

ALUTECH UNITED, INC.

BARRACUDA ROLL-UP SHUTTER

(HVHZ) (IMPACT)



117 DIXON STREET
SELBYVILLE, DE 19975
PH: (302) 436-6005

GENERAL NOTES:

1. THE PRODUCT SHOWN HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE CURRENT EDITION FLORIDA BUILDING CODE (FBC) **INCLUDING** HVHZ. ALL PRODUCTS UNDER THE SCOPE OF THIS DOCUMENT HAVE BEEN EVALUATED ACCORDING TO THE FOLLOWING:
 - TAS 201-94
 - TAS 202-94
 - TAS 203-94
2. ADEQUACY OF THE EXISTING STRUCTURAL CONCRETE/MASONRY, 2X AND METAL 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. EXTRUSION MATERIAL: ALUMINUM 6063-T6, 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. HOOD ASSEMBLY IS IMPACT RATED AND CAN BE PLACED INSIDE FRAME OPENING AS AN EXPOSED FEATURE.
9. 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.
2. THE NUMBER OF INSTALLATION ANCHORS DEPICTED IS THE MINIMUM NUMBER OF ANCHORS TO BE USED FOR PRODUCT INSTALLATION OF THE MAXIMUM SIZE LISTED.
3. INSTALL INDIVIDUAL INSTALLATION ANCHORS WITHIN A TOLERANCE OF $\pm 1/4$ INCH THE DEPICTED LOCATION & SPACING IN THE ANCHOR LAYOUT DETAILS (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 7-13 FOR ANCHOR TYPE, SUBSTRATE TYPE, MIN. 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. INSTALLATION ANCHORS AND ASSOCIATED HARDWARE MUST BE MADE OF CORROSION RESISTANT MATERIAL OR HAVE A CORROSION RESISTANT COATING.
7. FOR HOLLOW BLOCK AND GROUT FILLED BLOCK, DO NOT INSTALL INSTALLATION ANCHORS INTO MORTAR JOINTS. 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. STEEL - MINIMUM A36, 3/16" THICKNESS
 - 9.C. ALUMINUM - MINIMUM 6063-T5 3/8" THICKNESS.
 - 9.D. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - 9.E. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MIN 2000 PSI.
 - 9.F. CONCRETE -MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI.
 - 9.G. MASONRY - STRENGTH CONFORMANCE TO ASTM C-90, MIN 2000 PSI.

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TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

INSTALLATION & GENERAL NOTES

PREPARED BY:


BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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Reason: I am approving this document
Date: 2024.01.15 15:36:05 -0500



HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL14438

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DI

CHK. BY:
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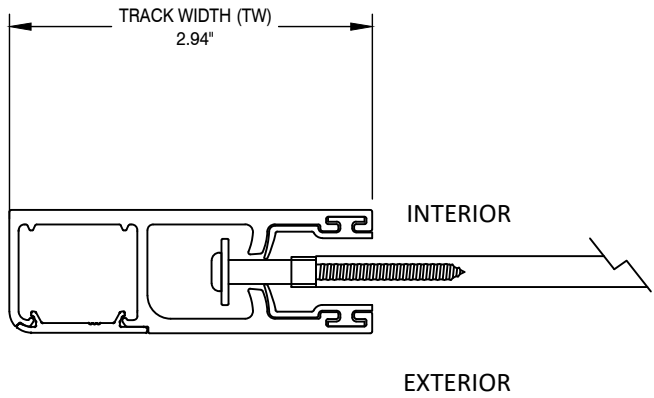
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NTS

DWG. #:
ALU005

SHEET:
1

DESIGN PRESSURE RATINGS

TABLE 1 - MAX ALLOWABLE DESIGN PRESSURE W/ END RETENTION		
TT MAX (IN)	POSITIVE (PSF)	NEGATIVE (PSF)
288	40.0	40.0
276	44.2	44.2
264	48.3	48.3
252	52.5	52.5
240	56.7	56.7
228	60.8	60.8
216	65.0	65.0
204	69.2	69.2
192	73.3	73.3
180	77.5	77.5
168	81.7	81.7
156	85.8	85.8
144	90.0	90.0
132	103.8	103.8
120	117.5	117.5
108	131.3	131.3
96	145.0	145.0
84	158.8	158.8
72	172.5	172.5
60	186.3	186.3
48	200.0	200.0



SIDE TRACK ASSEMBLY

TABLE 2: GLASS SEPARATION (GS) INCHES																					
LOAD (PSF)	TRACK TO TRACK (IN)																				
	48	60	72	84	96	108	120	132	144	156	168	180	192	204	216	228	240	252	264	276	288
40.0	3.00	3.13	3.13	3.13	3.25	3.50	3.75	4.25	5.00	5.25	5.50	5.75	6.25	6.50	7.00	7.50	8.25	9.00	9.75	10.75	11.75
44.2	3.00	3.13	3.13	3.25	3.50	3.75	4.25	4.75	5.25	5.50	6.00	6.25	6.75	7.25	7.75	8.25	9.00	9.75	10.50	11.75	-
48.3	3.00	3.13	3.25	3.50	3.75	4.00	4.50	5.00	5.75	6.00	6.50	6.75	7.25	7.75	8.25	9.00	9.75	10.50	11.50	-	-
52.5	3.00	3.25	3.50	3.75	4.00	4.25	4.75	5.25	6.25	6.50	7.00	7.25	7.75	8.25	9.00	9.75	10.50	11.25	-	-	-
56.7	3.25	3.25	3.50	3.75	4.25	4.50	5.00	5.75	6.50	7.00	7.25	7.75	8.25	9.00	9.50	10.25	11.25	-	-	-	-
60.8	3.25	3.50	3.75	4.00	4.50	4.75	5.50	6.00	7.00	7.25	7.75	8.25	9.00	9.50	10.25	11.00	-	-	-	-	-
65.0	3.50	3.75	4.00	4.25	4.75	5.25	5.75	6.50	7.50	7.75	8.25	8.75	9.50	10.00	10.75	-	-	-	-	-	-
69.2	3.75	4.00	4.25	4.50	5.00	5.50	6.00	6.75	7.75	8.25	8.75	9.25	10.00	10.75	-	-	-	-	-	-	-
73.3	3.75	4.00	4.50	4.75	5.25	5.75	6.25	7.25	8.25	8.75	9.25	9.75	10.50	-	-	-	-	-	-	-	-
77.5	4.00	4.25	4.50	5.00	5.50	6.00	6.75	7.50	8.75	9.25	9.75	10.25	-	-	-	-	-	-	-	-	-
81.7	4.25	4.50	4.75	5.25	5.75	6.25	7.00	7.75	9.00	9.50	10.25	-	-	-	-	-	-	-	-	-	-
85.8	4.25	4.50	5.00	5.50	6.00	6.50	7.25	8.25	9.50	10.00	-	-	-	-	-	-	-	-	-	-	-
90.0	4.50	4.75	5.25	5.50	6.25	6.75	7.50	8.50	9.75	-	-	-	-	-	-	-	-	-	-	-	-
103.8	5.00	5.50	5.75	6.25	7.00	7.75	8.50	9.75	-	-	-	-	-	-	-	-	-	-	-	-	-
117.5	5.50	6.00	6.50	7.00	7.75	8.50	9.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-
131.3	6.00	6.50	7.25	7.75	8.50	9.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
145.0	6.75	7.25	7.75	8.50	9.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
158.8	7.25	7.75	8.50	9.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
172.5	7.75	8.50	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
186.3	8.25	9.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200.0	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 D LARGE MISSILE IMPACTS.
 3. APPROPRIATE INSTALLATION METHOD SHALL BE USED TO ACHIEVE THE REQUIRED SEPARATION IN THE ABOVE TABLE.
 4. GLASS SEPARATION REQUIRED IN HVHZ AREAS. GLASS SEPARATION REQUIREMENTS TO BE DETERMINED BY AHJ OUTSIDE OF HVHZ REGION.



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ELEVATION & DESIGN PRESSURE TABLE

PREPARED BY:

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MIAMI, FL 33132
PH: (954)399-8478
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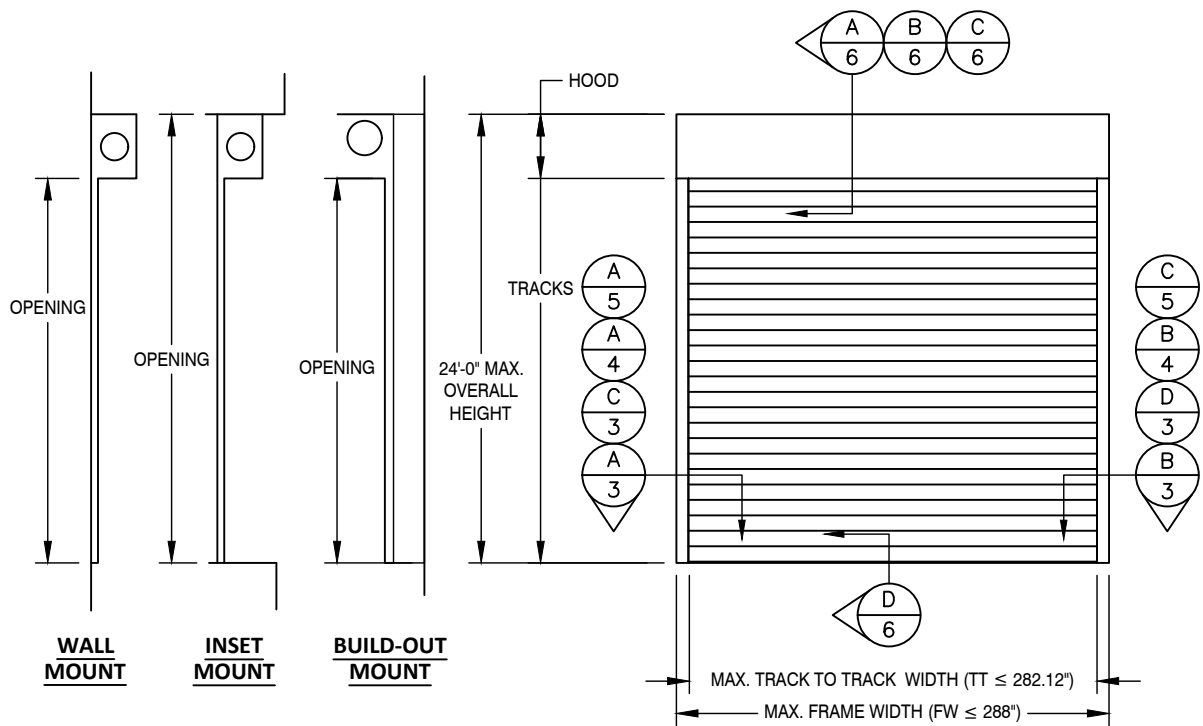
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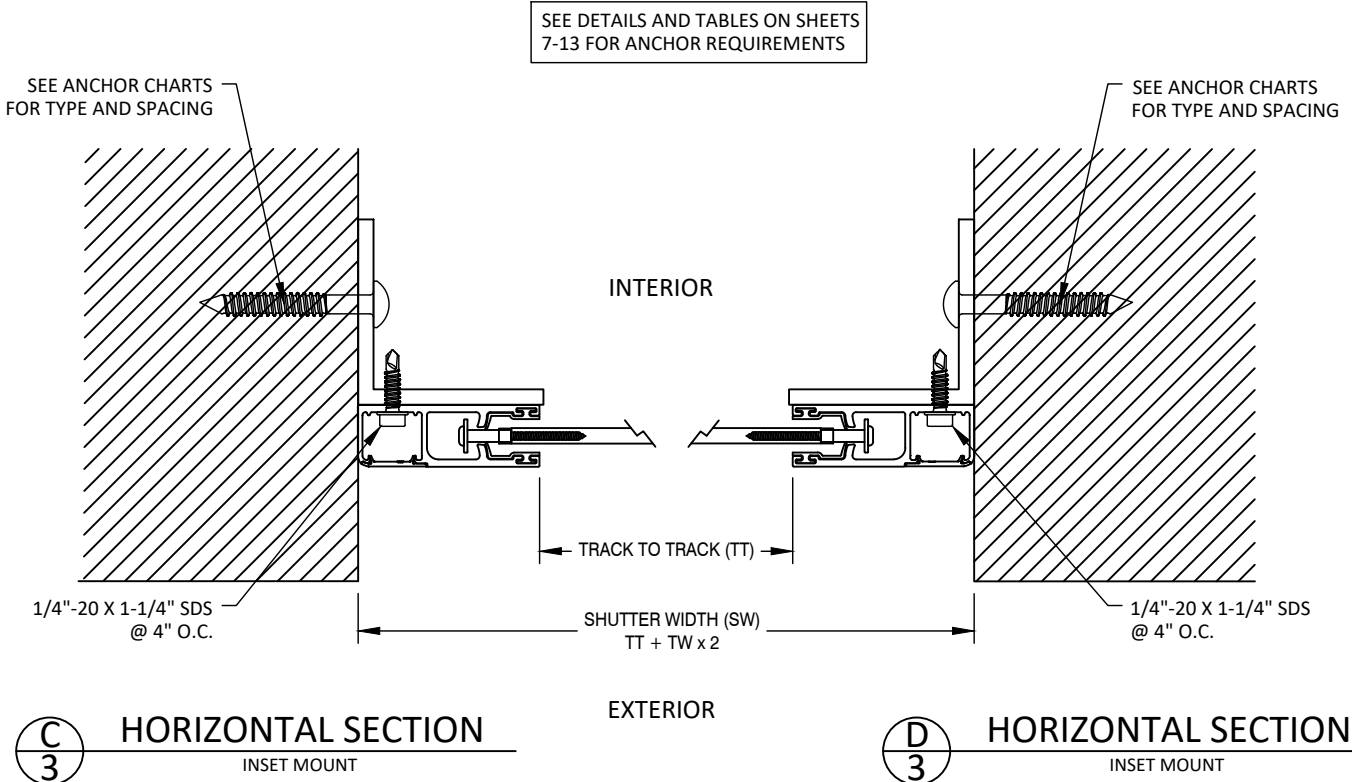
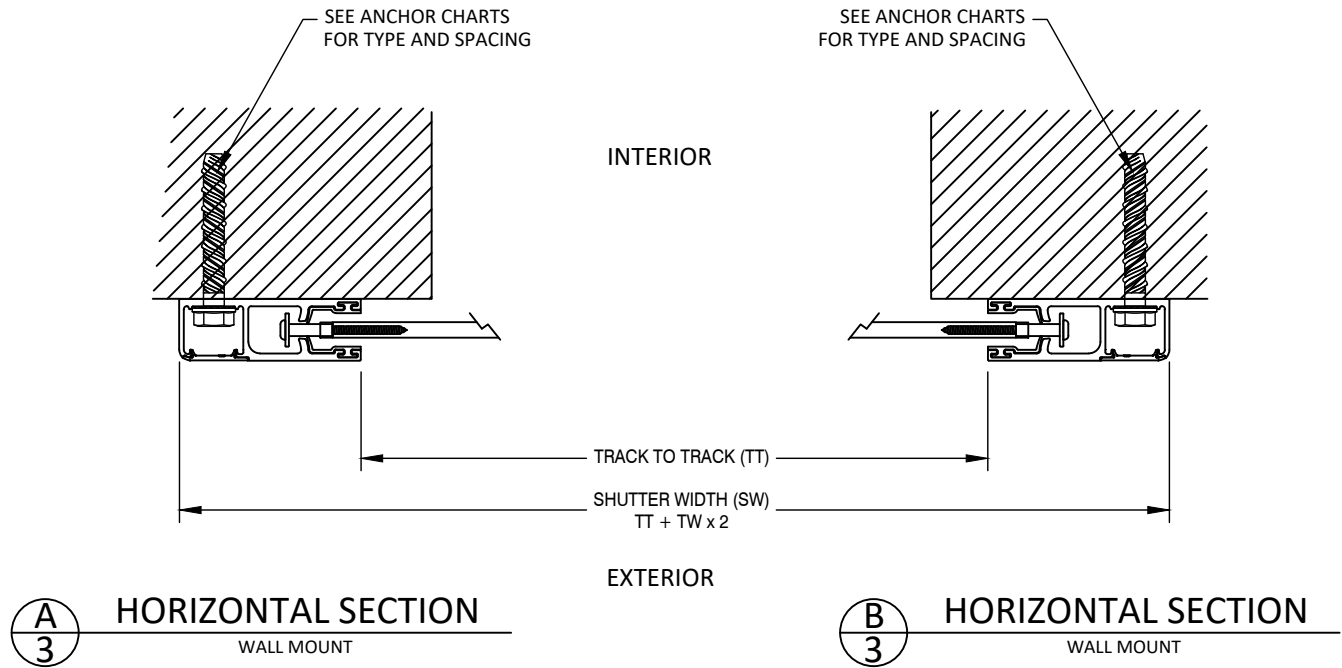
OF 22

