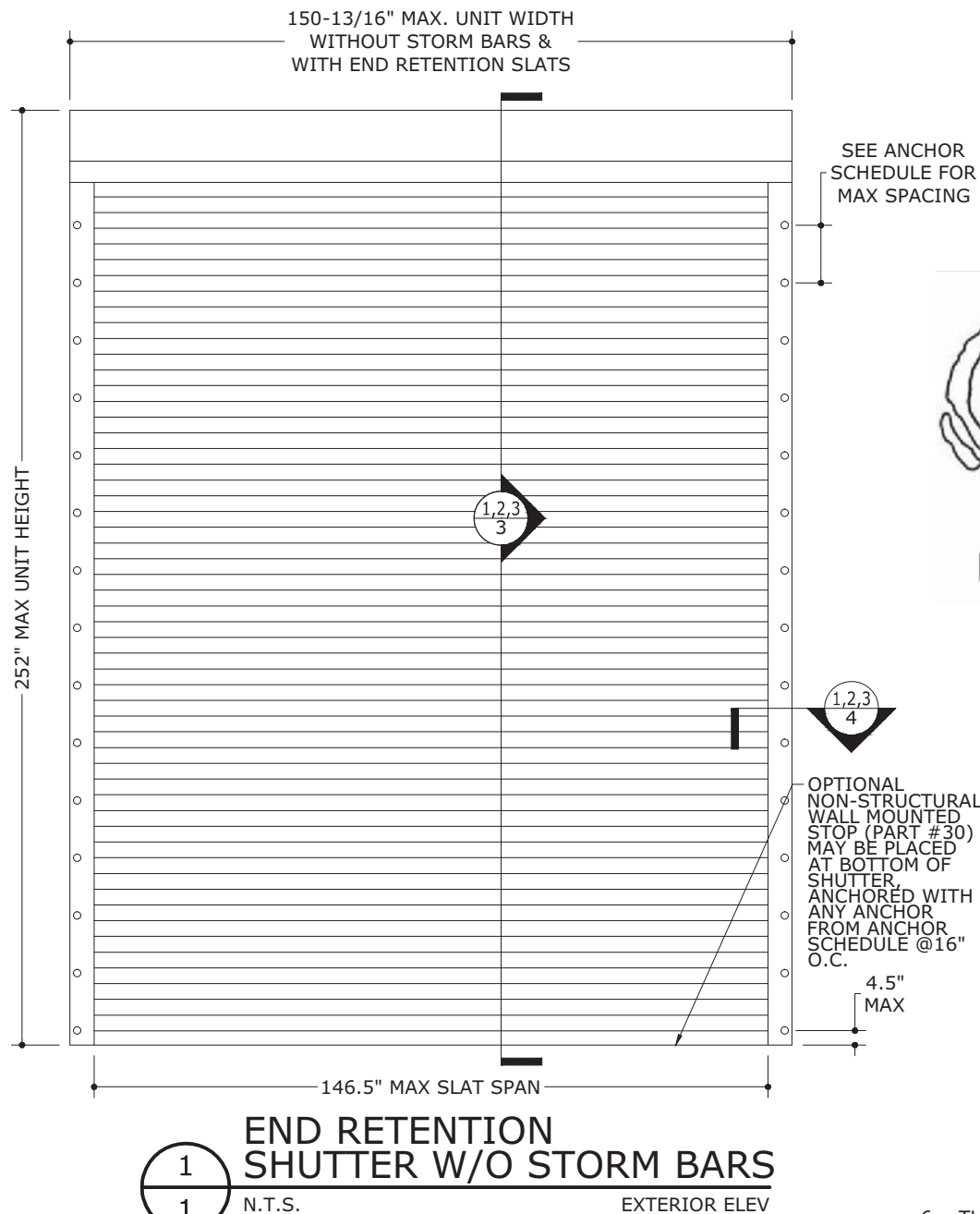


EYEWALL ARMOR 44mm ALUMINUM ROLL-UP SHUTTER

WITH END RETENTION SLATS AND RAILS



GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE SEVENTH EDITION (2020), THE INTERNATIONAL BUILDING CODE (IBC) AND THE INTERNATIONAL RESIDENTIAL CODE (IRC), FOR USE OUTSIDE THE HIGH VELOCITY HURRICANE ZONE, PER ASTM E330, E1886, AND E1996 STANDARDS. SEE PRODUCT EVALUATION REPORT FOR MORE INFORMATION.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR $C_d=1.6$ HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPARATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS AS DETERMINED IN ACCORDANCE WITH ASCE 7 AND CHAPTER 1609 OF THE FLORIDA BUILDING CODE SHALL BE LESS THAN OR EQUAL TO THE POSITIVE OR NEGATIVE DESIGN PRESSURE CAPACITY VALUES LISTED HEREIN FOR ANY ASSEMBLY AS SHOWN.
- DESIGN PRESSURES NOTED HEREIN ARE BASED ON MAXIMUM TESTED PRESSURES DIVIDED BY A 1.5 SAFETY FACTOR.
- THIS SYSTEM HAS BEEN DESIGNED WITH NO SEPARATION FROM GLAZING REQUIRED FOR ALL WIND ZONES, IN ACCORDANCE WITH ASTM E1996. IT IS ACCEPTABLE BY CODE UNLESS OPTIONAL CRITERIA IS INDEPENDENTLY ADOPTED BY THE AUTHORITY HAVING JURISDICTION

- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE. FOR SITE CONDITIONS DIFFERENT FROM THE CONDITIONS DETAILED HEREIN, A LICENSED ENGINEER OR REGISTERED ARCHITECT SHALL PREPARE SITE SPECIFIC DOCUMENTS FOR USE IN CONJUNCTION WITH THIS DOCUMENT. THESE INSTALLATION INSTRUCTIONS ARE PART OF A PRODUCT APPROVAL EVALUATION AND SHALL ONLY BE USED IN CONJUNCTION WITH THE EVALUATION REPORT SUBMITTED FOR THE SAME PRODUCT APPROVAL. THIS CERTIFICATION IS VALID FOR USE IN CONJUNCTION WITH THE MOST CURRENT REVISION OF FLORIDA PRODUCT APPROVAL #FL14235.2, ALUMINUM STORM BARS, HEADERS AND MULLIONS.
- ROLL-UP MECHANISM AND HOOD ASSEMBLY ARE NOT PART OF THIS APPROVAL.
- THIS DOCUMENT CONTAINS INFORMATION RELEVANT TO THE NECESSARY STRUCTURAL REQUIREMENTS OF THE SYSTEM INSTALLATION. COMPONENTS AND FASTENERS NOT REFERENCED WHICH ARE PART OF THE INTERNAL FABRICATION OF THE SPECIFIED SYSTEMS OR ASSEMBLIES SHALL BE PER MANUFACTURER PUBLISHED SPECIFICATIONS.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.

- ALL EXTRUSIONS SHALL BE MINIMUM 6063-T5 ALUMINUM ALLOY, UNLESS NOTED OTHERWISE.
- EACH SHUTTER ASSEMBLY SHALL BEAR A PERMANENT LABEL ON THE BOTTOM OF THE HOOD FACING THE EXTERIOR WITH THE FOLLOWING MINIMUM INFORMATION:
TOWN & COUNTRY INDUSTRIES
FORT LAUDERDALE, FL
9LB MISSILE LEVEL D - ASTM E1886, E1996 & E330
FLORIDA PRODUCT APPROVAL NUMBER
- ALL BOLTS & WASHERS SHALL BE ZINC COATED STEEL, GALVANIZED STEEL, OR STAINLESS STEEL WITH A MINIMUM TENSILE YIELD STRENGTH OF 60 KSI. ALL ALUMINUM 3/16"Ø OR 1/4"Ø POP RIVETS SHALL HAVE A MINIMUM SHEAR ULTIMATE STRENGTH OF 42ksi.
- ALL STEEL IN CONTACT WITH ALUMINUM SHALL BE PAINTED OR PLATED AS PRESCRIBED IN THE FLORIDA BUILDING CODE.

VISIT [ECALC.IO/26184](https://ecalculator.com/26184)

FOR SITE SPECIFIC DEVIATIONS
& MORE INFORMATION ABOUT THIS DOCUMENT
OR SCAN THIS QR CODE

VISIT [ENGINEERINGEXPRESS.COM/STORE](https://engineeringexpress.com/store)
FOR ADDITIONAL PLANS, REPORTS & RESOURCES



TABLE 1 SPAN SCHEDULE NO STORM BARS		
SLAT SPAN	ALLOWABLE DESIGN PRESSURE	
61.2"	+ 93.0 PSF	- 93.0 PSF
70.0"	+ 78.6 PSF	- 81.3 PSF
80.0"	+ 69.2 PSF	- 73.8 PSF
90.0"	+ 63.4 PSF	- 69.3 PSF
98.3"	+ 60.0 PSF	- 66.7 PSF
100.0"	+ 58.8 PSF	- 65.0 PSF
110.0"	+ 52.8 PSF	- 57.1 PSF
120.0"	+ 48.3 PSF	- 51.0 PSF
130.0"	+ 44.6 PSF	- 46.1 PSF
140.0"	+ 41.7 PSF	- 42.2 PSF
146.5"	+ 40.0 PSF	- 40.0 PSF

TABLE 1 NOTES:

- SLAT SPAN IS DEFINED AS THE DISTANCE BETWEEN RAILS FOR SINGLE SPAN ASSEMBLIES.
- LINEAR INTERPOLATION BETWEEN SHUTTER SPANS IS NOT PERMITTED. FOR SPANS BETWEEN THOSE INDICATED ABOVE, THE DESIGN PRESSURES FOR THE NEXT HIGHER SPAN SHALL BE USED.

TABLE 2 MINIMUM GLAZING SEPARATION NO STORM BARS		
SLAT SPAN	INSTALLATIONS ≤ 30' ABOVE GRADE	INSTALLATIONS > 30' ABOVE GRADE
61.2"	4.5"	4.5"
70.0"	4.8"	4.4"
80.0"	9.1"	9.1"
90.0"	6.3"	6.3"
98.3"	6.3"	6.3"
100.0"	9.4"	6.4"
110.0"	9.4"	6.8"
120.0"	9.4"	7.3"
130.0"	9.4"	7.8"
140.0"	9.4"	8.4"
146.5"	9.4"	8.8"

TABLE 2 NOTES:

- SLAT SPAN IS DEFINED AS THE DISTANCE BETWEEN RAILS FOR SINGLE SPAN ASSEMBLIES
- SEPARATION FROM GLAZING IS NOT REQUIRED UNLESS LOCAL MUNICIPALITY ADOPTS ADDITIONAL CRITERIA.
- LINEAR INTERPOLATION BETWEEN SHUTTER SPANS IS NOT PERMITTED. FOR SPANS BETWEEN THOSE INDICATED ABOVE, THE SEPARATION FROM GLASS FOR THE NEXT HIGHER SPAN SHALL BE USED.

