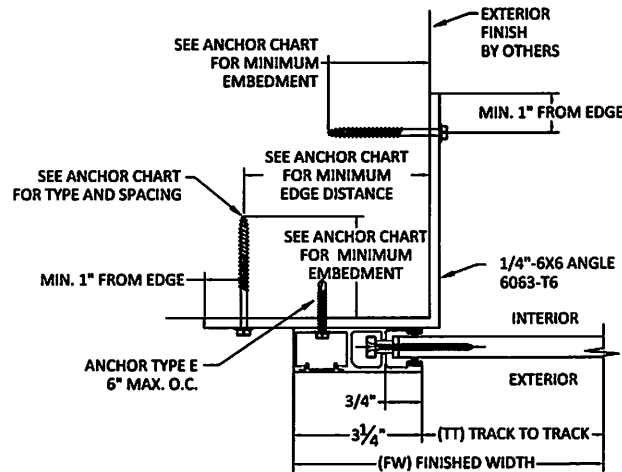
FL22558

DATE: 06.06.17	
DWG. BY: SM	CHK. BY: HFN
SCALE: NTS	
DWG. #: EMS003	
SHEET: OF 23	

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TABLE 6 ANCHOR SPACING						ANCHOR TYPE & SPACING 6X6 CORNER ANGLE ANCHOR - MOUNT 5							
TT	PD	Vz	Vy	Vs	Ts	A	B	C	D	E	F	G	H
72	40	0	10.91	0.00	10.91	S	S	S	S	S	S	S	S
	45	0	12.28	0.00	12.28	S	S	S	S	S	S	S	S
	50	0	13.64	0.00	13.64	S	S	S	S	S	S	S	S
	55	0	15.00	0.00	15.00	S	S	S	S	S	S	S	S
	60	0	16.37	0.00	16.37	S	S	S	S	S	S	S	S
	65	0	17.73	0.00	17.73	S	S	S	S	S	S	S	S
	70	0	19.10	0.00	19.10	S	S	S	S	S	S	S	S
	75	0	20.46	0.00	20.46	S	S	S	S	S	S	S	S
	80	0	21.83	0.00	21.83	S	S	S	S	S	S	S	S
	85	0	23.19	0.00	23.19	S	S	S	S	S	S	S	S
	90	0	24.55	0.00	24.55	S	S	S	S	S	S	S	S
	95	138.268	25.92	138.27	25.92	S	S	4	5	S	S	S	4
	100	138.268	27.28	138.27	27.28	S	S	4	5	S	S	S	4
	105	138.268	28.65	138.27	28.65	S	S	4	5	S	S	S	4
	110	138.268	30.01	138.27	30.01	S	S	4	5	S	S	S	4
	115	138.268	31.37	138.27	31.37	S	S	4	5	S	S	S	4
	120	138.268	32.74	138.27	32.74	S	S	4	5	S	S	S	4
	125	138.268	34.10	138.27	34.10	S	S	4	5	S	S	S	4
	130	138.268	35.47	138.27	35.47	S	S	4	5	S	S	S	4
	135	138.268	36.83	138.27	36.83	S	S	4	5	S	S	S	4
	140	138.268	38.19	138.27	38.19	S	S	4	5	S	S	S	4
	145	138.268	39.56	138.27	39.56	S	S	4	5	S	S	S	4
84	150	138.268	40.92	138.27	40.92	S	S	4	5	S	S	S	4
	155	138.268	42.29	138.27	42.29	S	S	4	5	S	S	S	4
	160	138.268	43.65	138.27	43.65	S	S	4	5	S	S	S	4
	165	138.268	45.01	138.27	45.01	S	S	4	5	S	S	S	4
	170	138.268	46.38	138.27	46.38	S	S	4	5	S	S	S	4
	175	138.268	47.74	138.27	47.74	S	S	4	5	S	S	S	4
	180	138.268	49.11	138.27	49.11	S	S	4	5	S	S	S	4
	185	138.268	50.47	138.27	50.47	S	S	4	5	S	S	S	4
	190	138.268	51.83	138.27	51.83	S	S	4	5	S	S	S	4
	195	138.268	53.20	138.27	53.20	S	S	4	5	S	S	S	4
	200	138.268	54.56	138.27	54.56	S	S	4	5	S	S	S	3
	40	0	12.58	0.00	12.58	S	S	S	S	S	S	S	S
	45	0	14.15	0.00	14.15	S	S	S	S	S	S	S	S
	50	0	15.72	0.00	15.72	S	S	S	S	S	S	S	S
	55	0	17.30	0.00	17.30	S	S	S	S	S	S	S	S
	60	0	18.87	0.00	18.87	S	S	S	S	S	S	S	S
	65	0	20.44	0.00	20.44	S	S	S	S	S	S	S	S
	70	0	22.01	0.00	22.01	S	S	S	S	S	S	S	S
	75	0	23.59	0.00	23.59	S	S	S	S	S	S	S	S
	80	0	25.16	0.00	25.16	S	S	S	S	S	S	S	S
	85	0	26.73	0.00	26.73	S	S	S	S	S	S	S	S
	90	0	28.30	0.00	28.30	S	S	S	S	S	S	S	S
	95	170.1704	29.88	170.17	29.88	S	S	3	5	S	S	S	3
	100	170.1704	31.45	170.17	31.45	S	S	3	5	S	S	S	3
	105	170.1704	33.02	170.17	33.02	S	S	3	5	S	S	S	3
	110	170.1704	34.59	170.17	34.59	S	S	3	5	S	S	S	3
	115	170.1704	36.17	170.17	36.17	S	S	3	5	S	S	S	3
	120	170.1704	37.74	170.17	37.74	S	S	3	5	S	S	S	3
	125	170.1704	39.31	170.17	39.31	S	S	3	5	S	S	S	3
	130	170.1704	40.88	170.17	40.88	S	S	3	5	S	S	S	3
	135	170.1704	42.45	170.17	42.45	S	S	3	5	S	S	S	3
	140	170.1704	44.03	170.17	44.03	S	S	3	5	S	S	S	3
	145	170.1704	45.60	170.17	45.60	S	S	3	5	S	S	S	3
	150	170.1704	47.17	170.17	47.17	S	S	3	5	S	S	S	3
	155	170.1704	48.74	170.17	48.74	S	S	3	5	S	S	S	3
	160	170.1704	50.32	170.17	50.32	S	S	3	5	S	S	S	3
	165	170.1704	51.89	170.17	51.89	S	S	3	5	S	S	S	3
	170	170.1704	53.46	170.17	53.46	S	S	3	5	S	S	S	3
	175	170.1704	55.03	170.17	55.03	S	S	3	5	S	S	S	3
	180	170.1704	56.61	170.17	56.61	S	S	3	5	S	S	S	-
	185	170.1704	58.18	170.17	58.18	S	S	3	5	S	S	S	-