TYPICAL SINGLE UNIT ELEVATION
WALL AND INSET MOUNT DETAILS



REVERSED INSTALLATION
IS ACCEPTABLE

COMBINATION MOUNTED:
WALL, INSET, AND BUILD-OUT
MOUNTS CAN BE INSTALLED BY MIXING
ANY POSSIBLE COMBINATIONS



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DESIGN PRESSURE TABLE

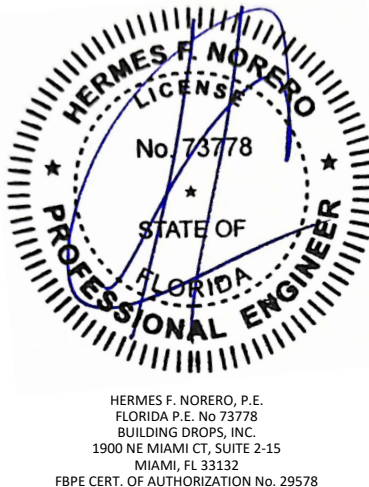
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1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954) 399-8478
FAX: (954) 744-4738
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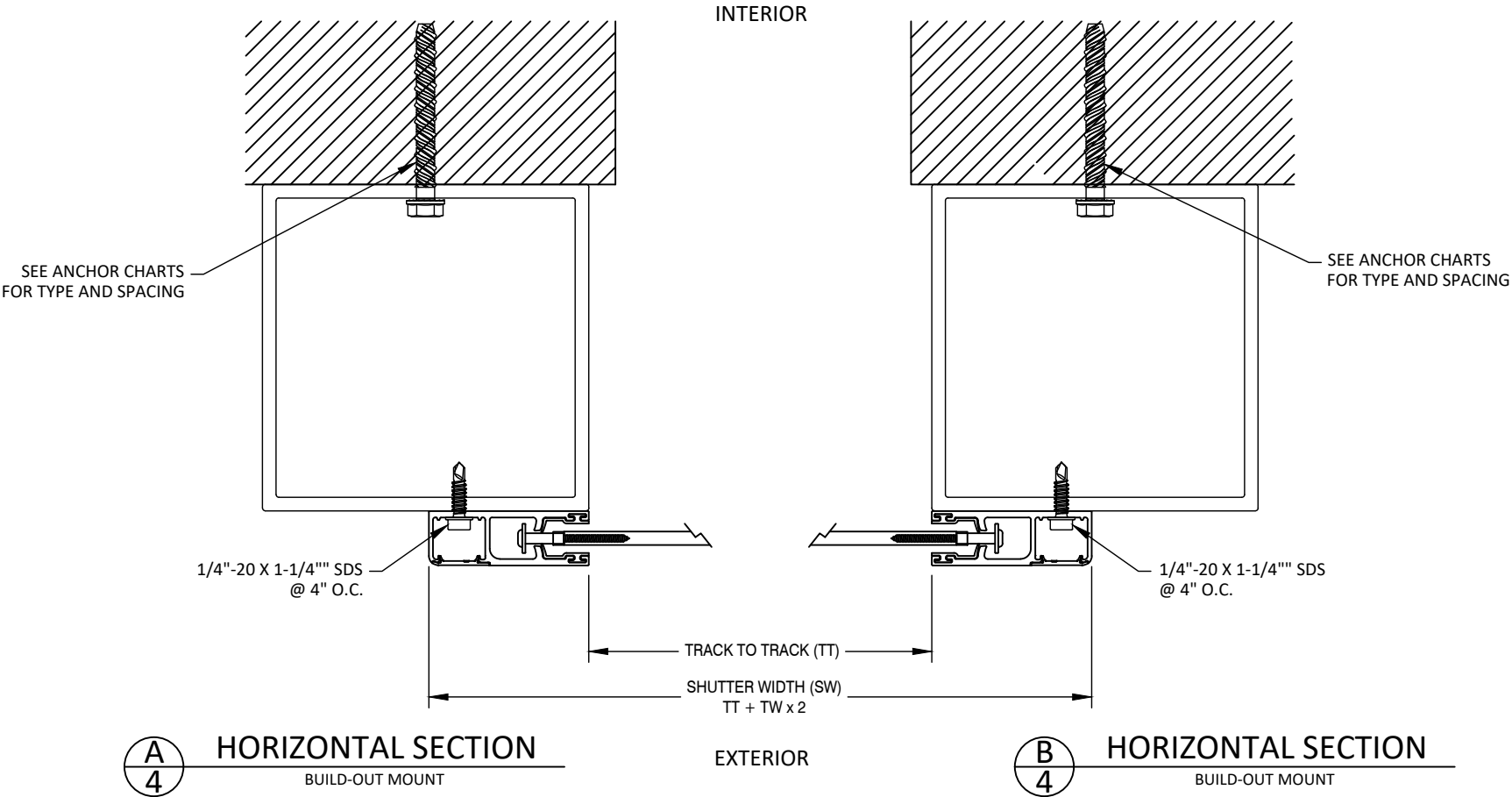
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BUILD OUT MOUNT DETAILS



SEE DETAILS AND TABLES ON SHEETS
7-13 FOR ANCHOR REQUIREMENTS

COMBINATION MOUNTED:
WALL, INSET AND BUILD-OUT
MOUNTS CAN BE INSTALLED BY MIXING
ANY POSSIBLE COMBINATIONS



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CHK. BY:
HFN

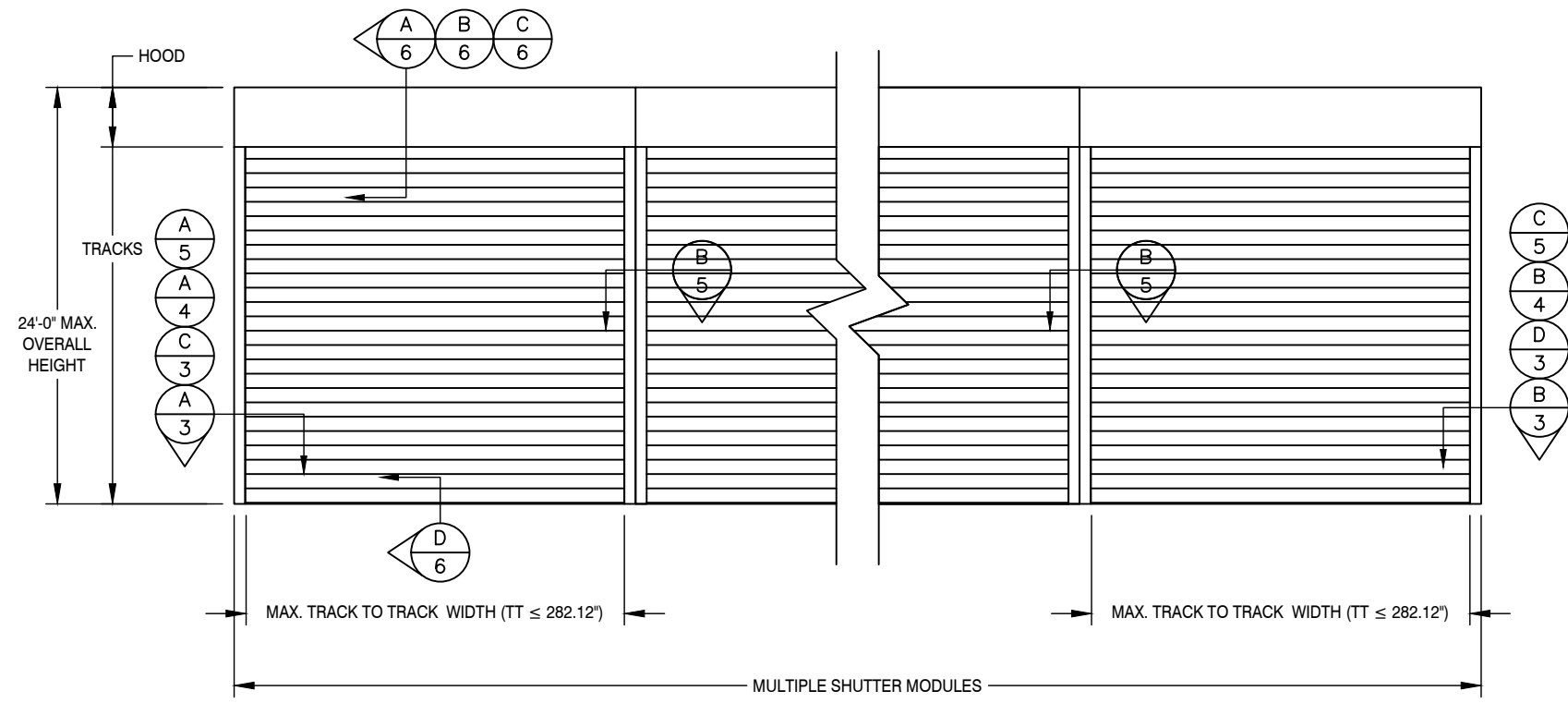
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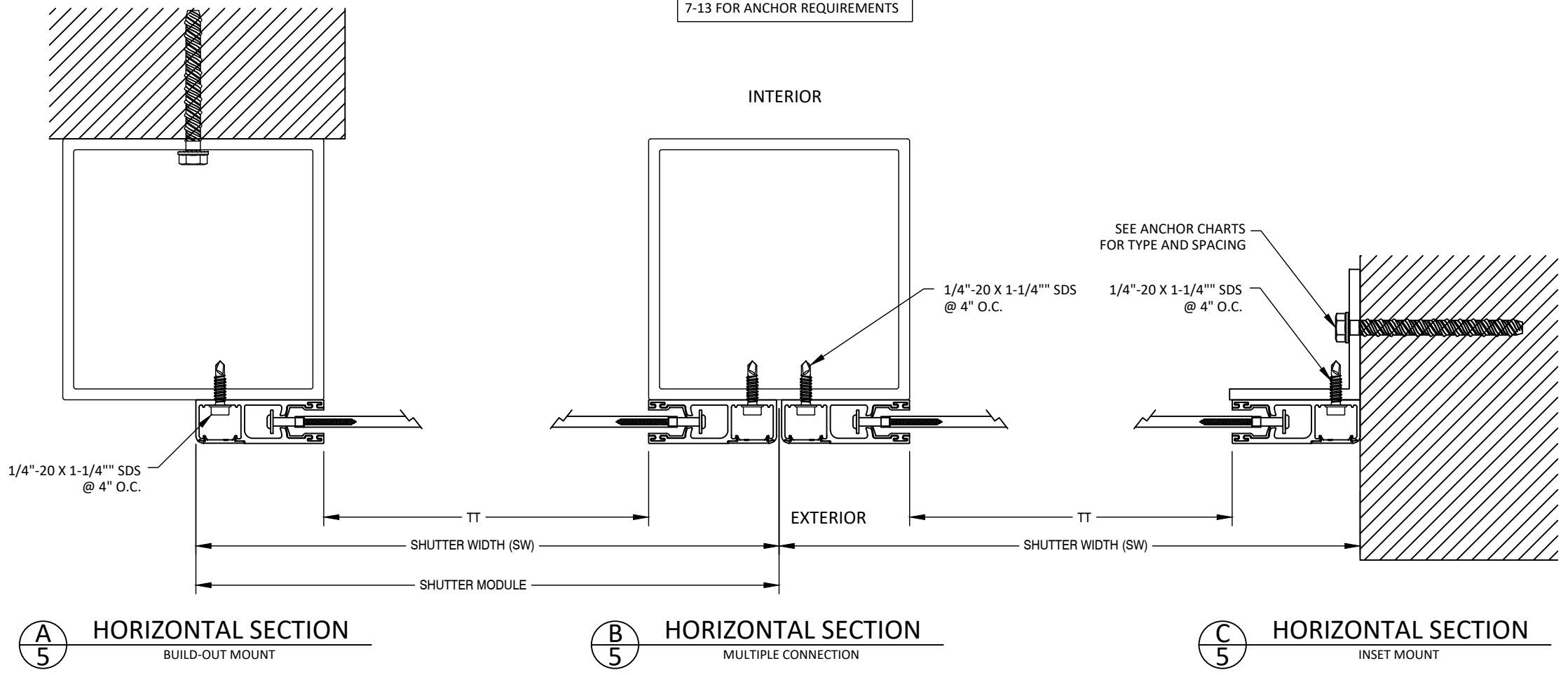
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TYPICAL MULTIPLE UNITS ELEVATION



SEE DETAILS AND TABLES ON SHEETS 7-13 FOR ANCHOR REQUIREMENTS



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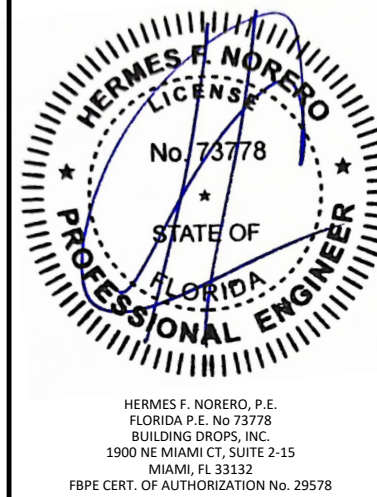
TITLE: BARRACUDA ROLL-UP SHUTTER (HVHZ) (IMPACT)
MULTIPLE UNITS - HORIZONTAL SECTIONS

PREPARED BY: BUILDING DROPS, INC.
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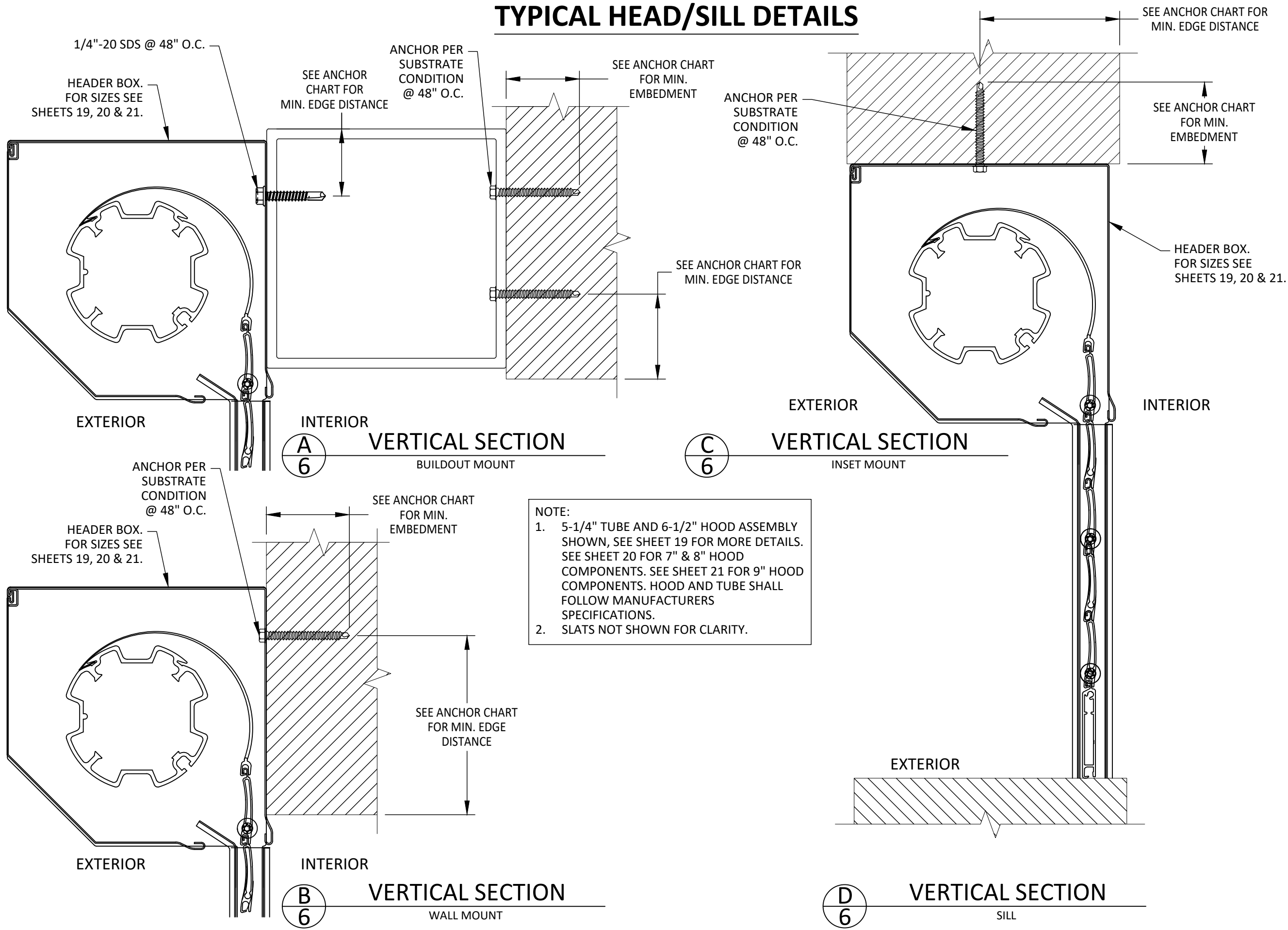
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OF 22

TYPICAL HEAD/SILL DETAILS



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TYP. VERTICAL SECTIONS

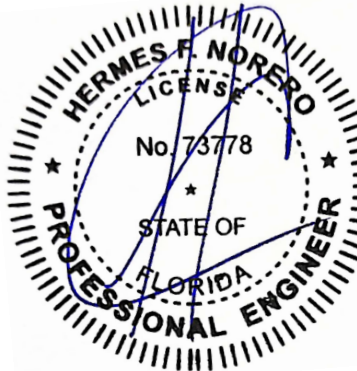
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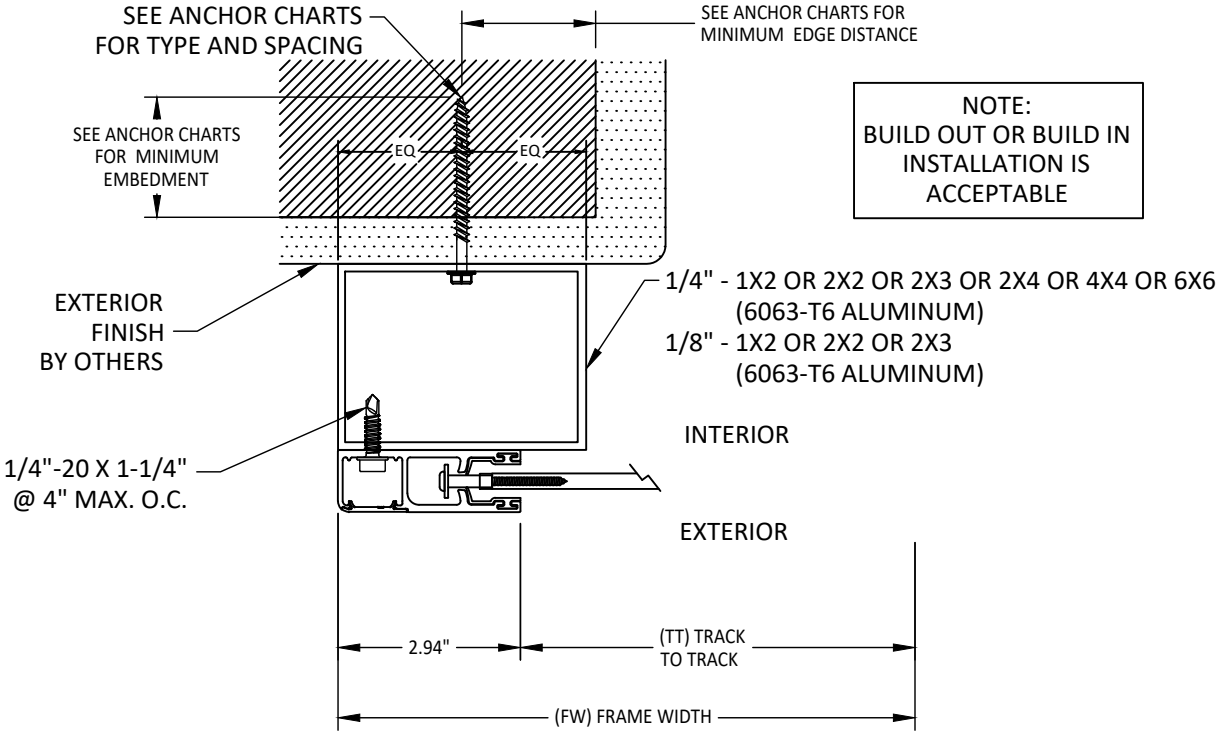