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FL14235.2

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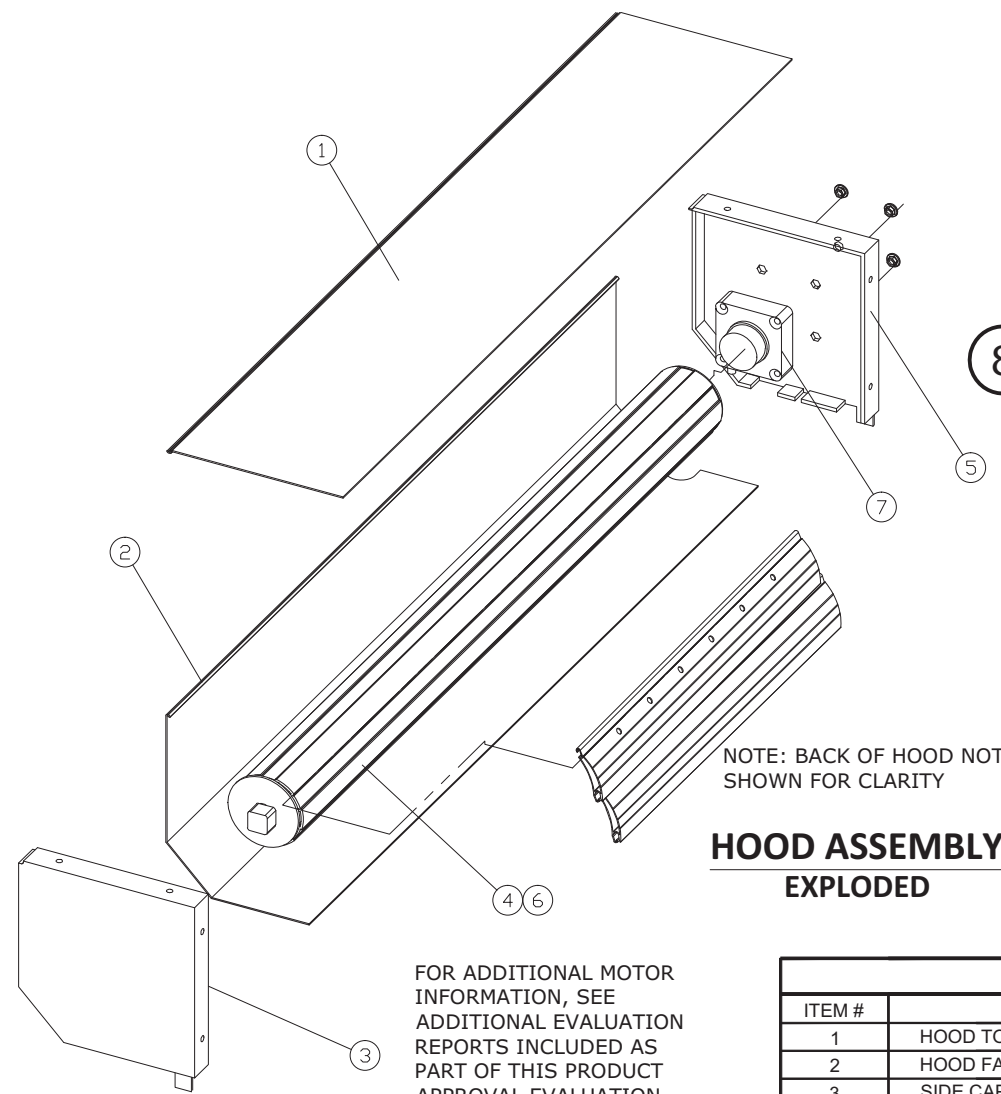
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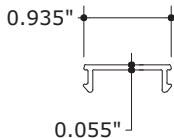
1 OF 15



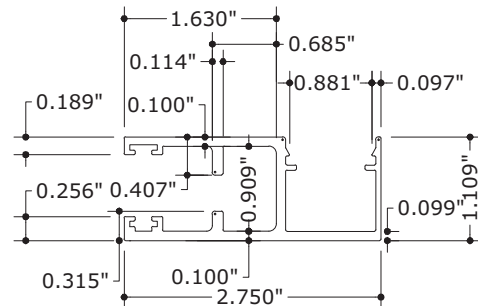
FOR ADDITIONAL MOTOR INFORMATION, SEE ADDITIONAL EVALUATION REPORTS INCLUDED AS PART OF THIS PRODUCT APPROVAL EVALUATION.

HOOD ASSEMBLY EXPLODED

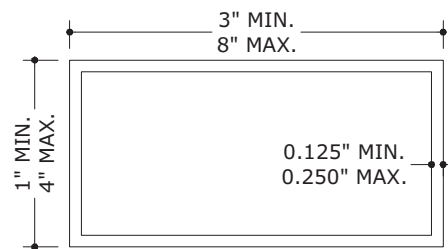
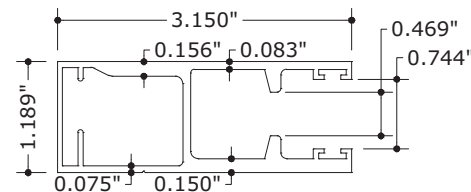
8 SIDE RAIL COVER 6" = 1'-0" 6063-T6 ALUM



10a SIDE RAIL 6" = 1'-0" 6005-T5 ALUM

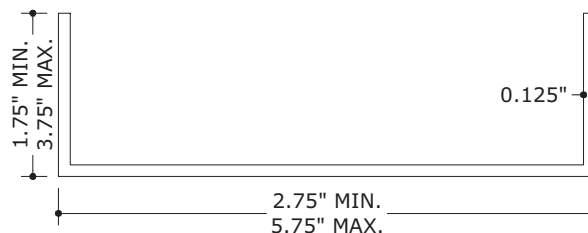


10b SIDE RAIL END RETENTION 6" = 1'-0" 6063-T6 ALUM



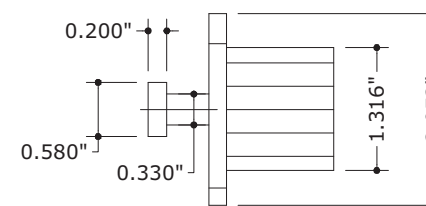
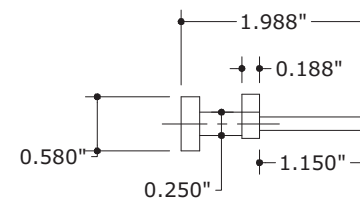
NOTE: SEE BILL OF MATERIALS (BOM) FOR TUBE SIZES AND MATERIALS

12-26 ALUMINUM TUBE 6" = 1'-0" MAT'L PER BOM

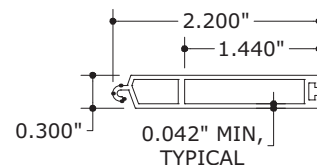


Fy = 30 ksi MINIMUM

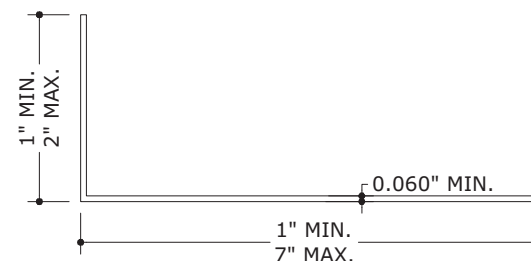
27 STEEL REINFORCEMENT 6" = 1'-0" A36 GALV. STEEL OR STAINLESS STEEL



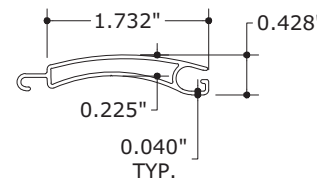
9 END RETENTION 6" = 1'-0" NYLON



29 OPTIONAL BOTTOM SLAT 6" = 1'-0" 6063-T6 ALUM



30 WALL MOUNTED STOP 6" = 1'-0" 6063-T6 ALUM



11 TYPICAL SLAT 6" = 1'-0" 6063-T6 ALUM

BILL OF MATERIALS		
ITEM #	DESCRIPTION	MATERIAL
1	HOOD TOP	3105-H14 ALUM
2	HOOD FACE	3105-H14 ALUM
3	SIDE CAP, RIGHT	CAST ALUM
4	MOTOR TUBE, 60-88mm DIAMETER, 3mm THICK	6063-T6 ALUM
4	MOTOR TUBE, 60-100mm DIAMETER, 3mm THICK	6063-T6 ALUM
5	SIDE CAP, LEFT	CAST ALUM
6	IDLE BEARING	NYLON/STEEL
7	MANUAL GEAR OR ELECTRONIC MOTOR	
8	SIDE RAIL COVER	6063-T6 MIN. ALUM
9	END RETENTION GUIDE	NYLON
10a	SIDE RAIL, END RETENTION	6005-T5 ALUM
10b	SIDE RAIL, END RETENTION	6063-T6 ALUM
11	TYPICAL SLAT	6063-T6 ALUM
12	1"x3"x0.125" TUBE	6063-T6 ALUM
13	2"x3"x0.125" TUBE	6063-T6 ALUM
14	2"x4"x0.125" TUBE	6063-T6 ALUM
15	2"x5"x0.125" TUBE	6063-T6 ALUM
16	2"x3"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
17	2"x4"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
18	2"x5"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
19	2"x6"x0.125" TUBE	6063-T6 ALUM
20	2"x6"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
21	3"x3"x0.125" TUBE	6063-T6 ALUM
22	3"x3"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
23	4"x4"x0.125" TUBE	6063-T6 ALUM
24	4"x4"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
25	4"x6"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
26	4"x8"x0.25" TUBE	6061-T6 OR 6005-T5 ALUM
27	STEEL REINFORCEMENT (Fy = 30 ksi MIN.)	A36 OR STAINLESS STEEL
28	ALUMINUM ANGLE	6061-T6 OR 6005-T5 ALUM
29	OPTIONAL BOTTOM SLAT	6063-T5 ALUM
30	WALL MOUNTED STOP	6063-T6 ALUM

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2020 FBC	CCB	RWN	6/30/20

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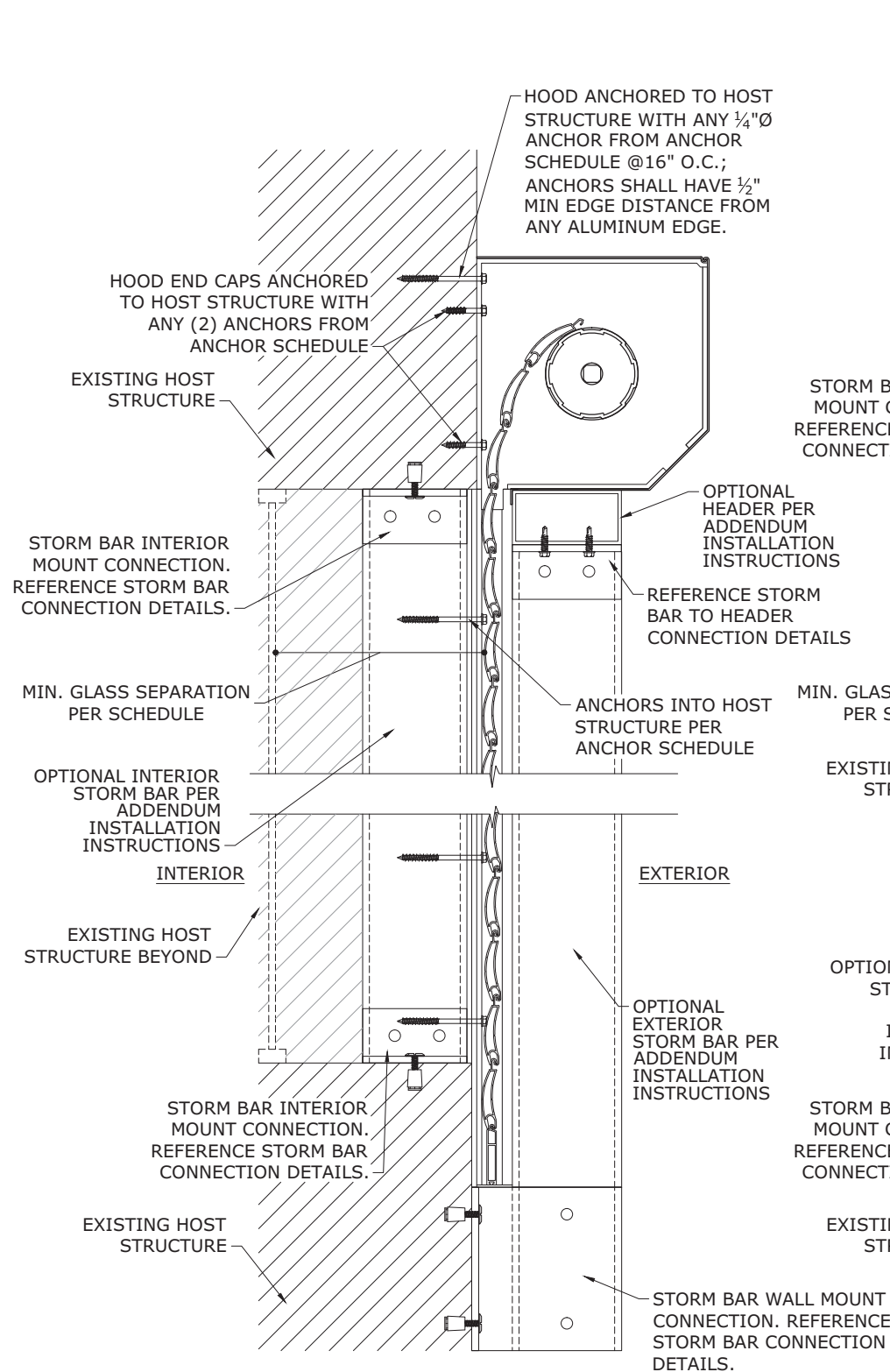
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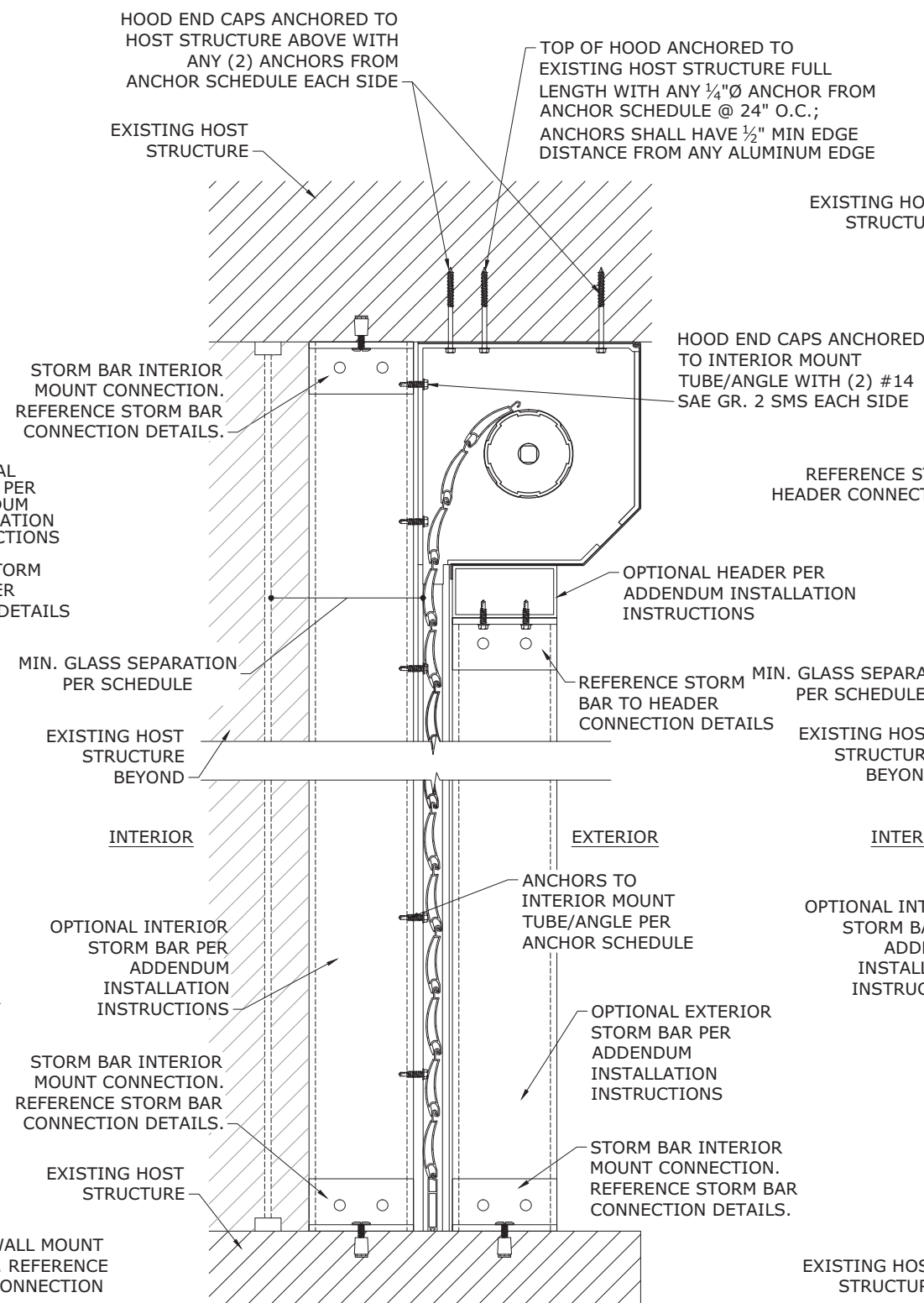
3