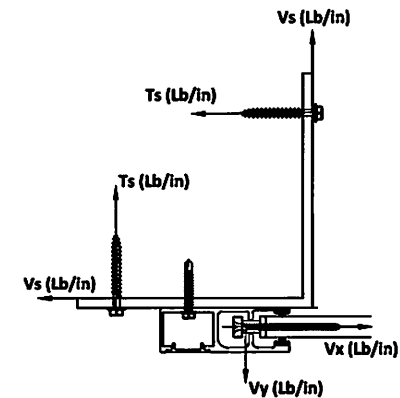
TYPICAL HORIZONTAL SECTIONS CORNER ANGLE



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14

HORIZONTAL SECTION

MOUNT TYPE 5
CORNER ANGLE MOUNT
*WITH END RETENTION



CONTRACTOR TO VERIFY ADEQUACY OF STRUCTURE
NOTE: LOADS Vy AND Vx ARE LOADS IMPOSED BY
SLAT ON TRACK. LOADS Ts AND Vs ARE LOADS
IMPOSED ON STRUCTURE BY ANCHORS.

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	3/8" DEWALT/POWERS SCREW-BOLT+	MIN. 3000 PSI CONCRETE	3 3/4"	3 1/2"
B	5/16" ITW TAPCON	MIN. 3000 PSI CONCRETE	2 3/16"	2 1/4"
C	3/8" DEWALT/POWERS SCREW-BOLT+	GROUT FILLED C-90 BLOCK, f'm ≥ 1500 PSI	2"	2 1/2"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK, f'm ≥ 2000 PSI	4"	2 1/4"
E	#14 DEWALT/ELCO DRIL-FLEX SELF-DRILLING SCREW	MIN. 1/4" 6063-T6 ALUM.	1/2"	3 THREADS PENETRATION
F	5/16" DEWALT/ELCO ULTRA CON	WOOD, MIN. SG = 0.55	1 1/2"	2"
G	5/16" DEWALT/ELCO ULTRA CON	MIN. 3515 PSI CONCRETE	3 1/8"	2"
H	5/16" DEWALT/ELCO ULTRA CON	GROUT FILLED C-90 BLOCK, f'm ≥ 1500 PSI	2 1/2"	2 1/4"

ASSA

4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
FAX: 561-841-0852

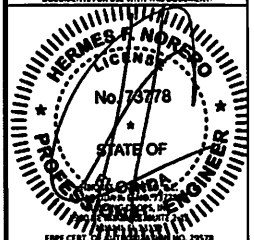
TITLE: 55 MMER ROLL SHUTTERS
(HYHZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED
CORNER ANGLE MOUNT
ANCHOR SPACING

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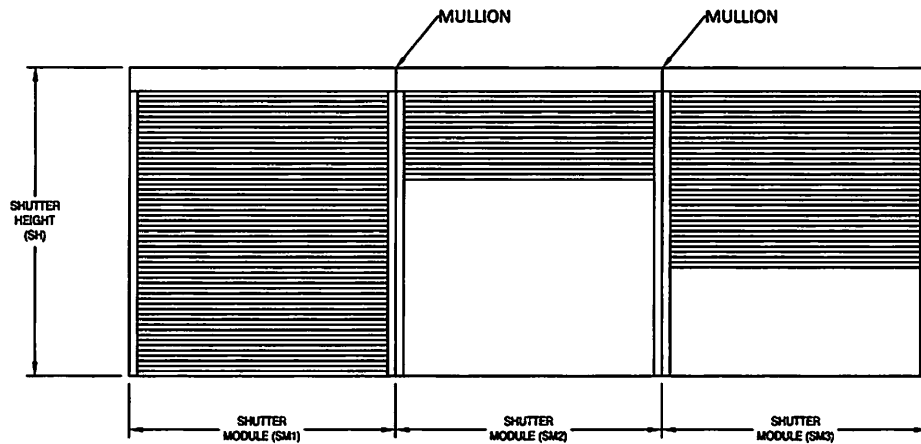
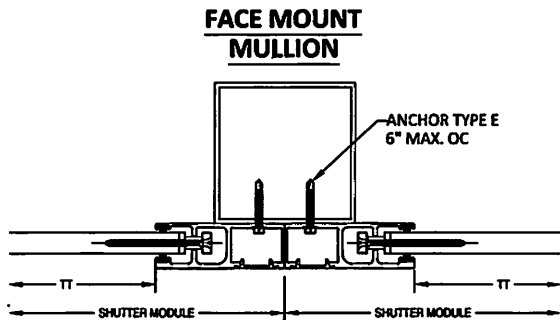


FL22558

DATE:	06.06.17
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	EMS003
SHEET:	OF 23