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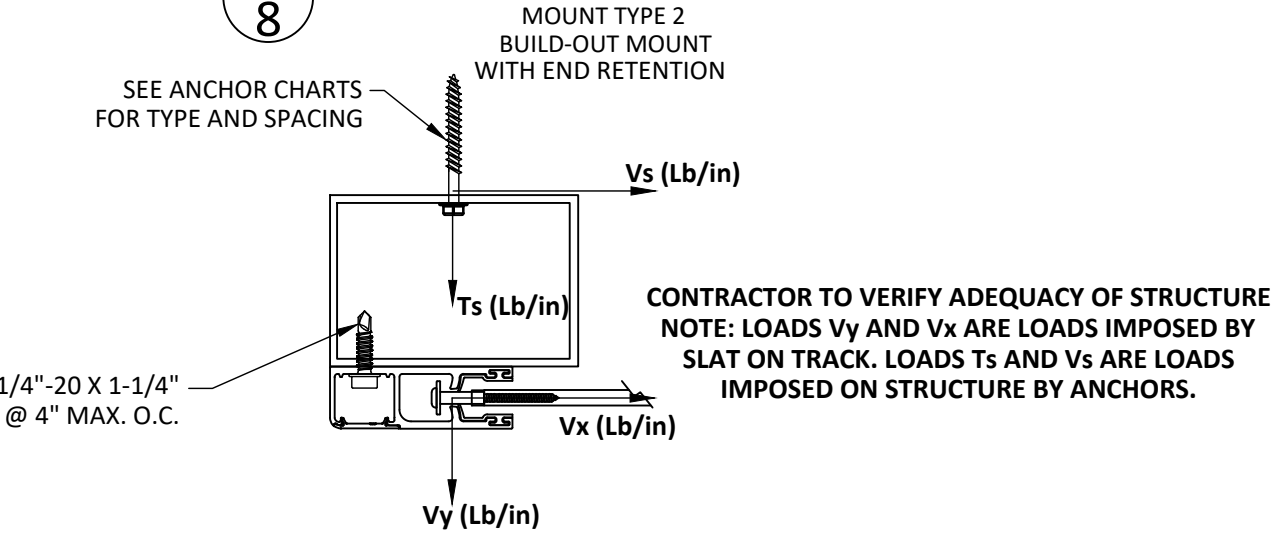
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TABLE 3 - ANCHOR SPACING						ANCHOR TYPE & SPACING WALL - MOUNT 1							ANCHOR TYPE & SPACING 1X2, 2X2, 2X3, 2X4, 4X4 OR 6X6 BO - MOUNT 2						
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	G	A	B	C	D	E	F	G
84	40	11.7	0.0	0.0	43.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	12.9	0.0	0.0	47.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48	14.1	0.0	0.0	52.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	53	15.3	0.0	0.0	56.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	57	16.5	0.0	0.0	61.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	61	17.7	0.0	0.0	65.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65	19.0	0.0	0.0	69.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	69	20.2	0.0	0.0	74.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	73	21.4	0.0	0.0	78.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	78	22.6	93.6	93.6	195.3	3	4	4	4	4	4	4	3	4	4	4	4	4	-
	82	23.8	94.8	94.8	202.4	3	4	4	4	4	4	4	-	4	4	4	4	4	-
	86	25.0	95.8	95.8	209.1	3	4	4	4	4	4	4	-	4	4	4	4	4	-
	90	26.3	96.8	96.8	215.4	3	4	4	4	4	4	4	-	4	4	4	4	4	-
	104	30.3	99.3	99.3	233.8	3	4	4	4	4	4	4	-	3	3	4	4	4	-
	118	34.3	101.3	101.3	249.6	-	4	4	4	4	4	4	-	3	3	4	4	4	-
96	131	38.3	102.9	102.9	263.6	-	4	4	4	4	4	4	-	3	3	4	4	4	-
	145	42.3	104.1	104.1	276.3	-	4	4	4	4	4	4	-	-	-	4	4	4	-
	159	46.3	105.2	105.2	288.1	-	4	4	4	4	4	4	-	-	-	4	4	4	-
	40	13.3	0.0	0.0	49.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	14.7	0.0	0.0	54.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48	16.1	0.0	0.0	59.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	53	17.5	0.0	0.0	64.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	57	18.9	0.0	0.0	69.7	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	61	20.3	0.0	0.0	74.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65	21.7	0.0	0.0	79.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	69	23.1	0.0	0.0	85.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	73	24.4	108.6	108.6	219.1	-	4	4	4	4	4	3	-	4	4	4	4	4	-
	78	25.8	110.1	110.1	228.2	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	82	27.2	111.4	111.4	236.5	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	86	28.6	112.6	112.6	244.3	-	4	4	4	4	4	3	-	3	3	4	4	4	-
108	90	30.0	113.7	113.7	251.6	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	104	34.6	116.8	116.8	273.0	-	4	4	4	4	4	3	-	-	-	4	4	4	-
	118	39.2	119.1	119.1	291.3	-	4	4	4	4	4	3	-	-	-	3	4	4	-
	131	43.8	120.9	120.9	307.6	-	4	4	4	4	4	3	-	-	-	3	4	4	-
	145	48.3	122.4	122.4	322.3	-	4	4	4	4	4	3	-	-	-	3	4	4	-
	40	15.0	0.0	0.0	55.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	16.6	0.0	0.0	61.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48	18.1	0.0	0.0	66.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	53	19.7	0.0	0.0	72.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	57	21.3	0.0	0.0	78.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	61	22.8	0.0	0.0	84.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65	24.4	0.0	0.0	89.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	69	25.9	120.7	120.7	236.2	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	73	27.5	122.6	122.6	247.2	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	78	29.1	124.3	124.3	257.4	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	82	30.6	125.8	125.8	266.8	-	4	4	4	4	4	3	-	3	-	4	4	4	-
	86	32.2	127.2	127.2	275.6	-	4	4	4	4	4	3	-	-	-	4	4	4	-
	90	33.8	128.4	128.4	283.9	-	4	4	4	4	4	-	-	-	-	4	4	4	-
	104	38.9	131.8	131.8	308.0	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	118	44.1	134.4	134.4	328.6	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	131	49.2	136.5	136.5	346.9	-	4	4	4	4	4	-	-	-	-	-	4	3	-

TYPICAL HORIZONTAL SECTIONS
BUILD OUT



A
8
HORIZONTAL SECTION



ANCHOR SCHEDULE				
ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	5/16" DEWALT ULTRAICON	WOOD, MIN. SG = 0.55	1-9/16"	2"
B	5/16" SELF DRILLING SCREW (GRADE 5)	3/16" A36 STEEL	3/4"	3 THREAD
		3/8" 6063-T5 ALUMINUM	3/4"	
C	5/16" ITW TAPCON XL	CONCRETE, MIN. 3000 PSI	2-3/16"	1-3/4"
D	5/16" ITW TAPCON XL	GROUT FILLED C-90 BLOCK	4"	
E	3/8" DEWALT SCREW-BOLT+	CONCRETE, MIN. 3000 PSI	3-1/2"	3-1/4"
F	3/8" DEWALT SCREW-BOLT+	GROUT FILLED C-90 BLOCK	3-1/2"	3-1/4"
G	#14 WOOD SCREW	WOOD, MIN. SG = 0.55	1-9/16"	2"



117 DIXON STREET
SELBYVILLE, DE 19975
PH: (302) 436-6005

TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

HORIZONTAL SECTIONS/ANCHOR
SCHEDULE

PREPARED BY:
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

BD
BUILDING DROPS

REMARKS	BY	DATE

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.

HERMES F. NORERO
LICENSE
No. 73778
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL14438

DATE:
01.15.2024

DWG. BY:
DI

CHK. BY:
HFN

SCALE:
NTS

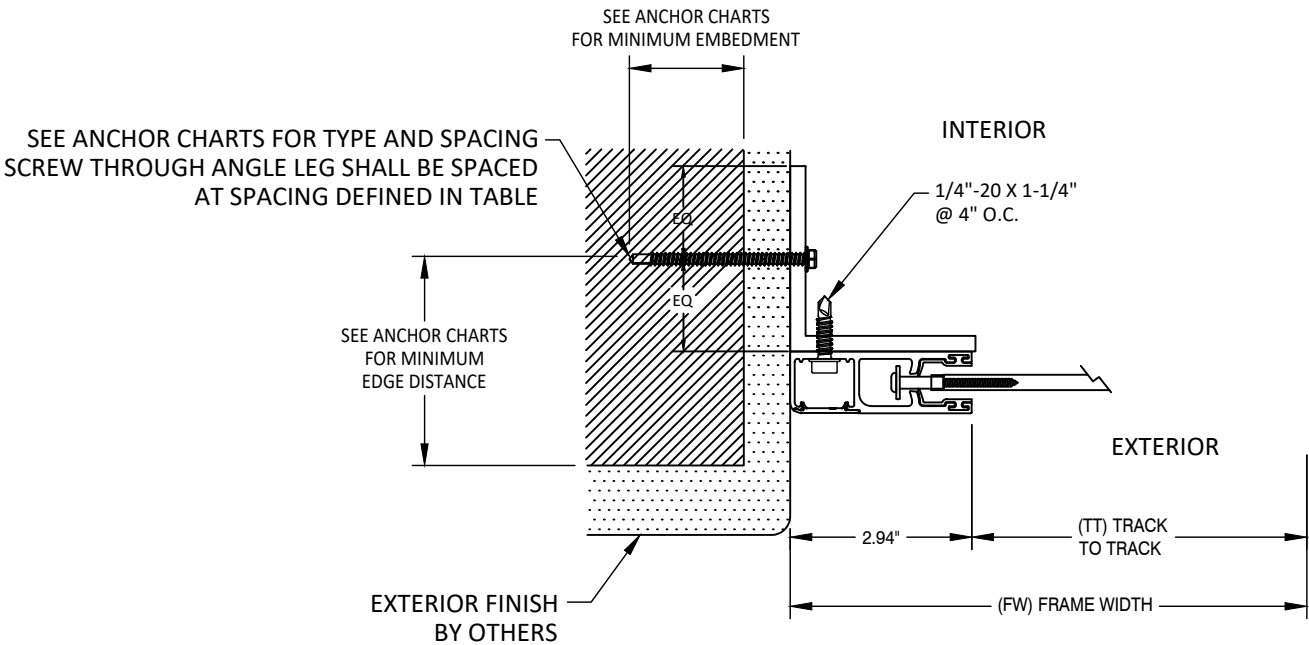
DWG. #:
ALU005

SHEET:
8

TABLE 3 - ANCHOR SPACING						ANCHOR TYPE & SPACING WALL - MOUNT 1							ANCHOR TYPE & SPACING 1X2, 2X2, 2X3, 2X4, 4X4 OR 6X6 BO - MOUNT 2						
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	G	A	B	C	D	E	F	G
120	40	16.7	0.0	0.0	61.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	18.4	0.0	0.0	67.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48	20.1	0.0	0.0	74.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	53	21.9	0.0	0.0	80.7	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	57	23.6	0.0	0.0	87.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	61	25.3	0.0	0.0	93.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65	27.1	116.2	116.2	245.1	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	69	28.8	119.3	119.3	258.3	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	73	30.6	122.1	122.1	270.4	-	4	4	4	4	4	3	-	-	-	4	4	4	-
	78	32.3	124.6	124.6	281.6	-	4	4	4	4	4	3	-	-	-	4	4	4	-
	82	34.0	126.8	126.8	291.9	-	4	4	4	4	4	3	-	-	-	3	4	4	-
	86	35.8	128.8	128.8	301.5	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	90	37.5	130.6	130.6	310.6	-	4	4	4	4	4	-	-	-	-	3	4	4	-
104	43.2	135.5	135.5	337.1	-	4	4	4	4	4	-	-	-	-	3	4	3	-	
118	49.0	139.3	139.3	359.8	-	4	4	4	4	4	-	-	-	-	-	4	3	-	
132	40	18.3	0.0	0.0	67.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	20.2	0.0	0.0	74.7	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48	22.2	0.0	0.0	81.7	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	53	24.1	0.0	0.0	88.7	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	57	26.0	0.0	0.0	95.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	61	27.9	118.7	118.7	244.8	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	65	29.8	122.4	122.4	260.4	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	69	31.7	125.7	125.7	274.5	-	4	4	4	4	4	3	-	-	-	4	4	4	-
	73	33.6	128.6	128.6	287.4	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	78	35.5	131.2	131.2	299.3	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	82	37.4	133.5	133.5	310.4	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	86	39.3	135.6	135.6	320.7	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	90	41.3	137.5	137.5	330.3	-	4	4	4	4	4	-	-	-	-	3	4	3	-
104	47.6	142.8	142.8	358.7	-	4	4	4	4	4	-	-	-	-	-	4	3	-	
144	40	20.0	0.0	0.0	73.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	22.1	0.0	0.0	81.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48	24.2	0.0	0.0	89.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	53	26.3	111.4	111.4	214.8	-	4	4	4	4	4	3	-	4	4	4	4	4	-
	57	28.3	116.5	116.5	235.0	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	61	30.4	120.8	120.8	252.9	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	65	32.5	124.6	124.6	269.0	-	4	4	4	4	4	3	-	-	-	4	4	4	-
	69	34.6	128.0	128.0	283.7	-	4	4	4	4	4	-	-	-	-	4	4	4	-
	73	36.7	130.9	130.9	297.0	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	78	38.8	133.6	133.6	309.4	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	82	40.8	135.9	135.9	320.9	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	86	42.9	138.1	138.1	331.6	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	90	45.0	140.0	140.0	341.7	-	4	4	4	4	4	-	-	-	-	3	4	3	-
156	40	21.7	0.0	0.0	79.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	23.9	0.0	0.0	88.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48	26.2	0.0	0.0	96.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	53	28.4	122.5	122.5	235.3	-	4	4	4	4	4	3	-	3	3	4	4	4	-
	57	30.7	128.0	128.0	257.4	-	4	4	4	4	4	-	-	3	3	4	4	4	-
	61	33.0	132.8	132.8	277.1	-	4	4	4	4	4	-	-	-	-	4	4	4	-
	65	35.2	137.0	137.0	294.7	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	69	37.5	140.6	140.6	310.7	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	73	39.7	143.9	143.9	325.4	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	78	42.0	146.8	146.8	338.9	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	82	44.2	149.4	149.4	351.5	-	4	4	4	4	4	-	-	-	-	-	4	3	-
	86	46.5	151.7	151.7	363.2	-	4	4	4	4	4	-	-	-	-	-	4	3	-

TABLE 3 - ANCHOR SPACING						ANCHOR TYPE & SPACING WALL - MOUNT 1							ANCHOR TYPE & SPACING 1X2, 2X2, 2X3, 2X4, 4X4 OR 6X6 BO - MOUNT 2						
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	G	A	B	C	D	E	F	G
168	40	23.3	0.0	0.0	86.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	25.8	0.0	0.0	95.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48	28.2	0.0	0.0	104.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	53	30.6	132.7	132.7	254.7	-	4	4	4	4	4	-	-	3	3	4	4	4	-
	57	33.1	138.7	138.7	278.6	-	4	4	4	4	4	-	-	-	-	4	4	4	-
	61	35.5	143.9	143.9	299.9	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	65	37.9	148.4	148.4	319.0	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	69	40.3	152.4	152.4	336.3	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	73	42.8	155.9	155.9	352.2	-	4	4	4	4	4	-	-	-	-	-	4	3	-
	82	47.6	161.9	161.9	380.4	-	4	4	4	4	4	-	-	-	-	-	4	3	-
180	40	25.0	0.0	0.0	92.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	27.6	0.0	0.0	101.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48	30.2	134.5	134.5	243.5	-	4	4	4	4	4	-	-	3	3	4	4	4	-
	53	32.8	142.1	142.1	272.7	-	4	4	4	4	4	-	-	-	-	4	4	4	-
	57	35.4	148.5	148.5	298.3	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	61	38.0	154.0	154.0	321.0	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	65	40.6	158.9	158.9	341.5	-	4	4	4	4	4	-	-	-	-	-	4	3	-
	69	43.2	163.1	163.1	360.0	-	4	4	4	4	4	-	-	-	-	-	4	3	-
192	40	26.7	0.0	0.0	98.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	29.4	0.0	0.0	108.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48	32.2	142.3	142.3	258.1	-	4	4	4	4	4	-	-	3	3	4	4	4	-
	53	35.0	150.3	150.3	289.0	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	57	37.8	157.1	157.1	316.2	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	61	40.6	163.0	163.0	340.3	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	65	43.3	168.1	168.1	361.9	-	4	4	4	4	4	-	-	-	-	-	4	3	-
	69	46.1	172.6	172.6	381.6	-	4	4	4	4	4	-	-	-	-	-	4	-	-
204	40	28.3	0.0	0.0	104.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	31.3	139.1	139.1	233.5	-	4	4	4	4	4	-	-	3	3	4	4	4	-
	48	34.2	149.0	149.0	271.1	-	4	4	4	4	4	-	-	-	-	4	4	4	-
	53	37.2	157.3	157.3	303.5	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	57	40.1	164.4	164.4	332.0	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	61	43.1	170.6	170.6	357.3	-	4	4	4	4	4	-	-	-	-	-	4	3	-
	65	46.0	175.9	175.9	380.1	-	4	4	4	4	4	-	-	-	-	-	4	3	-
	69	49.0	180.6	180.6	400.8	-	4	4	4	4	4	-	-	-	-	-	4	-	-
216	40	30.0	0.0	0.0	54.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44	33.1	144.1	144.1	243.2	-	4	4	4	4	4	-	-	3	3	4	4	4	-
	48	36.3	154.3	154.3	282.2	-	4	4	4	4	4	-	-	-	-	4	4	4	-
	53	39.4	163.0	163.0	316.0	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	57	42.5	170.4	170.4	345.6	-	4	4	4	4	4	-	-	-	-	-	4	3	-
	61	45.6	176.7	176.7	372.0	-	4	4	4	4	4	-	-	-	-	-	4	3	-
	65	48.8	182.3	182.3	395.7	-	4	4	4	4	4	-	-	-	-	-	4	-	-
228	40	31.7	135.0	135.0	203.8	-	4	4	4	4	4	-	3	4	4	4	4	4	-
	44	35.0	147.8	147.8	251.2	-	4	4	4	4	4	-	-	3	3	4	4	4	-
	48	38.3	158.3	158.3	291.4	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	53	41.6	167.2	167.2	326.3	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	57	44.9	174.7	174.7	356.8	-	4	4	4	4	4	-	-	-	-	-	4	3	-
	61	48.2	181.3	181.3	384.0	-	4	4	4	4	4	-	-	-	-	-	4	-	-
240	40	33.3	137.1	137.1	209.1	-	4	4	4	4	4	-	-	4	4	4	4	4	-
	44	36.8	150.1	150.1	257.5	-	4	4	4	4	4	-	-	3	3	4	4	4	-
	48	40.3	160.8	160.8	298.5	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	53	43.8	169.8	169.8	334.1	-	4	4	4	4	4	-	-	-	-	3	4	3	-
	57	47.2	177.4	177.4	365.4	-	4	4	4	4	4	-	-	-	-	-	4	3	-
252	40	35.0	137.9	137.9	212.9	-	4	4	4	4	4	-	-	4	4	4	4	4	-
	44	38.7	150.9	150.9	261.8	-	4	4	4	4	4	-	-	3	3	4	4	4	-
	48	42.3	161.6	161.6	303.4	-	4	4	4	4	4	-	-	-	-	3	4	4	-
	53	45.9	170.7	170.7	339.4	-	4	4	4	4	4	-	-	-	-	3	4	3	-
264	40	36.7	137.1	137.1	215.2	-	4	4	4	4	4	-	-	4	4	4	4	4	-
	44	40.5	150.0	150.0	264.1	-	4	4	4	4	4	-	-	3	3	4	4	4	-
	48	44.3	160.7	160.7	305.8	-	4	4	4	4	4	-	-	-	-	3	4	4	-
276	40	38.3	134.8	134.8	215.7	-	4	4	4	4	4	-	-	4	4	4	4	4	-
	44	42.3	147.6	147.6	264.3	-	4	4	4	4	4	-	-	3	3	4	4	4	-
288	40	40.0	131.0	131.0	214.5	-	4	4	4	4	4	-	-	4	4	4	4	4	-