1 WALL MOUNT (SHOWN W/ OPTIONAL STORM BARS)

N.T.S. VERT SECTION

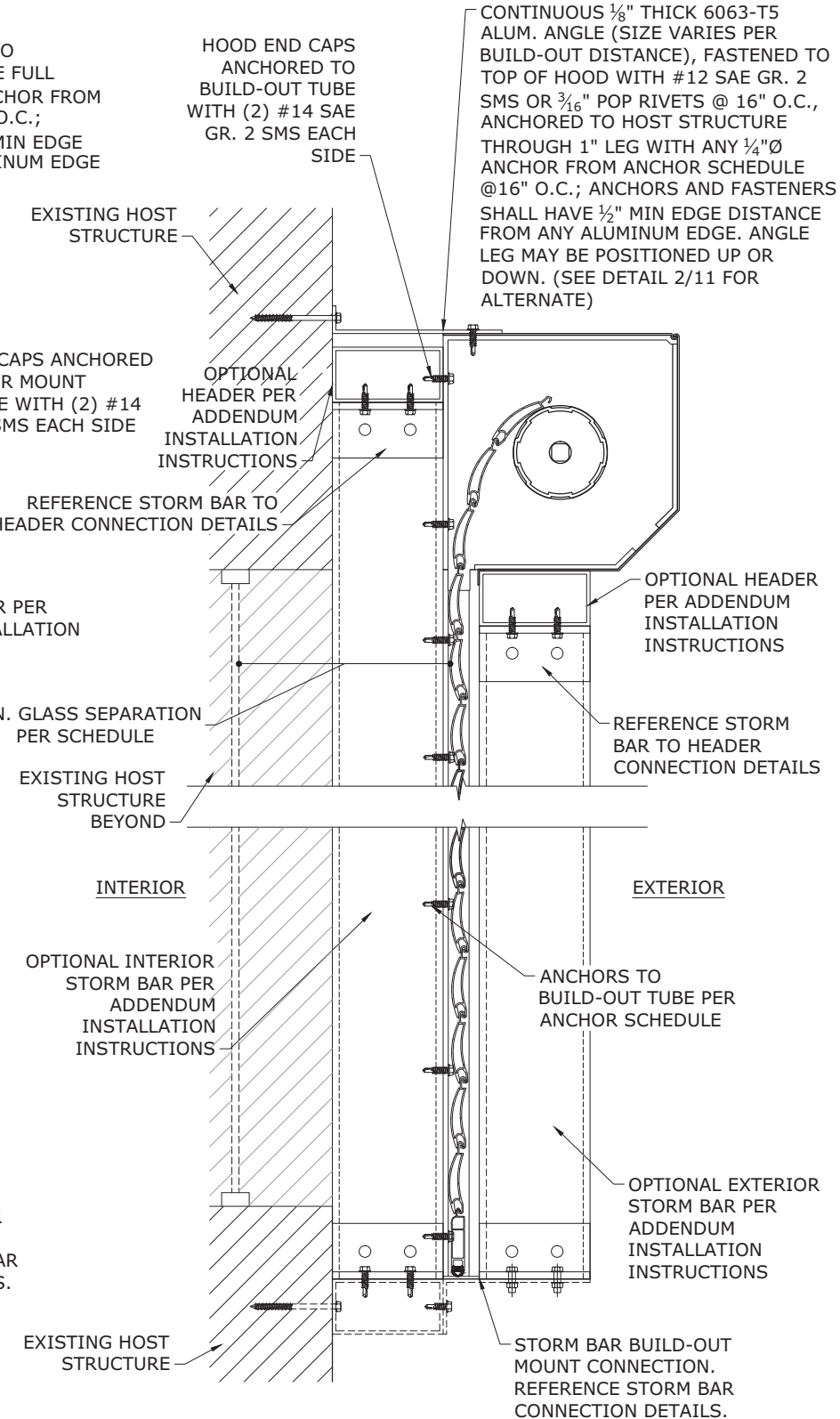
NOTE: FOR OPTIONAL MOUNTING CONDITIONS, REFERENCE ADDENDUM STORM BAR AND MULLION INSTALLATION INSTRUCTIONS.



2 INTERIOR MOUNT (SHOWN W/ OPTIONAL STORM BARS)

N.T.S. VERT SECTION

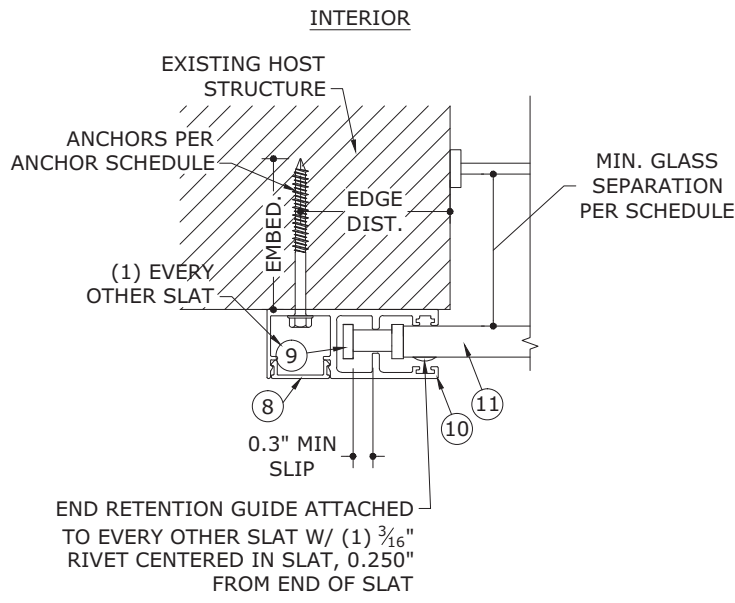
NOTE: FOR OPTIONAL MOUNTING CONDITIONS, REFERENCE ADDENDUM STORM BAR AND MULLION INSTALLATION INSTRUCTIONS.



3 BUILD-OUT MOUNT (SHOWN W/ OPTIONAL STORM BARS)

N.T.S. VERT SECTION

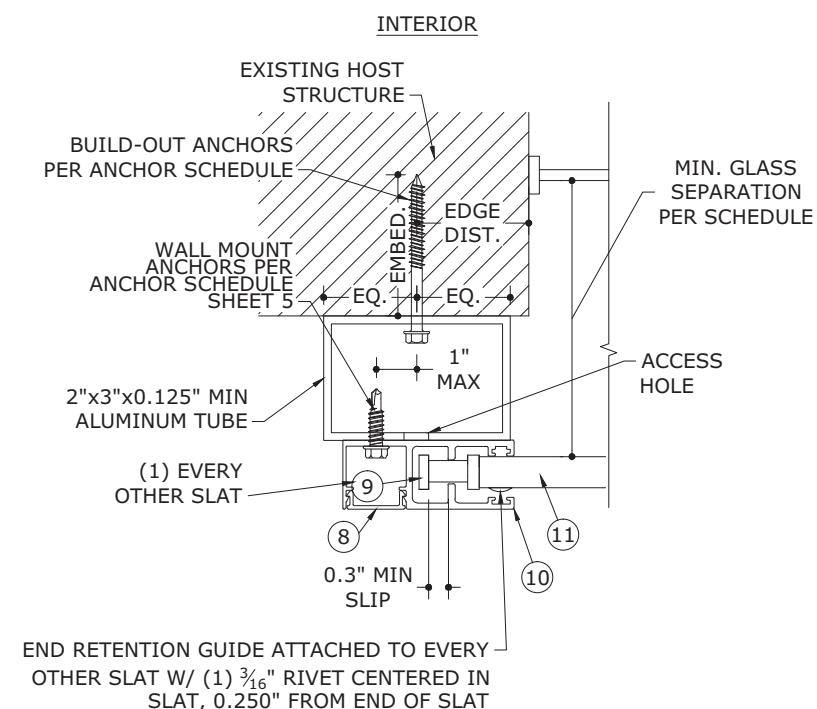
NOTE: FOR OPTIONAL MOUNTING CONDITIONS, REFERENCE ADDENDUM STORM BAR AND MULLION INSTALLATION INSTRUCTIONS.