14

EQUALLY SPACED MULLIONS SELECTION



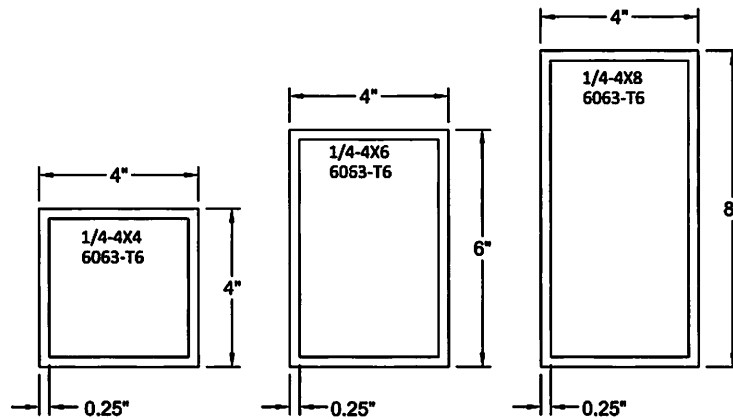
SM1 = SM2 = SM3

MAXIMUM MULLION DESIGN PRESSURE (PSF)

TT Max.	1/4-4x8 MILLION SPAN			1/4-4x6 MILLION SPAN			1/4-4x4 MILLION SPAN		
	144	120	96	144	120	96	144	120	96
286.5	34	40	40	N/A	29	40	N/A	N/A	21
264	37	45	45	N/A	31	45	N/A	N/A	23
240	41	50	50	20	35	50	N/A	N/A	25
216	45	55	55	22	39	55	N/A	N/A	28
204	48	75	75	23	41	75	N/A	N/A	30
168	58	100	100	29	50	98	N/A	N/A	36
144	68	118	125	33	58	114	N/A	22	42
132	74	129	135	36	63	124	N/A	24	46
120	82	142	150	40	70	137	N/A	26	51
108	91	158	160	45	78	152	N/A	29	57
96	103	175	175	50	87	171	N/A	33	64
84	117	185	185	58	100	185	21	37	73
72	137	200	200	67	117	200	25	44	85

NOTES:

1. MULLIONS WERE DESIGNED BY RATIONAL ANALYSIS BASED ON THE ALUMINUM DESIGN MANUAL AND THE FLORIDA BUILDING CODE. ABOVE LOADS ARE ALSO LIMITED BY THE MAX. CAPACITY OF THE PRODUCT.
2. DEFLECTION CRITERIA: MAX. SPAN/180
3. VALUES ABOVE ARE APPLICABLE ONLY FOR EQUAL MODULES SM1=SM2=SM3
4. UNEQUAL MODULES ARE TO BE DESIGNED BY RATIONAL ANALYSIS IN A CASE BY CASE BASIS.

**ASSA**

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**TITLE: 55 MMER ROLL SHUTTERS
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ESSENTIAL FACILITIES APPROVED
EQUALLY SPACED MULLION**

PREPARED BY:
BUILDING DROPS, INC.

MIAMI, FL 33122

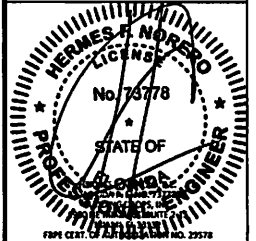
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FAX: (334) 744-6133
WEB: www.buildingdrops.com



REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.18.20
ANCHOR UPDATE	SM	02.08.21
GUIDE RAIL UPDATE	MS	04.07.22
2023 FBC UPDATE	MS	09.18.23

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FL22558

DATE: 06.06.17

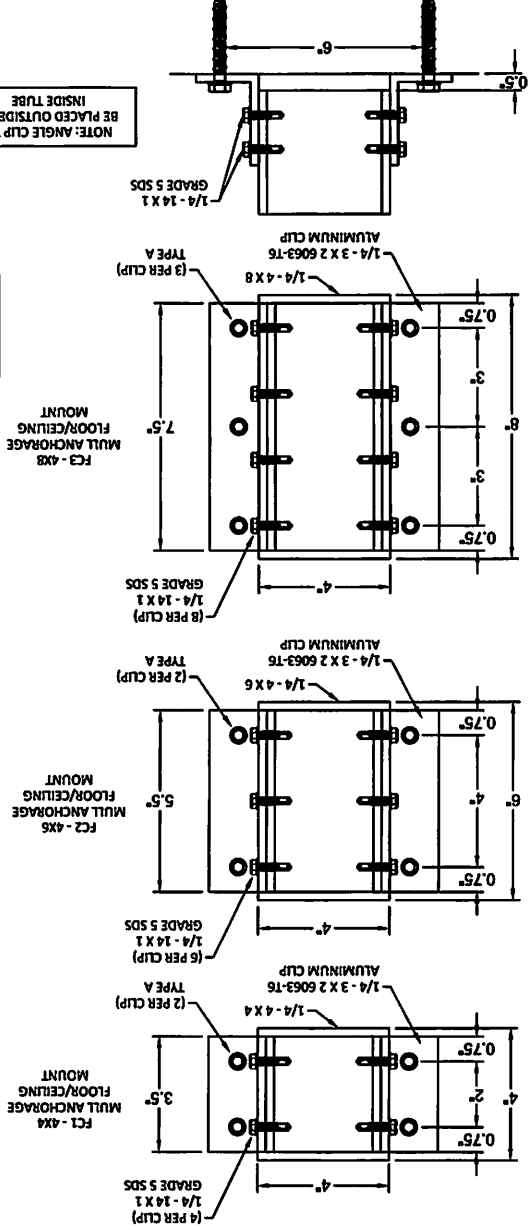
DWG. BY: SM	CHK. BY: HFN
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SCALE: **NTS**