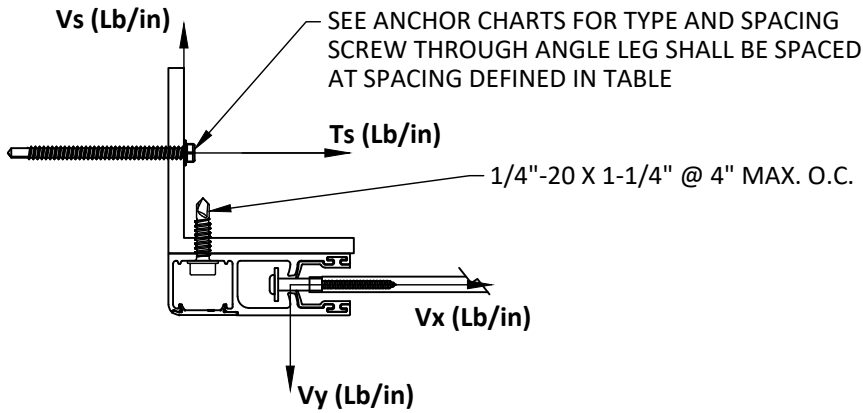
TYPICAL HORIZONTAL SECTIONS
INSET MOUNT



A
10

HORIZONTAL SECTION

MOUNT TYPE 3
INSET 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.

SEE SHEETS 11 & 12 FOR ANCHOR SPACING TABLES

ANCHOR SCHEDULE				
ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
A	5/16" DEWALT ULTRA CON	WOOD, MIN. SG = 0.55	1-9/16"	2"
B	5/16" SELF DRILLING SCREW (GRADE 5)	3/16" A36 STEEL 3/8" 6063-T5 ALUMINUM	3/4"	
C	5/16" ITW TAPCON XL	CONCRETE, MIN. 3000 PSI	2-3/16"	1-3/4"
D	5/16" ITW TAPCON XL	GROUT FILLED C-90 BLOCK	4"	2-1/4"
E	3/8" DEWALT SCREW-BOLT+	CONCRETE, MIN. 3000 PSI	3-1/2"	3-1/4"
F	3/8" DEWALT SCREW-BOLT+	GROUT FILLED C-90 BLOCK	3-1/2"	3-1/4"
G	#14 WOOD SCREW	WOOD, MIN. SG = 0.55	1-9/16"	2"



117 DIXON STREET
SELBYVILLE, DE 19975
PH: (302) 436-6005

TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

TYPICAL HORIZONTAL SECTION - INSET
MOUNT

PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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.

HERMES F. NORERO, P.E.
FLORIDA P.E. No. 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL14438**

DATE: **01.15.2024**

DWG. BY: **DI** CHK. BY: **HFN**

SCALE: **NTS**

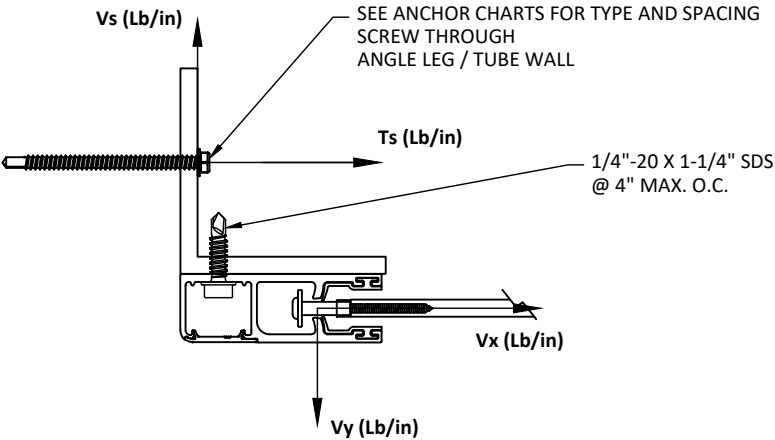
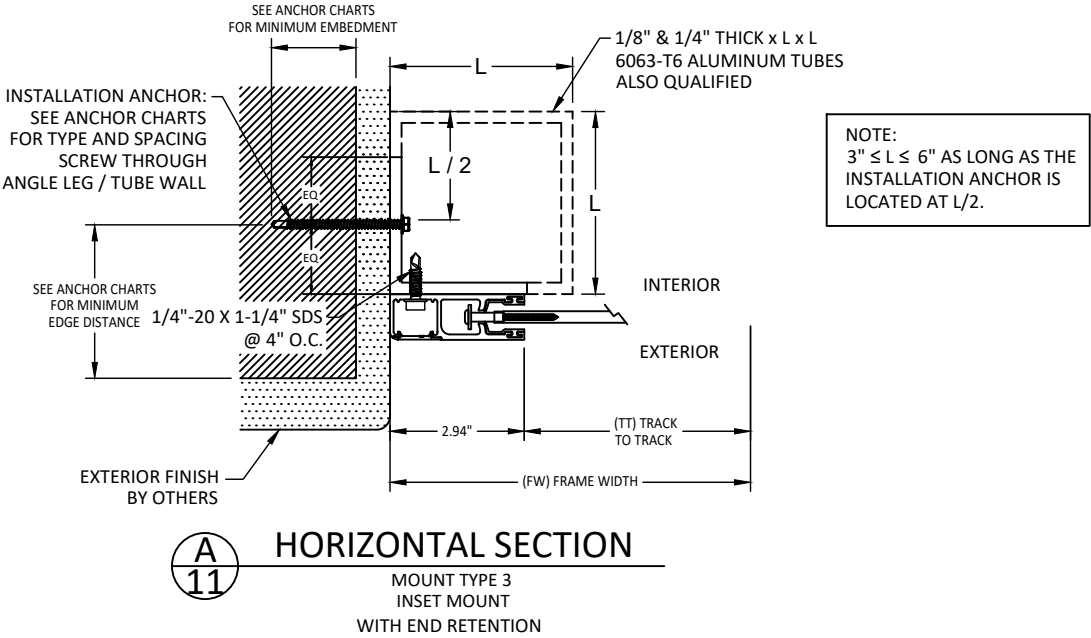
DWG. #: **ALU005**

SHEET:

10

TABLE 4 - ANCHOR SPACING						ANCHOR TYPE & SPACING INSET - MOUNT 3 1/8" THICK ALUMINUM TUBES							ANCHOR TYPE & SPACING INSET - MOUNT 3 1/4" THICK ALUMINUM ANGLE AND TUBES						
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	G	A	B	C	D	E	F	G
48	40.0	6.7	0.0	6.7	8.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	7.4	0.0	7.4	9.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	8.1	0.0	8.1	10.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	8.8	0.0	8.8	11.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	56.7	9.4	0.0	9.4	12.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	60.8	10.1	0.0	10.1	13.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65.0	10.8	0.0	10.8	14.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	69.2	11.5	0.0	11.5	14.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	73.3	12.2	0.0	12.2	15.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	77.5	12.9	43.6	12.9	118.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	81.7	13.6	43.9	13.6	120.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	85.8	14.3	44.2	14.3	121.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	90.0	15.0	44.5	15.0	123.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	103.8	17.3	45.2	17.3	127.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	117.5	19.6	45.8	19.6	132.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	131.3	21.9	46.2	21.9	136.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	145.0	24.2	46.6	24.2	139.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
60	158.8	26.5	46.9	26.5	143.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	172.5	28.8	47.1	28.8	147.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	186.3	31.0	47.3	31.0	150.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	200.0	33.3	47.5	33.3	153.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	40.0	8.3	0.0	8.3	10.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	9.2	0.0	9.2	11.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	10.1	0.0	10.1	13.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	10.9	0.0	10.9	14.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	56.7	11.8	0.0	11.8	15.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	60.8	12.7	0.0	12.7	16.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65.0	13.5	0.0	13.5	17.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	69.2	14.4	0.0	14.4	18.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	73.3	15.3	0.0	15.3	19.7	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	77.5	16.1	62.4	16.1	166.5	4	4	4	4	4	4	3	4	4	4	4	4	4	3
	81.7	17.0	62.9	17.0	168.7	4	4	4	4	4	4	3	4	4	4	4	4	4	3
	85.8	17.9	63.3	17.9	170.8	4	4	4	4	4	4	3	4	4	4	4	4	4	3
	90.0	18.8	63.7	18.8	172.8	4	4	4	4	4	4	3	4	4	4	4	4	4	3
72	103.8	21.6	64.7	21.6	179.0	4	4	4	4	4	4	3	4	4	4	4	4	4	3
	117.5	24.5	65.6	24.5	184.6	4	4	4	4	4	4	3	4	4	4	4	4	4	3
	131.3	27.3	66.2	27.3	189.8	4	4	4	4	4	4	3	4	4	4	4	4	4	3
	145.0	30.2	66.7	30.2	194.7	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	158.8	33.1	67.1	33.1	199.4	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	172.5	35.9	67.5	35.9	203.9	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	186.3	38.8	67.8	38.8	208.3	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	40.0	10.0	0.0	10.0	12.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	11.0	0.0	11.0	14.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	12.1	0.0	12.1	15.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	13.1	0.0	13.1	17.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	56.7	14.2	0.0	14.2	18.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	60.8	15.2	0.0	15.2	19.7	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65.0	16.3	0.0	16.3	21.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	69.2	17.3	0.0	17.3	22.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	73.3	18.3	0.0	18.3	23.7	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	77.5	19.4	82.0	19.4	216.3	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	81.7	20.4	82.6	20.4	219.1	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	85.8	21.5	83.1	21.5	221.7	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	90.0	22.5	83.7	22.5	224.3	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	103.8	25.9	85.0	25.9	231.9	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	117.5	29.4	86.1	29.4	238.9	3	4	4	4	4	4	-	4	4	4	4	4	4	-
	131.3	32.8	86.9	32.8	245.3	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	145.0	36.3	87.6	36.3	251.3	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	158.8	39.7	88.2	39.7	257.0	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	172.5	43.1	88.7	43.1	262.6	3	3	3	4	4	4	-	3	3	3	4	4	4	-

TYPICAL HORIZONTAL
SECTIONS
INSET MOUNT



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.



117 DIXON STREET
SELBYVILLE, DE 19975
PH: (302) 436-6005

TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

TYPICAL HORIZONTAL MOUNT - INSET
MOUNT ANCHOR SCHEDULE

PREPARED BY:
 BUILDING DROPS

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com

REMARKS	BY	DATE

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.

HERMES F. NORERO, P.E.
FLORIDA P.E. No 73778
BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
FBPE CERT. OF AUTHORIZATION No. 29578

FL #:
FL14438

DATE:
01.15.2024

DWG. BY:
DI

CHK. BY:
HFN

SCALE:
NTS

DWG. #:
ALU005

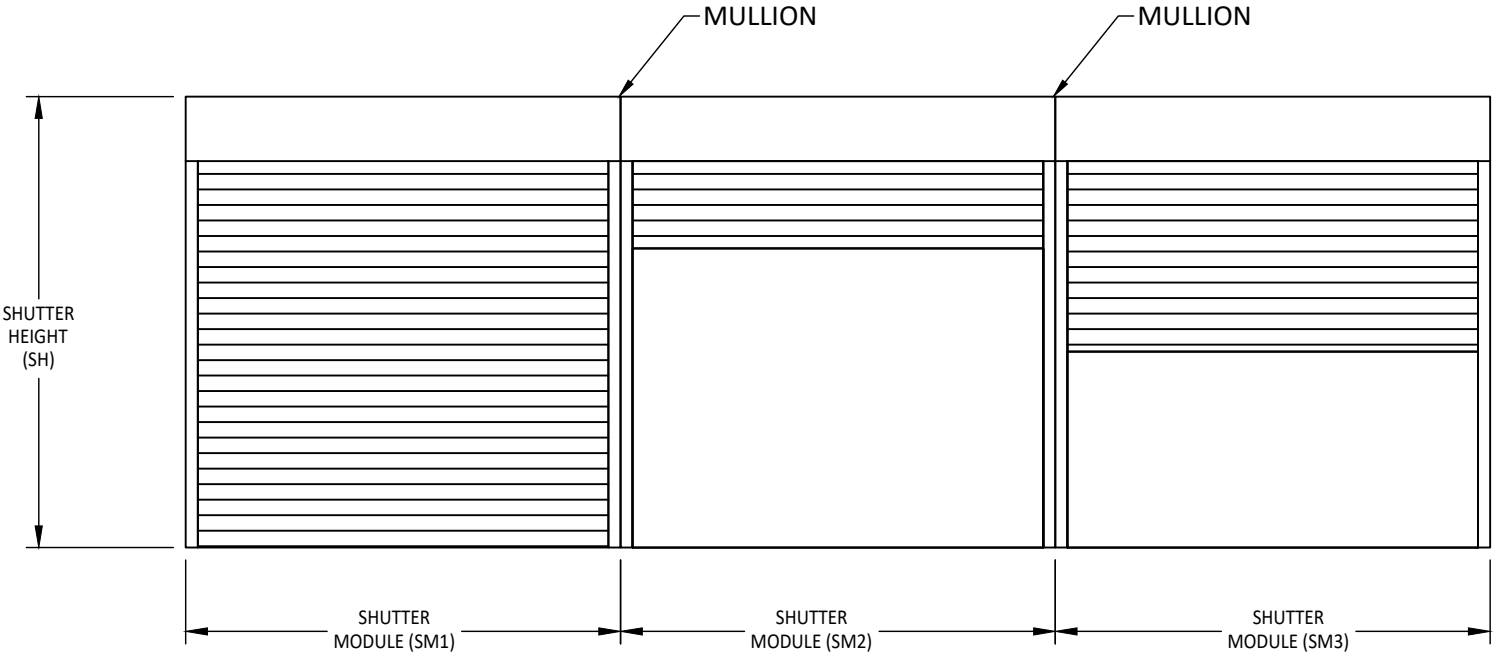
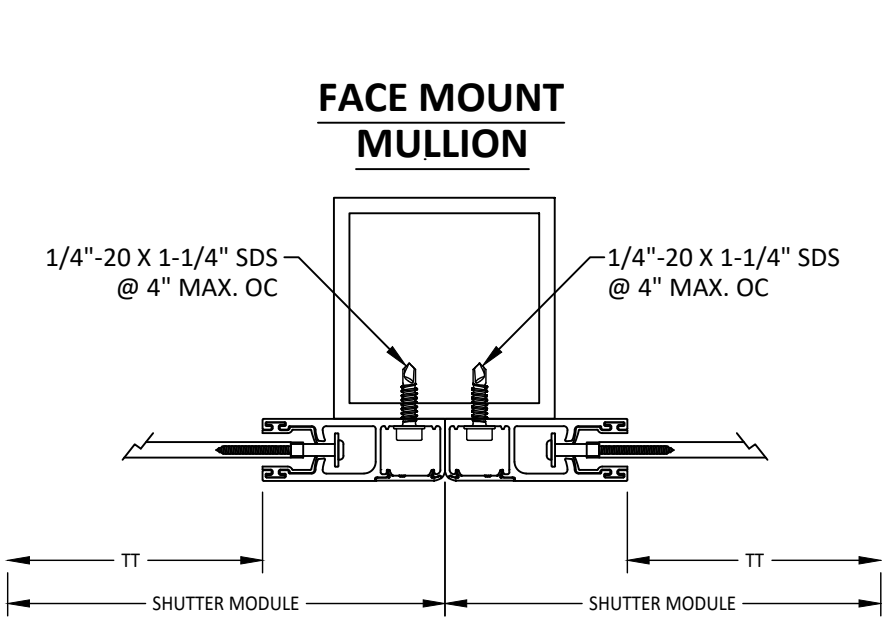
SHEET:
11

