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ALUCORE LLC

55 MM ROLL SHUTTER

(HVHZ) (IMPACT)

GENERAL NOTES:

- 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:
 - ASTM E330-14
 - ASTM E1886-13a
 - ASTM E1996-17
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
- 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.
- 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.
- 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.
- INSTALLATION OF ROLL DOWN MAY EITHER BE INSIDE OR OUTSIDE OF THE TIE BEAM.
- ALL EXTRUSION MATERIAL: 6063-T6 ALUMINUM ALLOY, UNLESS OTHERWISE NOTED.
- DESIGN AND OPERATION OF ROLLUP 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.
- FOR DESIGN PRESSURES SEE SHEET 2. SEE SHEET 12 FOR DESIGN PRESSURES BASED ON MULLIONS.
- HOOD ASSEMBLY IS IMPACT RATED AND CAN BE PLACED INSIDE FRAME OPENING AS AN EXPOSED FEATURE.
- VENTED OR UNVENTED SLATS QUALIFIED.
- SHUTTER MANUFACTURER LABEL SHALL BE LOCATED IN A READILY VISIBLE LOCATION, PER SECTION 1703.5.

INSTALLATION NOTES:

- ONE (1) INSTALLATION ANCHOR IS REQUIRED AT EACH ANCHOR LOCATION SHOWN, UNLESS OTHERWISE STATED.
- THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION.
- INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF ±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.
- REFER TO ANCHOR SCHEDULE CHART ON SHEETS 5, 6, 7, 9 & 10 FOR ANCHOR TYPE, SUBSTRATE TYPE, EDGE DISTANCE AND MINIMUM EMBEDMENT.
- MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDE WALL FINISHES, INCLUDING BUT NOT LIMITED TO STUCCO, FOAM, BRICK VENEER, AND SIDING.
- ASSEMBLY FASTENERS SHALL HAVE A CORROSION RESISTANT COATING.
- EDGE DISTANCE IS MEASURED FROM FREE EDGE OF BLOCK OR EDGE OF MORTAR JOINT INTO FACE SHELL OF BLOCK.
- 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.
- INSTALLATION ANCHOR CAPACITIES FOR PRODUCTS HEREIN ARE BASED ON SUBSTRATE MATERIALS WITH THE FOLLOWING PROPERTIES:
 - WOOD - MINIMUM SPECIFIC GRAVITY OF 0.55.
 - CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 2700 PSI.
 - MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MIN 2000 PSI.
 - STEEL - MINIMUM A36, $\frac{3}{16}$ " THICKNESS
 - ALUMINUM - MINIMUM 6063-T6 $\frac{1}{4}$ " THICKNESS.

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TITLE: 55 MM ROLL SHUTTER (HVHZ) (IMPACT)

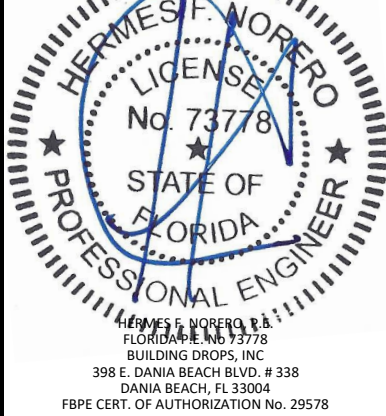
GENERAL & INSTALLATION NOTES

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TABLE 1 - MAX ALLOWABLE DESIGN PRESSURE

W/ END RETENTION		
TT MAX	POSITIVE	NEGATIVE
286.5	40.0	40.0
248.1	55.0	55.0
233.9	60.0	60.0
221.9	65.0	65.0
204.0	75.0	75.0
180.0	95.0	95.0
144.0	130.0	130.0
115.2	155.0	155.0
106.7	165.0	165.0
96.0	175.0	175.0
90.0	180.0	180.0
82.3	190.0	190.0
77.8	195.0	195.0
72.0	200.0	200.0

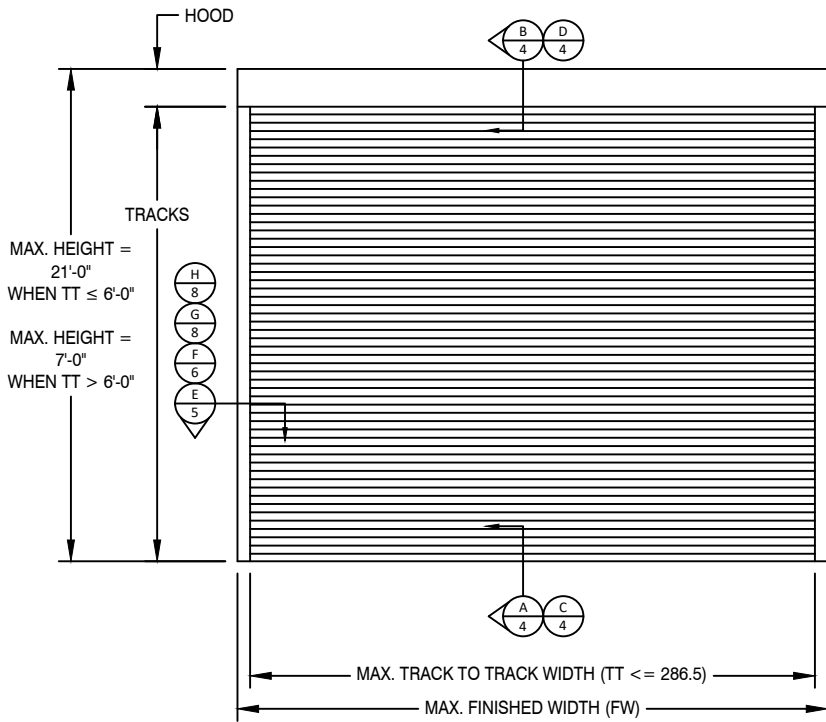
NOTES:

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.

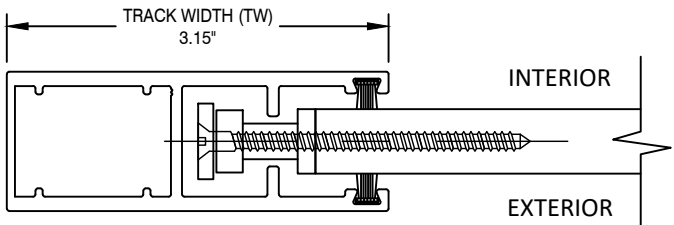
DESIGN PRESSURE RATINGS



LOAD (PSF)	TABLE 2: GLASS SEPARATION (GS) INCHES													
	TRACK TO TRACK (IN)													
	72	77.838	82.286	90	96	106.67	115.2	144	180	204	221.92	233.93	248.12	286.5
40	2.25	2.25	2.50	2.50	2.50	2.75	2.75	3.25	4.50	5.75	6.25	6.75	7.50	10.25
55	2.75	3.00	3.00	3.00	3.25	3.25	3.50	4.25	5.75	7.50	8.25	9.00	10.00	-
60	3.00	3.00	3.25	3.25	3.50	3.50	3.75	4.50	6.25	8.25	9.00	9.75	-	-
65	3.25	3.25	3.25	3.50	3.50	3.75	4.00	5.00	6.75	8.75	9.75	-	-	-
75	3.50	3.50	3.75	3.75	4.00	4.25	4.50	5.50	7.50	10.00	-	-	-	-
95	4.25	4.25	4.50	4.75	4.75	5.25	5.50	6.75	9.25	-	-	-	-	-
130	5.50	5.50	5.75	6.00	6.25	6.75	7.25	9.00	-	-	-	-	-	-
155	6.25	6.50	6.75	7.00	7.25	8.00	8.25	-	-	-	-	-	-	-
165	6.75	7.00	7.00	7.50	7.75	8.25	-	-	-	-	-	-	-	-
175	7.00	7.25	7.50	7.75	8.25	-	-	-	-	-	-	-	-	-
180	7.25	7.50	7.75	8.00	-	-	-	-	-	-	-	-	-	-
190	7.50	7.75	8.00	-	-	-	-	-	-	-	-	-	-	-
195	7.75	8.00	-	-	-	-	-	-	-	-	-	-	-	-
200	8.00	-	-	-	-	-	-	-	-	-	-	-	-	-

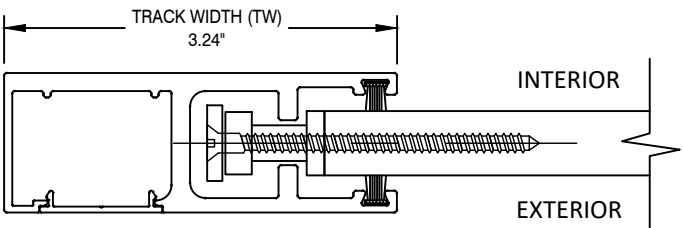
NOTES:

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



SOLID55ER TRACK WITH END RETENTION

SECTION DETAILS SHOW SOLID 55ER TRACK IS ALSO QUALIFIED FOR ANY MOUNTING CONDITION.



SNAP55ER TRACK WITH END RETENTION

SECTION DETAILS SHOW SNAP55ER TRACK IS ALSO QUALIFIED FOR ANY MOUNTING CONDITION.



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ELEVATION & DESIGN PRESSURE TABLE

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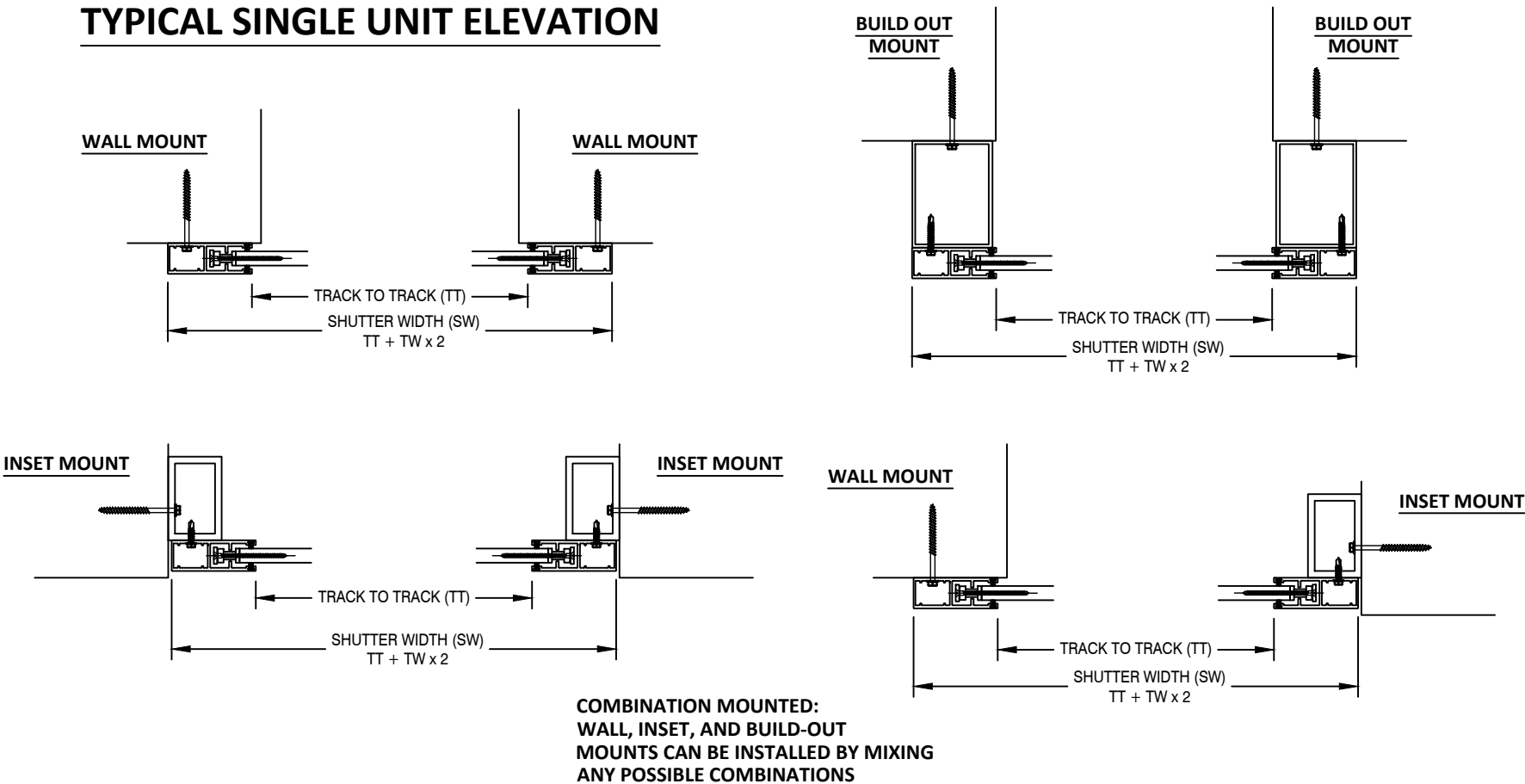
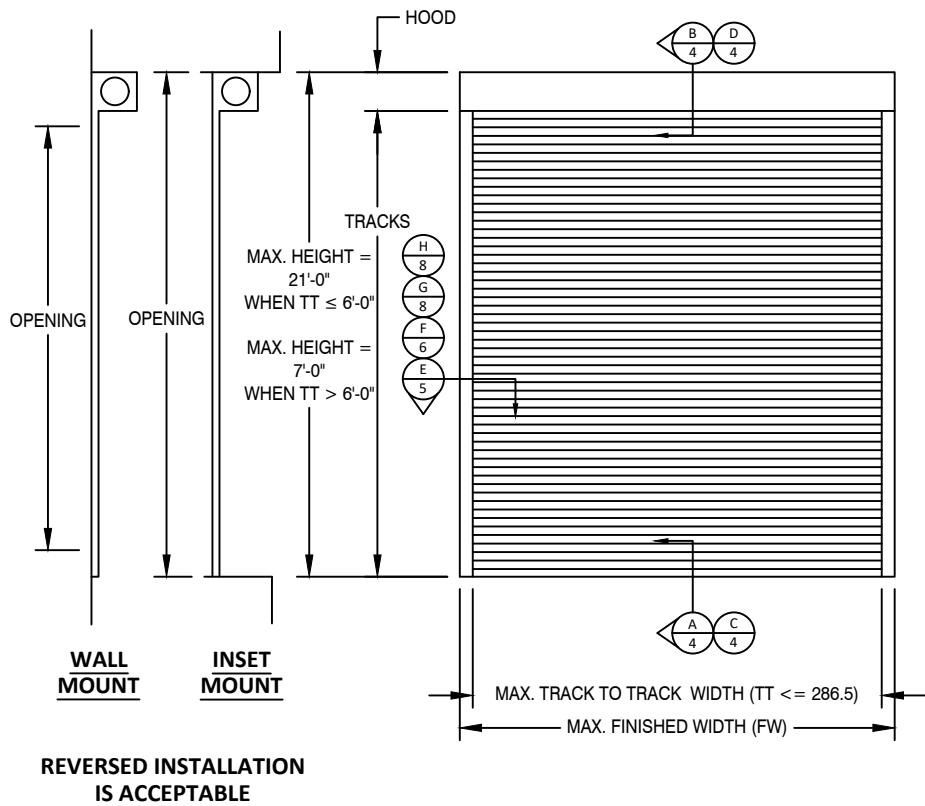
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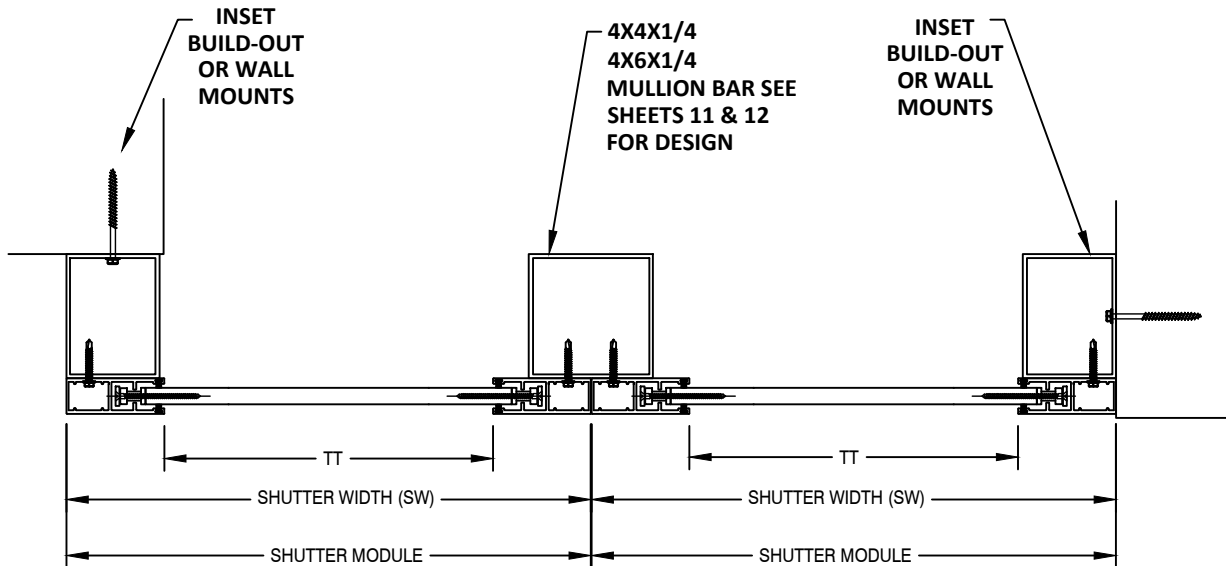
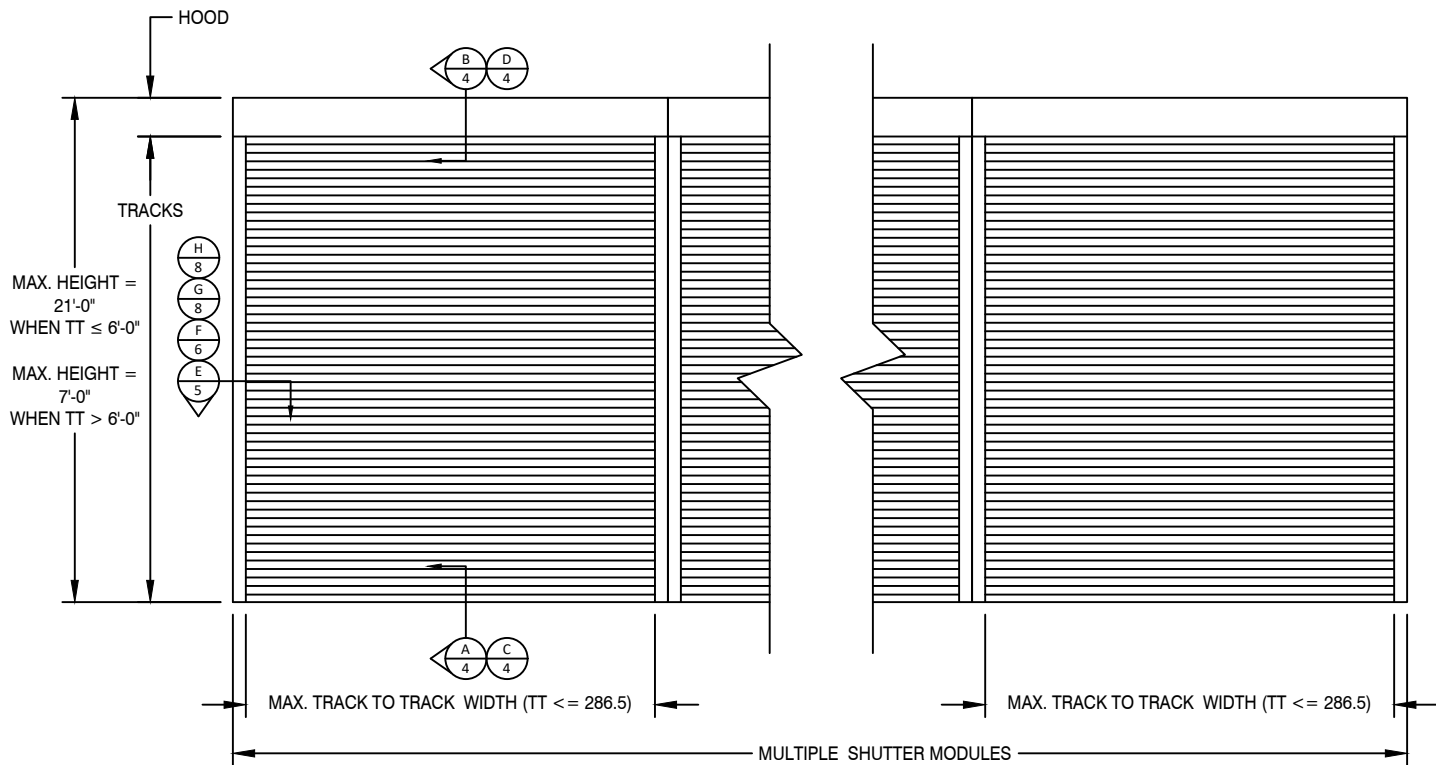
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TYPICAL SINGLE UNIT ELEVATION