1
4

END RETENTION
TYPICAL WALL MOUNT

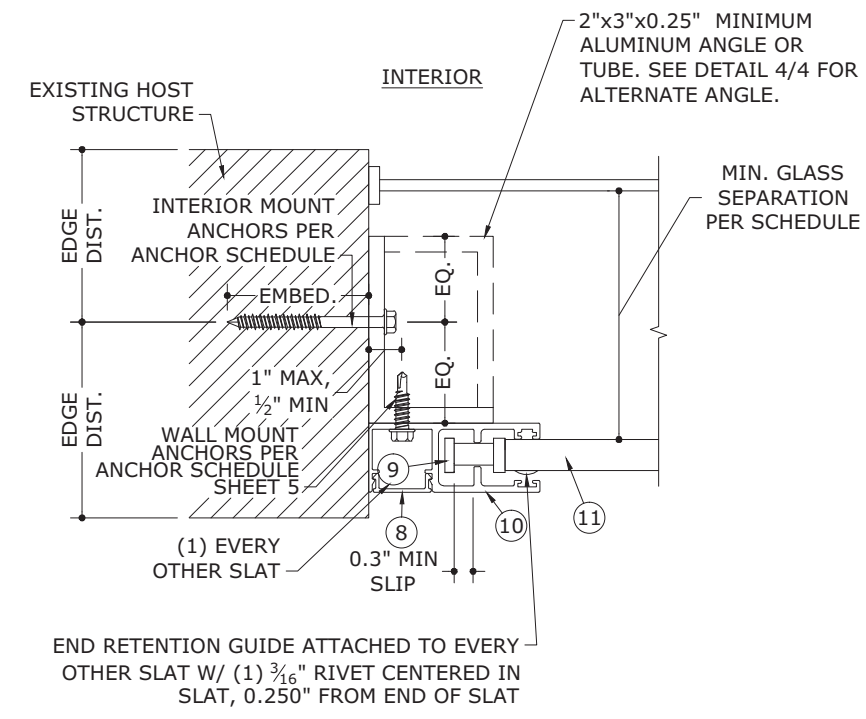
N.T.S. HORIZ SECTION



2
4

END RETENTION
TYP. BUILD-OUT MOUNT

N.T.S. HORIZ SECTION



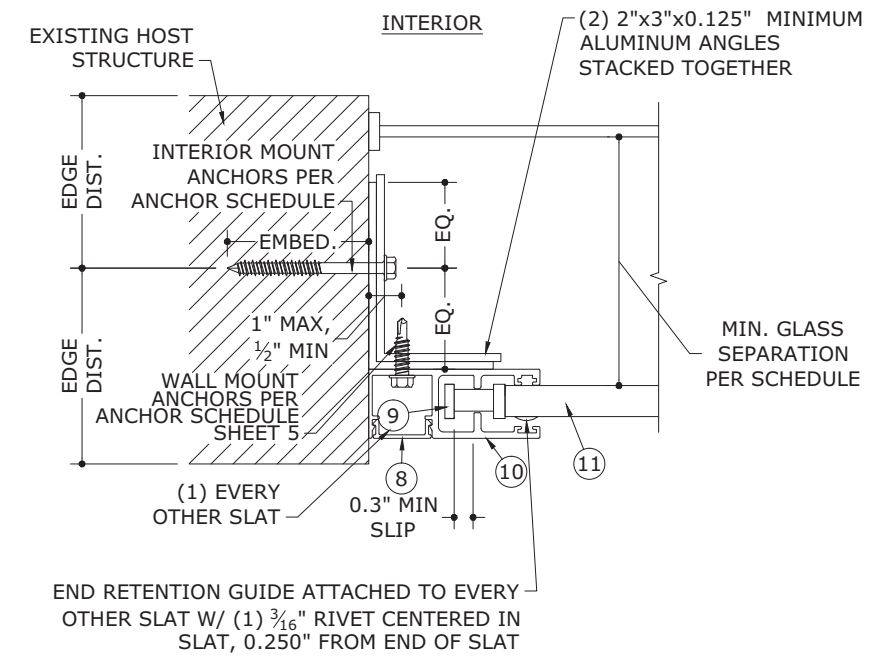
3
4

END RETENTION
TYP. INTERIOR MOUNT

N.T.S. HORIZ SECTION

ANCHOR NOTES:

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. WHERE ANCHORS FASTEN TO NARROW FACE OF STUD FRAMING, ANCHOR SHALL BE LOCATED IN CENTER OF NOMINAL 2x (MIN) WOOD STUD (i.e. 3/4" EDGE DISTANCE IS ACCEPTABLE FOR ANCHORS TO WOOD FRAMING).
3. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
4. ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN, BUT ONLY PROVIDES MAXIMUM ALLOWABLE ANCHOR SPACING. MAXIMUM ALLOWABLE SPANS AND PRESSURES INDICATED IN SPAN SCHEDULE SHALL APPLY.
5. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD. FASTENERS MAY BE INSTALLED THROUGH PLYWOOD PROVIDED THAT THEY ARE FULLY EMBEDDED INTO STRUCTURAL MATERIAL BEYOND.
6. WOOD BUCKS (BY OTHERS) SHALL BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE EXISTING STRUCTURE.
7. MACHINE SCREWS SHALL HAVE MINIMUM OF 1/2" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
8. SHEET METAL SCREWS SHALL BE INSTALLED WITH FULL ENGAGEMENT OF THREADS INTO METAL HOST STRUCTURE.
9. DESIGNATES ANCHOR CONDITIONS WHICH ARE NOT ACCEPTABLE FOR USE.
10. * ANCHOR SHALL PENETRATE THROUGH FACE SHELL INTO GROUTED CELL.



4
4

END RETENTION
TYP. INTERIOR MOUNT

N.T.S. HORIZ SECTION

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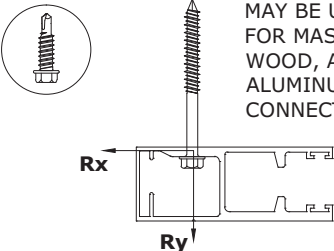
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ANCHOR SCHEDULE: END RETENTION WALL MOUNT

 MAY BE USED FOR MASONRY, WOOD, AND ALUMINUM CONNECTIONS				MAXIMUM SPACING (O.C.)																
				1/4" DEWALT ULTRAICON TO 2700 PSI MIN. CONCRETE; 1.75" MIN. EMBEDMENT; 2.5" MIN. EDGE DISTANCE	1/4" SS ITW TAPCON TO 3192 PSI MIN. CONCRETE; 1.75" MIN. EMBEDMENT; 2.5" MIN. EDGE DISTANCE	5/16" DEWALT ULTRAICON TO 3500 PSI MIN. CONCRETE; 2" MIN. EMBEDMENT; 3.125" MIN. EDGE DISTANCE	5/16" ITW TAPCON			1/4" DEWALT POWER-BOLT TO 3000 PSI MIN. CONCRETE; 2.5" MIN. EMBEDMENT; 3" MIN. EDGE DISTANCE	1/4" ALL-POINTS SOLID-SET		1/4" LAG SCREW TO G=0.55 MIN WOOD; 1.5" MIN. EMBEDMENT; 0.75" MIN. EDGE DISTANCE	5/16" LAG SCREW TO G=0.42 MIN WOOD; 2" MIN. EMBEDMENT; 0.75" MIN. EDGE DISTANCE	#14 WOOD SCREW TO G=0.55 MIN WOOD; 1.5" MIN. EMBEDMENT; 0.75" MIN. EDGE DISTANCE	#14 410 SS SMS W/ FULL THREAD PENETRATION OR 1/4-20 410 SS THRU-BOLT TO 0.125" MIN. 6063-T6 ALUM; 0.5" MIN. EDGE DISTANCE	5/16" 410 SS SMS W/ FULL THREAD PENETRATION OR 5/16-18 410 SS THRU-BOLT TO 0.25" MIN. 6063-T6 ALUM; 0.625" MIN. EDGE DISTANCE	3/8" DEWALT SCREW BOLT TO 3000 PSI MIN. CONCRETE; 3.5" MIN. EMBEDMENT; 4.5" MIN. EDGE DISTANCE	3/8" DEWALT CONFLX	
SLAT SPAN	DESIGN PRESSURE	Rx	Ry				TO 2899 PSI MIN. CONCRETE; 2.25" MIN. EMBEDMENT; 3.125" MIN. EDGE DISTANCE	TO GROUT-FILLED CONCRETE BLOCK; 2.25" MIN. EMBEDMENT; 4" MIN. EDGE DISTANCE	TO HOLLOW CONCRETE BLOCK; 1.75" MIN. EMBEDMENT; 4" MIN. EDGE DISTANCE											
62"	+/- 37.5 PSF	0.0 LB/FT	96.9 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 42.1 PSF	0.0 LB/FT	108.8 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 46.0 PSF	0.0 LB/FT	118.8 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 50.0 PSF	0.0 LB/FT	129.2 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 56.4 PSF	0.0 LB/FT	145.7 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 68.0 PSF	0.0 LB/FT	175.7 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 76.0 PSF	0.0 LB/FT	196.3 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
72"	+/- 93.0 PSF	0.0 LB/FT	240.3 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	10.4"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.7"	12.0"	12.0"	
	+/- 37.5 PSF	0.0 LB/FT	112.5 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 42.1 PSF	0.0 LB/FT	126.3 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 46.0 PSF	0.0 LB/FT	138.0 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 50.0 PSF	0.0 LB/FT	150.0 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 56.4 PSF	0.0 LB/FT	169.2 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 68.0 PSF	32.0 LB/FT	204.0 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	11.5"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
84"	+/- 76.0 PSF	114.8 LB/FT	228.0 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	8.9"	12.0"	12.0"	11.1"	11.9"	10.8"	11.4"	11.5"	10.3"	12.0"	12.0"	
	+/- 93.0 PSF	291.3 LB/FT	279.0 LB/FT	9.7"	10.6"	12.0"	12.0"	12.0"	6.1"	12.0"	11.7"	6.7"	5.8"	5.1"	5.8"	8.0"	7.7"	12.0"	12.0"	
	+/- 37.5 PSF	0.0 LB/FT	131.3 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 42.1 PSF	55.2 LB/FT	147.4 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 46.0 PSF	106.0 LB/FT	161.0 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	
	+/- 50.0 PSF	158.0 LB/FT	175.0 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	10.1"	12.0"	12.0"	11.4"	10.3"	9.1"	10.2"	12.0"	12.0"	12.0"	12.0"	
	+/- 56.4 PSF	241.3 LB/FT	197.4 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	8.1"	12.0"	12.0"	8.7"	7.2"	6.3"	7.3"	10.8"	10.5"	12.0"	12.0"	
96"	+/- 68.0 PSF	392.0 LB/FT	238.0 LB/FT	8.7"	9.5"	12.0"	12.0"	12.0"	6.0"	11.2"	10.6"	6.0"	4.6"	4.0"	4.8"	8.1"	8.2"	12.0"	12.0"	
	+/- 76.0 PSF	495.9 LB/FT	266.0 LB/FT	7.2"	7.8"	12.0"	12.0"	10.5"	5.1"	9.4"	8.8"	5.0"	3.7"	3.2"	3.8"	6.9"	7.1"	12.0"	12.0"	
	+/- 93.0 PSF	716.4 LB/FT	325.5 LB/FT	5.2"	5.7"	9.8"	9.6"	7.6"	3.8"	7.0"	6.4"	3.7"	2.6"	2.3"	2.7"	5.3"	5.5"	12.0"	12.0"	
	+/- 37.5 PSF	219.0 LB/FT	150.0 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	10.0"	12.0"	12.0"	10.3"	8.2"	7.1"	8.3"	12.0"	12.0"	12.0"	12.0"	
	+/- 42.1 PSF	292.1 LB/FT	168.4 LB/FT	11.9"	12.0"	12.0"	12.0"	12.0"	8.3"	12.0"	12.0"	8.3"	6.3"	5.5"	6.5"	11.3"	11.4"	12.0"	12.0"	
	+/- 46.0 PSF	354.0 LB/FT	184.0 LB/FT	10.1"	11.0"	12.0"	12.0"	12.0"	7.2"	12.0"	12.0"	7.1"	5.3"	4.6"	5.4"	9.9"	10.2"	12.0"	12.0"	
	+/- 50.0 PSF	417.4 LB/FT	200.0 LB/FT	8.8"	9.6"	12.0"	12.0"	12.0"	6.4"	11.7"	10.8"	6.2"	4.5"	3.9"	4.7"	8.8"	9.1"	12.0"	12.0"	
108"	+/- 56.4 PSF	518.8 LB/FT	225.6 LB/FT	7.3"	7.9"	12.0"	12.0"	10.7"	5.4"	9.8"	9.0"	5.1"	3.7"	3.2"	3.8"	7.5"	7.9"	12.0"	12.0"	
	+/- 68.0 PSF	702.2 LB/FT	272.0 LB/FT	5.6"	6.0"	10.4"	10.3"	8.1"	4.2"	7.5"	6.9"	3.9"	2.7"	2.4"	2.9"	5.9"	6.3"	12.0"	12.0"	
	+/- 76.0 PSF	828.4 LB/FT	304.0 LB/FT	4.8"	5.2"	9.0"	8.8"	7.0"	3.7"	6.5"	5.9"	3.4"	2.3"	2.0"	2.4"	5.1"	5.5"	12.0"	12.0"	
	+/- 37.5 PSF	413.5 LB/FT	168.8 LB/FT	9.3"	10.1"	12.0"	12.0"	12.0"	7.0"	12.0"	11.5"	6.5"	4.6"	4.0"	4.8"	9.7"	10.3"	12.0"	12.0"	
	+/- 42.1 PSF	500.6 LB/FT	189.5 LB/FT	7.9"	8.5"	12.0"	12.0"	11.4"	6.0"	10.7"	9.7"	5.5"	3.9"	3.3"	4.0"	8.3"	9.0"	12.0"	12.0"	
	+/- 46.0 PSF	574.3 LB/FT	207.0 LB/FT	7.0"	7.5"	12.0"	12.0"	10.1"	5.3"	9.4"	8.6"	4.9"	3.4"	2.9"	3.5"	7.4"	8.1"	12.0"	12.0"	
	+/- 50.0 PSF	649.9 LB/FT	225.0 LB/FT	6.2"	6.7"	11.6"	11.4"	9.0"	4.8"	8.5"	7.7"	4.4"	3.0"	2.6"	3.1"	6.7"	7.3"	12.0"	12.0"	
120"	+/- 56.4 PSF	770.6 LB/FT	253.8 LB/FT	5.3"	5.7"	9.9"	9.8"	7.7"	4.1"	7.2"	6.6"	3.7"	2.5"	2.2"	2.7"	5.8"	6.4"	12.0"	12.0"	
	+/- 68.0 PSF	988.9 LB/FT	306.0 LB/FT	4.2"	4.5"	7.9"	7.7"	6.1"		5.8"	5.2"				2.1"	4.6"	5.2"	12.0"	12.0"	
	+/- 37.5 PSF	591.7 LB/FT	187.5 LB/FT	7.0"	7.5"	12.0"	12.0"	10.1"	5.5"	9.5"	8.6"	4.9"	3.3"	2.8"	3.5"	7.7"	8.5"	12.0"	12.0"	
	+/- 42.1 PSF	693.4 LB/FT	210.5 LB/FT	6.0"	6.5"	11.3"	11.1"	8.7"	4.7"	8.3"	7.4"	4.2"	2.8"	2.4"	3.0"	6.7"	7.4"	12.0"	12.0"	
	+/- 46.0 PSF	779.5 LB/FT	230.0 LB/FT	5.4"	5.8"	10.1"	9.9"	7.8"	4.3"	7.4"	6.7"	3.8"	2.5"	2.2"	2.7"	6.0"	6.7"	12.0"	12.0"	
132"	+/- 50.0 PSF	867.8 LB/FT	250.0 LB/FT	4.8"	5.2"	9.1"	9.0"	7.0"	3.9"	6.7"	6.0"	3.4"	2.3"		2.4"	5.5"	6.1"	12.0"	12.0"	
	+/- 56.4 PSF	1008.7 LB/FT	282.0 LB/FT	4.2"	4.5"	7.9"	7.8"	6.1"	3.4"	5.8"	5.2"	2.9"			2.1"	4.8"	5.4"	12.0"	12.0"	
	+/- 37.5 PSF	761.4 LB/FT	206.3 LB/FT	5.6"	6.0"	10.5"	10.4"	8.1"	4.5"	7.8"	6.9"	3.9"	2.6"	2.2"	2.7"	6.4"	7.3"	12.0"	12.0"	
146.5"	+/- 42.1 PSF	878.6 LB/FT	231.6 LB/FT	4.9"	5.3"	9.2"	9.1"	7.0"	4.0"	6.8"	6.1"	3.4"	2.3"		2.4"	5.6"	6.4"	12.0"	12.0"	
	+/- 46.0 PSF	977.7 LB/FT	253.0 LB/FT	4.4"	4.7"	8.3"	8.2"	6.3"		6.1"	5.5"	3.1"	2.0"		2.1"	5.1"	5.8"	12.0"	12.0"	
	+/- 37.5 PSF	961.3 LB/FT	228.9 LB/FT	4.5"	4.9"	8.6"	8.5"	6.5"		6.4"	5.7"	3.2"	2.1"		2.2"	5.4"	6.2"	12.0"	12.0"	
146.5"	+/- 42.1 PSF	1098.1 LB/FT	257.0 LB/FT	4.0"	4.3"	7.5"	7.4"	5.7"		5.6"	5.0"				4.7"	5.5"	12.0"	12.0"	12.0"	
	+/- 46.0 PSF	1213.8 LB/FT	280.8 LB/FT		3.9"	6.8"	6.7"	5.2"		5.1"	4.5"					4.3"	5.0"	12.0"	12.0"	