DWG. #: **EMS003**

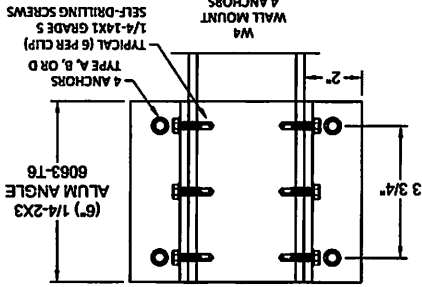
SHEET: OF 23

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FLOOR/CEILING MOUNT ANCHOR SELECTION			
ANCHOR TYPE	MULTIPLY TYPE		
	4X4	4X6	4X8
A	F11	F12	F13

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	3/8" DEWALT/POWERS SCREW-BOLT+	MIN. 3000 PSI CONCRETE	3" / 2"	3" / 2"
B	5/16" T/W TAPCON	MIN. 3000 PSI CONCRETE	2 3/16"	2 1/4"
D	5/16" T/W TAPCON	GROUT FILLED C-90 BLOCK, f'm > 2000 PSI	4"	2 1/4"
G	5/16" DEWALT/ELCO ULTRACON	MIN. 5315 PSI CONCRETE	3 1/8"	2"



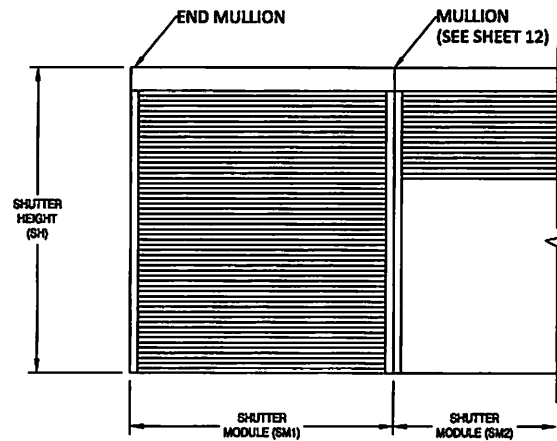
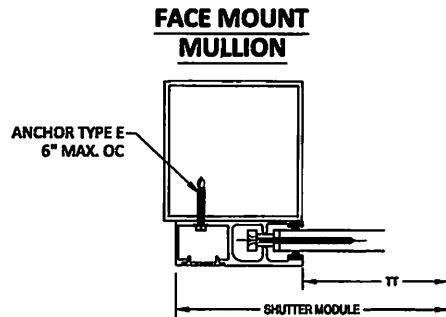
ANCHOR TYPE	WALL MOUNT ANCHOR SELECTION		
	MILLION TYPE		
	4X4	4X6	4X8
	W4	W4	W4
	W4	W4	W4
	W4	W4	W4
G	W4	N/A	N/A
D	W4	N/A	N/A
B	W4	N/A	N/A
A	W4	W4	W4

REMARKS	BY	DATE
	NUS	02.18.20
2020 FBC UPDATE	SM	02.02.21
ANCHOR UPDATE	MS	04.07.22
GUIDE RAIL UPDATE	MS	09.12.23
2023 FBC UPDATE	MS	09.12.23

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FL22558	
DATE: 06.06.17	
DWG. BY: SM	CHK. BY: HFN
SCALE: NTS	
DWG. #: EMS003	

END MULLION SELECTION



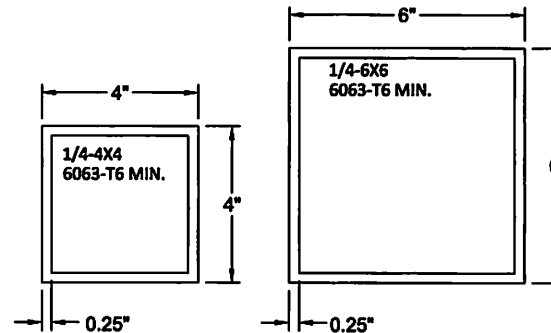
SM1 = SM2

MAXIMUM END MULLION SPANS AND DESIGN PRESSURES

TT MAX (in)	ALLOWABLE DP (PSF)	ALLOWABLE MULLION SPANS (FT)	
		4" x 4" X 0.25" 6063-T6 MIN.	6" x 6" X 0.25" 6063-T6 MIN.
72	200	12.00	12.00
84	185	12.00	12.00
96	175	12.00	12.00
108	160	11.93	12.00
120	150	11.49	12.00
132	135	11.16	12.00
144	125	10.92	12.00
168	100	10.65	12.00
204	75	10.04	12.00
216	55	9.70	12.00
240	50	10.82	12.00
264	45	11.03	12.00
286.5	40	11.41	12.00

NOTES:

- MULLIONS WERE DESIGNED BY RATIONAL ANALYSIS BASED ON THE ALUMINUM DESIGN MANUAL AND THE FLORIDA BUILDING CODE. ABOVE LOADS ARE ALSO LIMITED BY THE MAX. CAPACITY OF THE PRODUCT.
- VALUES ABOVE ARE APPLICABLE FOR END MULLIONS ONLY



ASSA

4266 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
FAX: 561-841-0852

TITLE: 55 MMER ROLL SHUTTERS
(HVHZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED

END MULLION

PREPARED BY:

BUILDING DROPS, INC.