TYPICAL MULTIPLE UNITS ELEVATION



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TYPICAL ELEVATION & MOUNTING DETAILS

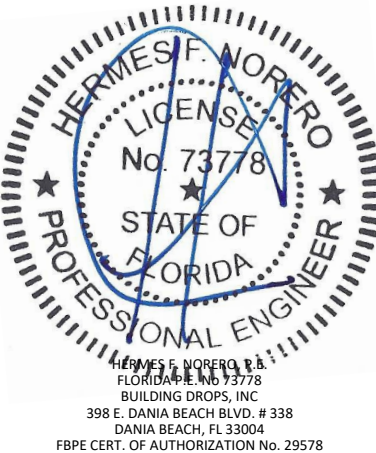
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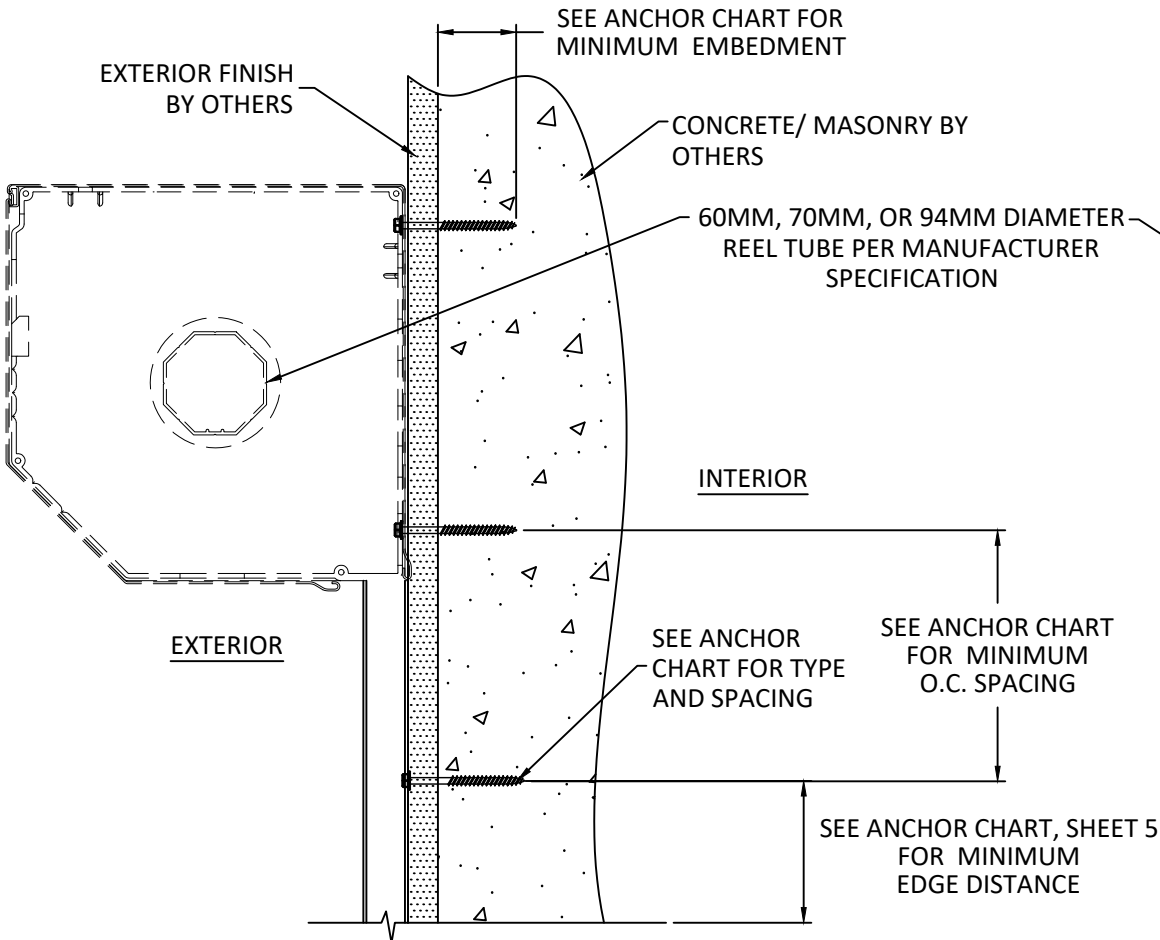
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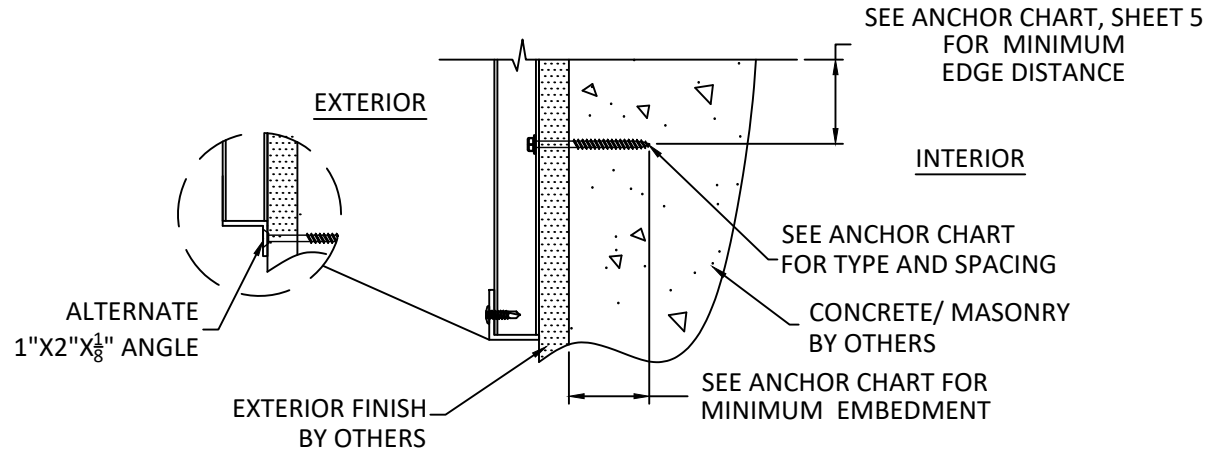
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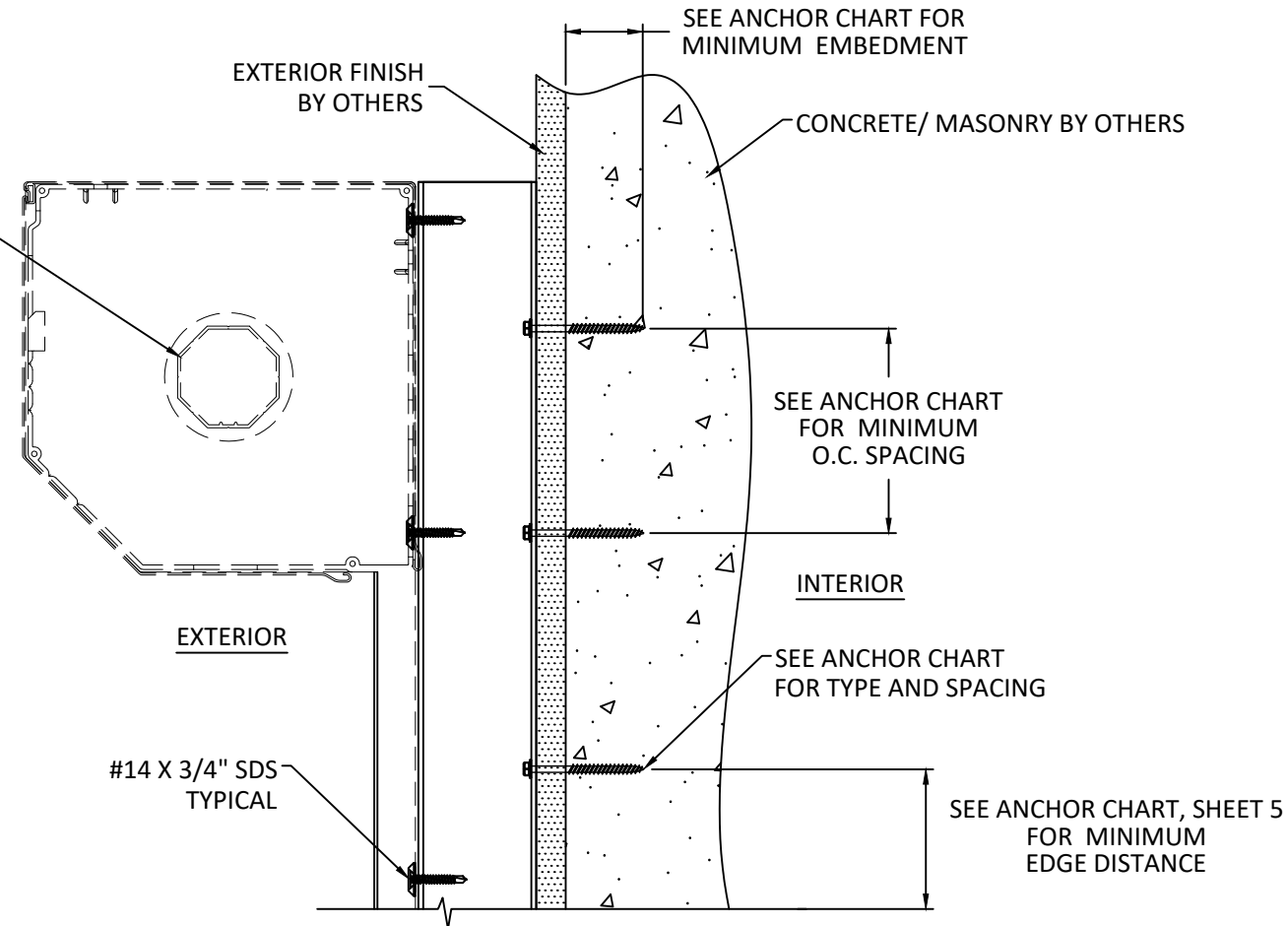
TYPICAL VERTICAL SECTIONS



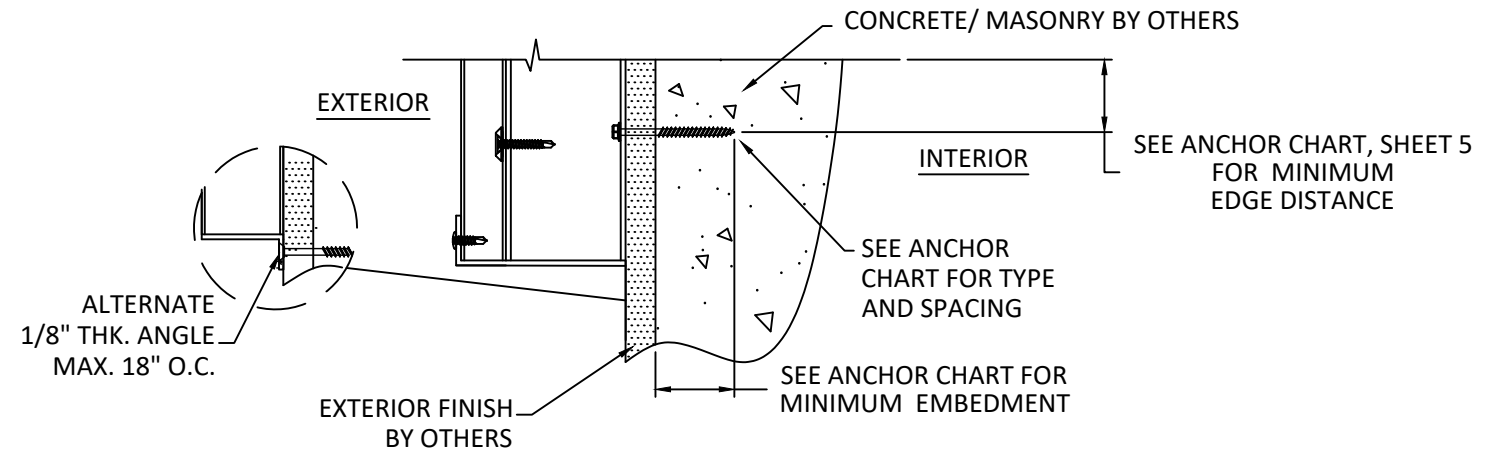
B
4 **VERTICAL SECTION**
MASONRY/CONCRETE SUBSTRATE - WALL MOUNT
SEE CHARTS ON SHEETS 5,6 & 7 FOR OTHER SUBSTRATES



A
4 **VERTICAL SECTION**
MASONRY/CONCRETE SUBSTRATE - WALL MOUNT
SEE CHARTS ON SHEETS 5,6 & 7 FOR OTHER SUBSTRATES



D
4 **VERTICAL SECTION**
MASONRY/CONCRETE SUBSTRATE - BUILDOUT
SEE CHARTS ON SHEETS 5,6 & 7 FOR OTHER SUBSTRATES



C
4 **VERTICAL SECTION**
MASONRY/CONCRETE SUBSTRATE - BUILDOUT
SEE CHARTS ON SHEETS 5,6 & 7 FOR OTHER SUBSTRATES

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



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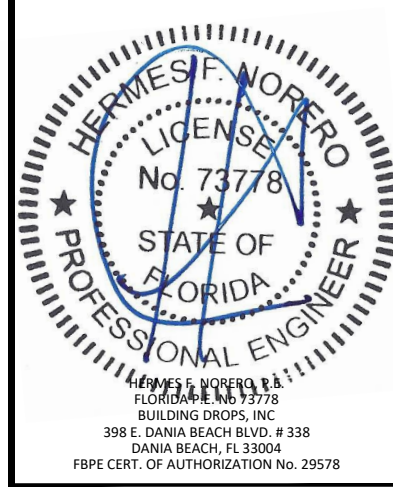
VERTICAL SECTIONS