ANCHOR NOTES: SEE SHEET
4 FOR ANCHOR NOTES.

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REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	4/25/14
REV FOR TDI	RWN	TSB	6/04/14
2014 FBC	RWN	CSL	4/08/15
2017 FBC	RWN	FLB	8/07/17
2020 FBC	CCB	RWN	6/30/20

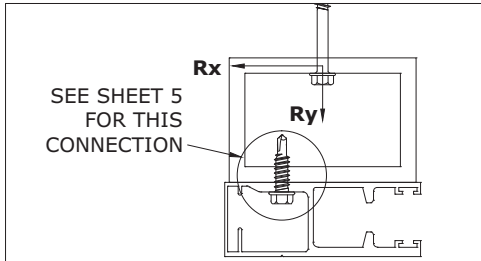
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SCALE: - -
PAGE DESCRIPTION:

ANCHOR SCHEDULE: END RETENTION BUILD-OUT MOUNT



SLAT SPAN	DESIGN PRESSURE	R _x	R _y	DISTANCE	DISTANCE	DISTANCE	DISTANCE	DISTANCE	DISTANCE	DISTANCE	DISTANCE	DISTANCE	DISTANCE	DISTANCE	DISTANCE	EDGE DISTANCE	EDGE DISTANCE	DISTANCE	DISTANCE	DISTANCE
62"	+/- 37.5 PSF	0.0 LB/FT	161.5 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
	+/- 42.1 PSF	0.0 LB/FT	181.3 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
	+/- 46.0 PSF	0.0 LB/FT	198.1 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
	+/- 50.0 PSF	0.0 LB/FT	215.3 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.6"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
	+/- 56.4 PSF	0.0 LB/FT	242.9 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.3"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.6"	12.0"	12.0"	12.0"
	+/- 68.0 PSF	0.0 LB/FT	292.8 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	8.6"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.5"	8.8"	12.0"	12.0"
	+/- 76.0 PSF	0.0 LB/FT	327.3 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	7.7"	12.0"	12.0"	12.0"	11.6"	12.0"	12.0"	9.4"	7.9"	12.0"	12.0"
+/- 93.0 PSF	0.0 LB/FT	400.5 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	6.3"	12.0"	12.0"	12.0"	9.5"	12.0"	12.0"	7.7"	6.4"	12.0"	12.0"	
72"	+/- 37.5 PSF	0.0 LB/FT	187.5 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
	+/- 42.1 PSF	0.0 LB/FT	210.5 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.9"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"
	+/- 46.0 PSF	0.0 LB/FT	230.0 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.9"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.2"	12.0"	12.0"
	+/- 50.0 PSF	0.0 LB/FT	250.1 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	10.3"	12.0"	12.0"
	+/- 56.4 PSF	0.0 LB/FT	282.1 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	8.9"	12.0"	12.0"	12.0"	12.0"	12.0"	11.0"	9.1"	12.0"	12.0"	12.0"
	+/- 68.0 PSF	32.0 LB/FT	340.1 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	7.1"	12.0"	12.0"	12.0"	10.2"	12.0"	12.0"	8.8"	7.4"	12.0"	12.0"
	+/- 76.0 PSF	114.8 LB/FT	380.1 LB/FT	11.3"	12.0"	12.0"	12.0"	12.0"	12.0"	5.8"	12.0"	12.0"	12.0"	7.7"	9.6"	8.9"	8.8"	7.3"	6.4"	12.0"
+/- 93.0 PSF	291.3 LB/FT	465.1 LB/FT	7.3"	8.2"	12.0"	12.0"	12.0"	11.1"	4.2"	8.6"	8.8"	5.0"	5.0"	4.5"	4.9"	5.4"	4.9"	12.0"	12.0"	
84"	+/- 37.5 PSF	0.0 LB/FT	218.8 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	11.5"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.8"	12.0"	12.0"
	+/- 42.1 PSF	55.2 LB/FT	245.6 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	9.2"	12.0"	12.0"	12.0"	12.0"	12.0"	12.0"	11.6"	10.0"	12.0"	12.0"	12.0"
	+/- 46.0 PSF	106.0 LB/FT	268.4 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	7.9"	12.0"	12.0"	12.0"	10.1"	11.7"	10.8"	11.0"	10.1"	8.9"	12.0"	12.0"
	+/- 50.0 PSF	158.0 LB/FT	291.7 LB/FT	12.0"	12.0"	12.0"	12.0"	12.0"	6.9"	12.0"	12.0"	12.0"	8.4"	8.9"	8.0"	8.5"	8.9"	8.0"	12.0"	12.0"
	+/- 56.4 PSF	241.3 LB/FT	329.1 LB/FT	9.7"	10.8"	12.0"	12.0"	12.0"	12.0"	5.7"	11.6"	11.6"	6.7"	6.4"	5.7"	6.3"	7.4"	6.8"	12.0"	12.0"
	+/- 68.0 PSF	392.0 LB/FT	396.7 LB/FT	7.0"	7.7"	12.0"	12.0"	12.0"	10.4"	4.3"	8.6"	8.4"	4.8"	4.2"	3.7"	4.2"	5.7"	5.4"	12.0"	12.0"
	+/- 76.0 PSF	495.9 LB/FT	443.4 LB/FT	5.9"	6.4"	10.8"	10.5"	8.7"		7.3"	7.1"	4.0"	3.4"	3.0"	3.5"	5.0"	4.8"	12.0"	12.0"	
+/- 93.0 PSF	716.4 LB/FT	542.6 LB/FT	4.4"	4.8"	8.1"	7.8"	6.4"	2.9"	5.5"	5.3"	3.0"	2.5"	2.1"	2.5"	3.9"	3.8"	12.0"	12.0"		
96"	+/- 37.5 PSF	219.0 LB/FT	250.1 LB/FT	11.8"	12.0"	12.0"	12.0"	12.0"	7.2"	12.0"	12.0"	12.0"	8.1"	7.4"	6.5"	7.3"	9.4"	8.8"	12.0"	12.0"
	+/- 42.1 PSF	292.1 LB/FT	280.7 LB/FT	9.6"	10.6"	12.0"	12.0"	12.0"	6.0"	11.9"	11.6"	12.0"	6.6"	5.7"	5.1"	5.8"	8.0"	7.6"	12.0"	12.0"
	+/- 46.0 PSF	354.0 LB/FT	306.7 LB/FT	8.3"	9.2"	12.0"	12.0"	12.0"	5.3"	10.4"	10.1"	12.0"	5.8"	4.8"	4.3"	4.9"	7.1"	6.9"	12.0"	12.0"
	+/- 50.0 PSF	417.4 LB/FT	333.4 LB/FT	7.3"	8.0"	12.0"	12.0"	10.8"	4.8"	9.2"	8.9"	12.0"	5.1"	4.2"	3.7"	4.2"	6.4"	6.2"	12.0"	12.0"
	+/- 56.4 PSF	518.8 LB/FT	376.1 LB/FT	6.1"	6.7"	11.3"	11.0"	9.1"	4.1"	7.8"	7.5"	12.0"	4.2"	3.4"	3.0"	3.5"	5.5"	5.4"	12.0"	12.0"
	+/- 68.0 PSF	702.2 LB/FT	453.4 LB/FT	4.7"	5.2"	8.8"	8.6"	7.0"		6.1"	5.8"	12.0"	3.3"	2.6"	2.2"	2.6"	4.4"	4.4"	12.0"	12.0"
	+/- 76.0 PSF	828.4 LB/FT	506.8 LB/FT	4.1"	4.5"	7.6"	7.4"	6.0"		5.3"	5.0"		2.2"		2.3"	3.8"	3.9"	12.0"	12.0"	
108"	+/- 37.5 PSF	413.5 LB/FT	281.3 LB/FT	7.9"	8.6"	12.0"	12.0"	11.6"	5.3"	10.1"	9.6"	12.0"	5.5"	4.3"	3.8"	4.4"	7.2"	7.1"	12.0"	12.0"
	+/- 42.1 PSF	500.6 LB/FT	315.8 LB/FT	6.7"	7.3"	12.0"	12.0"	9.9"	4.6"	8.7"	8.2"	12.0"	4.7"	3.6"	3.2"	3.7"	6.2"	6.2"	12.0"	12.0"
	+/- 46.0 PSF	574.3 LB/FT	345.1 LB/FT	5.9"	6.5"	11.0"	10.8"	8.7"	4.1"	7.7"	7.3"	12.0"	4.1"	3.2"	2.8"	3.3"	5.6"	5.6"	12.0"	12.0"
	+/- 50.0 PSF	649.9 LB/FT	375.1 LB/FT	5.3"	5.8"	9.9"	9.7"	7.8"		6.9"	6.5"	12.0"	3.7"	2.8"	2.5"	2.9"	5.1"	5.1"	12.0"	12.0"
	+/- 56.4 PSF	770.6 LB/FT	423.1 LB/FT	4.6"	5.0"	8.5"	8.3"	6.7"		6.0"	5.6"	12.0"	3.2"	2.4"	2.1"	2.5"	4.4"	4.5"	12.0"	12.0"
	+/- 68.0 PSF	988.9 LB/FT	510.1 LB/FT		4.0"	6.8"	6.6"	5.3"			4.5"						3.6"	3.7"	12.0"	12.0"
120"	+/- 37.5 PSF	591.7 LB/FT	312.6 LB/FT	6.0"	6.6"	11.2"	11.0"	8.8"	4.3"	7.9"	7.4"	12.0"	4.2"	3.1"	2.7"	3.2"	5.9"	6.0"	12.0"	12.0"
	+/- 42.1 PSF	693.4 LB/FT	350.9 LB/FT	5.2"	5.7"	9.7"	9.5"	7.6"		6.9"	6.4"	12.0"	3.6"	2.7"	2.3"	2.8"	5.1"	5.3"	12.0"	12.0"
	+/- 46.0 PSF	779.5 LB/FT	383.4 LB/FT	4.7"	5.1"	8.7"	8.6"	6.9"		6.2"	5.8"	12.0"	3.3"	2.4"	2.1"	2.5"	4.6"	4.8"	12.0"	12.0"
	+/- 50.0 PSF	867.8 LB/FT	416.8 LB/FT	4.2"	4.6"	7.9"	7.8"	6.2"		5.6"	5.2"	12.0"	3.0"	2.2"		2.2"	4.2"	4.4"	12.0"	12.0"
	+/- 56.4 PSF	1008.7 LB/FT	470.1 LB/FT		4.0"	6.9"	6.7"	5.4"			4.5"						3.7"	3.9"	12.0"	12.0"
132"	+/- 37.5 PSF	761.4 LB/FT	343.8 LB/FT	4.9"	5.4"	9.2"	9.0"	7.2"		6.6"	6.1"	12.0"	3.4"	2.5"	2.2"	2.6"	5.0"	5.2"	12.0"	12.0"
	+/- 42.1 PSF	878.6 LB/FT	386.0 LB/FT	4.3"	4.7"	8.0"	7.9"	6.3"		5.7"	5.3"	12.0"	3.0"	2.2"		2.2"	4.4"	4.6"	12.0"	12.0"
	+/- 46.0 PSF	977.7 LB/FT	421.8 LB/FT	3.9"	4.2"	7.3"	7.1"	5.7"		5.2"	4.8"					2.0"	4.0"	4.2"	12.0"	12.0"
146.5"	+/- 37.5 PSF	961.3 LB/FT	381.6 LB/FT	4.0"	4.4"	7.6"	7.4"	5.9"		5.5"	5.0"					2.1"	4.2"	4.5"	12.0"	12.0"
	+/- 42.1 PSF	1098.1 LB/FT	428.4 LB/FT		3.9"	6.7"	6.5"	5.2"			4.4"						3.7"	4.0"	12.0"	12.0"
	+/- 46.0 PSF	1213.8 LB/FT	468.1 LB/FT		3.5"	6.0"	5.9"	4.7"			4.0"						3.4"	3.7"	11.9"	12.0"