TABLE 4 - ANCHOR SPACING						ANCHOR TYPE & SPACING INSET - MOUNT 3 1/8" THICK ALUMINUM TUBES							ANCHOR TYPE & SPACING INSET - MOUNT 3 1/4" THICK ALUMINUM ANGLE AND TUBES						
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	G	A	B	C	D	E	F	G
84	40.0	11.7	0.0	11.7	15.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	12.9	0.0	12.9	16.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	14.1	0.0	14.1	18.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	15.3	0.0	15.3	19.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	56.7	16.5	0.0	16.5	21.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	60.8	17.7	0.0	17.7	22.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65.0	19.0	0.0	19.0	24.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	69.2	20.2	0.0	20.2	26.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	73.3	21.4	0.0	21.4	27.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	77.5	22.6	93.6	22.6	247.7	4	3	3	4	4	4	-	4	3	3	4	4	4	-
	81.7	23.8	94.8	23.8	252.0	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	85.8	25.0	95.8	25.0	256.0	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	90.0	26.3	96.8	26.3	259.7	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	103.8	30.3	99.3	30.3	270.9	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	117.5	34.3	101.3	34.3	280.6	3	3	3	4	4	4	-	3	3	3	4	4	4	-
96	131.3	38.3	102.9	38.3	289.4	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	145.0	42.3	104.1	42.3	297.6	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	158.8	46.3	105.2	46.3	305.2	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	40.0	13.3	0.0	13.3	17.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	14.7	0.0	14.7	19.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	16.1	0.0	16.1	20.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	17.5	0.0	17.5	22.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	56.7	18.9	0.0	18.9	24.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	60.8	20.3	0.0	20.3	26.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65.0	21.7	0.0	21.7	28.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	69.2	23.1	0.0	23.1	29.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	73.3	24.4	108.6	24.4	284.9	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	77.5	25.8	110.1	25.8	290.2	3	-	-	4	4	4	-	3	-	-	4	4	4	-
	81.7	27.2	111.4	27.2	295.2	-	-	-	4	4	4	-	3	-	-	4	4	4	-
	85.8	28.6	112.6	28.6	299.8	-	-	-	4	4	4	-	-	-	-	4	4	4	-
108	90.0	30.0	113.7	30.0	304.2	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	103.8	34.6	116.8	34.6	317.1	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	117.5	39.2	119.1	39.2	328.4	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	131.3	43.8	120.9	43.8	338.6	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	145.0	48.3	122.4	48.3	348.0	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	40.0	15.0	0.0	15.0	19.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	16.6	0.0	16.6	21.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	18.1	0.0	18.1	23.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	19.7	0.0	19.7	25.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	56.7	21.3	0.0	21.3	27.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	60.8	22.8	0.0	22.8	29.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65.0	24.4	0.0	24.4	31.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	69.2	25.9	120.7	25.9	315.1	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	73.3	27.5	122.6	27.5	321.6	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	77.5	29.1	124.3	29.1	327.5	-	-	-	3	4	4	-	-	-	-	3	4	4	-
120	81.7	30.6	125.8	30.6	333.1	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	85.8	32.2	127.2	32.2	338.3	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	90.0	33.8	128.4	33.8	343.3	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	103.8	38.9	131.8	38.9	357.9	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	117.5	44.1	134.4	44.1	370.6	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	131.3	49.2	136.5	49.2	382.1	-	-	-	-	4	3	-	-	-	-	-	4	3	-
	40.0	16.7	0.0	16.7	21.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	18.4	0.0	18.4	23.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	20.1	0.0	20.1	26.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	21.9	0.0	21.9	28.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	56.7	23.6	0.0	23.6	30.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	60.8	25.3	0.0	25.3	32.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	65.0	27.1	129.1	27.1	336.3	-	-	-	3	4	4	-	4	4	4	4	4	4	4
	69.2	28.8	131.5	28.8	344.0	-	-	-	3	4	4	-	-	-	-	4	4	4	-
	73.3	30.6	133.5	30.6	351.1	-	-	-	3	4	4	-	-	-	-	4	4	4	-
	77.5	32.3	135.4	32.3	357.6	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	81.7	34.0	137.0	34.0	363.7	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	85.8	35.8	138.5	35.8	369.5	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	90.0	37.5	139.9	37.5	374.9	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	103.8	43.2	143.6	43.2	391.0	-	-	-	-	4	3	-	-	-	-	3	4	4	-
	117.5	49.0	146.5	49.0	405.0	-	-	-	-	4	3	-	-	-	-	3	4	4	-

TABLE 4 - ANCHOR SPACING						ANCHOR TYPE & SPACING INSET - MOUNT 3 1/8" THICK ALUMINUM TUBES							ANCHOR TYPE & SPACING INSET - MOUNT 3 1/4" THICK ALUMINUM ANGLE AND TUBES						
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	G	A	B	C	D	E	F	G
132	40.0	18.3	0.0	23.7	18.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	20.2	0.0	26.2	20.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	22.2	0.0	28.6	22.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	24.1	0.0	31.1	24.1	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	56.7	26.0	0.0	33.6	26.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	60.8	27.9	118.7	313.0	27.9	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	65.0	29.8	122.4	324.2	29.8	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	69.2	31.7	125.7	334.3	31.7	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	73.3	33.6	128.6	343.5	33.6	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	77.5	35.5	131.2	352.0	35.5	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	81.7	37.4	133.5	359.9	37.4	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	85.8	39.3	135.6	367.3	39.3	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	90.0	41.3	137.5	374.2	41.3	-	-	-	3	4	4	-	-	-	-	3	4	4	-
103.8	47.6	142.8	394.5	47.6	-	-	-	-	4	3	-	-	-	-	-	4	3	-	
144	40.0	20.0	0.0	20.0	25.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	22.1	0.0	22.1	28.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	24.2	0.0	24.2	31.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	26.3	60.0	26.3	174.0	4	4	4	4	4	4	3	4	4	4	4	4	4	3
	56.7	28.3	68.8	28.3	197.2	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	60.8	30.4	76.5	30.4	217.7	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	65.0	32.5	83.1	32.5	235.9	3	4	4	4	4	4	-	4	4	4	4	4	-	
	69.2	34.6	88.9	34.6	252.2	3	3	3	4	4	4	-	3	3	3	4	4	-	
	73.3	36.7	94.1	36.7	266.9	3	3	3	4	4	4	-	3	3	3	4	4	-	
	77.5	38.8	98.7	38.8	280.4	-	3	3	4	4	4	-	3	3	3	4	4	-	
	81.7	40.8	102.9	40.8	292.8	-	-	-	4	4	4	-	-	-	-	4	4	-	
	85.8	42.9	106.6	42.9	304.2	-	-	-	4	4	4	-	-	-	-	4	4	-	
	90.0	45.0	110.0	45.0	314.8	-	-	-	4	4	4	-	-	-	-	4	4	-	
156	40.0	21.7	0.0	21.7	28.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	23.9	0.0	23.9	30.9	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	26.2	0.0	26.2	33.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	28.4	66.0	28.4	190.6	4	4	4	4	4	4	3	4	4	4	4	4	4	3
	56.7	30.7	75.6	30.7	216.2	4	4	4	4	4	4	-	4	4	4	4	4	-	
	60.8	33.0	84.0	33.0	238.6	3	4	4	4	4	4	-	4	4	4	4	4	-	
	65.0	35.2	91.3	35.2	258.5	3	3	3	4	4	4	-	3	3	3	4	4	-	
	69.2	37.5	97.7	37.5	276.4	3	3	3	4	4	4	-	3	3	3	4	4	-	
	73.3	39.7	103.4	39.7	292.6	-	-	-	4	4	4	-	-	-	-	4	4	-	
	77.5	42.0	108.5	42.0	307.4	-	-	-	4	4	4	-	-	-	-	4	4	-	
	81.7	44.2	113.0	44.2	320.9	-	-	-	3	4	4	-	-	-	-	3	4	-	
	85.8	46.5	117.2	46.5	333.4	-	-	-	3	4	4	-	-	-	-	3	4	-	

TABLE 4 - ANCHOR SPACING						ANCHOR TYPE & SPACING INSET MOUNT 3 1/8" THICK ALUMINUM TUBES							ANCHOR TYPE & SPACING INSET MOUNT 3 1/4" THICK ALUMINUM ANGLE AND TUBES						
FW	DP	VY	VX	Vs	Ts	A	B	C	D	E	F	G	A	B	C	D	E	F	G
168	40.0	23.3	0.0	23.3	30.2	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	25.8	0.0	25.8	33.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	28.2	0.0	28.2	36.4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	52.5	30.6	71.5	30.6	206.4	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	56.7	33.1	82.0	33.1	234.0	3	4	4	4	4	4	-	4	4	4	4	4	4	-
	60.8	35.5	91.1	35.5	258.3	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	65.0	37.9	99.0	37.9	279.9	-	3	3	4	4	4	-	3	3	3	4	4	4	-
	69.2	40.3	105.9	40.3	299.3	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	73.3	42.8	112.1	42.8	316.8	-	-	-	4	4	4	-	-	-	-	4	4	4	-
77.5	45.2	117.6	45.2	332.7	-	-	-	3	4	4	-	-	-	-	3	4	4	-	
81.7	47.6	122.5	47.6	347.4	-	-	-	3	4	4	-	-	-	-	3	4	4	-	
180	40.0	25.0	0.0	25.0	32.3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	27.6	0.0	27.6	35.7	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	30.2	87.1	30.2	242.2	3	3	3	4	4	4	-	4	3	3	4	4	4	-
	52.5	32.8	98.4	32.8	271.9	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	56.7	35.4	108.0	35.4	297.7	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	60.8	38.0	116.3	38.0	320.5	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	65.0	40.6	123.6	40.6	340.8	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	69.2	43.2	129.9	43.2	359.0	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	73.3	45.8	135.6	45.8	375.6	-	-	-	3	4	4	-	-	-	-	3	4	4	-
77.5	48.4	140.6	48.4	390.7	-	-	-	-	4	3	-	-	-	-	-	4	3	-	
192	40.0	26.7	0.0	26.7	34.5	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	29.4	0.0	29.4	38.0	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	48.3	32.2	92.1	32.2	256.6	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	52.5	35.0	104.1	35.0	288.0	-	-	-	4	4	4	-	3	-	-	4	4	4	-
	56.7	37.8	114.3	37.8	315.4	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	60.8	40.6	123.1	40.6	339.5	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	65.0	43.3	130.7	43.3	361.0	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	69.2	46.1	137.5	46.1	380.4	-	-	-	3	4	3	-	-	-	-	3	4	3	-
	73.3	48.9	143.5	48.9	397.9	-	-	-	-	4	3	-	-	-	-	-	4	3	-
204	40.0	28.3	0.0	28.3	36.6	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	31.3	81.5	31.3	230.7	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	48.3	34.2	96.4	34.2	269.2	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	52.5	37.2	108.9	37.2	302.2	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	56.7	40.1	119.6	40.1	330.9	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	60.8	43.1	128.8	43.1	356.2	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	65.0	46.0	136.8	46.0	378.8	-	-	-	3	4	3	-	-	-	-	3	4	3	-
	69.2	49.0	143.9	49.0	399.1	-	-	-	-	4	3	-	-	-	-	-	4	3	-
	73.3	51.8	150.5	51.8	418.5	-	-	-	-	4	3	-	-	-	-	-	4	3	-
216	40.0	30.0	0.0	30.0	38.8	4	4	4	4	4	4	4	4	4	4	4	4	4	4
	44.2	33.1	84.5	33.1	239.9	3	3	4	4	4	4	-	3	4	4	4	4	4	-
	48.3	36.3	99.9	36.3	279.9	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	52.5	39.4	112.8	39.4	314.2	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	56.7	42.5	123.9	42.5	344.0	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	60.8	45.6	133.5	45.6	370.3	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	65.0	48.8	141.8	48.8	393.8	-	-	-	-	4	3	-	-	-	-	-	4	3	-
	69.2	51.9	150.1	51.9	416.7	-	-	-	-	4	3	-	-	-	-	-	4	3	-
	73.3	54.9	158.4	54.9	438.1	-	-	-	-	4	3	-	-	-	-	-	4	3	-
228	40.0	31.7	67.5	31.7	198.5	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	44.2	35.0	86.6	35.0	247.3	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	48.3	38.3	102.4	38.3	288.5	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	52.5	41.6	115.7	41.6	323.8	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	56.7	44.9	127.1	44.9	354.5	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	60.8	48.2	136.9	48.2	381.6	-	-	-	-	4	3	-	-	-	-	-	4	3	-
240	40.0	33.3	68.6	33.3	203.1	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	44.2	36.8	88.0	36.8	252.9	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	48.3	40.3	104.0	40.3	294.8	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	52.5	43.8	117.5	43.8	330.8	-	-	-	3	4	4	-	-	-	-	3	4	4	-
	56.7	47.2	129.1	47.2	362.2	-	-	-	3	4	4	-	-	-	-	3	4	4	-
252	40.0	35.0	68.9	35.0	206.1	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	44.2	38.7	88.4	38.7	256.3	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	48.3	42.3	104.6	42.3	298.7	-	-	-	4	4	4	-	-	-	-	4	4	4	-
	52.5	45.9	118.2	45.9	335.1	-	-	-	3	4	4	-	-	-	-	3	4	4	-
264	40.0	36.7	68.6	36.7	207.4	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	44.2	40.5	88.0	40.5	257.6	3	3	3	4	4	4	-	3	3	3	4	4	4	-
	48.3	44.3	104.0	44.3	300.0	-	-	-	4	4	4	-	-	-	-	4	4	4	-
276	40.0	38.3	67.4	38.3	206.9	4	4	4	4	4	4	-	4	4	4	4	4	4	-
	44.2	42.3	86.5	42.3	256.6	3	3	3	4	4	4	-	3	3	3	4	4	4	-
288	40.0	40.0	65.5	40.0	204.5	4	4	4	4	4	4	-	4	4	4	4	4	4	-

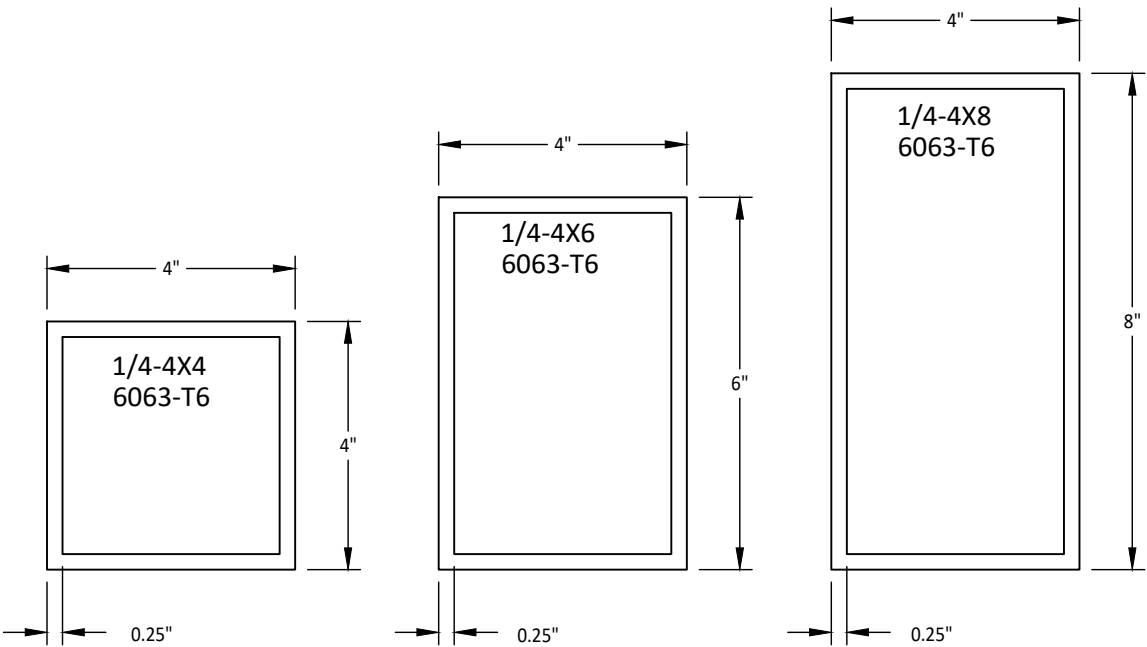
EQUALLY SPACED MULLIONS SELECTION



SM1 = SM2 = SM3

TT MAX.	1/4-4x8 MULLION SPAN			1/4-4x6 MULLION SPAN			1/4-4x4 MULLION SPAN		
	144	120	96	144	120	96	144	120	96
288	34	40	40	N/A	29	40	N/A	N/A	21
276	35	44	44	N/A	30	44	N/A	N/A	22
264	37	48	48	N/A	31	48	N/A	N/A	23
252	39	52	52	N/A	33	52	N/A	N/A	24
240	41	56	56	20	35	56	N/A	N/A	25
228	43	60	60	21	36	60	N/A	N/A	27
216	45	65	65	22	39	65	N/A	N/A	28
204	48	69	69	23	41	69	N/A	N/A	30
192	51	73	73	25	43	73	N/A	N/A	32
180	54	77	77	27	46	77	N/A	N/A	34
168	58	81	81	29	50	81	N/A	N/A	36
156	63	85	85	31	54	85	N/A	20	39
144	68	90	90	33	58	90	N/A	22	42
132	74	103	103	36	63	103	N/A	24	46
120	82	117	117	40	70	117	N/A	26	51
108	91	131	131	45	78	131	N/A	29	57
96	103	145	145	50	87	145	N/A	33	64

- 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.