3400 1ST MARINE CT. SUITE 2-13

MIAMI, FL 33133

PH: (305) 529-8478

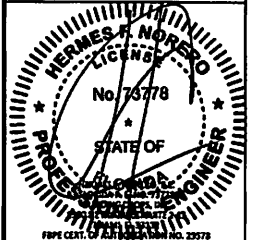
FAX: (305) 744-4758

WEB: www.bulldrop.com



REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.18.20
ANCHOR UPDATE	SM	02.08.21
GUIDE RAIL UPDATE	MS	04.07.22
2023 FBC UPDATE	MS	09.18.23

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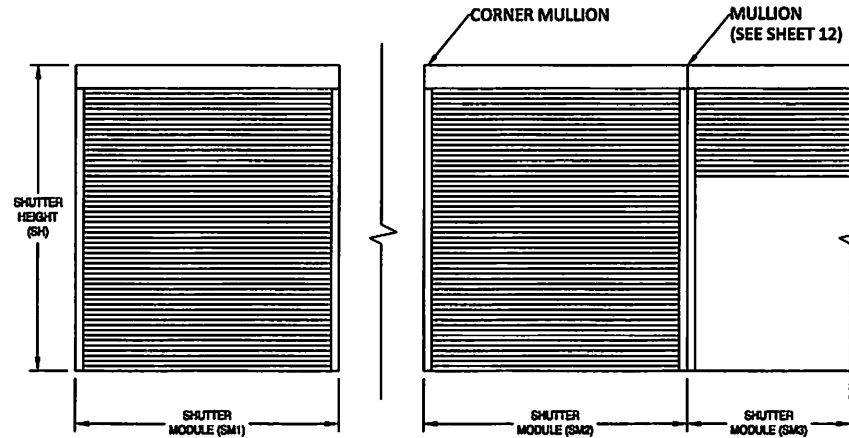
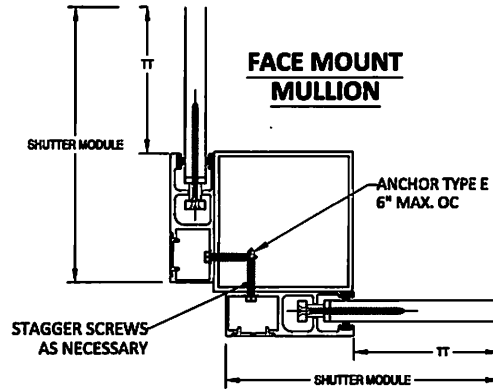


FL22558

DATE:	06.06.17
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	EMS003
SHEET:	OF 23

18

CORNER MULLION SELECTION



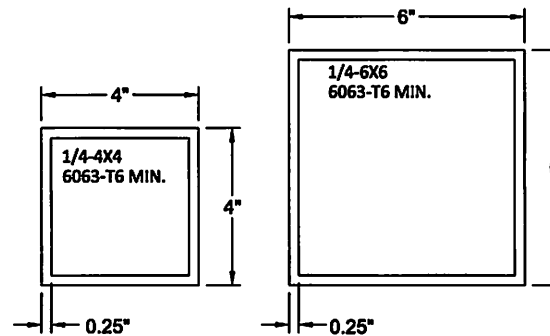
SM1 = SM2 = SM3

MAXIMUM CORNER MULLION SPANS AND DESIGN PRESSURES

TT MAX (in)	ALLOWABLE DP (PSF)	ALLOWABLE MULLION SPANS (FT)	
		4" x 4" X 0.25" 6063-T6 MIN.	6" x 6" X 0.25" 6063-T6 MIN.
72	200	10.75	12.00
84	185	9.88	12.00
96	175	9.19	12.00
108	160	8.70	12.00
120	150	8.29	12.00
132	135	8.02	12.00
144	125	7.80	12.00
168	100	7.61	11.78
204	75	7.10	10.99
216	55	6.87	10.63
240	50	7.95	12.00
264	45	8.16	12.00
285.5	40	8.56	12.00

NOTES:

- MULLIONS WERE DESIGNED BY RATIONAL ANALYSIS BASED ON THE ALUMINUM DESIGN MANUAL AND THE FLORIDA BUILDING CODE. ABOVE LOADS ARE ALSO LIMITED BY THE MAX. CAPACITY OF THE PRODUCT.
- VALUES ABOVE ARE APPLICABLE FOR CORNER MULLIONS ONLY WITH EQUAL WIDTH SHUTTERS ON BOTH SIDES, UNEQUAL SHUTTERS SHALL BE EVALUATED ON A CASE BY CASE BASIS.



ASSA

4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
FAX: 561-841-0852

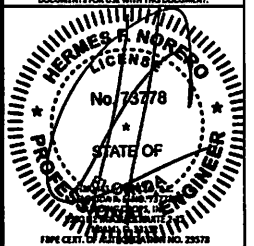
TITLE: 55 MMER ROLL SHUTTERS
(HVHZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED
CORNER MULLION

PREPARED BY:
BUILDING DROPS, INC.
1800 N. MIAMI CT. SUITE 2-15
MIAMI, FL 33132
PH: (305) 439-4478
FAX: (305) 474-4728
WEB: www.bldgdrops.com



REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.18.20
ANCHOR UPDATE	SM	02.08.21
GUIDE RAIL UPDATE	MS	04.07.22
2023 FBC UPDATE	MS	09.18.23

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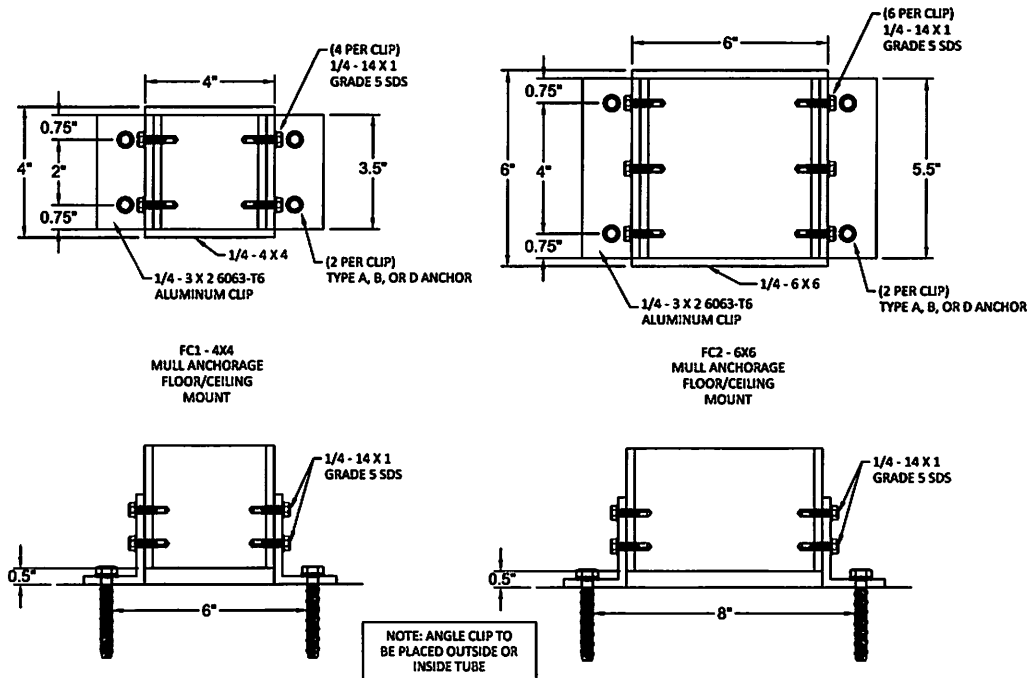