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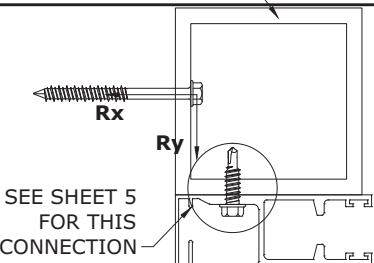
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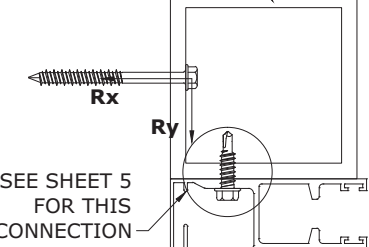
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OR TUBE(S) FROM
DETAILS 3/4 AND 4/4



				MAXIMUM SPACING (O.C.)																
				1/4" DEWALT ULTRAICON TO 2700 PSI MIN. CONCRETE; 1.75" MIN. EMBEDMENT; 2.5" MIN. EDGE DISTANCE	1/4" SS ITW TAPCON TO 3192 PSI MIN. CONCRETE; 1.75" MIN. EMBEDMENT; 2.5" MIN. EDGE DISTANCE	5/16" DEWALT ULTRAICON TO 3500 PSI MIN. CONCRETE; 2" MIN. EMBEDMENT; 3.125" MIN. EDGE DISTANCE	5/16" ITW TAPCON			1/4" DEWALT POWER-BOLT TO 3000 PSI MIN. CONCRETE; 2.5" MIN. EMBEDMENT; 3" MIN. EDGE DISTANCE	1/4" ALL-POINTS SOLID-SET		1/4" LAG SCREW TO G=0.55 MIN WOOD; 1.5" MIN. EMBEDMENT; 0.75" MIN. EDGE DISTANCE	5/16" LAG SCREW TO G=0.42 MIN WOOD; 2" MIN. EMBEDMENT; 0.75" MIN. EDGE DISTANCE	#14 WOOD SCREW TO G=0.55 MIN WOOD; 1.5" MIN. EMBEDMENT; 0.75" MIN. EDGE DISTANCE	#14 410 SS SMS W/ FULL THREAD PENETRATION OR 1/4-20 410 SS THRU-BOLT TO 0.125" MIN. 6063-T6 ALUM; 0.5" MIN. EDGE DISTANCE	5/16" 410 SS SMS W/ FULL THREAD PENETRATION OR 5/16-18 410 SS THRU-BOLT TO 0.25" MIN. 6063-T6 ALUM; 0.625" MIN. EDGE DISTANCE	3/8" DEWALT SCREW BOLT TO 3000 PSI MIN. CONCRETE; 3.5" MIN. EMBEDMENT; 4.5" MIN. EDGE DISTANCE	3/8" DEWALT CONFLX	
SLAT SPAN	DESIGN PRESSURE	Rx	Ry				TO 2899 PSI MIN. CONCRETE; 2.25" MIN. EMBEDMENT; 3.125" MIN. EDGE DISTANCE	TO GROUT-FILLED CONCRETE BLOCK; 2.25" MIN. EMBEDMENT; 4" MIN. EDGE DISTANCE	TO HOLLOW CONCRETE BLOCK; 1.75" MIN. EMBEDMENT; 4" MIN. EDGE DISTANCE											
62"	+/- 37.5 PSF	64.6 LB/FT	96.9 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 42.1 PSF	72.5 LB/FT	108.8 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 46.0 PSF	79.3 LB/FT	118.8 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 50.0 PSF	86.2 LB/FT	129.2 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 56.4 PSF	97.2 LB/FT	145.7 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 68.0 PSF	117.2 LB/FT	175.7 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 76.0 PSF	131.0 LB/FT	196.3 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
72"	+/- 93.0 PSF	160.2 LB/FT	240.3 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	7.5"	6.5"	7.6"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 37.5 PSF	75.0 LB/FT	112.5 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 42.1 PSF	84.2 LB/FT	126.3 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 46.0 PSF	92.0 LB/FT	138.0 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 50.0 PSF	100.1 LB/FT	150.0 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 56.4 PSF	112.9 LB/FT	169.2 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 68.0 PSF	168.1 LB/FT	204.0 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
84"	+/- 76.0 PSF	266.8 LB/FT	228.0 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	6.7"	8.0"	8.0"	7.7"	7.0"	6.2"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 93.0 PSF	477.4 LB/FT	279.0 LB/FT	7.4"	8.0"	8.0"	8.0"	8.0"	4.1"	8.0"	8.0"	5.0"	5.1"	4.6"	5.0"	5.3"	4.8"	8.0"	8.0"	
	+/- 37.5 PSF	87.5 LB/FT	131.3 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 42.1 PSF	153.5 LB/FT	147.4 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 46.0 PSF	213.4 LB/FT	161.0 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 50.0 PSF	274.8 LB/FT	175.0 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	7.1"	8.0"	8.0"	8.0"	8.0"	7.6"	8.0"	8.0"	8.0"	8.0"	8.0"	
	+/- 56.4 PSF	372.9 LB/FT	197.4 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	5.4"	8.0"	8.0"	6.7"	7.0"	6.4"	6.8"	6.9"	6.3"	8.0"	8.0"	
96"	+/- 68.0 PSF	550.8 LB/FT	238.0 LB/FT	7.1"	7.9"	8.0"	8.0"	8.0"		8.0"	8.0"	4.8"	5.4"	5.0"	5.1"	4.8"	4.3"	8.0"	8.0"	
	+/- 76.0 PSF	673.3 LB/FT	266.0 LB/FT	6.0"	6.7"	8.0"	8.0"	8.0"		6.7"	7.0"	4.0"	4.7"	4.3"	4.4"	4.0"	3.5"	8.0"	8.0"	
	+/- 93.0 PSF	933.5 LB/FT	325.5 LB/FT	4.4"	5.0"	8.0"	7.7"	6.8"		5.0"	5.2"	3.0"	3.6"	3.3"	3.4"	2.9"	2.6"	8.0"	8.0"	
	+/- 37.5 PSF	319.1 LB/FT	150.0 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	6.5"	8.0"	8.0"	8.0"	8.0"	8.0"	8.0"	7.4"	8.0"	8.0"	8.0"	
	+/- 42.1 PSF	404.4 LB/FT	168.4 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	5.2"	8.0"	8.0"	6.6"	7.5"	6.9"	7.1"	6.6"	5.9"	8.0"	8.0"	
	+/- 46.0 PSF	476.7 LB/FT	184.0 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	4.5"	8.0"	8.0"	5.7"	6.7"	6.2"	6.3"	5.7"	5.0"	8.0"	8.0"	
	+/- 50.0 PSF	550.8 LB/FT	200.0 LB/FT	7.5"	8.0"	8.0"	8.0"	8.0"		8.0"	8.0"	5.1"	6.0"	5.5"	5.6"	5.0"	4.4"	8.0"	8.0"	
108"	+/- 56.4 PSF	669.3 LB/FT	225.6 LB/FT	6.3"	7.1"	8.0"	8.0"	8.0"		7.0"	7.4"	4.2"	5.1"	4.8"	4.8"	4.1"	3.6"	8.0"	8.0"	
	+/- 68.0 PSF	883.6 LB/FT	272.0 LB/FT	4.9"	5.5"	8.0"	8.0"	7.5"		5.4"	5.7"	3.3"	4.1"	3.8"	3.8"	3.1"	2.7"	8.0"	8.0"	
	+/- 76.0 PSF	1031.1 LB/FT	304.0 LB/FT	4.2"	4.7"	7.6"	7.2"	6.5"		4.9"		3.6"	3.3"	3.3"	3.3"	2.7"	2.4"	8.0"	8.0"	
	+/- 37.5 PSF	526.0 LB/FT	168.8 LB/FT	8.0"	8.0"	8.0"	8.0"	8.0"	4.2"	8.0"	8.0"	5.5"	6.7"	6.2"	6.2"	5.3"	4.6"	8.0"	8.0"	
	+/- 42.1 PSF	626.9 LB/FT	189.5 LB/FT	6.9"	7.8"	8.0"	8.0"	8.0"		7.6"	8.0"	4.7"	5.8"	5.4"	5.4"	4.4"	3.9"	8.0"	8.0"	
	+/- 46.0 PSF	712.4 LB/FT	207.0 LB/FT	6.1"	6.9"	8.0"	8.0"	8.0"		6.8"	7.2"	4.1"	5.2"	4.9"	4.8"	3.9"	3.4"	8.0"	8.0"	
	+/- 50.0 PSF	799.9 LB/FT	225.0 LB/FT	5.5"	6.2"	8.0"	8.0"	8.0"		6.1"	6.4"	3.7"	4.7"	4.4"	4.3"	3.5"	3.1"	8.0"	8.0"	
120"	+/- 56.4 PSF	939.9 LB/FT	253.8 LB/FT	4.7"	5.3"	8.0"	8.0"	7.3"		5.2"	5.5"	3.2"	4.1"	3.8"	3.7"	3.0"	2.6"	8.0"	8.0"	
	+/- 68.0 PSF	1193.0 LB/FT	306.0 LB/FT		4.2"	6.7"	6.4"	5.8"			4.4"		3.3"	3.1"	3.0"	2.4"	2.1"	8.0"	8.0"	
	+/- 37.5 PSF	716.7 LB/FT	187.5 LB/FT	6.2"	7.0"	8.0"	8.0"	8.0"		6.8"	7.3"	4.2"	5.4"	5.1"	5.0"	3.9"	3.4"	8.0"	8.0"	
	+/- 42.1 PSF	833.8 LB/FT	210.5 LB/FT	5.4"	6.1"	8.0"	8.0"	8.0"		5.9"	6.3"	3.6"	4.8"	4.5"	4.3"	3.4"	2.9"	8.0"	8.0"	
	+/- 46.0 PSF	933.0 LB/FT	230.0 LB/FT	4.8"	5.5"	8.0"	8.0"	7.5"		5.3"	5.7"	3.3"	4.3"	4.1"	3.9"	3.0"	2.6"	8.0"	8.0"	
	+/- 50.0 PSF	1034.5 LB/FT	250.0 LB/FT	4.4"	5.0"	7.8"	7.5"	6.8"		5.1"	5.1"	3.0"	3.9"	3.7"	3.6"	2.7"	2.4"	8.0"	8.0"	
	+/- 56.4 PSF	1196.8 LB/FT	282.0 LB/FT		4.3"	6.8"	6.5"	5.9"		4.4"			3.4"	3.2"	3.1"	2.4"	2.1"	8.0"	8.0"	
132"	+/- 37.5 PSF	899.0 LB/FT	206.3 LB/FT	5.1"	5.8"	8.0"	8.0"	7.9"		5.6"	5.9"	3.4"	4.6"	4.4"	4.2"	3.2"	2.7"	8.0"	8.0"	
	+/- 42.1 PSF	1033.0 LB/FT	231.6 LB/FT	4.5"	5.0"	8.0"	7.6"	6.9"			5.2"	3.0"	4.1"	3.9"	3.7"	2.8"	2.4"	8.0"	8.0"	
	+/- 46.0 PSF	1146.5 LB/FT	253.0 LB/FT	4.0"	4.6"	7.2"	6.8"	6.2"			4.7"		3.7"	3.5"	3.3"	2.5"	2.2"	8.0"	8.0"	
146.5"	+/- 37.5 PSF	1114.0 LB/FT	228.9 LB/FT	4.2"	4.8"	7.5"	7.1"	6.5"			4.9"		3.9"	3.7"	3.5"	2.6"	2.2"	8.0"	8.0"	
	+/- 42.1 PSF	1269.5 LB/FT	257.0 LB/FT		4.2"	6.6"	6.3"	5.7"			4.3"		3.4"	3.3"	3.1"			8.0"	8.0"	
	+/- 46.0 PSF	1401.1 LB/FT	280.8 LB/FT			6.0"	5.7"	5.2"			3.9"		3.1"	3.0"	2.8"			8.0"	8.0"	