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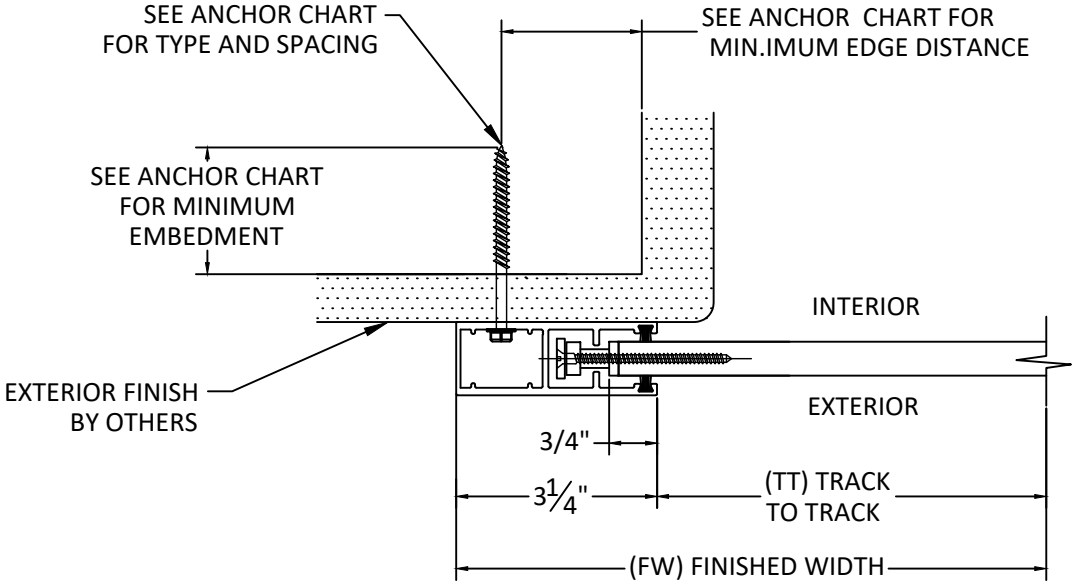
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TYPICAL HORIZONTAL SECTIONS
WALL MOUNT

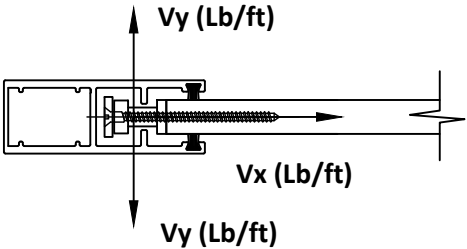
TABLE 3 - ANCHOR SPACING				ANCHOR TYPE & SPACING WALL - MOUNT 1						ANCHOR TYPE & SPACING 2X4 BO - MOUNT 2					
TT	PD	Vx	Vy	A	B	C	D	E	F	A	B	C	D	E	F
72	40	0.0	10.9	5	5	5	5	5	5	5	5	5	5	5	5
	45	0.0	12.3	5	5	5	5	5	5	5	5	5	5	5	5
	50	0.0	13.6	5	5	5	5	5	5	5	5	5	5	5	5
	55	0.0	15.0	5	5	5	5	5	5	5	5	5	5	5	5
	60	0.0	16.4	5	5	5	5	5	5	5	5	5	5	5	5
	65	0.0	17.7	5	5	5	5	5	5	5	5	5	5	5	5
	70	0.0	19.1	5	5	5	5	5	5	5	5	5	5	5	5
	75	0.0	20.5	5	5	5	5	5	5	5	5	5	5	5	5
	80	0.0	21.8	5	5	5	5	5	5	5	5	5	5	5	5
	85	0.0	23.2	5	5	5	5	5	5	5	5	5	5	5	5
	90	0.0	24.6	5	5	5	5	5	5	5	5	5	5	5	5
	95	0.0	25.9	5	5	5	5	5	5	5	5	-	5	4	4
	100	0.0	27.3	5	5	5	5	5	5	5	5	-	5	4	4
	105	152.9	28.6	5	5	3	5	5	5	5	5	-	5	4	4
	110	152.9	30.0	5	5	3	5	5	5	5	5	-	5	4	4
	115	152.9	31.4	5	5	3	5	5	5	5	5	-	5	4	4
	120	152.9	32.7	5	5	3	5	5	5	5	5	-	5	4	4
	125	152.9	34.1	5	5	3	5	5	5	5	5	-	5	4	4
	130	152.9	35.5	5	5	3	5	5	5	5	5	-	5	4	4
	135	152.9	36.8	5	5	3	5	5	5	5	5	-	4	4	4
78	140	152.9	38.2	5	5	3	5	5	5	5	5	-	4	4	4
	145	152.9	39.6	5	5	3	5	5	5	5	5	-	4	4	4
	150	152.9	40.9	5	5	3	5	5	5	5	5	-	4	4	4
	155	152.9	42.3	5	5	3	5	5	5	5	5	-	4	4	4
	160	152.9	43.7	5	5	3	5	5	5	5	5	-	4	4	4
	165	152.9	45.0	5	5	3	5	5	5	5	5	-	4	4	4
	170	152.9	46.4	5	5	3	5	5	5	5	5	-	4	4	4
	175	152.9	47.7	5	5	3	5	5	5	5	5	-	4	4	4
	180	152.9	49.1	5	5	3	5	5	5	5	5	-	4	4	4
	185	152.9	50.5	5	5	3	5	5	5	5	5	-	4	4	4
	190	152.9	51.8	5	5	3	5	5	5	5	5	-	4	4	4
	195	152.9	53.2	5	5	3	5	5	5	5	5	-	4	4	4
	200	152.9	54.6	5	5	3	5	5	5	5	5	-	4	4	4
	40	0.0	11.7	5	5	5	5	5	5	5	5	5	5	5	5
	45	0.0	13.2	5	5	5	5	5	5	5	5	5	5	5	5
	50	0.0	14.7	5	5	5	5	5	5	5	5	5	5	5	5
	55	0.0	16.1	5	5	5	5	5	5	5	5	5	5	5	5
	60	0.0	17.6	5	5	5	5	5	5	5	5	5	5	5	5
	65	0.0	19.1	5	5	5	5	5	5	5	5	5	5	5	5
	70	0.0	20.5	5	5	5	5	5	5	5	5	5	5	5	5
	75	0.0	22.0	5	5	5	5	5	5	5	5	5	5	5	5
	80	0.0	23.4	5	5	5	5	5	5	5	5	5	5	5	5
	85	0.0	24.9	5	5	5	5	5	5	5	5	5	5	5	5
	90	0.0	26.4	5	5	5	5	5	5	5	5	5	5	5	5
	95	0.0	27.8	5	5	5	5	5	5	5	5	5	5	5	5
	100	0.0	29.3	5	5	5	5	5	5	5	5	5	5	5	5
	105	169.4	30.8	5	5	3	5	5	5	5	4	-	3	3	3
	110	169.4	32.2	5	5	3	5	5	5	5	4	-	3	3	3
	115	169.4	33.7	5	5	3	5	5	5	5	4	-	3	3	3
	120	169.4	35.2	5	5	3	5	5	5	5	4	-	3	3	3
	125	169.4	36.6	5	5	3	5	5	5	5	4	-	3	3	3
	130	169.4	38.1	5	5	3	5	5	5	5	4	-	3	3	3
	135	169.4	39.6	5	5	3	5	5	5	5	4	-	3	3	3
	140	169.4	41.0	5	5	3	5	5	5	5	4	-	3	3	3
	145	169.4	42.5	5	5	3	5	5	5	5	4	-	3	3	3
	150	169.4	44.0	5	5	3	5	5	5	5	4	-	3	3	3
	155	169.4	45.4	5	5	3	5	5	5	5	4	-	3	3	3
	160	169.4	46.9	5	5	3	5	5	5	5	4	-	3	3	3
	165	169.4	48.4	5	5	3	5	5	5	5	4	-	3	3	3
	170	169.4	49.8	5	5	3	5	5	5	5	4	-	3	3	3
	175	169.4	51.3	5	5	3	5	5	5	5	4	-	3	3	3
	180	169.4	52.8	5	5	3	5	5	5	5	4	-	3	3	3
	185	169.4	54.2	5	5	3	5	5	5	5	4	-	3	3	3
	190	169.4	55.7	5	5	3	5	5	5	5	4	-	3	3	3
	195	169.4	57.2	5	5	3	5	5	5	5	4	-	3	3	3



E
5

HORIZONTAL SECTION

MOUNT TYPE 1
WALL MOUNT
*WITH END RETENTION



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

ANCHOR SCHEDULE:

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. 3513 PSI CONCRETE	3 1/8"	2"
C	3/8" POWERS WEGDE BOLT	GROUT FILLED C-90 BLOCK	3 3/4"	3 1/2"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK	4"	2 1/4"
E	#14 ELCO DRIL-FLEX SELF DRILLING SCREW	MIN 1/4" 6063-T6 ALUM.	3/8"	3 threads penetration
		A36 3/16" STEEL	1/2"	
F	5/16" DEWALT/ELCO Ultracon	MIN. SG = 0.55 WOOD	1 9/16"	2"



ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

TITLE: 55 MM ROLL SHUTTER
(HVHZ) (IMPACT)

HORIZONTAL SECTIONS,
WALL MOUNT & BUILD OUT
ANCHOR SPACING

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004

PH: (954)399-8478
FAX: (954)744-4738

WEB: www.buildingdrops.com



REMARKS	BY	DATE
PRODUCT UPDATES	SH	04.04.22

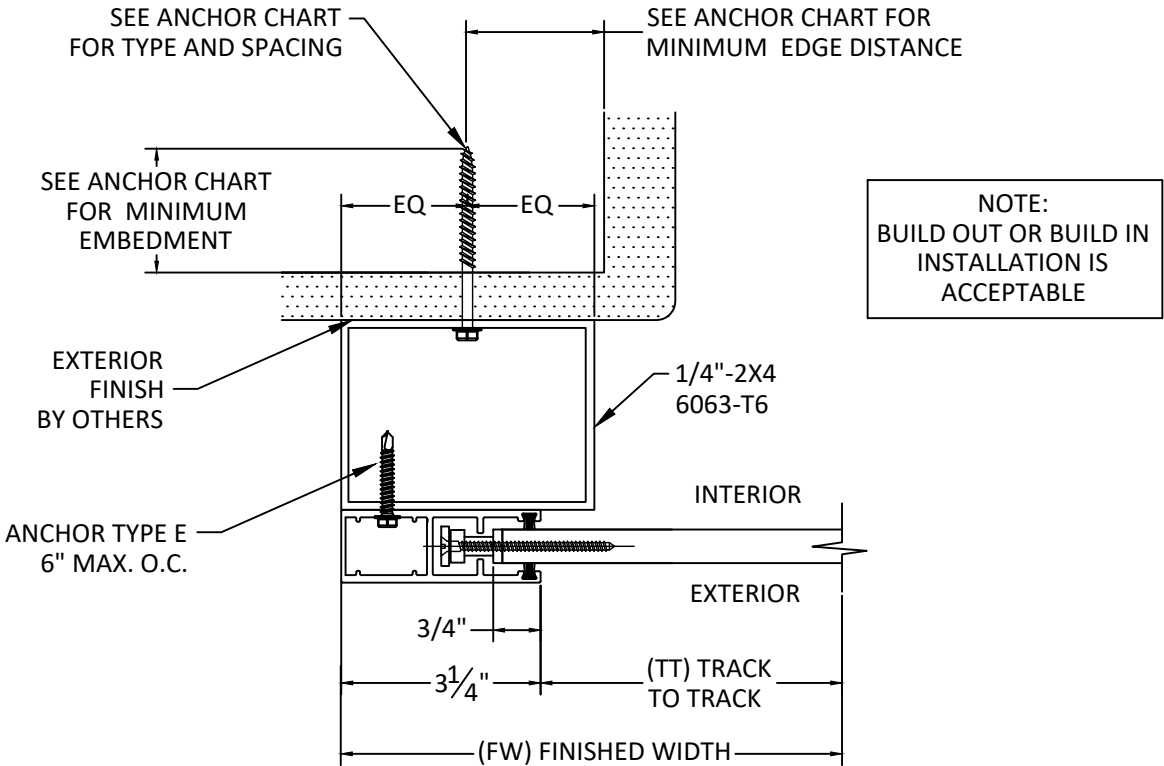
THE INSTALLATION DETAILS DESCRIBED HEREIN ARE GENERIC
AND MAY NOT REFLECT ACTUAL CONDITIONS FOR A SPECIFIC
SITE. IF SITE CONDITIONS CAUSE INSTALLATION TO DEVIATE
FROM THE REQUIREMENTS DETAILED HEREIN, A LICENSED
ENGINEER OR ARCHITECT SHALL PREPARE SITE SPECIFIC
DOCUMENTS FOR USE WITH THIS DOCUMENT.



FL#	FL35248
DATE:	08.31.20
DWG. BY:	MS
CHK. BY:	HFN
SCALE:	NTS
DWG. #:	ALC001
SHEET:	5
	OF 17

TABLE 3 - ANCHOR SPACING				ANCHOR TYPE & SPACING WALL - MOUNT 1						ANCHOR TYPE & SPACING 2X4 BO - MOUNT 2					
TT	PD	Vx	Vy	A	B	C	D	E	F	A	B	C	D	E	F
82	40	0.0	12.3	5	5	5	5	5	5	5	5	5	5	5	5
	45	0.0	13.9	5	5	5	5	5	5	5	5	5	5	5	5
	50	0.0	15.4	5	5	5	5	5	5	5	5	5	5	5	5
	55	0.0	17.0	5	5	5	5	5	5	5	5	5	5	5	5
	60	0.0	18.5	5	5	5	5	5	5	5	5	5	5	5	5
	65	0.0	20.1	5	5	5	5	5	5	5	5	5	5	5	5
	70	0.0	21.6	5	5	5	5	5	5	5	5	5	5	5	5
	75	0.0	23.1	5	5	5	5	5	5	5	5	5	5	5	5
	80	0.0	24.7	5	5	5	5	5	5	5	5	5	5	5	5
	85	0.0	26.2	5	5	5	5	5	5	5	5	5	5	5	5
	90	0.0	27.8	5	5	5	5	5	5	5	5	5	5	5	5
	95	0.0	29.3	5	5	5	5	5	5	5	5	5	5	5	5
	100	0.0	30.9	5	5	5	5	5	5	5	5	5	5	5	5
	105	181.8	32.4	5	5	-	5	5	5	5	4	-	3	3	3
	110	181.8	33.9	5	5	-	5	5	5	5	4	-	3	3	3
	115	181.8	35.5	5	5	-	5	5	5	5	4	-	3	3	3
	120	181.8	37.0	5	5	-	5	5	5	5	3	-	3	3	3
	125	181.8	38.6	5	5	-	5	5	5	5	3	-	3	3	3
	130	181.8	40.1	5	5	-	5	5	5	5	3	-	3	3	3
	135	181.8	41.7	5	5	-	5	5	5	5	3	-	3	3	3
	140	181.8	43.2	5	5	-	5	5	5	5	3	-	3	3	-
90	145	181.8	44.7	5	5	-	5	5	5	5	3	-	3	3	-
	150	181.8	46.3	5	5	-	5	5	5	5	3	-	3	3	-
	155	181.8	47.8	5	5	-	5	5	5	5	3	-	3	3	-
	160	181.8	49.4	5	5	-	5	5	5	5	3	-	3	-	-
	165	181.8	50.9	5	5	-	5	5	5	5	3	-	3	-	-
	170	181.8	52.4	5	5	-	5	5	5	5	3	-	3	-	-
	175	181.8	54.0	5	5	-	5	5	5	5	3	-	3	-	-
	180	181.8	55.5	5	5	-	5	5	5	5	3	-	3	-	-
	185	181.8	57.1	5	5	-	5	5	5	5	3	-	3	-	-
	190	181.8	58.6	5	5	-	5	5	5	5	3	-	3	-	-
	40	0.0	13.4	5	5	5	5	5	5	5	5	5	5	5	5
	45	0.0	15.1	5	5	5	5	5	5	5	5	5	5	5	5
	50	0.0	16.8	5	5	5	5	5	5	5	5	5	5	5	5
	55	0.0	18.4	5	5	5	5	5	5	5	5	5	5	5	5
	60	0.0	20.1	5	5	5	5	5	5	5	5	5	5	5	5
	65	0.0	21.8	5	5	5	5	5	5	5	5	5	5	5	5
	70	0.0	23.5	5	5	5	5	5	5	5	5	5	5	5	5
	75	0.0	25.1	5	5	5	5	5	5	5	5	5	5	5	5
	80	0.0	26.8	5	5	5	5	5	5	5	5	5	5	5	5
	85	0.0	28.5	5	5	5	5	5	5	5	5	5	5	5	5
	90	0.0	30.2	5	5	5	5	5	5	5	5	5	5	5	5
	95	0.0	31.9	5	5	5	5	5	5	5	5	5	5	5	5
	100	0.0	33.5	5	5	5	5	5	5	5	5	5	5	5	5
	105	203.1	35.2	5	5	-	5	5	5	5	3	-	-	-	-
	110	203.1	36.9	5	5	-	5	5	5	5	3	-	-	-	-
	115	203.1	38.6	5	5	-	5	5	5	5	3	-	-	-	-
	120	203.1	40.2	5	5	-	5	5	5	5	3	-	-	-	-
	125	203.1	41.9	5	5	-	5	5	5	5	3	-	-	-	-
	130	203.1	43.6	5	5	-	5	5	5	5	3	-	-	-	-
	135	203.1	45.3	5	5	-	5	5	5	5	3	-	-	-	-
	140	203.1	46.9	5	5	-	5	5	5	5	3	-	-	-	-
	145	203.1	48.6	5	5	-	5	5	5	5	3	-	-	-	-
	150	203.1	50.3	5	5	-	5	5	5	5	3	-	-	-	-
	155	203.1	52.0	5	5	-	5	5	5	5	3	-	-	-	-
	160	203.1	53.7	5	5	-	5	5	5	5	3	-	-	-	-
	165	203.1	55.3	5	5	-	5	5	5	5	3	-	-	-	-
	170	203.1	57.0	5	5	-	5	5	5	5	3	-	-	-	-
	175	203.1	58.7	5	5	-	5	5	5	5	3	-	-	-	-
	180	203.1	60.4	5	5	-	5	5	5	5	3	-	-	-	-