FL22558

DATE:	06.06.17
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	EMS003
SHEET:	OF 23

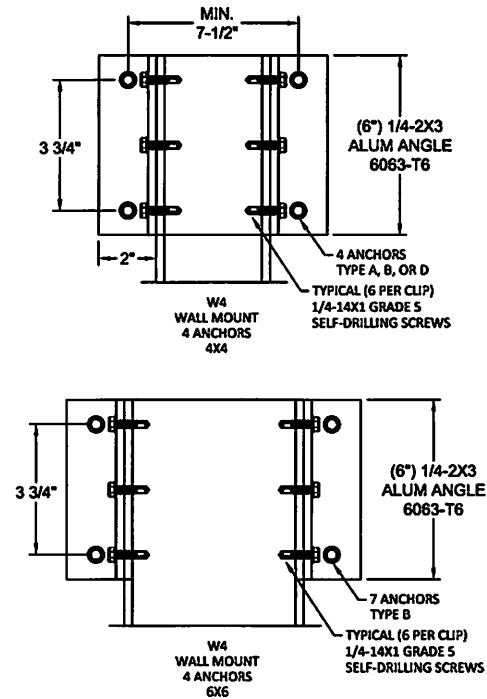
19

END MULLION AND CORNER MULLION WALL AND INSET CONNECTIONS



MULL FLOOR/CEILING MOUNT ANCHOR SELECTION				
ANCHOR TYPE	END MULLION TYPE		CORNER MULLION TYPE	
	4X4	6X6	4X4	6X6
A	FC1	FC2	FC1	FC2
B	N/A	FC2	N/A	N/A
D	N/A	FC2	N/A	N/A
G	N/A	FC2	N/A	N/A

END MULLION WALL CONNECTIONS



WALL MOUNT ANCHOR SELECTION		
ANCHOR TYPE	END MULLION TYPE	
	4X4	6X6
A	W4	W4
B	W4	W4
D	W4	W4
G	W4	W4

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	3/8" DEWALT/POWERS SCREW-BOLT+	MIN. 3000 PSI CONCRETE	3 3/4"	3 1/2"
B	5/16" ITW TAPCON	MIN. 3000 PSI CONCRETE	2 3/16"	2 1/4"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK, $f_m \geq 2000$ PSI	4"	2 1/4"
G	5/16" DEWALT/ELCO ULTRA CON	MIN. 3515 PSI CONCRETE	3 1/8"	2"

ASSA

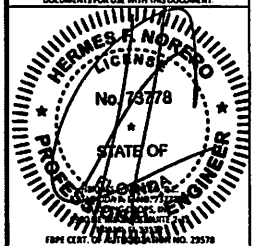
4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
FAX: 561-841-0852

TITLE: 55 MMER ROLL SHUTTERS
(HYHZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED
CORNER MULLION ANCHORS

PREPARED BY:
BUILDING DROPS, INC.
1800 NE MAHAM CT. SUITE 215
MAHAM, FL 33132
PH: (954) 399-8478
FAX: (954) 399-8478
WEB: www.bldgdrop.com

REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.18.20
ANCHOR UPDATE	SM	02.08.21
GUIDE RAIL UPDATE	MS	04.07.22
2023 FBC UPDATE	MS	09.18.23

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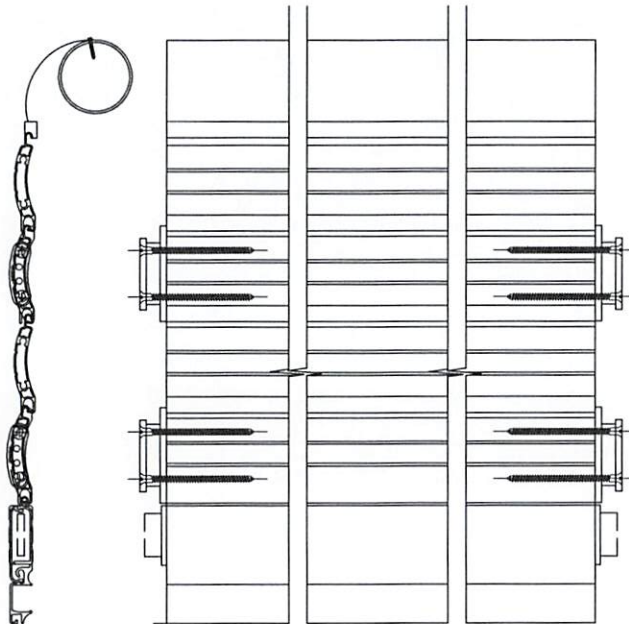


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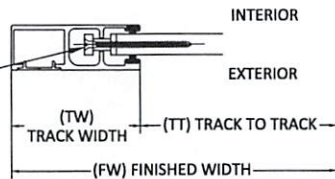
DATE:	06.06.17
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	EMS003
SHEET:	OF 23