ANCHOR NOTES: SEE SHEET
4 FOR ANCHOR NOTES.

FRANK BENNARDO, PE
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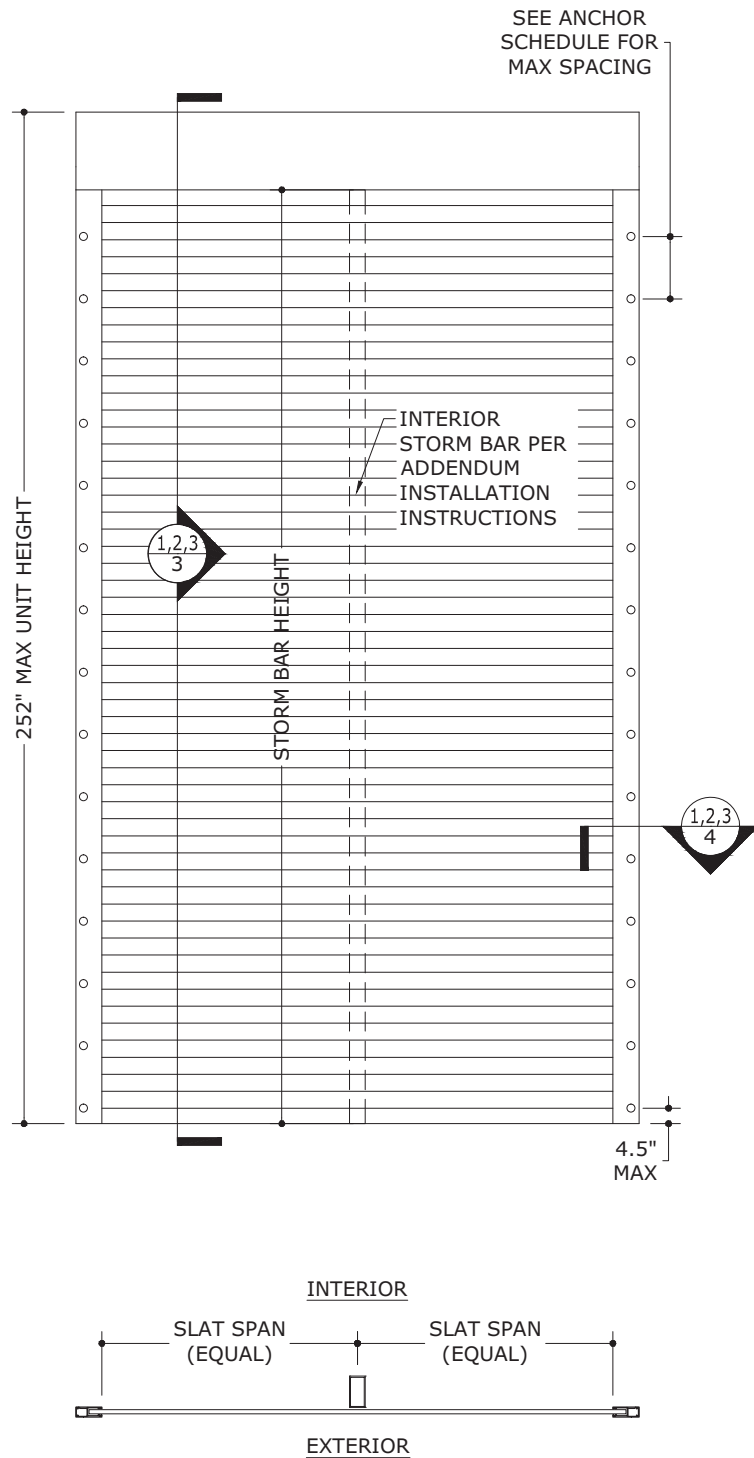
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INIT ISSUE	KL	FLB	4/25/14
REV FOR TDI	RWN	TSB	6/04/14
2014 FBC	RWN	CSL	4/08/15
2017 FBC	RWN	FLB	8/07/17
2020 FBC	CCB	RWN	6/30/20

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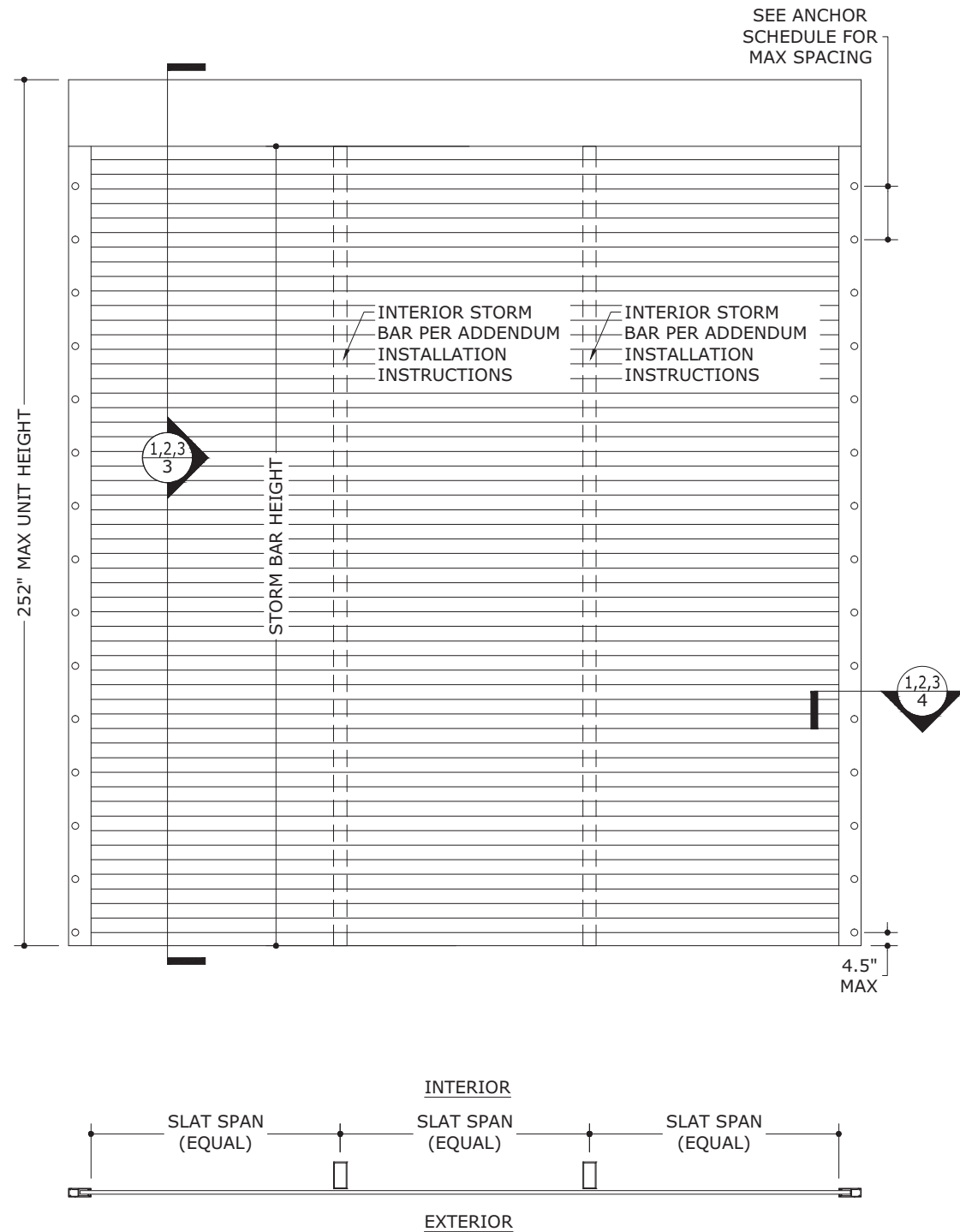
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8

END RETENTION SHUTTER WITH
INTERIOR STORM BARS (DOUBLE-SPAN)

N.T.S. EXTERIOR ELEV

TABLE 3 MINIMUM GLAZING SEPARATION END-RETENTION SHUTTER WITH INTERIOR STORM BARS (ESSENTIAL FACILITIES ONLY)				
SLAT SPAN	SPAN TYPE	POSITIVE DESIGN PRESSURE	INSTALLATIONS ≤ 30' ABOVE GRADE	INSTALLATIONS > 30' ABOVE GRADE
48.5"	DOUBLE SPAN	+ 30 PSF	4.5"	3.3"
		+ 40 PSF	4.5"	3.3"
		+ 50 PSF	4.5"	3.3"
		+ 60 PSF	4.5"	3.3"
		+ 70 PSF	4.5"	3.3"
55.0"	DOUBLE SPAN	+ 30 PSF	4.5"	3.5"
		+ 40 PSF	4.5"	3.5"
		+ 50 PSF	4.5"	3.5"
		+ 60 PSF	4.5"	3.5"
		+ 70 PSF	4.5"	3.5"
36.7"	DOUBLE SPAN	+ 30 PSF	4.5"	2.7"
		+ 40 PSF	4.5"	2.7"
		+ 50 PSF	4.5"	2.7"
		+ 60 PSF	4.5"	2.7"
		+ 70 PSF	4.5"	2.7"
44.0"	TRIPLE SPAN	+ 30 PSF	4.5"	2.8"
		+ 40 PSF	4.5"	2.8"
		+ 50 PSF	4.5"	2.8"
		+ 60 PSF	4.5"	2.8"
		+ 70 PSF	4.5"	2.8"
48.7"	TRIPLE SPAN	+ 30 PSF	4.5"	2.9"
		+ 40 PSF	4.5"	2.9"
		+ 50 PSF	4.5"	2.9"
		+ 60 PSF	4.5"	2.9"
		+ 70 PSF	4.5"	2.9"

- TABLE 3 NOTES:**
- SLAT SPAN IS DEFINED IN DETAILS 1/8 AND 2/8
 - SEPARATION FROM GLAZING IS REQUIRED **ONLY** IN ESSENTIAL FACILITIES.
 - LINEAR INTERPOLATION BETWEEN SHUTTER SPANS IS NOT PERMITTED. FOR SPANS BETWEEN THOSE INDICATED ABOVE, THE SEPARATION FROM GLASS FOR THE NEXT HIGHER SPAN SHALL BE USED.