TYPICAL HORIZONTAL SECTIONS
BUILD OUT



F
6 HORIZONTAL SECTION
MOUNT TYPE 2
BUILD-OUT MOUNT
*WITH END RETENTION

ANCHOR SCHEDULE:

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. 3513 PSI CONCRETE	3 1/8"	2"
C	3/8" POWERS WEGDE BOLT	GROUT FILLED C-90 BLOCK	3 3/4"	3 1/2"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK	4"	2 1/4"
E	#14 ELCO DRIL-FLEX SELF DRILLING SCREW	MIN 1/4" 6063-T6 ALUM.	3/8"	3 threads penetration
		A36 3/16" STEEL	1/2"	
F	5/16" DEWALT/ELCO Ultracon	MIN. SG = 0.55 WOOD	1 9/16"	2"



ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

TITLE: 55 MM ROLL SHUTTER
(HVHZ) (IMPACT)
HORIZONTAL SECTIONS,
WALL MOUNT & BUILD OUT
ANCHOR SPACING

PREPARED BY:
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
PRODUCT UPDATES	SH	04.04.22

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FL# **FL35248**

DATE: **08.31.20**

DWG. BY: **MS** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **ALC001**

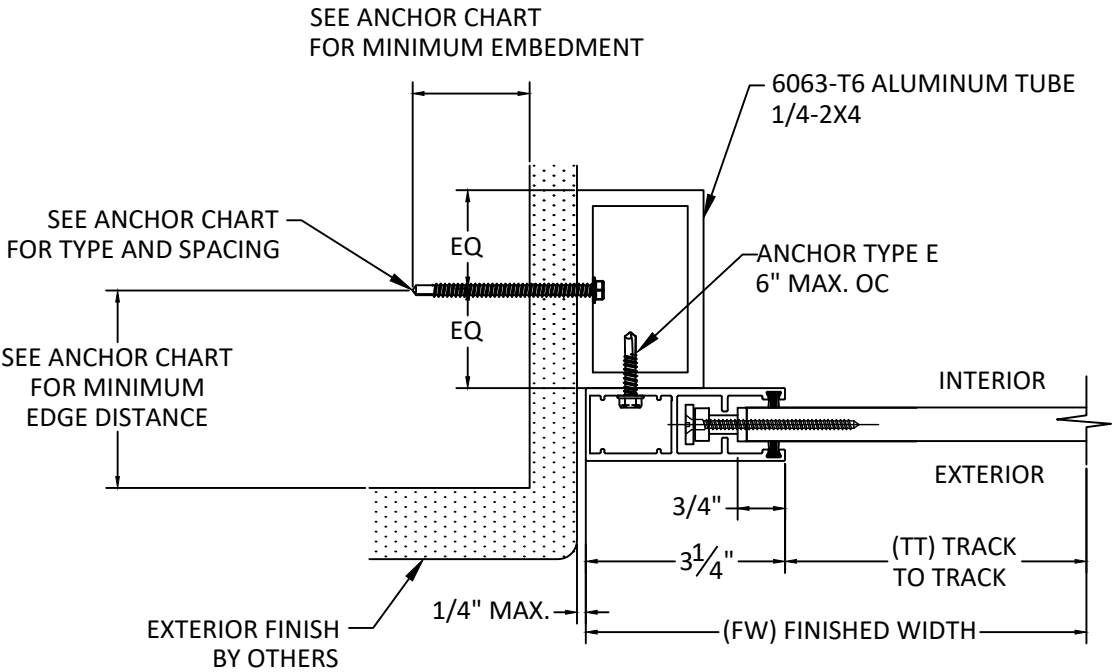
SHEET:
6
OF 17

TABLE 3 - ANCHOR SPACING				ANCHOR TYPE & SPACING WALL - MOUNT 1						ANCHOR TYPE & SPACING 2X4 BO - MOUNT 2					
TT	PD	Vx	Vy	A	B	C	D	E	F	A	B	C	D	E	F
96	40	0.0	13.4	S	S	S	S	S	S	S	S	S	S	S	S
	45	0.0	15.1	S	S	S	S	S	S	S	S	S	S	S	S
	50	0.0	16.8	S	S	S	S	S	S	S	S	S	S	S	S
	55	0.0	18.4	S	S	S	S	S	S	S	S	S	S	S	S
	60	0.0	20.1	S	S	S	S	S	S	S	S	S	S	S	S
	65	0.0	21.8	S	S	S	S	S	S	S	S	S	S	S	S
	70	0.0	23.5	S	S	S	S	S	S	S	S	S	S	S	S
	75	0.0	25.1	S	S	S	S	S	S	S	S	S	S	S	S
	80	0.0	26.8	S	S	S	S	S	S	S	S	S	S	S	S
	85	0.0	28.5	S	S	S	S	S	S	S	S	S	S	S	S
	90	0.0	30.2	S	S	S	S	S	S	S	S	S	S	S	S
	95	0.0	31.9	S	S	S	S	S	S	S	S	S	S	S	S
	100	194.3	33.5	S	S	-	S	S	S	S	3	-	-	-	-
	105	194.3	35.2	S	S	-	S	S	S	S	3	-	-	-	-
	110	194.3	36.9	S	S	-	S	S	S	S	3	-	-	-	-
	115	194.3	38.6	S	S	-	S	S	S	S	3	-	-	-	-
	120	194.3	40.2	S	S	-	S	S	S	S	3	-	-	-	-
	125	194.3	41.9	S	S	-	S	S	S	S	3	-	-	-	-
	130	194.3	43.6	S	S	-	S	S	S	S	3	-	-	-	-
	135	194.3	45.3	S	S	-	S	S	S	S	3	-	-	-	-
	140	194.3	46.9	S	S	-	S	S	S	S	3	-	-	-	-
	145	194.3	48.6	S	S	-	S	S	S	S	3	-	-	-	-
	150	194.3	50.3	S	S	-	S	S	S	S	3	-	-	-	-
	155	194.3	52.0	S	S	-	S	S	S	S	3	-	-	-	-
	160	194.3	53.7	S	S	-	S	S	S	S	3	-	-	-	-
	165	194.3	55.3	S	S	-	S	S	S	S	3	-	-	-	-
	170	194.3	57.0	S	S	-	S	S	S	S	3	-	-	-	-
	175	194.3	58.7	S	S	-	S	S	S	S	3	-	-	-	-
107	40	0.0	15.7	S	S	S	S	S	S	S	S	S	S	S	S
	45	0.0	17.7	S	S	S	S	S	S	S	S	S	S	S	S
	50	0.0	19.7	S	S	S	S	S	S	S	S	S	S	S	S
	55	0.0	21.6	S	S	S	S	S	S	S	S	S	S	S	S
	60	0.0	23.6	S	S	S	S	S	S	S	S	S	S	S	S
	65	0.0	25.6	S	S	S	S	S	S	S	S	S	S	S	S
	70	0.0	27.5	S	S	S	S	S	S	S	S	S	S	S	S
	75	0.0	29.5	S	S	S	S	S	S	S	S	S	S	S	S
	80	0.0	31.5	S	S	S	S	S	S	S	S	S	S	S	S
	85	0.0	33.4	S	S	S	S	S	S	S	S	S	S	S	S
	90	0.0	35.4	S	S	S	S	S	S	S	S	S	S	S	S
	95	0.0	37.4	S	S	S	S	S	S	S	S	S	S	S	S
	100	246.3	39.3	S	S	-	4	4	3	S	-	-	-	-	-
	105	246.3	41.3	S	S	-	4	4	3	S	-	-	-	-	-
	110	246.3	43.3	S	S	-	4	4	3	S	-	-	-	-	-
	115	246.3	45.2	S	S	-	4	4	3	S	-	-	-	-	-
	120	246.3	47.2	S	S	-	4	4	3	S	-	-	-	-	-
	125	246.3	49.1	S	S	-	4	4	3	S	-	-	-	-	-
	130	246.3	51.1	S	S	-	4	4	3	S	-	-	-	-	-
	135	246.3	53.1	S	S	-	4	4	3	S	-	-	-	-	-
	140	246.3	55.0	S	S	-	4	4	3	S	-	-	-	-	-
	145	246.3	57.0	S	S	-	4	4	3	S	-	-	-	-	-
	150	246.3	59.0	S	S	-	4	4	3	S	-	-	-	-	-
	155	246.3	60.9	S	S	-	4	4	3	S	-	-	-	-	-
	160	246.3	62.9	S	S	-	4	4	3	S	-	-	-	-	-
	165	246.3	64.9	S	S	-	4	4	3	S	-	-	-	-	-
115	40	0.0	16.9	S	S	S	S	S	S	S	S	S	S	S	S
	45	0.0	19.0	S	S	S	S	S	S	S	S	S	S	S	S
	50	0.0	21.1	S	S	S	S	S	S	S	S	S	S	S	S
	55	0.0	23.3	S	S	S	S	S	S	S	S	S	S	S	S
	60	0.0	25.4	S	S	S	S	S	S	S	S	S	S	S	S
	65	0.0	27.5	S	S	S	S	S	S	S	S	S	S	S	S
	70	0.0	29.6	S	S	S	S	S	S	S	S	S	S	S	S
	75	0.0	31.7	S	S	S	S	S	S	S	S	S	S	S	S
	80	0.0	33.8	S	S	S	S	S	S	S	S	S	S	S	S
	85	0.0	35.9	S	S	S	S	S	S	S	S	S	S	S	S
	90	0.0	38.1	S	S	S	S	S	S	S	S	S	S	S	S
	95	0.0	40.2	S	S	S	S	S	S	S	S	S	S	S	S
	100	266.4	42.3	S	S	-	3	4	3	S	-	-	-	-	-
	105	266.4	44.4	S	S	-	3	4	3	S	-	-	-	-	-
	110	266.4	46.5	S	S	-	3	4	3	S	-	-	-	-	-
	115	266.4	48.6	S	S	-	3	4	3	S	-	-	-	-	-
	120	266.4	50.7	S	S	-	3	4	3	S	-	-	-	-	-
	125	266.4	52.9	S	S	-	3	4	3	S	-	-	-	-	-
	130	266.4	55.0	S	S	-	3	4	3	S	-	-	-	-	-
	135	266.4	57.1	S	S	-	3	4	3	S	-	-	-	-	-
	140	266.4	59.2	S	S	-	3	4	3	S	-	-	-	-	-
	145	266.4	61.3	S	S	-	3	4	3	S	-	-	-	-	-
	150	266.4	63.4	S	S	-	3	4	3	S	-	-	-	-	-
	155	266.4	65.5	S	S	-	3	4	3	S	-	-	-	-	-

TABLE 3 - ANCHOR SPACING				ANCHOR TYPE & SPACING WALL - MOUNT 1						ANCHOR TYPE & SPACING 2X4 BO - MOUNT 2					
TT	PD	Vx	Vy	A	B	C	D	E	F	A	B	C	D	E	F
144	40	0.0	20.9	S	S	S	S	S	S	S	S	S	S	S	S
	45	0.0	23.5	S	S	S	S	S	S	S	S	S	S	S	S
	50	0.0	26.1	S	S	S	S	S	S	S	S	S	S	S	S
	55	0.0	28.8	S	S	S	S	S	S	S	S	S	S	S	S
	60	0.0	31.4	S	S	S	S	S	S	S	S	S	S	S	S
	65	0.0	34.0	S	S	S	S	S	S	S	S	S	S	S	S
	70	0.0	36.6	S	S	S	S	S	S	S	S	S	S	S	S
	75	0.0	39.2	S	S	S	S	S	S	S	S	S	S	S	S
	80	0.0	41.8	S	S	S	S	S	S	S	S	S	S	S	S
	85	318.7	44.4	S	4	-	-	3	-	4	-	-	-	-	-
	90	318.7	47.1	S	4	-	-	3	-	4	-	-	-	-	-
	95	318.7	49.7	S	4	-	-	3	-	4	-	-	-	-	-
	100	318.7	52.3	S	4	-	-	3	-	4	-	-	-	-	-
	105	318.7	54.9	S	4	-	-	3	-	4	-	-	-	-	-
	110	318.7	57.5	S	4	-	-	3	-	4	-	-	-	-	-
	115	275.8	60.1	S	S	-	3	3	3	S	-	-	-	-	-
	120	318.7	62.7	S	4	-	-	3	-	4	-	-	-	-	-
	125	318.7	65.4	S	4	-	-	-	-	4	-	-	-	-	-
	130	318.7	68.0	S	4	-	-	-	-	4	-	-	-	-	-
180	40	0.0	25.9	S	S	S	S	S	S	S	S	S	S	S	S
	45	0.0	29.2	S	S	S	S	S	S	S	S	S	S	S	S
	50	0.0	32.4	S	S	S	S	S	S	S	S	S	S	S	S
	55	0.0	35.6	S	S	S	S	S	S	S	S	S	S	S	S
	60	0.0	38.9	S	S	S	S	S	S	S	S	S	S	S	S
	65	0.0	42.1	S	S	S	S	S	S	S	S	S	S	S	S
	70	339.1	45.3	S	3	-	-	-	-	4	-	-	-	-	-
	75	339.1	48.6	S	3	-	-	-	-	4	-	-	-	-	-
	80	339.1	51.8	S	3	-	-	-	-	4	-	-	-	-	-
	85	339.1	55.1	S	3	-	-	-	-	4	-	-	-	-	-
90	339.1	58.3	S	3	-	-	-	-	4	-	-	-	-	-	
95	339.1	61.5	S	3	-	-	-	-	4	-	-	-	-	-	
204	40	0.0	29.2	S	S	S	S	S	S	S	S	S	S	S	S
	45	0.0	32.9	S	S	S	S	S	S	S	S	S	S	S	S
	50	0.0	36.6	S	S	S	S	S	S	S	S	S	S	S	S
	55	115.5	40.2	S	S	S	S	S	S	S	S	3	S	S	S
	60	132.3	43.9	S	S	4	S	S	S	S	S	-	S	4	4
	65	146.6	47.5	S	S	3	S	S	S	S	S	-	4	4	4
	70	158.8	51.2	S	S	3	S	S	S	S	4	-	3	3	3
	75	169.4	54.8	S	S	3	S	S	S	S	4	-	3	3	3
222	40	0.0	31.7	S	S	S	S	S	S	S	S	S	S	S	S
	45	0.0	35.7	S	S	S	S	S	S	S	S	S	S	S	S
	50	100.3	39.7	S	S	S	S	S	S	S	S	4	S	S	S
	55	121.5	43.6	S	S	S	S	S	S	S	S	3	S	S	S
	60	139.3	47.6	S	S	4	S	S	S	S	S	-	4	4	4
65	154.3	51.6	S	S	3	S	S	S	S	4	-	3	3	3	
234	40	0.0	33.4	S	S	S	S	S	S	S	S	S	S	S	S
	45	75.7	37.6	S	S	S	S	S	S	S	S	S	S	S	S
	50	102.2	41.8	S	S	S	S	S	S	S	S	4	S	S	S
	55	123.8	45.9	S	S	S	S	S	S	S	S	3	S	S	S
	60	141.9	50.1	S	S	4	S	S	S	S	S	-	4	4	4
248	40	0.0	35.4	S	S	S	S	S	S	S	S	S	S	S	S
	45	114.3	39.8	S	S	S	S	S	S	S	S	3	S	S	S
	50	137.2	44.2	S	S	4	S	S	S	S	S	-	4	4	4
55	155.9	48.6	S	S	3	S	S	S	S	4	-	3	3	3	
286.5	40	79.8	40.7	S	S	S	S	S	S	S	S	S	S	S	S

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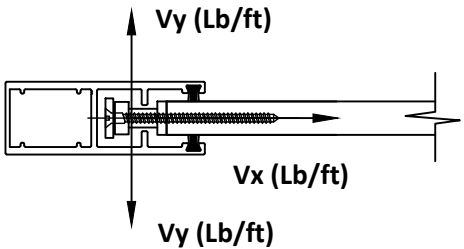
TYPICAL HORIZONTAL SECTIONS
INSET MOUNT



H
8

HORIZONTAL SECTION

MOUNT TYPE 3
INSET MOUNT
*WITH END RETENTION



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

SEE SHEETS 9, 10 & 11 FOR ANCHOR SPACING TABLES

ANCHOR SCHEDULE:

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. 3513 PSI CONCRETE	3 1/8"	2"
C	3/8" POWERS WEGDE BOLT	GROUT FILLED C-90 BLOCK	3 3/4"	3 1/2"
D	5/16" ITW TAPCON	GROUT FILLED C-90 BLOCK	4"	2 1/4"
E	#14 ELCO DRIL-FLEX SELF DRILLING SCREW	MIN 1/4" 6063-T6 ALUM.	3/8"	3 threads penetration
		A36 3/16" STEEL	1/2"	
F	5/16" DEWALT/ELCO Ultracon	MIN. SG = 0.55 WOOD	1 9/16"	2"



ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

TITLE: 55 MM ROLL SHUTTER
(HVHZ) (IMPACT)

HORIZONTAL SECTION

PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
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REMARKS	BY	DATE
PRODUCT UPDATES	SH	04.04.22

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.