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SLAT END RETENTION LAY-OUT



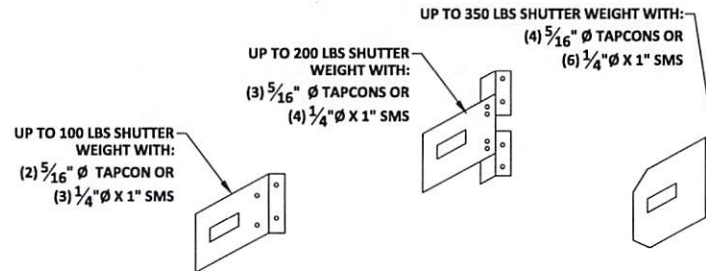
#10 X 2.5" PFH 18-8 S/S SMS, TWO (2) PER END RETENTION SLAT LOCK GUIDE, WITH A HV COATING SYSTEM AS MANUFACTURED BY AN APPROVED COATING APPLICATOR REGISTERED WITH THE AMERICAN SHUTTER SYSTEMS ASSOCIATION.



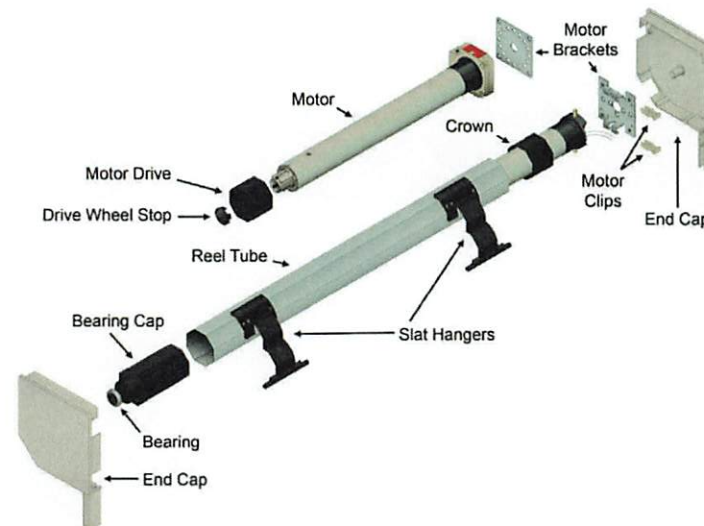
NOTES:

1. SLAT END RETENTION LOCK TO BE AT EVERY OTHER SLAT
2. INSTALLATION SCREWS SHALL BE COATED WITH A HV COATING SYSTEM AS MANUFACTURED BY AN APPROVED COATING APPLICATOR REGISTERED WITH THE AMERICAN SHUTTER SYSTEMS ASSOCIATION.

MOUNTING BRACKET



ROLL-UP MECHANISM EXPLODED



NOTES:

1. THE ROLL-UP MECHANISM (GEARS, MOTOR, SUPPORTING END PLATES) ARE NOT A PART OF THIS APPROVAL AND SHALL BE SELECTED BASED ON MANUFACTURER'S SPECIFICATIONS.
2. 60MM, 70MM, OR 94MM DIAMETER REEL TUBE PER MANUFACTURER SPECIFICATION
3. TUBULAR MOTOR MAY BE REPLACED WITH GEAR FOR MANUAL OPERATION.
4. OPTIONAL BOTTOM LOCK IS NOT REQUIRED FOR STRUCTURAL OR FORCED ENTRY RESISTANCE PERFORMANCE. FOR USE ON MAXIMUM 20' WIDE UNIT.
5. BASE SLAT IS OPTIONAL AND IS NOT REQUIRED FOR STRUCTURAL OR FORCED ENTRY RESISTANCE PERFORMANCE. FOR USE ON MAXIMUM 20' WIDE UNIT.

ASSA

4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
FAX: 561-841-0852

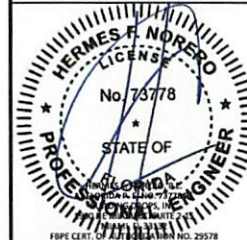
TITLE: 55 MMER ROLL SHUTTERS
(H/HZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED
SLAT END RETENTION & HOOD
ASSEMBLY

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MAMM CT. SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)344-4728
WEB: www.buildingdrops.com



REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.18.20
ANCHOR UPDATE	SM	02.08.21
GUIDE RAIL UPDATE	MS	04.07.22
2023 FBC UPDATE	MS	09.18.23

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FL22558

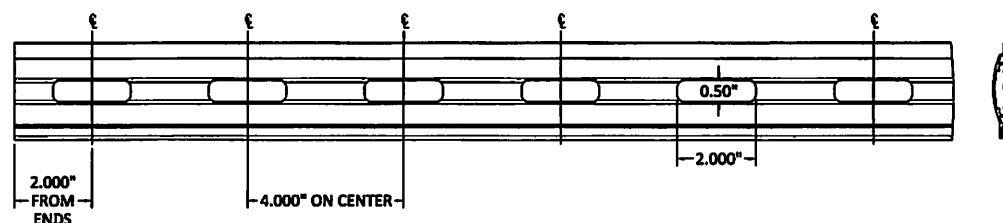
DATE:	06.06.17
DWG. BY:	SM
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	EMS003
SHEET:	OF 23

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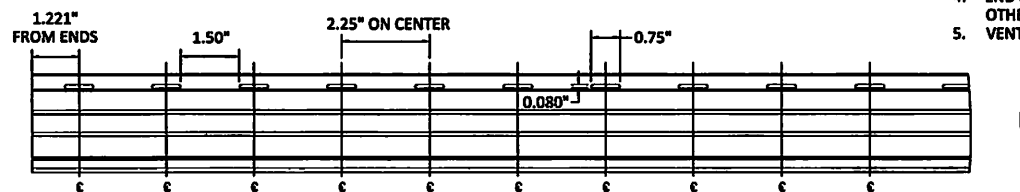
ASSA