117 DIXON STREET
SELBYVILLE, DE 19975
PH: (302) 436-6005

TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

EQUALLY SPACED MULLIONS

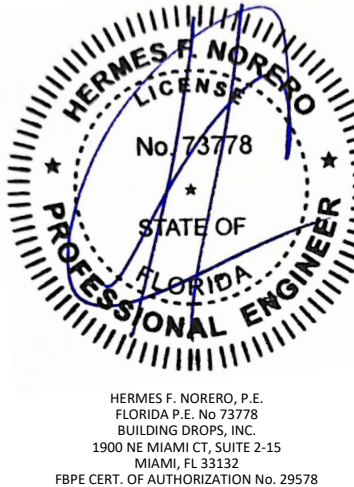
PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



REMARKS	BY	DATE

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 #: **FL14438**

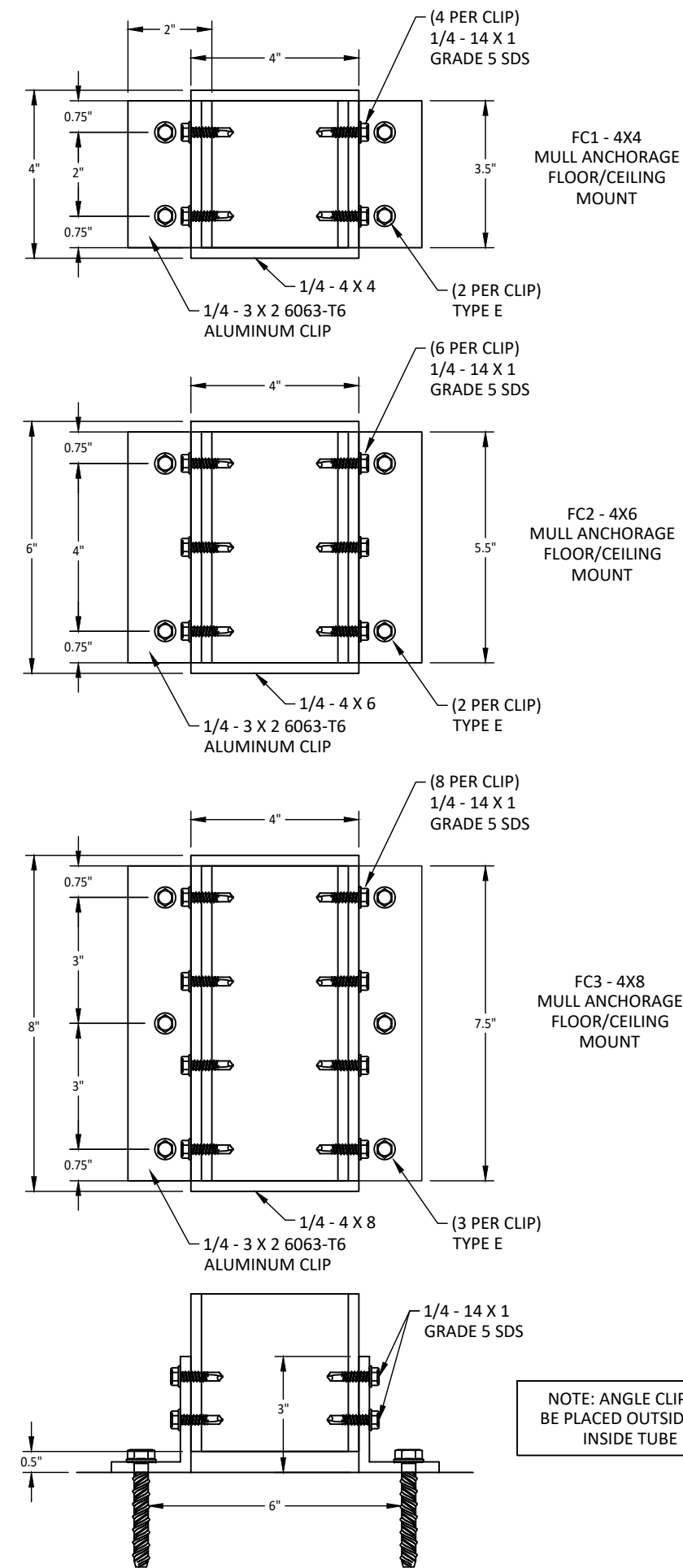
DATE: **01.15.2024**

DWG. BY: **DI** CHK. BY: **HFN**

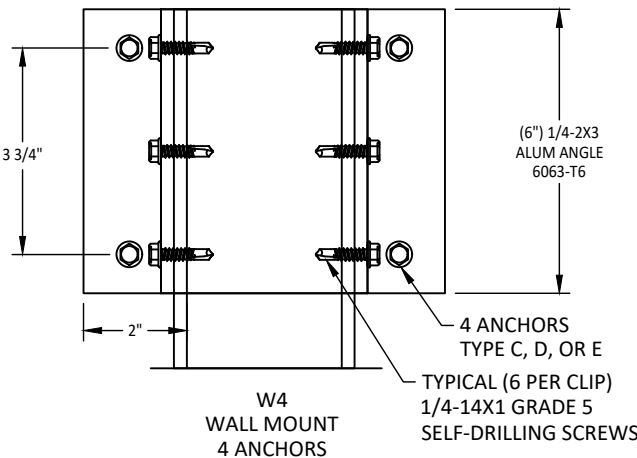
SCALE: **NTS**

DWG. #: **ALU005**

SHEET:



EQUALLY SPACED MULLIONS WALL AND INSET CONNECTIONS



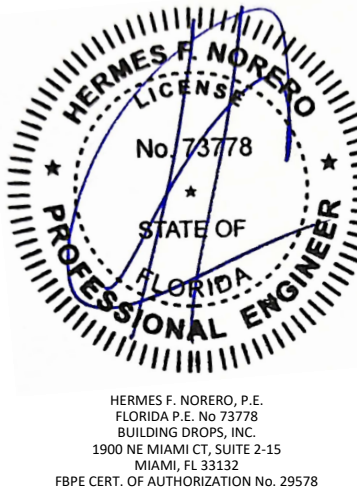
ANCHOR TYPE	WALL MOUNT ANCHOR SELECTION		
	MULLION TYPE		
	4X4	4X6	4X8
C	W4	N/A	N/A
D	W4	N/A	N/A
E	W4	W4	W4

ANCHOR TYPE	FLOOR/CEILING MOUNT ANCHOR SELECTION		
	MULLION TYPE		
	4X4	4X6	4X8
E	FC1	FC2	FC3

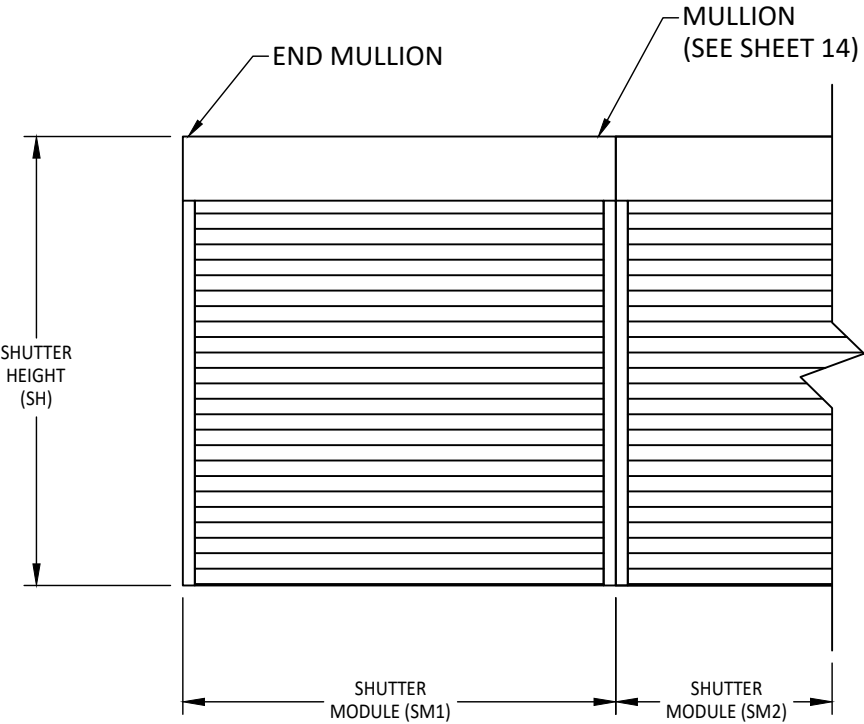
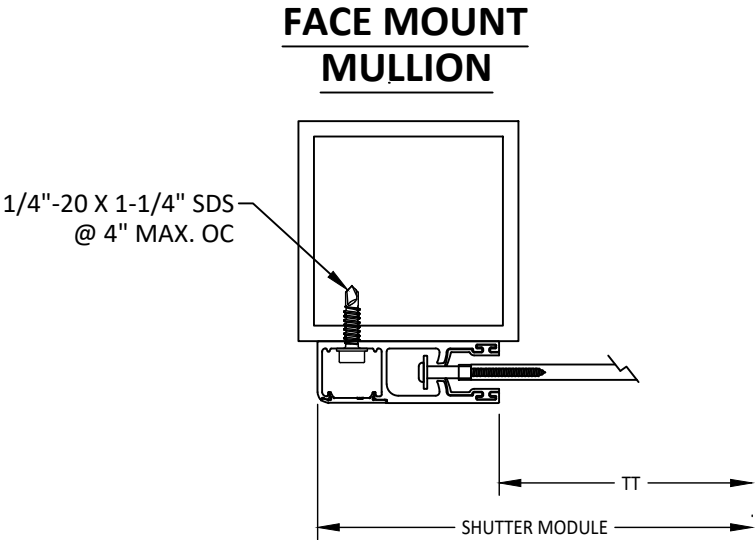
ANCHOR SCHEDULE				
ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
C	5/16" ITW TAPCON XL	CONCRETE, MIN. 3000 PSI	2-3/16"	1-3/4"
D	5/16" ITW TAPCON XL	GROUT FILLED C-90 BLOCK	4"	2-1/4"
E	3/8" DEWALT SCREW-BOLT+	CONCRETE, MIN. 3000 PSI	5"	3.25"

REMARKS	BY	DATE

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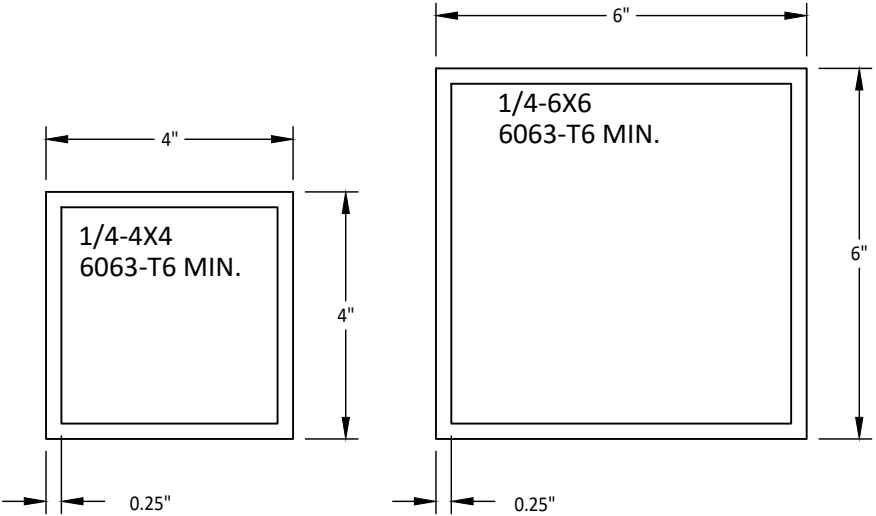
END MULLION SELECTION



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.
120	118	12.00	12.00
132	104	12.00	12.00
144	90	12.00	12.00
156	86	12.00	12.00
168	82	11.95	12.00
180	78	11.70	12.00
192	73	11.50	12.00
204	69	11.34	12.00
216	65	11.22	12.00
228	61	11.13	12.00
240	57	11.09	12.00
252	53	11.08	12.00
264	48	11.10	12.00
276	44	11.17	12.00
288	40	11.29	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



117 DIXON STREET
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PH: (302) 436-6005

TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

END MULLIONS

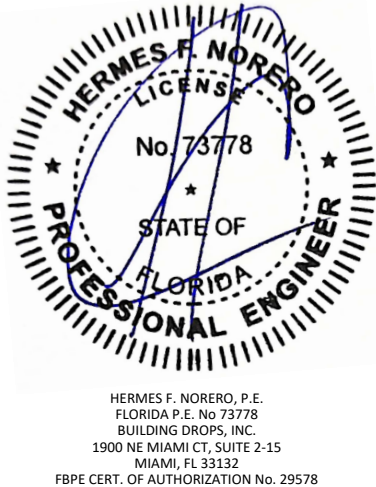
PREPARED BY:

BUILDING DROPS, INC.
1900 NE MIAMI CT, SUITE 2-15
MIAMI, FL 33132
PH: (954)399-8478
FAX: (954)744-4738
WEB: www.buildingdrops.com



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FBPE CERT. OF AUTHORIZATION No. 29578

FL #: **FL14438**

DATE: **01.15.2024**

DWG. BY:
DI

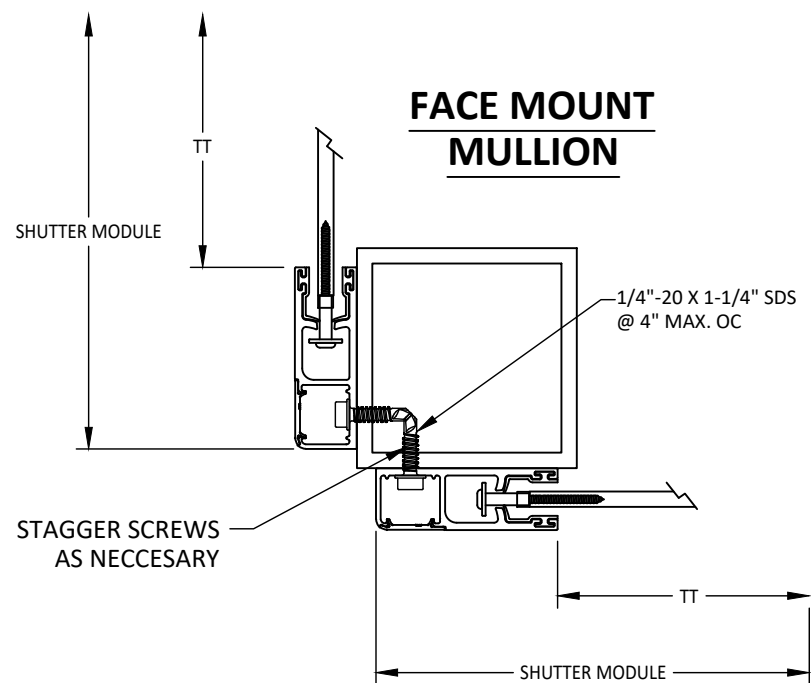
CHK. BY:
HFN

SCALE: **NTS**

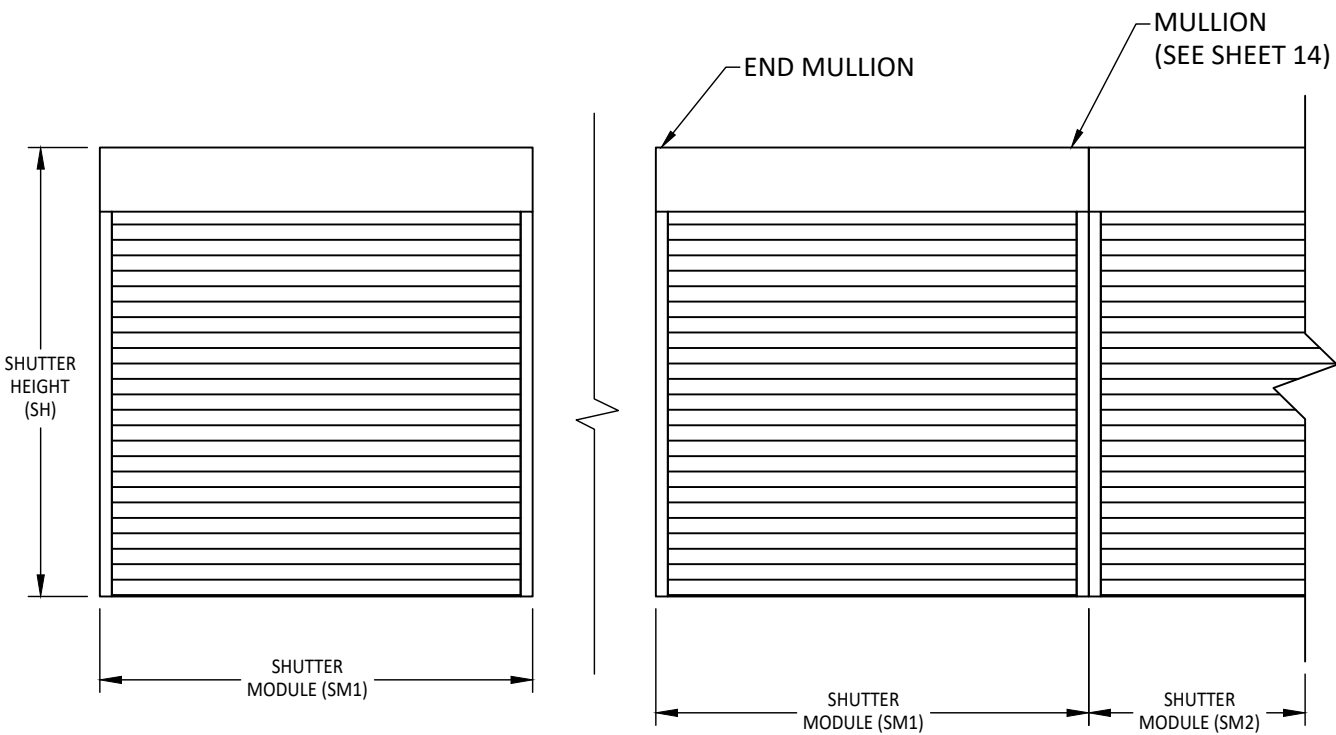
DWG. #: **ALU005**

SHEET:

16

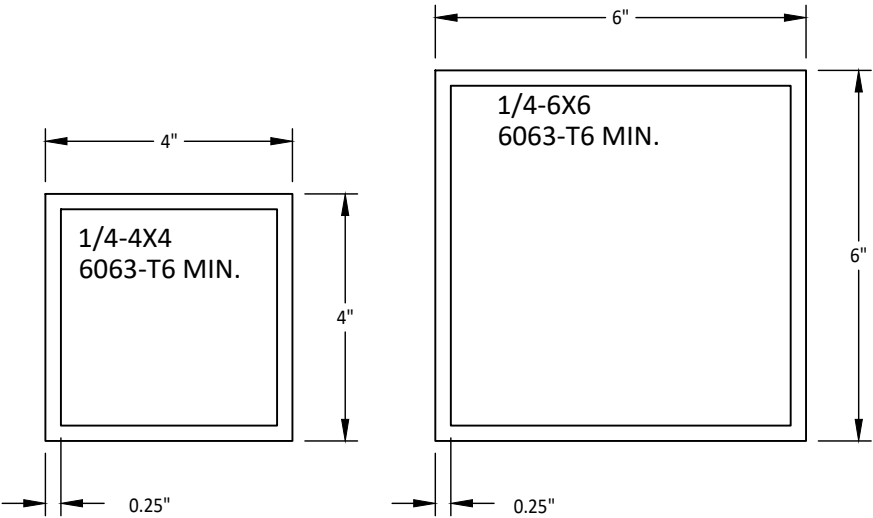


CORNER MULLION SELECTION



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.
120	117.50	12.00	12.00
132	103.75	12.00	12.00
144	90.00	12.00	12.00
156	85.83	12.00	12.00
168	81.67	12.00	12.00
180	77.50	12.00	12.00
192	73.33	12.00	12.00
204	69.17	12.00	12.00
216	65.00	12.00	12.00
228	60.83	11.83	12.00
240	56.67	11.88	12.00
252	52.50	12.00	12.00
264	48.33	12.00	12.00
276	44.17	12.00	12.00
288	40.00	12.00	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.