FL# FL35248

DATE: 08.31.20

DWG. BY: MS CHK. BY: HFN

SCALE: NTS

DWG. #: ALC001

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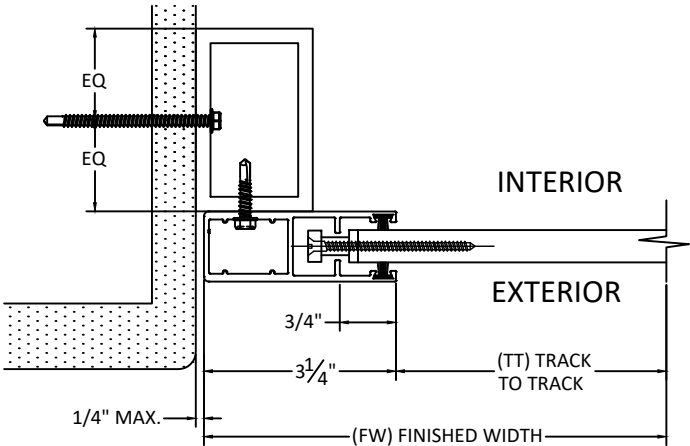
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OF 17

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TABLE 4 - ANCHOR SPACING				ANCHOR TYPE & SPACING 2X4 INSET - MOUNT 3					
TT	PD	Vx	Vy	A	B	C	D	E	F
72	40	0	10.91	5	5	5	5	5	5
	45	0	12.28	5	5	5	5	5	5
	50	0	13.64	5	5	5	5	5	5
	55	0	15.00	5	5	5	5	5	5
	60	0	16.37	5	5	5	5	5	5
	65	0	17.73	5	5	5	5	5	5
	70	0	19.10	5	5	5	5	5	5
	75	0	20.46	5	5	5	5	5	5
	80	0	21.83	5	5	5	5	5	5
	85	0	23.19	5	5	5	5	5	5
	90	0	24.55	5	5	5	5	5	5
	95	0	25.92	5	5	5	5	5	5
	100	0	27.28	5	5	5	5	5	5
	105	152.8773	28.65	5	-	-	-	-	-
	110	152.8773	30.01	5	-	-	-	-	-
	115	152.8773	31.37	5	-	-	-	-	-
	120	152.8773	32.74	5	-	-	-	-	-
	125	152.8773	34.10	5	-	-	-	-	-
	130	152.8773	35.47	5	-	-	-	-	-
	135	152.8773	36.83	5	-	-	-	-	-
	140	152.8773	38.19	5	-	-	-	-	-
78	145	152.8773	39.56	5	-	-	-	-	-
	150	152.8773	40.92	5	-	-	-	-	-
	155	152.8773	42.29	5	-	-	-	-	-
	160	152.8773	43.65	5	-	-	-	-	-
	165	152.8773	45.01	5	-	-	-	-	-
	170	152.8773	46.38	5	-	-	-	-	-
	175	152.8773	47.74	5	-	-	-	-	-
	180	152.8773	49.11	5	-	-	-	-	-
	185	152.8773	50.47	5	-	-	-	-	-
	190	152.8773	51.83	5	-	-	-	-	-
	195	152.8773	53.20	5	-	-	-	-	-
	200	152.8773	54.56	5	-	-	-	-	-
	40	0	11.72	5	5	5	5	5	5
	45	0	13.19	5	5	5	5	5	5
	50	0	14.65	5	5	5	5	5	5
	55	0	16.12	5	5	5	5	5	5
	60	0	17.59	5	5	5	5	5	5
	65	0	19.05	5	5	5	5	5	5
	70	0	20.52	5	5	5	5	5	5
	75	0	21.98	5	5	5	5	5	5
	80	0	23.45	5	5	5	5	5	5
	85	0	24.91	5	5	5	5	5	5
	90	0	26.38	5	5	5	5	5	5
	95	0	27.84	5	5	5	5	5	5
	100	0	29.31	5	5	5	5	5	5
	105	169.3524	30.77	5	-	-	-	-	-
	110	169.3524	32.24	5	-	-	-	-	-
	115	169.3524	33.70	5	-	-	-	-	-
	120	169.3524	35.17	5	-	-	-	-	-
	125	169.3524	36.64	5	-	-	-	-	-
	130	169.3524	38.10	5	-	-	-	-	-
	135	169.3524	39.57	5	-	-	-	-	-
	140	169.3524	41.03	5	-	-	-	-	-
	145	169.3524	42.50	5	-	-	-	-	-
	150	169.3524	43.96	5	-	-	-	-	-
	155	169.3524	45.43	5	-	-	-	-	-
	160	169.3524	46.89	5	-	-	-	-	-
	165	169.3524	48.36	5	-	-	-	-	-
	170	169.3524	49.82	5	-	-	-	-	-
	175	169.3524	51.29	5	-	-	-	-	-
	180	169.3524	52.76	5	-	-	-	-	-
	185	169.3524	54.22	5	-	-	-	-	-
	190	169.3524	55.69	5	-	-	-	-	-
	195	169.3524	57.15	5	-	-	-	-	-

TYPICAL HORIZONTAL
SECTIONS
INSET MOUNT



J
9

HORIZONTAL SECTION

MOUNT TYPE 3
INSET MOUNT
*WITH END RETENTION



ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

TITLE: 55 MM ROLL SHUTTER
(HVHZ) (IMPACT)

HORIZONTAL SECTION &
ANCHOR SCHEDULE

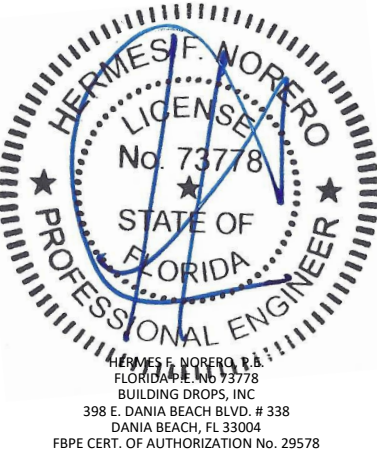
PREPARED BY:

BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
PRODUCT UPDATES	SH	04.04.22

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.



FL#	FL35248
DATE:	08.31.20
DWG. BY:	CHK. BY:
MS	HFN
SCALE:	NTS
DWG. #:	ALC001
SHEET:	9

TABLE 4 - ANCHOR SPACING				ANCHOR TYPE & SPACING 2X4 OR 4X4 INSET - MOUNT 3					
TT	PD	Vx	Vy	A	B	C	D	E	F
82	40	0	12.34	5	5	5	5	5	5
	45	0	13.88	5	5	5	5	5	5
	50	0	15.43	5	5	5	5	5	5
	55	0	16.97	5	5	5	5	5	5
	60	0	18.51	5	5	5	5	5	5
	65	0	20.05	5	5	5	5	5	5
	70	0	21.60	5	5	5	5	5	5
	75	0	23.14	5	5	5	5	5	5
	80	0	24.68	5	5	5	5	5	5
	85	0	26.22	5	5	5	5	5	5
	90	0	27.77	5	5	5	5	5	5
	95	0	29.31	5	5	5	5	5	5
	100	0	30.85	5	5	5	5	5	5
	105	181.8213	32.40	5	-	-	-	-	-
	110	181.8213	33.94	5	-	-	-	-	-
	115	181.8213	35.48	5	-	-	-	-	-
	120	181.8213	37.02	5	-	-	-	-	-
	125	181.8213	38.57	5	-	-	-	-	-
	130	181.8213	40.11	5	-	-	-	-	-
	135	181.8213	41.65	5	-	-	-	-	-
	140	181.8213	43.19	5	-	-	-	-	-
90	145	181.8213	44.74	5	-	-	-	-	-
	150	181.8213	46.28	5	-	-	-	-	-
	155	181.8213	47.82	5	-	-	-	-	-
	160	181.8213	49.36	5	-	-	-	-	-
	165	181.8213	50.91	5	-	-	-	-	-
	170	181.8213	52.45	5	-	-	-	-	-
	175	181.8213	53.99	5	-	-	-	-	-
	180	181.8213	55.54	5	-	-	-	-	-
	185	181.8213	57.08	5	-	-	-	-	-
	190	181.8213	58.62	5	-	-	-	-	-
	40	0	13.41	5	5	5	5	5	5
	45	0	15.09	5	5	5	5	5	5
	50	0	16.77	5	5	5	5	5	5
	55	0	18.44	5	5	5	5	5	5
	60	0	20.12	5	5	5	5	5	5
	65	0	21.80	5	5	5	5	5	5
	70	0	23.47	5	5	5	5	5	5
	75	0	25.15	5	5	5	5	5	5
	80	0	26.83	5	5	5	5	5	5
	85	0	28.50	5	5	5	5	5	5
	90	0	30.18	5	5	5	5	5	5
	95	0	31.85	5	5	5	5	5	5
	100	0	33.53	5	5	5	5	5	5
	105	203.0906	35.21	5	-	-	-	-	-
	110	203.0906	36.88	5	-	-	-	-	-
	115	203.0906	38.56	5	-	-	-	-	-
	120	203.0906	40.24	5	-	-	-	-	-
	125	203.0906	41.91	5	-	-	-	-	-
	130	203.0906	43.59	5	-	-	-	-	-
	135	203.0906	45.27	5	-	-	-	-	-
	140	203.0906	46.94	5	-	-	-	-	-
	145	203.0906	48.62	5	-	-	-	-	-
	150	203.0906	50.30	5	-	-	-	-	-
	155	203.0906	51.97	5	-	-	-	-	-
	160	203.0906	53.65	5	-	-	-	-	-
	165	203.0906	55.33	5	-	-	-	-	-
	170	203.0906	57.00	5	-	-	-	-	-
	175	203.0906	58.68	5	-	-	-	-	-
	180	203.0906	60.36	5	-	-	-	-	-

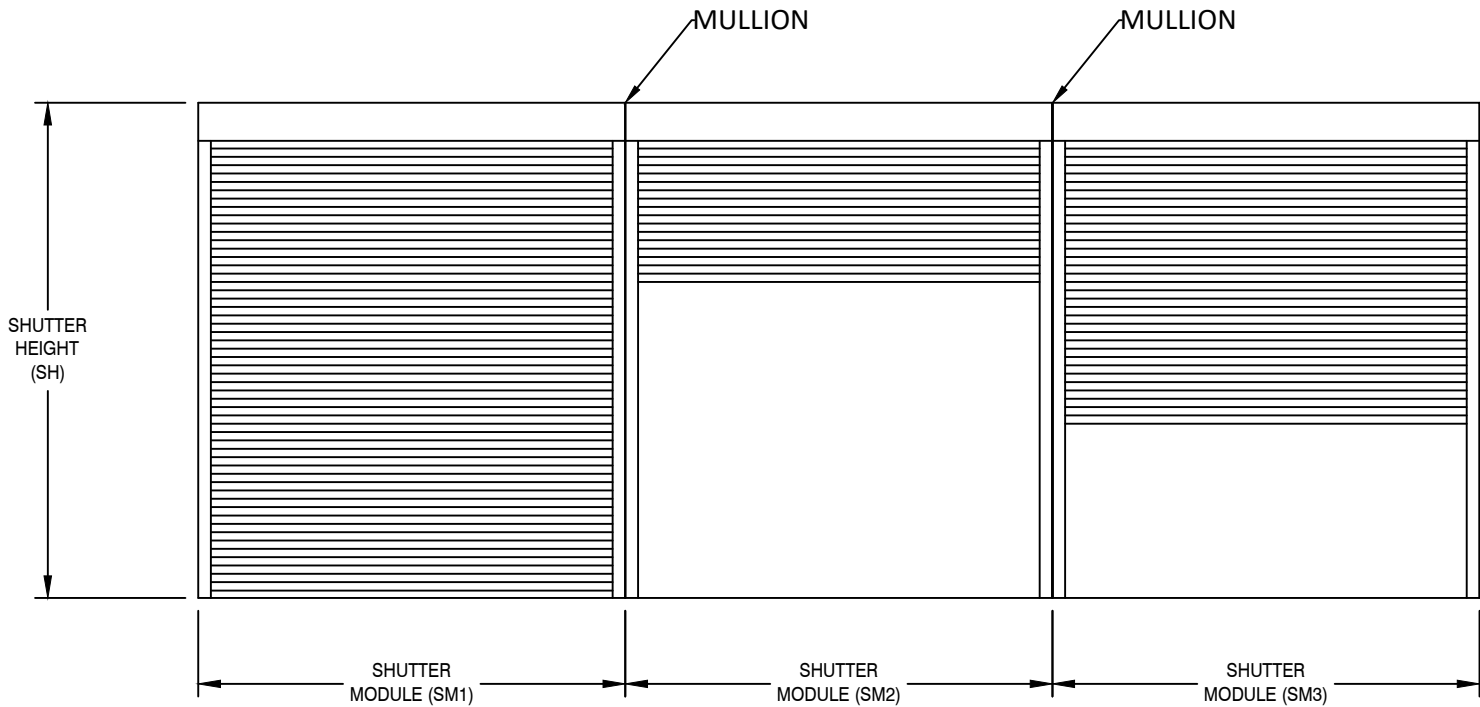
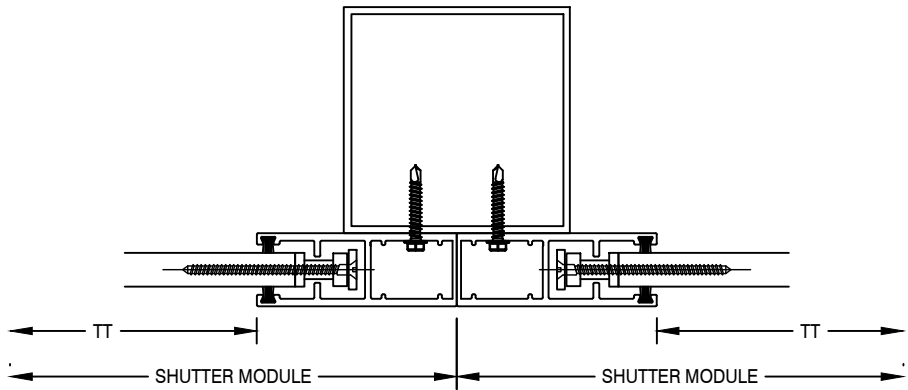
TABLE 4 - ANCHOR SPACING				ANCHOR TYPE & SPACING 2X4 OR 4X4 INSET - MOUNT 3					
TT	PD	Vx	Vy	A	B	C	D	E	F
96	40	0	13.41	5	5	5	5	5	5
	45	0	15.09	5	5	5	5	5	5
	50	0	16.77	5	5	5	5	5	5
	55	0	18.44	5	5	5	5	5	5
	60	0	20.12	5	5	5	5	5	5
	65	0	21.80	5	5	5	5	5	5
	70	0	23.47	5	5	5	5	5	5
	75	0	25.15	5	5	5	5	5	5
	80	0	26.83	5	5	5	5	5	5
	85	0	28.50	5	5	5	5	5	5
	90	0	30.18	5	5	5	5	5	5
	95	0	31.85	5	5	5	5	5	5
	100	194.2767	33.53	5	-	-	-	-	-
	105	194.2767	35.21	5	-	-	-	-	-
	110	194.2767	36.88	5	-	-	-	-	-
	115	194.2767	38.56	5	-	-	-	-	-
	120	194.2767	40.24	5	-	-	-	-	-
	125	194.2767	41.91	5	-	-	-	-	-
	130	194.2767	43.59	5	-	-	-	-	-
	135	194.2767	45.27	5	-	-	-	-	-
	140	194.2767	46.94	5	-	-	-	-	-
107	145	194.2767	48.62	5	-	-	-	-	-
	150	194.2767	50.30	5	-	-	-	-	-
	155	194.2767	51.97	5	-	-	-	-	-
	160	194.2767	53.65	5	-	-	-	-	-
	165	194.2767	55.33	5	-	-	-	-	-
	170	194.2767	57.00	5	-	-	-	-	-
	175	194.2767	58.68	5	-	-	-	-	-
	40	0	15.73	5	5	5	5	5	5
	45	0	17.69	5	5	5	5	5	5
	50	0	19.66	5	5	5	5	5	5
	55	0	21.63	5	5	5	5	5	5
	60	0	23.59	5	5	5	5	5	5
	65	0	25.56	5	5	5	5	5	5
	70	0	27.52	5	5	5	5	5	5
	75	0	29.49	5	5	5	5	5	5
	80	0	31.46	5	5	5	5	5	5
	85	0	33.42	5	5	5	5	5	5
	90	0	35.39	5	5	5	5	5	5
	95	0	37.35	5	5	5	5	5	5
	100	246.3299	39.32	4	-	-	-	-	-
	105	246.3299	41.29	4	-	-	-	-	-
115	110	246.3299	43.25	4	-	-	-	-	-
	115	246.3299	45.22	4	-	-	-	-	-
	120	246.3299	47.18	4	-	-	-	-	-
	125	246.3299	49.15	4	-	-	-	-	-
	130	246.3299	51.12	4	-	-	-	-	-
	135	246.3299	53.08	4	-	-	-	-	-
	140	246.3299	55.05	4	-	-	-	-	-
	145	246.3299	57.01	4	-	-	-	-	-
	150	246.3299	58.98	4	-	-	-	-	-
	155	246.3299	60.95	4	-	-	-	-	-
	160	246.3299	62.91	4	-	-	-	-	-
	165	246.3299	64.88	4	-	-	-	-	-
	40	0	16.91	5	5	5	5	5	5
	45	0	19.03	5	5	5	5	5	5
	50	0	21.14	5	5	5	5	5	5
	55	0	23.25	5	5	5	5	5	5
	60	0	25.37	5	5	5	5	5	5
	65	0	27.48	5	5	5	5	5	5
	70	0	29.60	5	5	5	5	5	5
	75	0	31.71	5	5	5	5	5	5
	80	0	33.83	5	5	5	5	5	5
	85	0	35.94	5	5	5	5	5	5
	90	0	38.05	5	5	5	5	5	5
	95	0	40.17	5	5	5	5	5	5
	100	266.3541	42.28	4	-	-	-	-	-
	105	266.3541	44.40	4	-	-	-	-	-
	110	266.3541	46.51	4	-	-	-	-	-
	115	266.3541	48.62	4	-	-	-	-	-
	120	266.3541	50.74	4	-	-	-	-	-
	125	266.3541	52.85	4	-	-	-	-	-
	130	266.3541	54.97	4	-	-	-	-	-
	135	266.3541	57.08	3	-	-	-	-	-
	140	266.3541	59.19	3	-	-	-	-	-
	145	266.3541	61.31	3	-	-	-	-	-
	150	266.3541	63.42	3	-	-	-	-	-
	155	266.3541	65.54	3	-	-	-	-	-