4268 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
FAX: 561-841-0852

VIEWPORT SLAT DETAIL



VENTED SLAT DETAIL



NOTES:

1. USE OF VIEWPORT SLATS SHALL BE LIMITED TO EVERY OTHER SLAT. MAY BE USED FOR FULL DOOR HEIGHT, EXCEPT FOR WITHIN 36\" OF BOTTOM OF FRAME.
2. VIEWPORT SLATS MAY ONLY BE USED ON SLATS WITH END RETENTION.
3. VIEWPORTS USE MAKROLON POLYCARBONATE INSERT WITH CURRENT NOA.
4. END RETENTION LOCKS ARE REQUIRED EVERY OTHER SLAT.
5. VENTED OR UN-VENTED SLATS QUALIFIED.

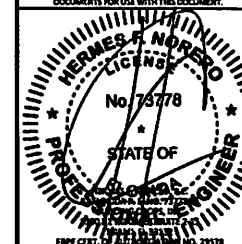
TITLE: 55 MINER ROLL SHUTTERS
(HHHZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED
VIEWPORT AND VENT DETAILS

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MANALAT, SUITE 2-15
MANALAT, FL 33422
PH: (850) 999-8478
FAX: (850) 744-4728
WEB: www.buildingdrops.com



REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.18.20
ANCHOR UPDATE	SM	02.08.21
GUIDE RAIL UPDATE	MS	04.07.22
2023 FBC UPDATE	MS	09.18.23

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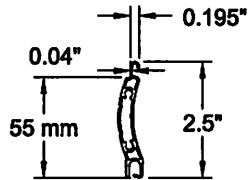
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DWG. BY: SM	CHK. BY: HFN
SCALE: NTS	
DWG. #: EMS003	
SHEET: OF 23	

22

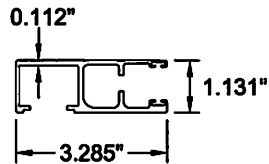
BILL OF MATERIALS

ITEM NO.	DESCRIPTION	MATERIAL
1	55 mm SLAT	6063-T6
2	LARGE GUIDE RAIL	6063-T6
2A	LARGE GUIDE RAIL - ENCLOSED	6063-T6
3	SMALL GUIDE RAIL	6063-T6
3A	SMALL GUIDE RAIL - ENCLOSED	6063-T6
4	COVER CAP	6063-T6
5	SLAT LOCK - 2 PIECE	POLYACETAL
5A	SLAT LOCK - 1 PIECE	POLYACETAL
6	BOTTOM SLAT COVER	6063-T6
7	BOTTOM SLAT	6063-T6

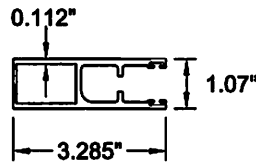
1 SLAT
6063-T6



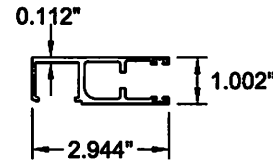
2 LARGE GUIDE RAIL
6063-T6



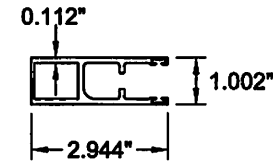
2A LARGE GUIDE RAIL
ENCLOSED
6063-T6



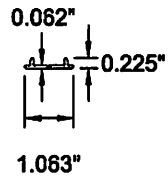
3 SMALL GUIDE RAIL
6063-T6



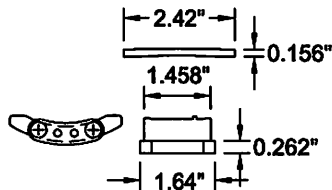
3A SMALL GUIDE RAIL
ENCLOSED
6063-T6



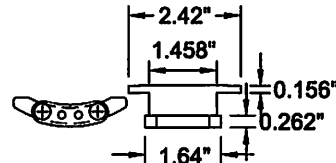
4 COVER CAP
6063-T6



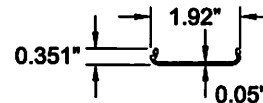
5 SLAT LOCK - 2 PIECE
POLYACETAL



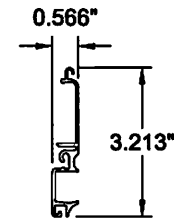
5A SLAT LOCK - 1 PIECE
POLYACETAL



6 BOTTOM SLAT
COVER



7 BOTTOM SLAT



ASSA

4258 WESTROADS DRIVE
WEST PALM BEACH, FL 33407
PH: 1-800-432-2204
FAX: 561-841-0852

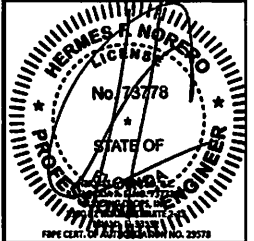
TITLE: 55 MMER ROLL SHUTTERS
(HVHZ) (IMPACT)
ESSENTIAL FACILITIES APPROVED
BOM & COMPONENTS

PREPARED BY:
BUILDING DROPS, INC.
1000 NE MIAMI CT, SUITE 2-13
MIAMI, FL 33132
PH: (305) 329-8478
FAX: (305) 329-8478
WEB: www.buildingdrops.com



REMARKS	BY	DATE
2020 FBC UPDATE	NUS	08.18.20
ANCHOR UPDATE	SM	02.08.21
GUIDE RAIL UPDATE	MS	04.07.22
2023 FBC UPDATE	MS	09.18.23

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FL22558

DATE: 06.06.17	
DWG. BY: SM	CHK. BY: HFN
SCALE: NTS	
DWG. #: EMS003	
SHEET: OF 23	

23