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TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

CORNER MULLIONS

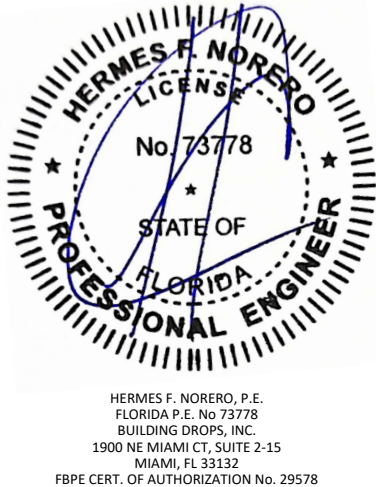
PREPARED BY:

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SCALE:	NTS
DWG. #:	ALU005
SHEET:	17

TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

END MULLION / CORNER MULLION
CONNECTIONS

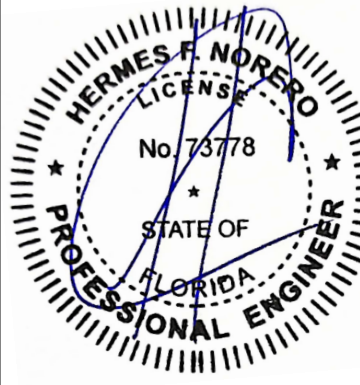
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DWG. BY:
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CHK. BY:
HFN

SCALE: **NTS**

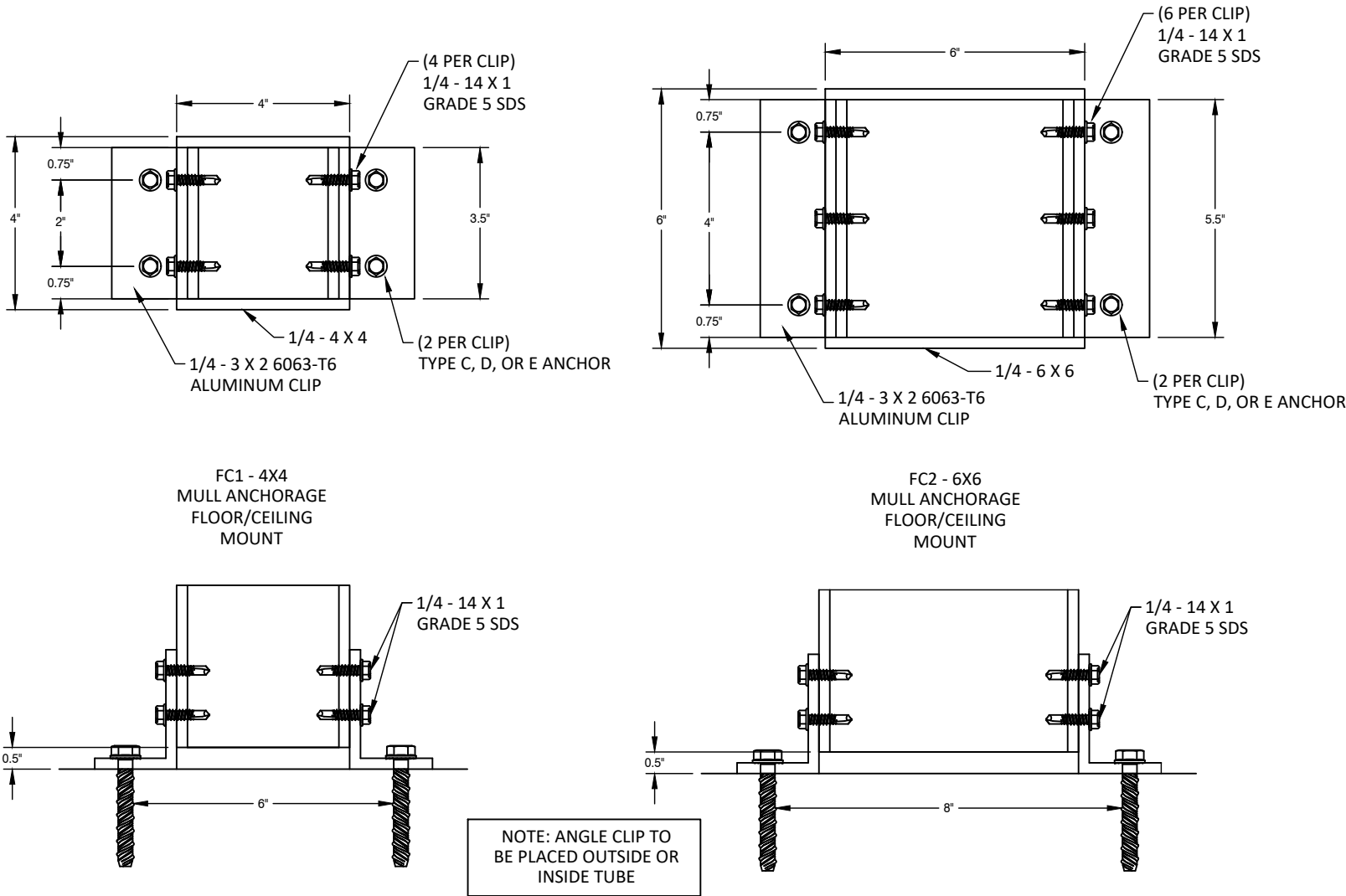
DWG. #: **ALU005**

SHEET:

18

OF 22

END MULLION AND CORNER MULLION INSET CONNECTIONS



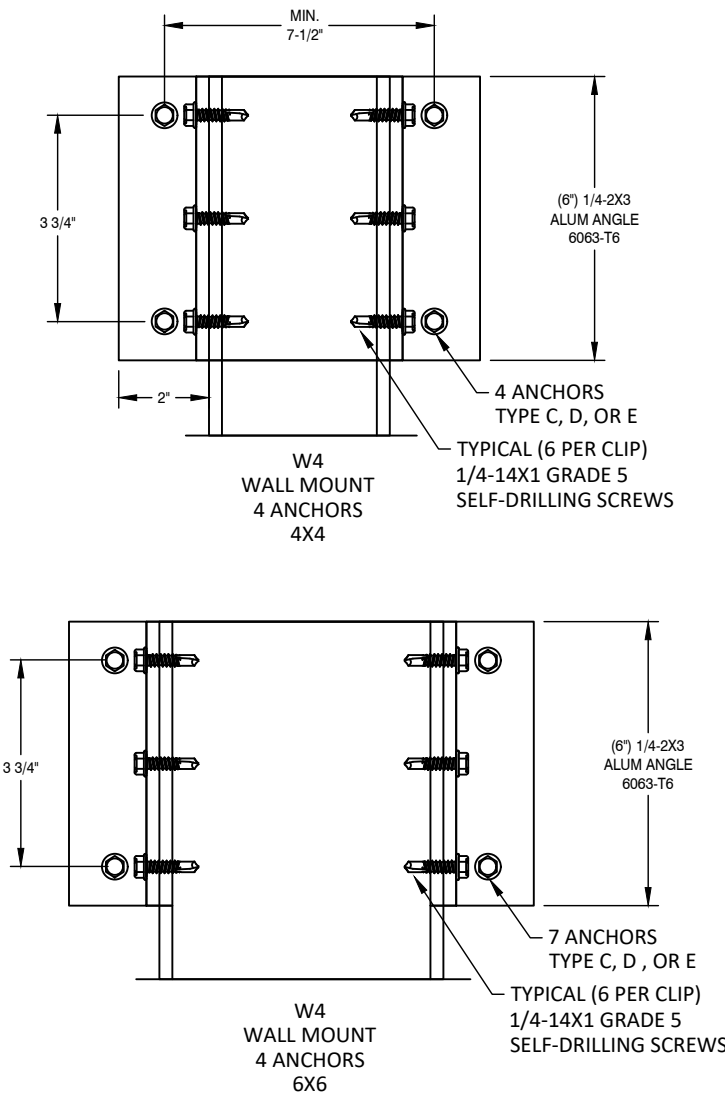
MULL FLOOR/CEILING MOUNT ANCHOR SELECTION

ANCHOR TYPE	END MULLION TYPE		CORNER MULLION TYPE	
	4X4	6X6	4X4	6X6
C	FC1	FC2	FC1	FC2
D	FC1	FC2	FC1	FC2
E	FC1	FC2	FC1	FC2

ANCHOR SCHEDULE

ANCHOR	DESCRIPTION	MATERIAL	EDGE DISTANCE	EMBEDMENT
C	5/16" ITW TAPCON XL	CONCRETE, MIN. 3000 PSI	2-3/16"	1-3/4"
D	5/16" ITW TAPCON XL	GROUT FILLED C-90 BLOCK	4"	2-1/4"
E	3/8" DEWALT SCREW-BOLT+	CONCRETE, MIN. 3000 PSI	5"	3.25"

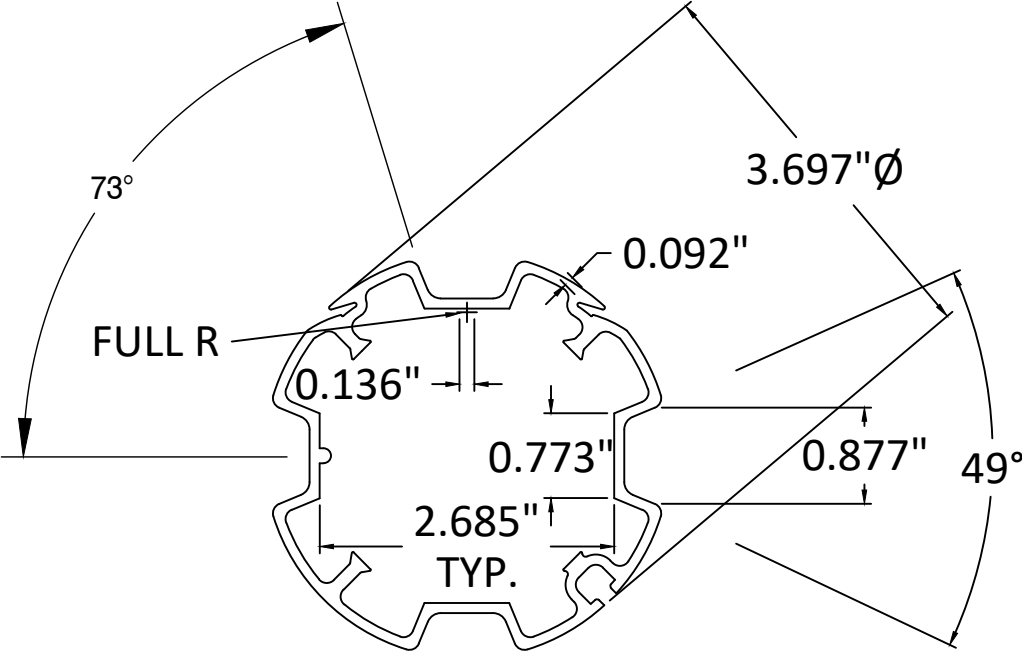
END MULLION WALL CONNECTIONS



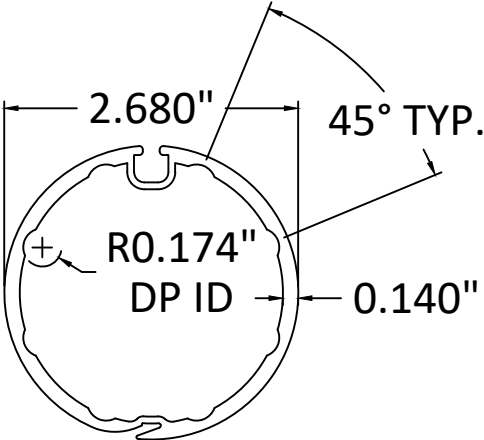
WALL MOUNT ANCHOR SELECTION

ANCHOR TYPE	END MULLION TYPE	
	4X4	6X6
C	W4	W4
D	W4	W4
E	W4	W4

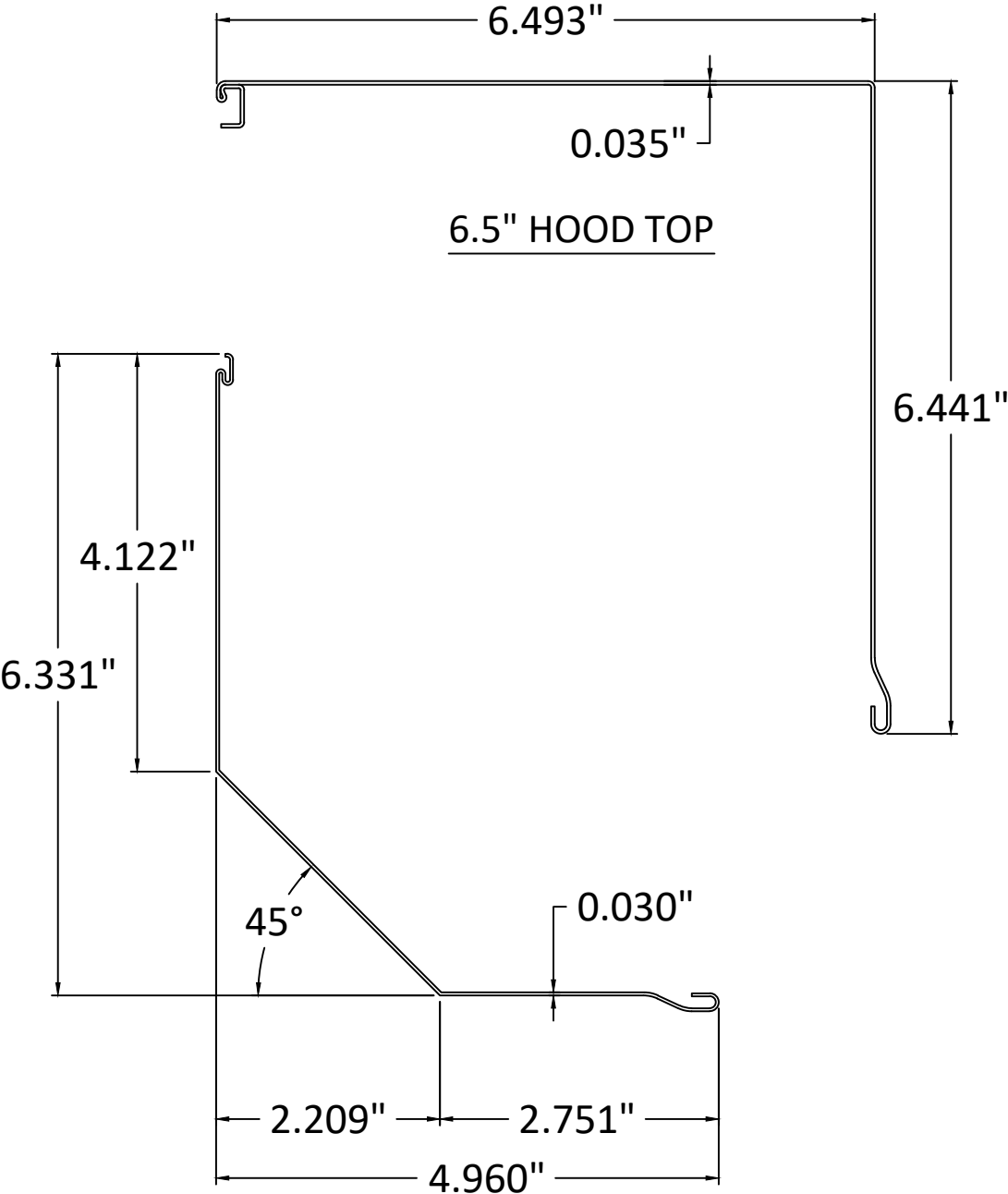
5-3/4" TUBE AND 6-1/2" HOOD DETAILS



70/93 ROLLER TUBE / AXLE



60 MM INNER ROLLER TUBE / AXLE



6-1/2" HOOD BOTTOM



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TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

TUBE & 6-1/2" HOOD DETAILS

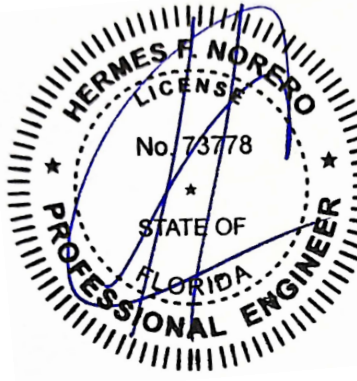
PREPARED BY:

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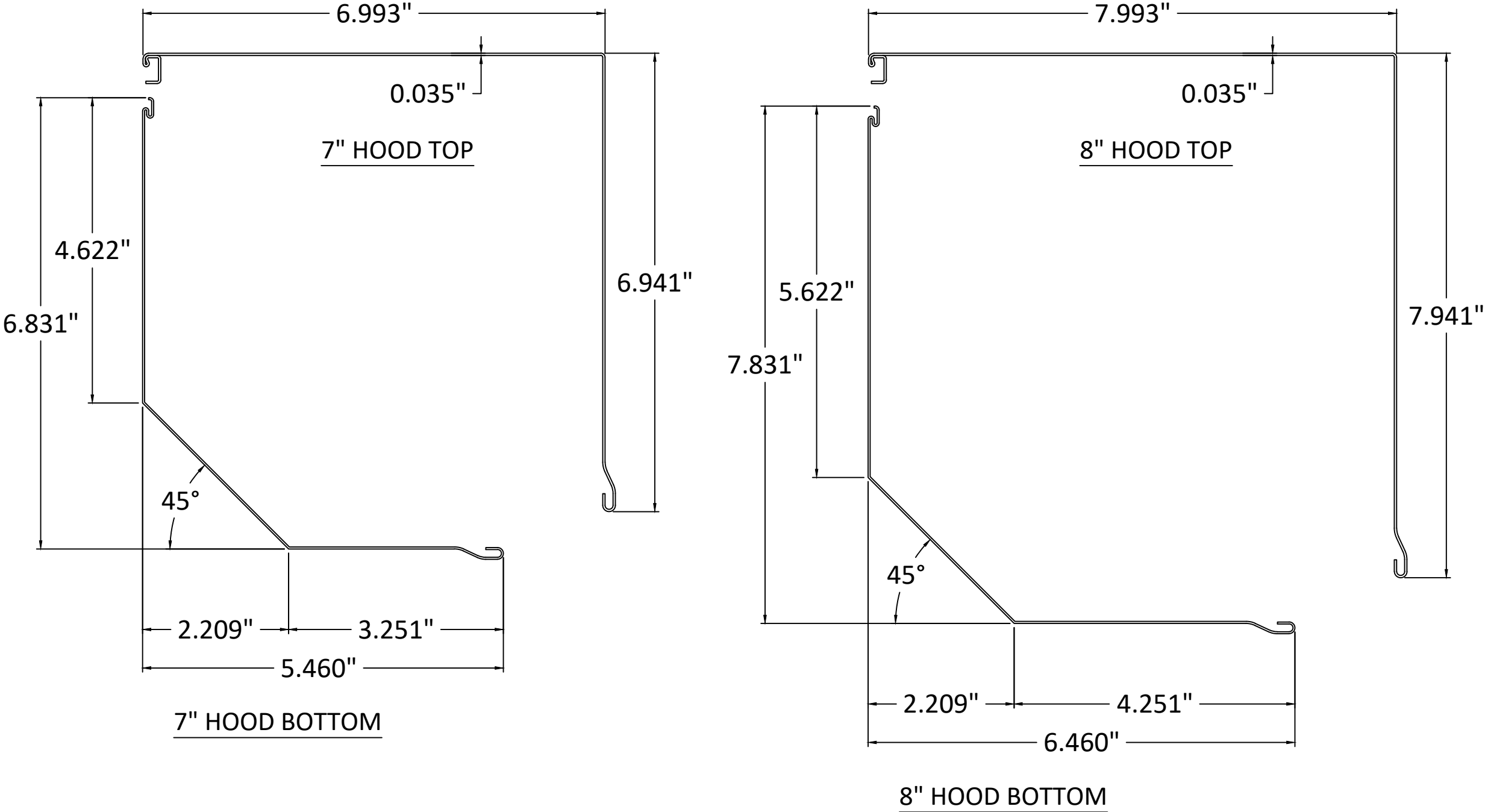


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DI	HFN
SCALE:	NTS
DWG. #:	ALU005
SHEET:	

19

7" AND 8" HOOD DETAILS



NOTE:
1. 7" & 8" HEADER COVERS WORK WITH 70/93 ROLLER TUBE / AXLE AND 60 MM INNER ROLLER TUBE / AXLE.