TABLE 4 - ANCHOR SPACING				ANCHOR TYPE & SPACING 2X4 OR 4X4 INSET - MOUNT 3					
TT	PD	Vx	Vy	A	B	C	D	E	F
144	40	0	20.91	5	5	5	5	5	5
	45	0	23.53	5	5	5	5	5	5
	50	0	26.14	5	5	5	5	5	5
	55	0	28.75	5	5	5	5	5	5
	60	0	31.37	5	5	5	5	5	5
	65	0	33.98	5	5	5	5	5	5
	70	0	36.60	5	5	5	5	5	5
	75	0	39.21	5	5	5	5	5	5
	80	0	41.83	5	5	5	5	5	5
	85	318.6728	44.44	3	-	-	-	-	-
	90	318.6728	47.05	3	-	-	-	-	-
	95	318.6728	49.67	3	-	-	-	-	-
	100	318.6728	52.28	3	-	-	-	-	-
	105	318.6728	54.90	3	-	-	-	-	-
	110	318.6728	57.51	3	-	-	-	-	-
180	115	275.7614	60.12	3	-	-	-	-	-
	120	318.6728	62.74	-	-	-	-	-	-
	125	318.6728	65.35	-	-	-	-	-	-
	130	318.6728	67.97	-	-	-	-	-	-
	40	0	25.91	5	5	5	5	5	5
	45	0	29.15	5	5	5	5	5	5
	50	0	32.39	5	5	5	5	5	5
204	55	0	35.63	5	5	5	5	5	5
	60	0	38.87	5	5	5	5	5	5
	65	0	42.11	5	5	5	5	5	5
	70	339.0898	45.35	-	-	-	-	-	-
	75	339.0898	48.59	-	-	-	-	-	-
	80	339.0898	51.83	-	-	-	-	-	-
	85	339.0898	55.06	-	-	-	-	-	-
222	90	339.0898	58.30	-	-	-	-	-	-
	95	339.0898	61.54	-	-	-	-	-	-
	40	0	29.25	5	5	5	5	5	5
	45	0	32.90	5	5	5	5	5	5
	50	0	36.56	5	5	5	5	5	5
	55	115.4874	40.21	5	3	-	3	3	3
	60	132.3293	43.87	5	3	-	-	-	-
234	65	146.5801	47.52	5	-	-	-	-	-
	70	158.7951	51.18	5	-	-	-	-	-
	75	169.3815	54.84	5	-	-	-	-	-
	40	0	31.73	5	5	5	5	5	5
	45	0	35.70	5	5	5	5	5	5
	50	100.2767	39.67	5	4	-	4	3	3
	55	121.5475	43.64	5	3	-	3	-	-
248	60	139.2732	47.60	5	-	-	-	-	-
	65	154.2718	51.57	5	-	-	-	-	-
	40	0	33.40	5	5	5	5	5	5
	45	75.67675	37.58	5	5	4	5	5	5
286.5	50	102.1636	41.75	5	4	-	3	3	3
	55	123.8347	45.93	5	3	-	-	-	-
	60	141.8939	50.10	5	-	-	-	-	-
	40	0	35.37	5	5	5	5	5	5
286.5	45	114.3487	39.80	5	3	-	3	3	3
	50	137.2185	44.22	5	-	-	-	-	-
	55	155.9301	48.64	5	-	-	-	-	-
286.5	40	79.75854	40.70	5	5	3	5	5	5

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EQUALLY SPACED MULLIONS SELECTION

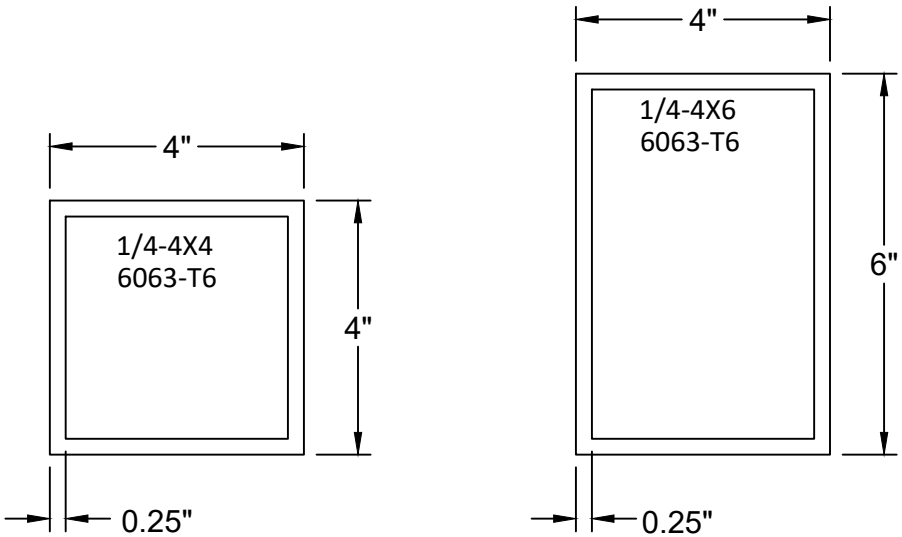
FACE MOUNT
MULLION



SM1 = SM2 = SM3

TT Max.	1/4-4x6 MULLION SPAN			1/4-4x4 MULLION SPAN		
	144	120	96	144	120	96
286.5	N/A	29	40	N/A	N/A	21
248	N/A	33	55	N/A	N/A	24
234	20	36	60	N/A	N/A	26
222	21	37	65	N/A	N/A	27
204	23	41	75	N/A	N/A	30
180	27	46	91	N/A	N/A	34
144	33	58	114	N/A	22	42
115	42	73	142	N/A	27	53
107	45	79	154	N/A	29	58
96	50	87	171	N/A	33	64
90	54	93	180	20	35	68
82	59	102	190	22	38	75
78	62	108	195	23	40	79
72	67	117	200	25	44	85

- 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.
 - DEFLECTION CRITERIA: MAX. SPAN/180
 - VALUES ABOVE ARE APPLICABLE ONLY FOR EQUAL MODULES SM1=SM2=SM3
 - UNEQUAL MODULES ARE TO BE DESIGNED BY RATIONAL ANALYSIS IN A CASE BY CASE BASIS.



ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

TITLE: 55 MM ROLL SHUTTER
(HVHZ) (IMPACT)

EQUALLY SPACED MULLION

PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
PRODUCT UPDATES	SH	04.04.22

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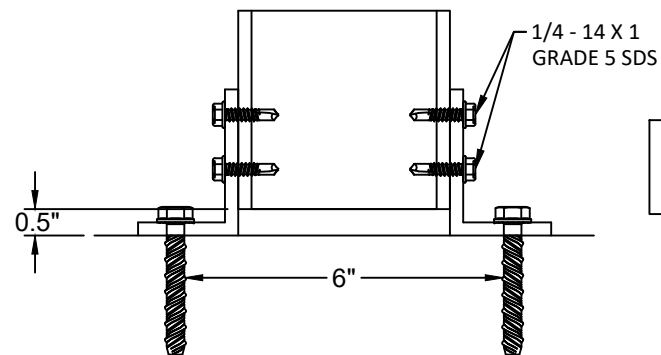
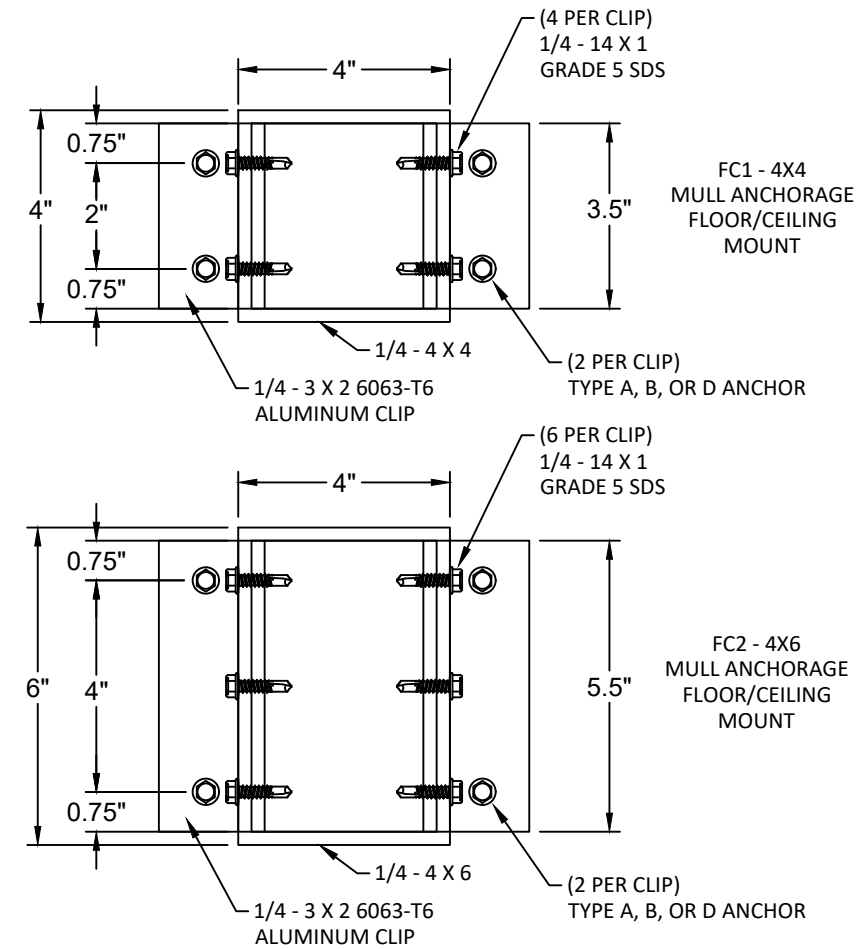
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SCALE:	NTS
DWG. #:	ALC001
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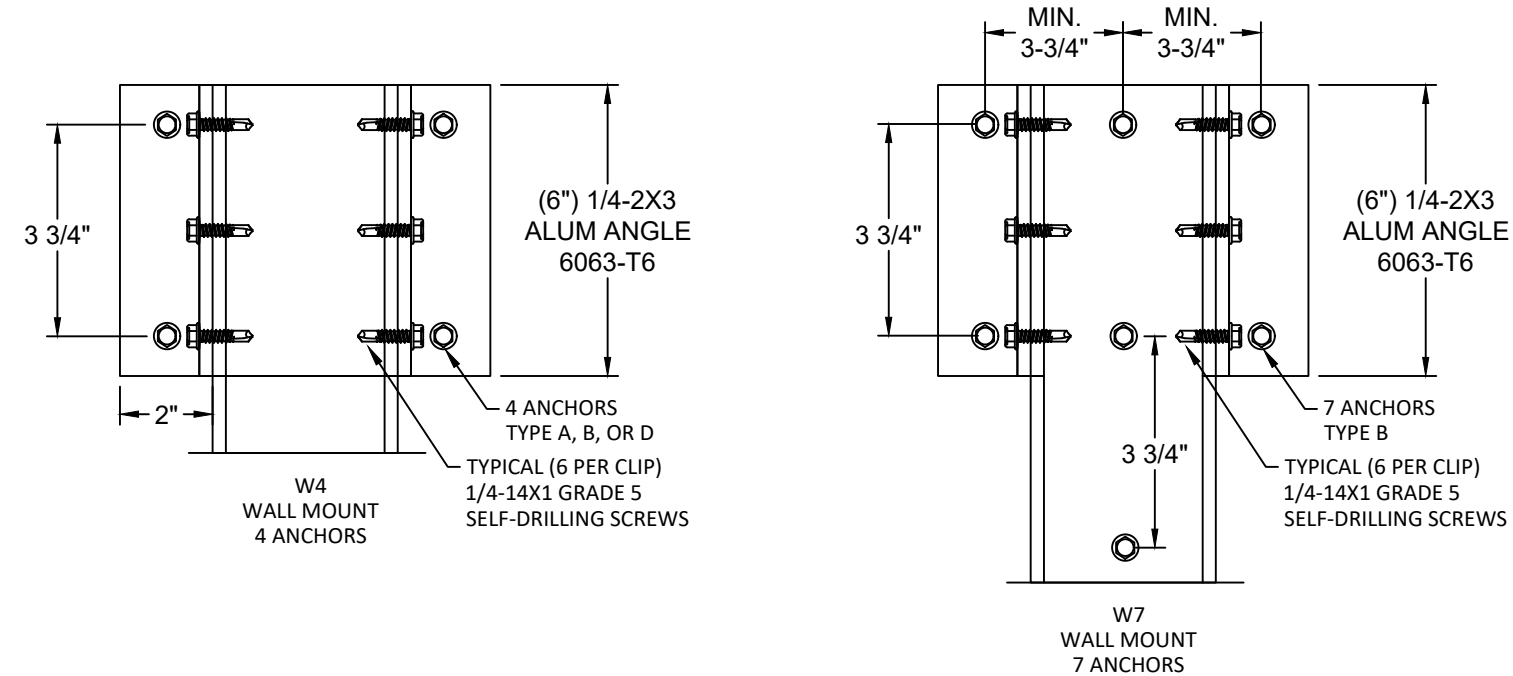
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EQUALLY SPACED MULLIONS WALL AND INSET CONNECTIONS



NOTE: ANGLE CLIP TO BE PLACED OUTSIDE OR INSIDE TUBE



WALL MOUNT ANCHOR SELECTION		
ANCHOR TYPE	MULLION TYPE	
	4X4	4X6
A	W4	W4
B	W4	N/A

FLOOR/CEILING MOUNT ANCHOR SELECTION		
ANCHOR TYPE	MULLION TYPE	
	4X4	4X6
A	FC1	FC2
B	FC1	N/A

ANCHOR SCHEDULE:

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. 3513 PSI CONCRETE	3 1/8"	2"



ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

TITLE: 55 MM ROLL SHUTTER (HVHZ) (IMPACT)