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TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

7" & 8" HOOD DETAILS

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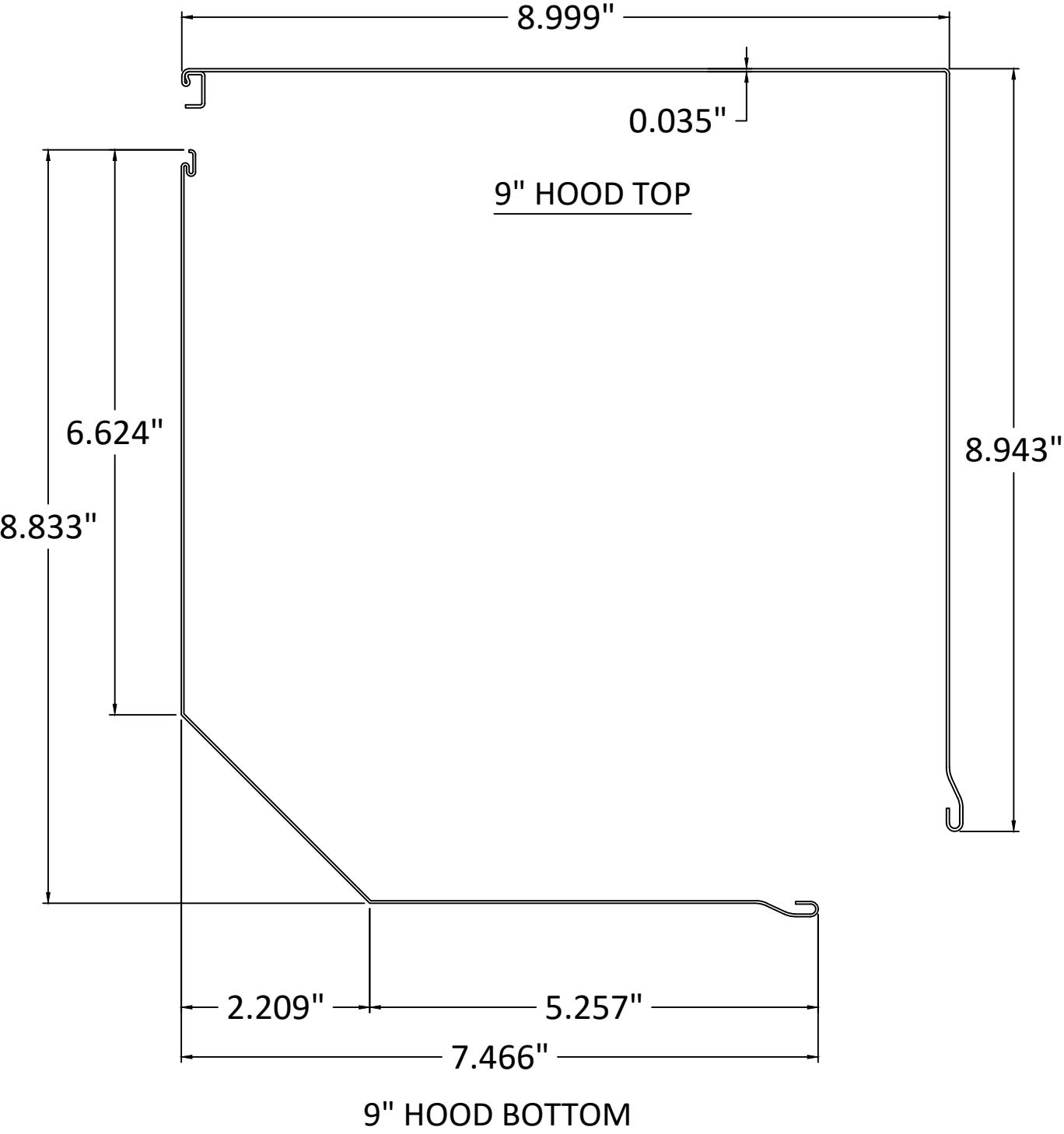
CHK. BY:
HFN

SCALE: **NTS**

DWG. #: **ALU005**

SHEET:
20
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9" HOOD DETAILS



NOTE:
1. 9" HEADER COVERS WORK WITH 70/93 ROLLER TUBE / AXLE AND 60 MM INNER ROLLER TUBE / AXLE.



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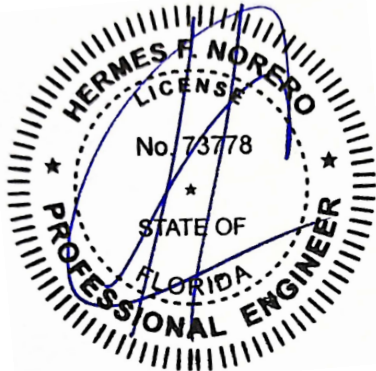
TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)
9" HOOD DETAILS

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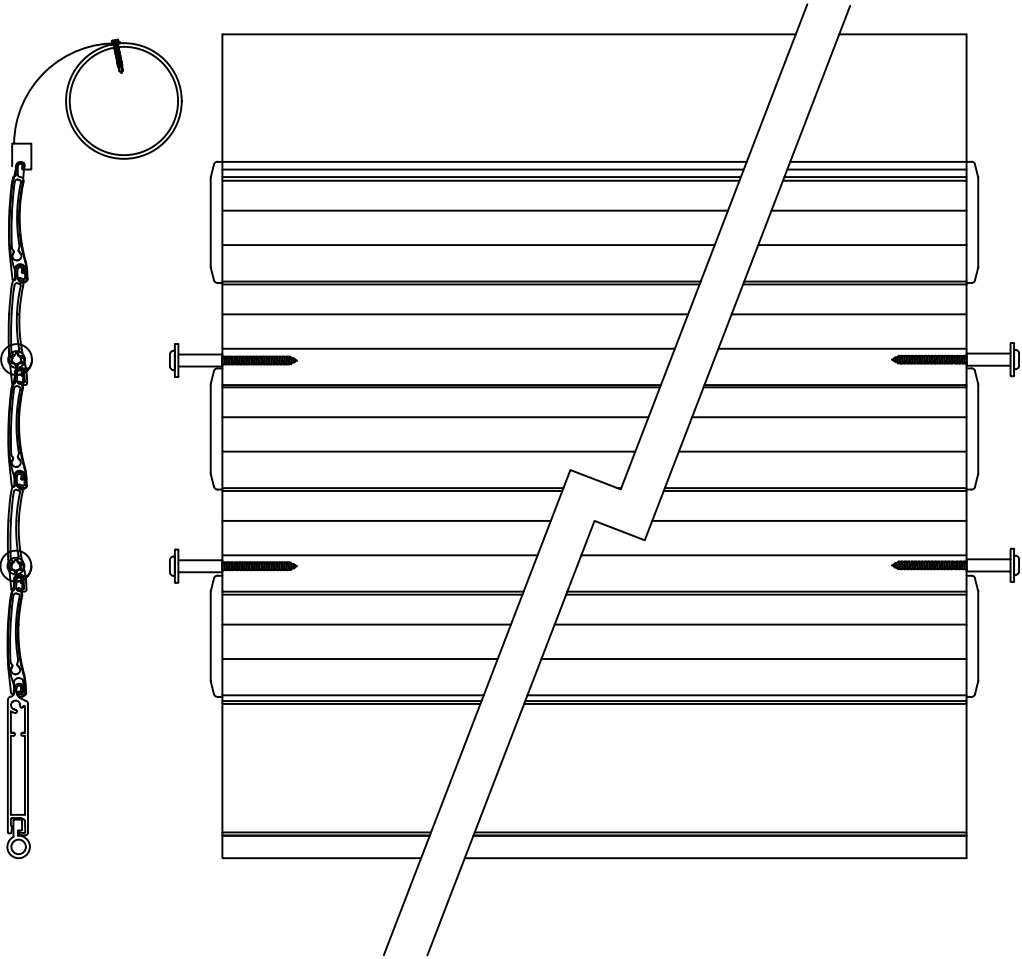
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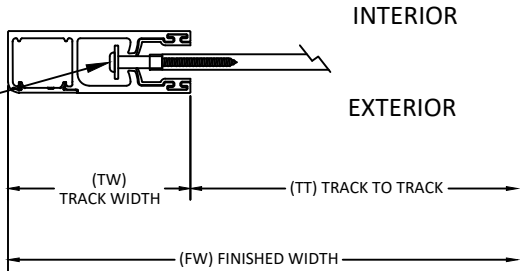
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DWG. #:	ALU005	
SHEET:	21	

SLAT END RETENTION LAY-OUT

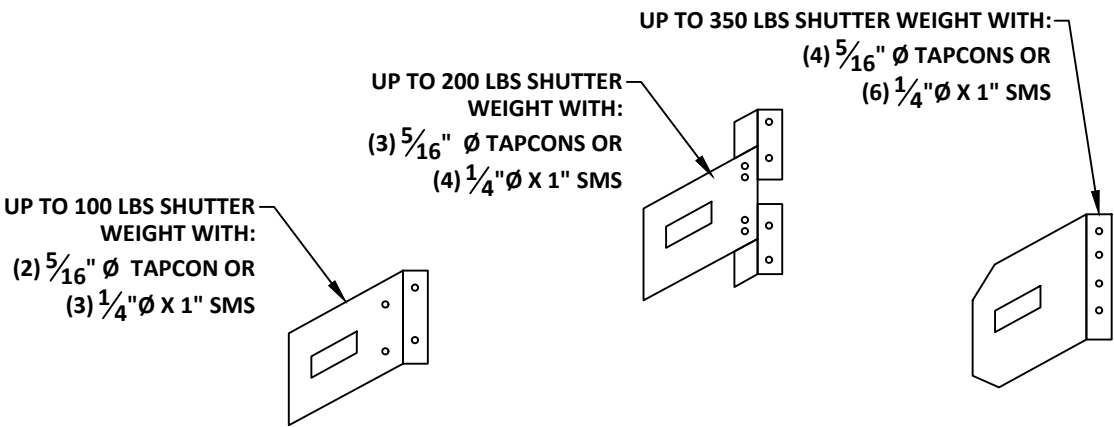


#10 X 2" PFH 18-8 S/S SMS , ONE (1) ABOVE EACH END RETENTION SLAT LOCK GUIDE, WITH A HV COATING SYSTEM AS MANUFACTURED BY AN APPROVED COATING APPLICATOR REGISTERED WITH ALUTECH UNITED.

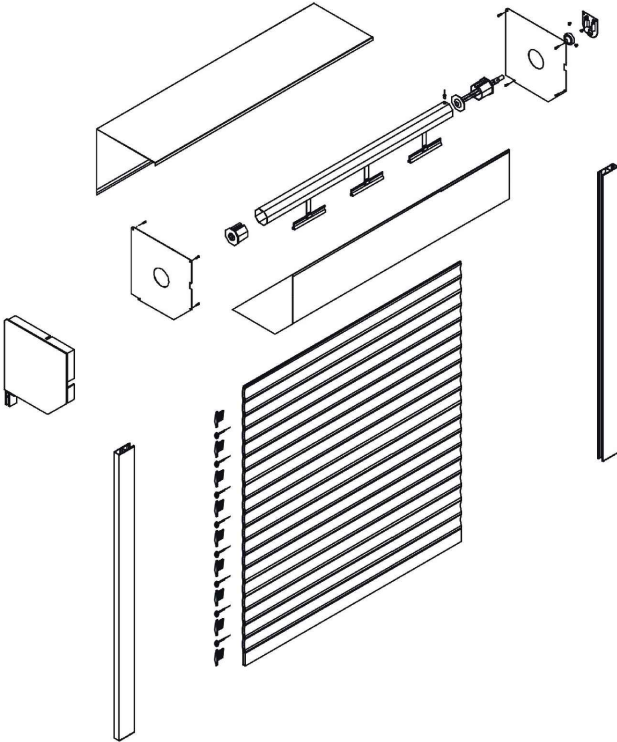


- NOTES:
1. SLAT END LOCKER TO BE AT EVERY OTHER SLAT.
 2. INSTALLATION SCREWS SHALL BE COATED WITH A HV COATING SYSTEM AS MANUFACTURED BY AN APPROVED COATING APPLICATOR REGISTERED WITH THE ALUTECH UNITED.

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 DIAMETER INNER ROLLER TUBE / AXLE PER MANUFACTURER SPECIFICATION.
 3. TUBULAR MOTOR MAY BE REPLACED WITH GEAR FOR MANUAL OPERATION.

TITLE:
BARRACUDA ROLL-UP SHUTTER
(HVHZ) (IMPACT)

SLAT END RETENTION & HOOD
ASSEMBLY

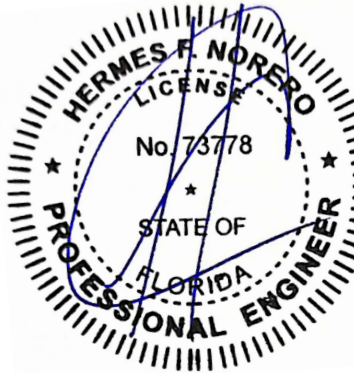
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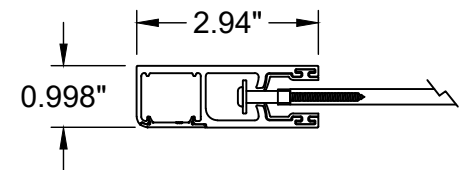
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DWG. #: **ALU005**

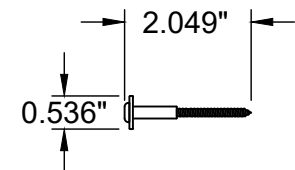
SHEET:

22

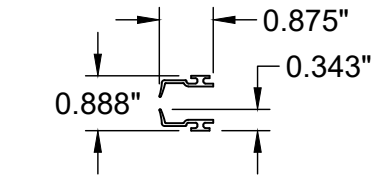
BILL OF MATERIALS		
ITEM	DESCRIPTION	MATERIAL
1	RETAINING SCREW	304 S.S.
2	RETENTION RAIL GUIDE INSERT	POLYPROPYLENE
3	SIDE RAIL	ALUMINUM (6063 T6)
4	SNAP IN SCREW COVER	ALUMINUM (6063 T6)
5	3" x 3" x 1/4" ANGLE	ALUMINUM (6063 T6)
6	70/93 ROLLER TUBE / AXLE	ALUMINUM (6063 T6)
7	60mm INNER ROLLER TUBE / AXLE	ALUMINUM (6063 T6)
8	6-1/2" HOOD CAP (TOP & BOTTOM)	-
9	7" HOOD CAP (TOP & BOTTOM)	-
10	8" HOOD CAP (TOP & BOTTOM)	-
11	9" HOOD CAP (TOP & BOTTOM)	-
12	DOUBLE WALL SLAT	ALUMINUM (6063 T6)
13	RETENTION ENDSLAT	ALUMINUM (6063 T6)
14	BARRACUDA SLAT END LOCKER	PLASTIC
15	MULLION - 3" x 2" x 1/4"	ALUMINUM (6063 T6)
16	MULLION - 4" x 4" x 1/4"	ALUMINUM (6063 T6)
17	MULLION - 6" x 4" x 1/4"	ALUMINUM (6063 T6)
18	MULLION - 8" x 4" x 1/4"	ALUMINUM (6063 T6)
19	MULLION - 6" x 6" x 1/4"	ALUMINUM (6063 T6)



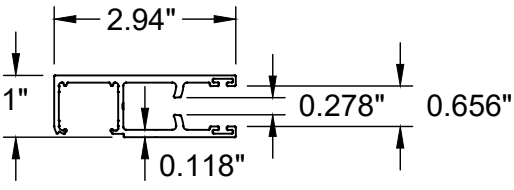
A WALL MOUNT AND INSET MOUNT



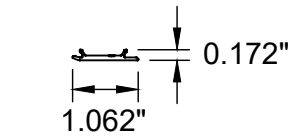
1 RETAINING SCREW



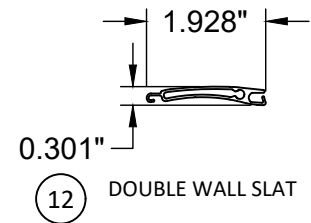
2 RETENTION RAIL GUIDE INSERT



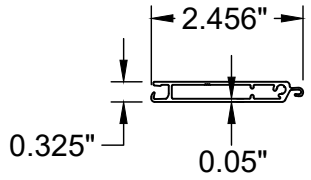
3 SIDE RAIL



4 SNAP IN SCREW COVER



12 DOUBLE WALL SLAT



13 RENTENTION ENDSLAT



14 BARRACUDA SLAT END LOCKER



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TITLE:
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BILL OF MATERIALS & COMPONENTS

PREPARED BY:

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BUILDING DROPS

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DWG. BY: **DI** CHK. BY: **HFN**

SCALE: **NTS**

DWG. #: **ALU005**

SHEET:
23