EQUALLY SPACED MULLION

PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD, STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
PRODUCT UPDATES	SH	04.04.22

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FL# FL35248

DATE: 08.31.20

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CHK. BY: HFN

SCALE: NTS

DWG. #: ALC001

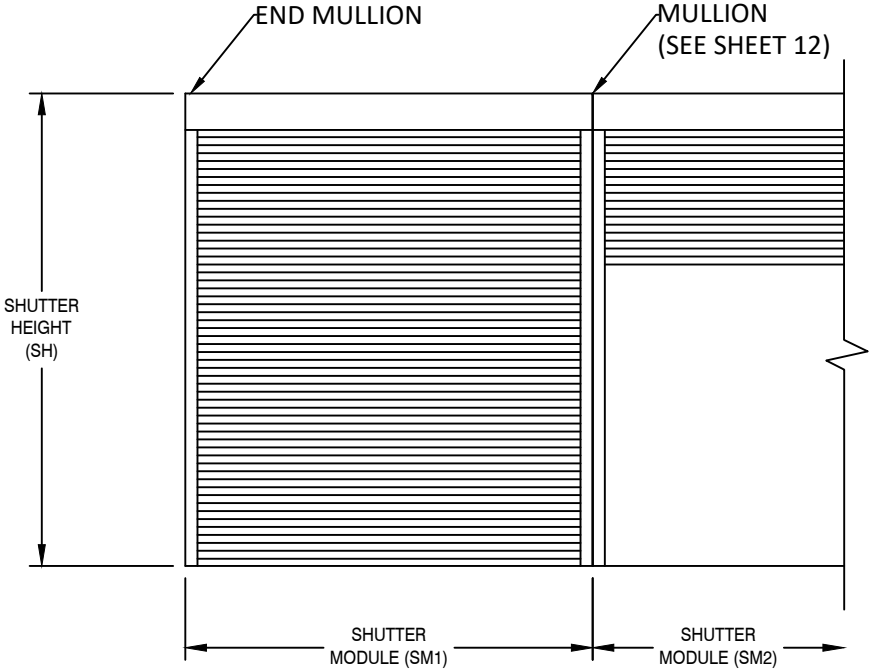
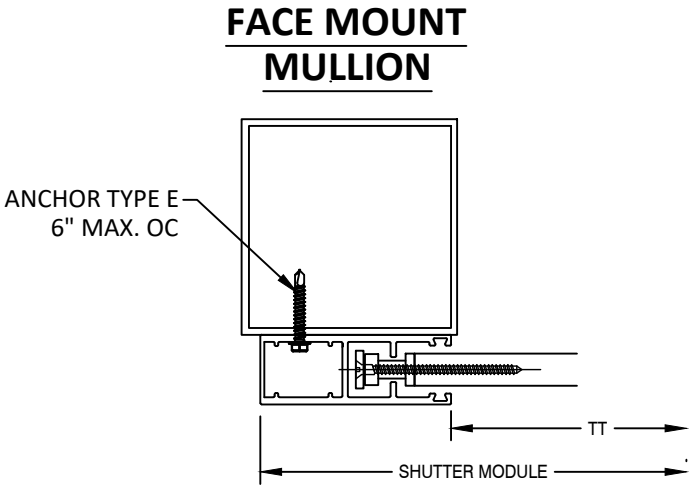
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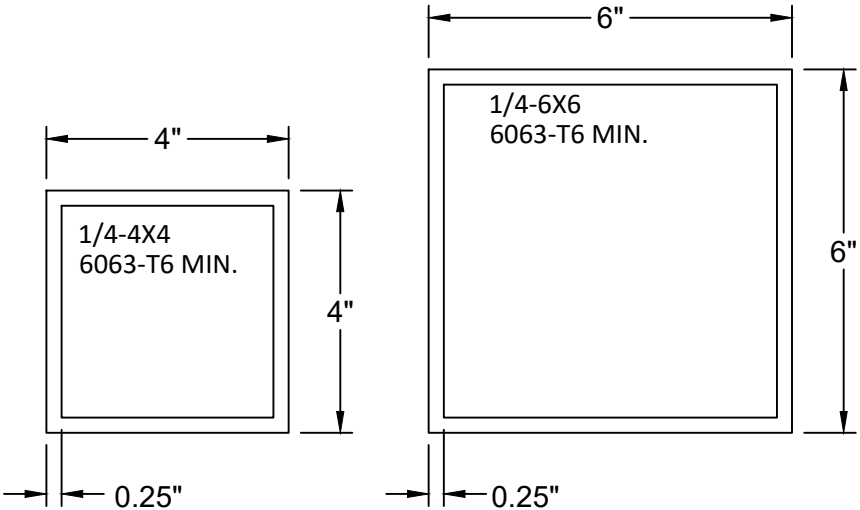
END MULLION SELECTION



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
78	195	12.00	12.00
82	190	12.00	12.00
90	180	12.00	12.00
96	175	12.00	12.00
107	165	12.00	12.00
115	155	11.39	12.00
144	130	10.72	12.00
180	95	10.50	12.00
204	75	10.73	12.00
222	65	10.54	12.00
234	60	10.48	12.00
248	55	10.46	12.00
286.5	40	10.71	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



ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

TITLE: 55 MM ROLL SHUTTER
(HVHZ) (IMPACT)

END MULLION

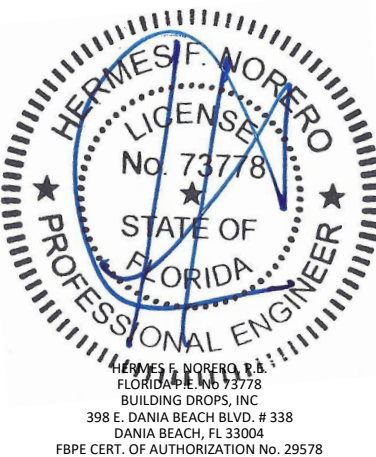
PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE
PRODUCT UPDATES	SH	04.04.22

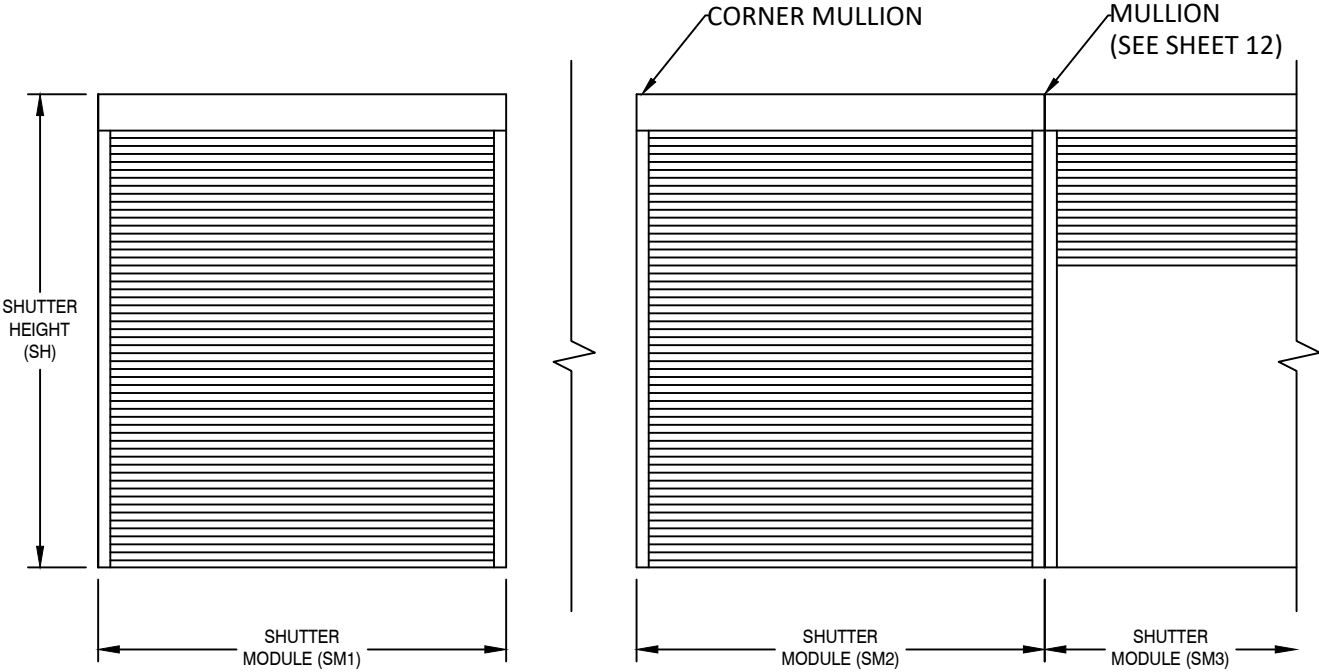
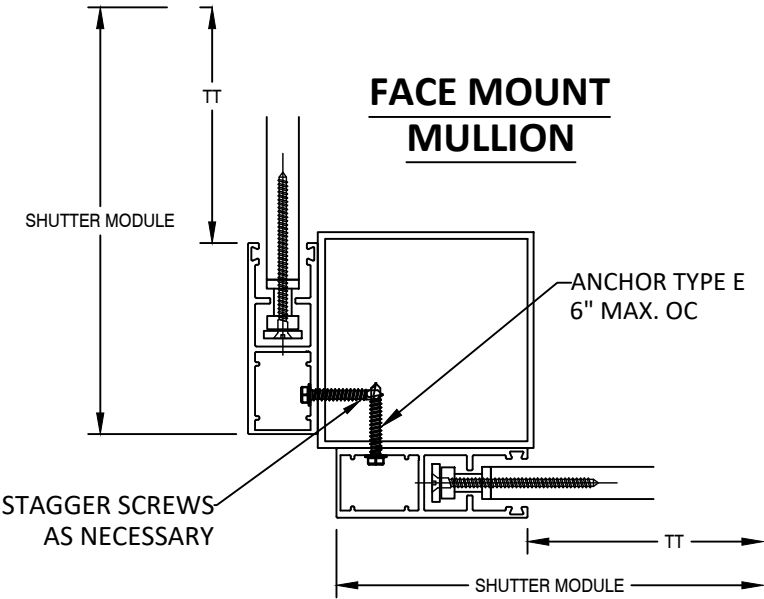
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DWG. #:	ALC001
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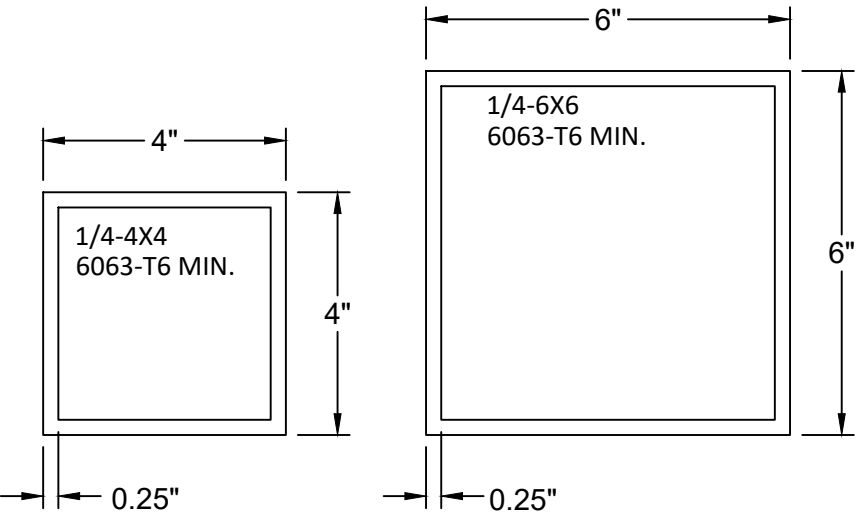
CORNER MULLION SELECTION



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	10.37	12.00
78	195	9.90	12.00
83	190	9.66	12.00
90	180	9.20	12.00
96	175	8.90	12.00
107	165	8.44	12.00
115	155	8.21	12.00
144	130	7.59	11.76
180	95	7.46	11.55
204	75	7.74	11.98
222	65	7.60	11.77
234	60	7.55	11.69
248	55	7.55	11.69
286.5	40	7.87	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.



ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

TITLE: 55 MM ROLL SHUTTER
(HVHZ) (IMPACT)

CORNER MULLION

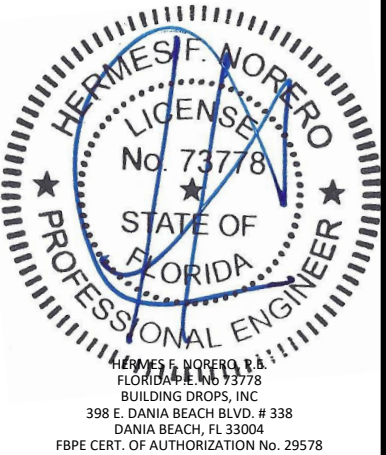
PREPARED BY: BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



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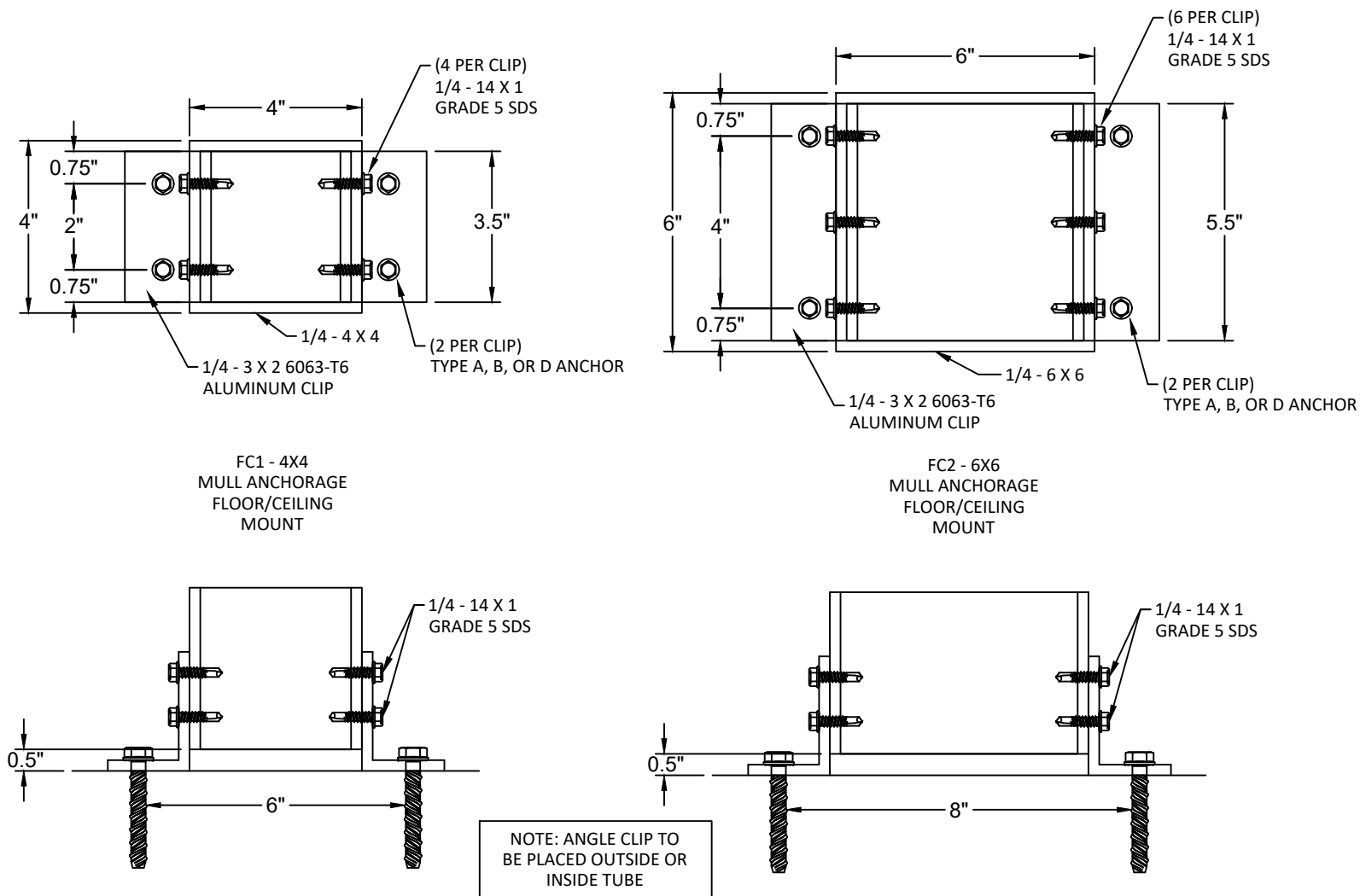


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END MULLION AND CORNER MULLION WALL AND INSET CONNECTIONS

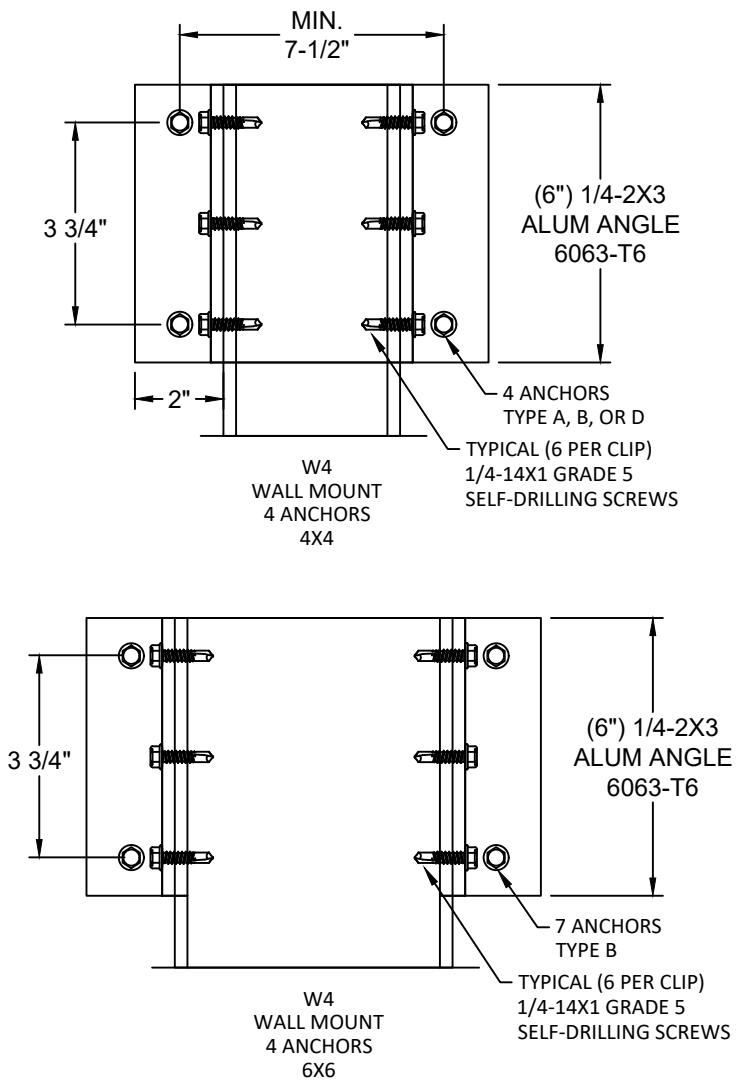


MULL FLOOR/CEILING MOUNT ANCHOR SELECTION		
ANCHOR TYPE	CORNER MULLION TYPE	
	4X4	6X6
A	FC1	FC2
B	N/A	N/A

ANCHOR SCHEDULE:

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. 3513 PSI CONCRETE	3 1/8"	2"

END MULLION WALL CONNECTIONS



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



ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

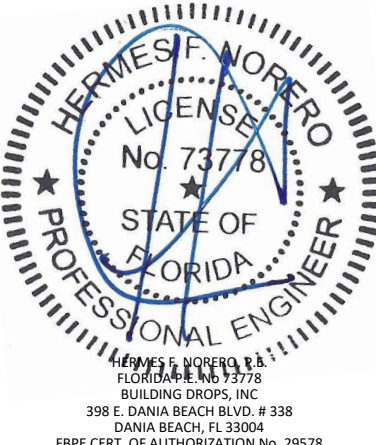
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com



TITLE: 55 MM ROLL SHUTTER
(HVHZ) (IMPACT)
END & CORNER MULLION

REMARKS	BY	DATE
PRODUCT UPDATES	SH	04.04.22

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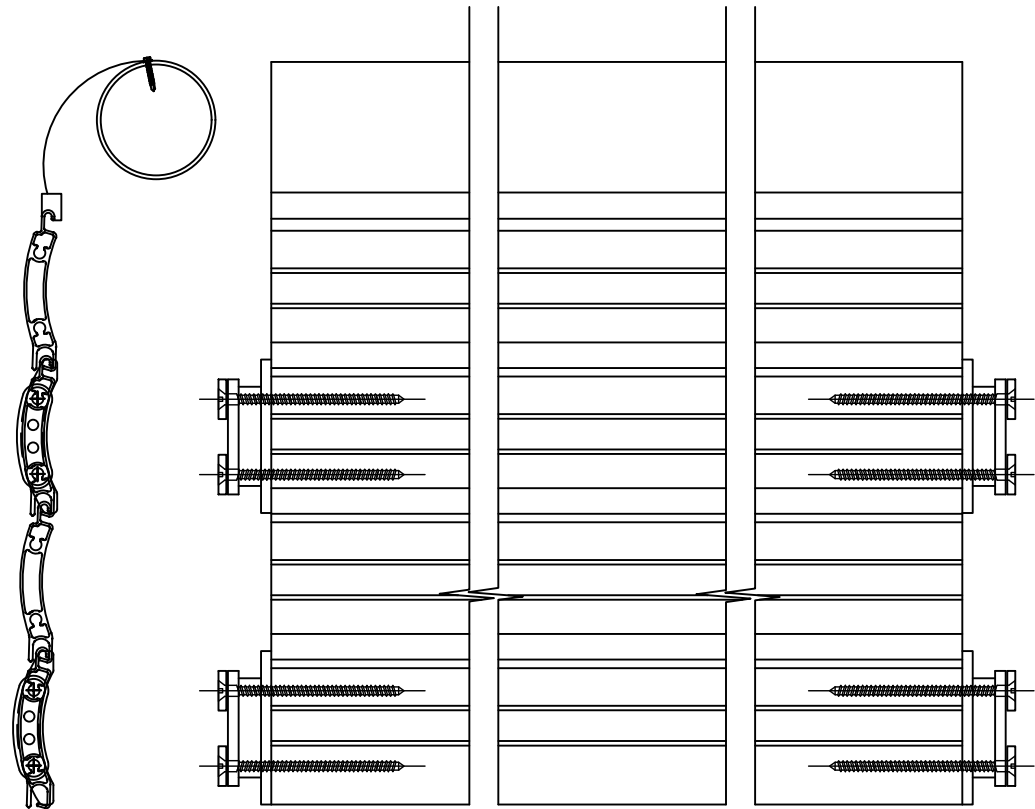
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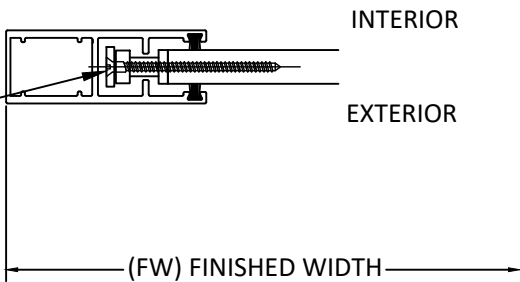
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SLAT END RETENTION LAY-OUT



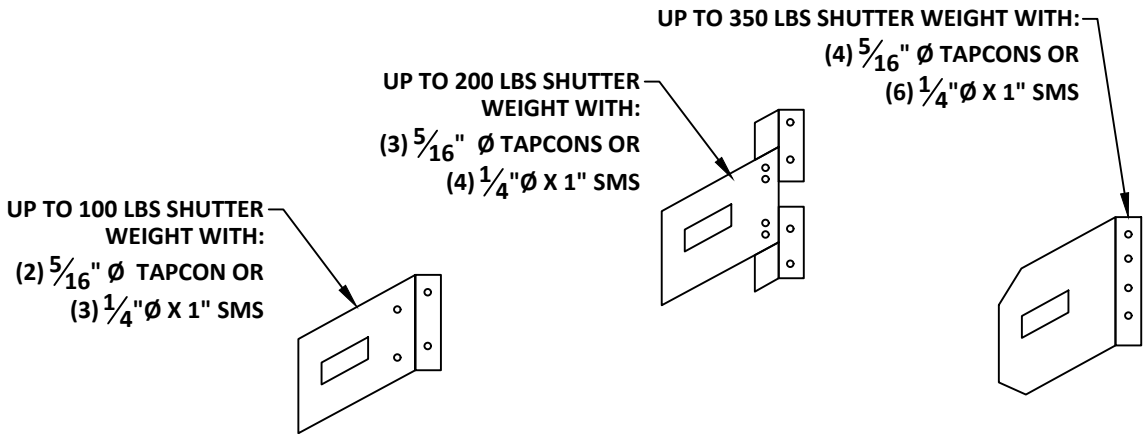
*OPTIONAL
BOTTOM BAR

#10 X 3" PFH 4-10 S/S SMS , TWO (2) PER END
RETENTION SLAT LOCK GUIDE, ONE O.D. $\phi 5/8"$
I.D. $\phi 1/4"$ X $1/8"$ WASHER PER FASTENER WITH
A XILAN COATING.

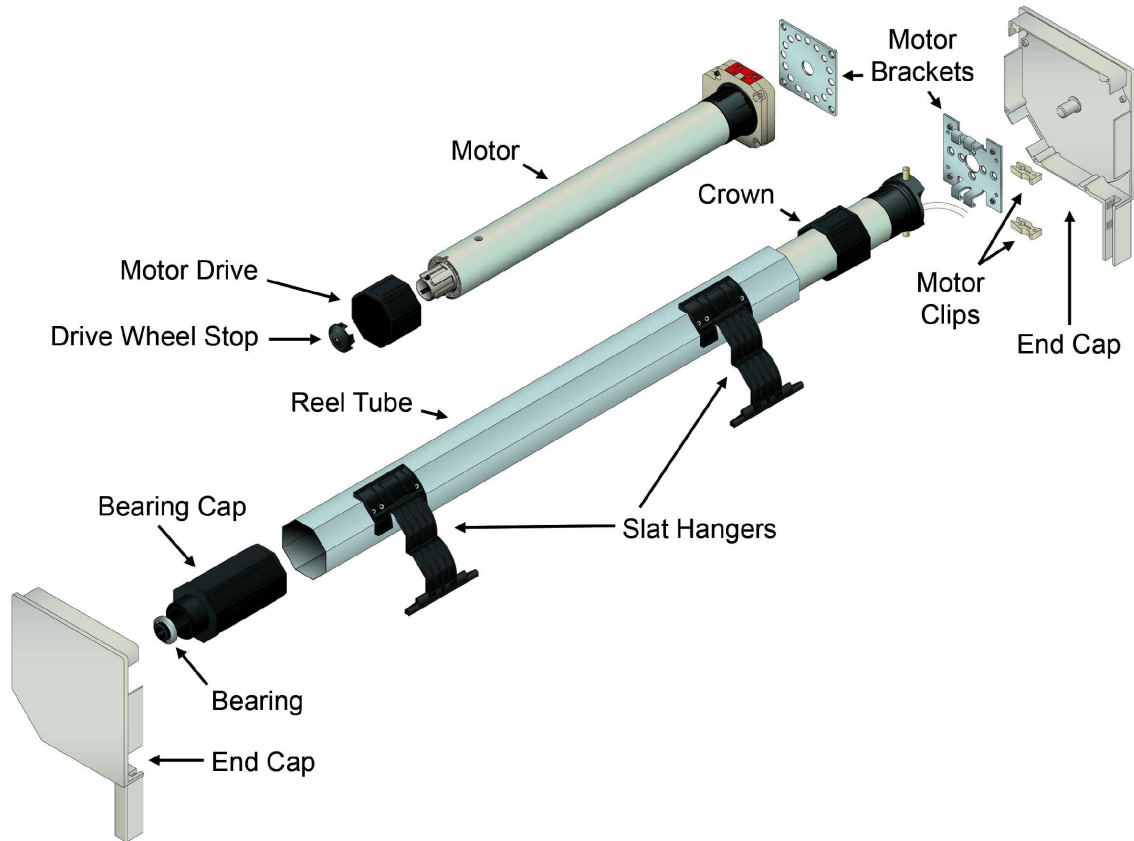


- NOTES:
1. SLAT END RETENTION LOCK TO BE AT EVERY OTHER SLAT
 2. INSTALLATION SCREWS SHALL BE COATED WITH AN CORROSION RESISTENT COATING SYSTEM.

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.



ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

TITLE: 55 MM ROLL SHUTTER
(HVHZ) (IMPACT)

SLAT END RETENTION &
HOOD ASSEMBLY

PREPARED BY:

BUILDING DROPS, INC.

398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004

PH: (954) 399-8478
FAX: (954) 744-4738

WEB: www.buildingdrops.com



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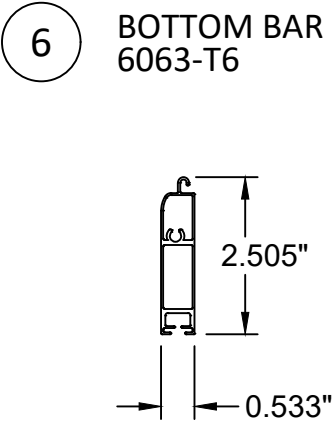
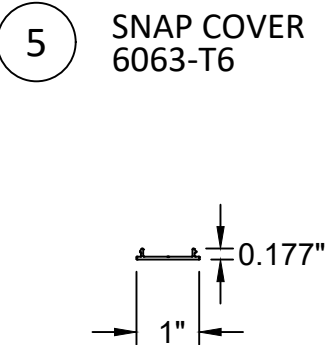
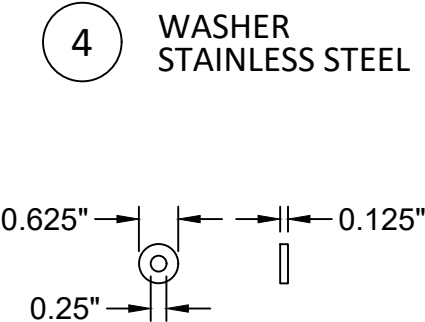
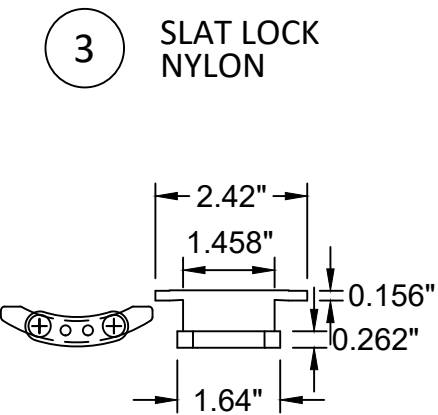
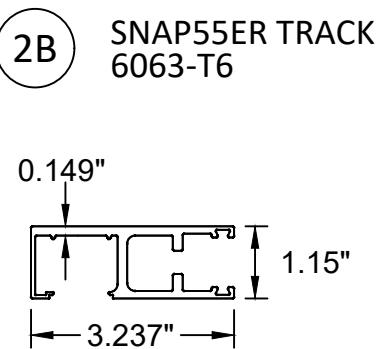
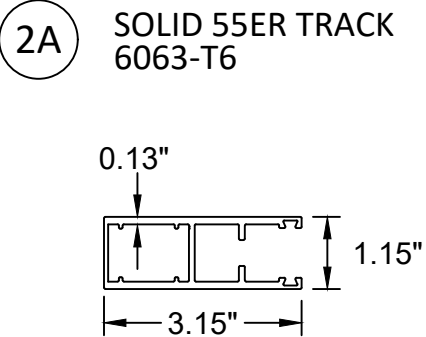
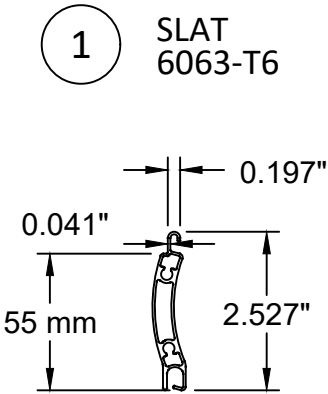
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BILL OF MATERIALS		
ITEM NO.	DESCRIPTION	MATERIAL
1	55 mm SLAT	6063-T6
2A	SOLID 55ER TRACK	6063-T6
2B	SNAP55ER TRACK	6063-T6
3	SLAT LOCK	NYLON
4	WASHER	STAINLESS STEEL
5	SNAP COVER	6063-T6
6	BOTTOM BAR	6063-T6





ALUCORE LLC
412 SUNSHINE BLVD
TAVERNIER, FL 33070-2459
PH: (305) 330-5511

TITLE: 55 MM ROLL SHUTTER
(HVHZ) (IMPACT)

BOM & COMPONENTS

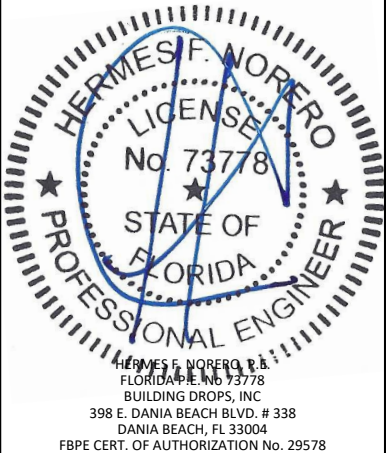
PREPARED BY:



BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD., STE. 338
DANIA BEACH, FL 33004
PH: (954) 399-8478
FAX: (954) 744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE
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HERMES F. MORERO, P.E.
FLORIDA P.E. NO. 73778
BUILDING DROPS, INC.
398 E. DANIA BEACH BLVD. # 338
DANIA BEACH, FL 33004
FBPE CERT. OF AUTHORIZATION No. 29578

FL# **FL35248**

DATE: **08.31.20**

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

DWG. #: **ALC001**

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