2
8

END RETENTION SHUTTER WITH
INTERIOR STORM BARS (TRIPLE-SPAN)

N.T.S. EXTERIOR ELEV

FRANK BENNARDO, PE
PE# 0046549 CA#9885



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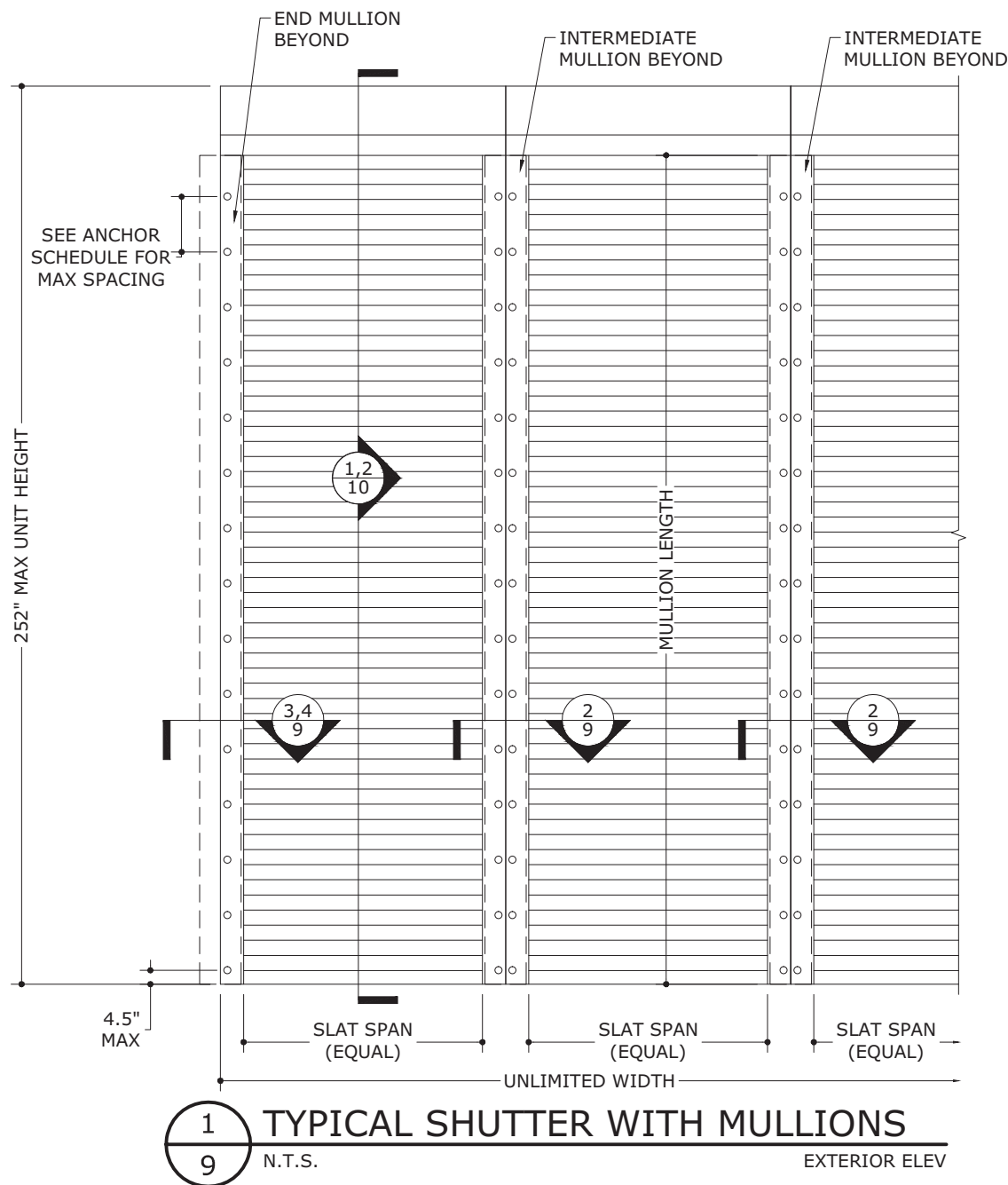
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REV FOR TDI	RWN	TSB	6/04/14
2014 FBC	RWN	CSL	4/08/15
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2020 FBC	CCB	RWN	6/30/20

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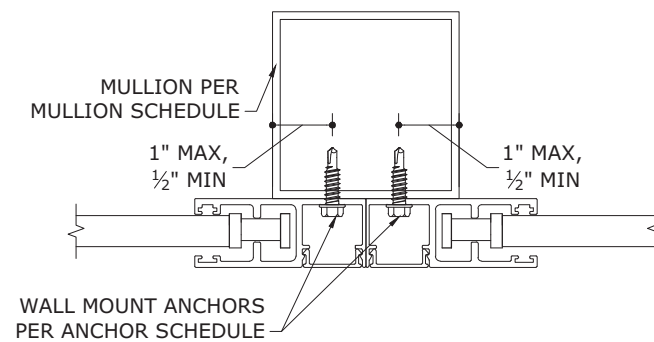
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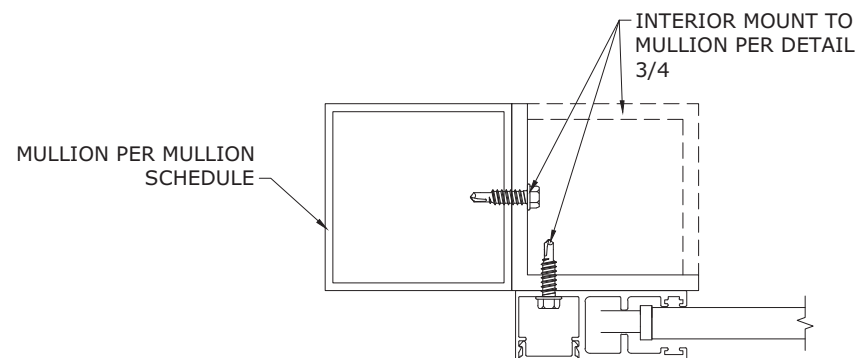
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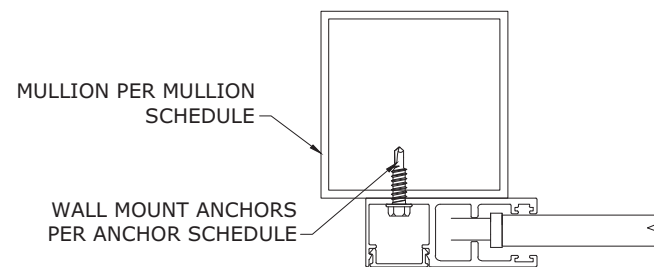
NOTE: MULLIONS PER MULLION SCHEDULES.



2
9 WALL MOUNT TO INTERMEDIATE MULLION
N.T.S. HORIZ SECTION



3
9 INTERIOR MOUNT TO END MULLION
N.T.S. HORIZ SECTION



4
9 WALL MOUNT TO END MULLION
N.T.S. HORIZ SECTION

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15



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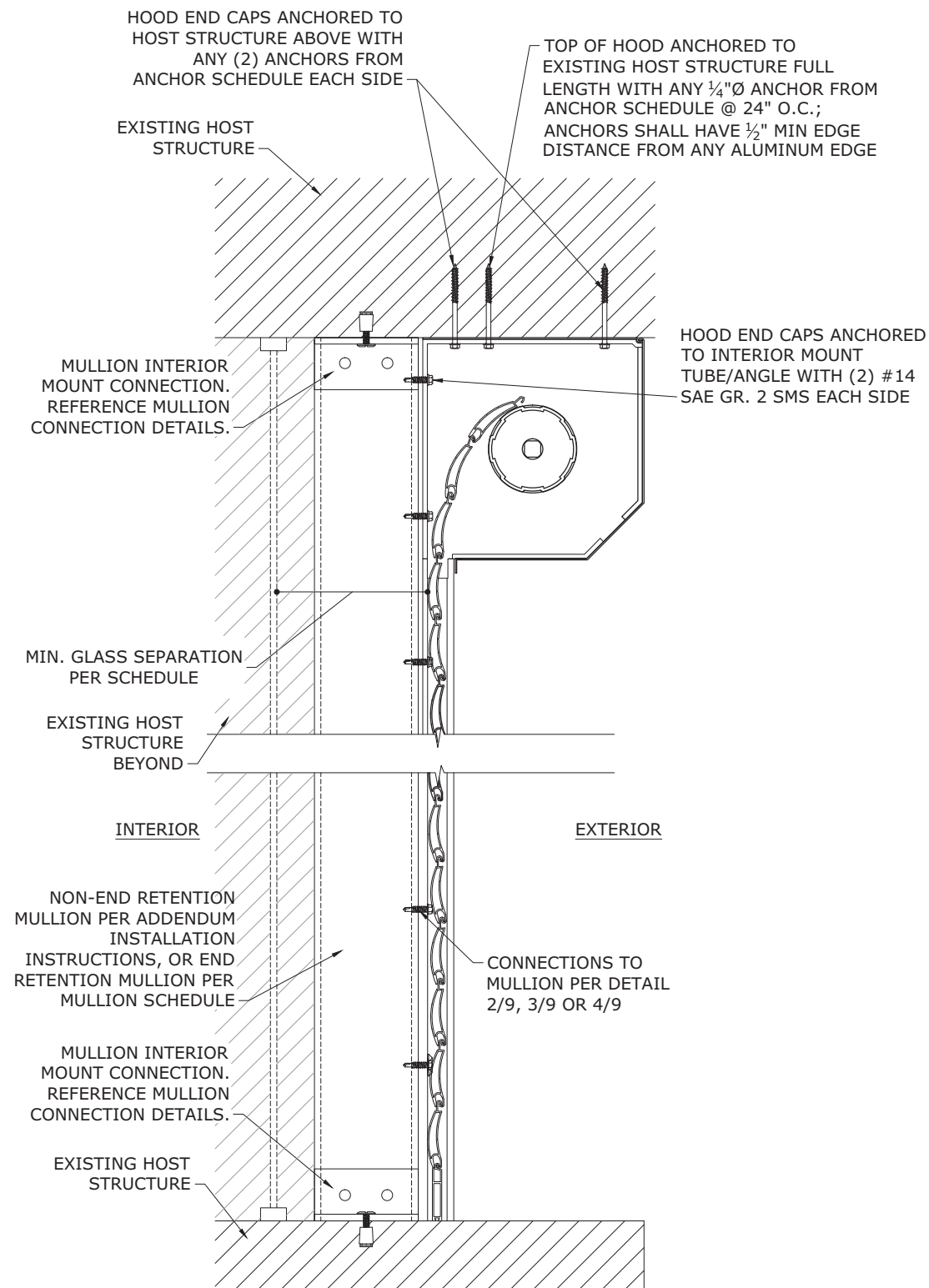
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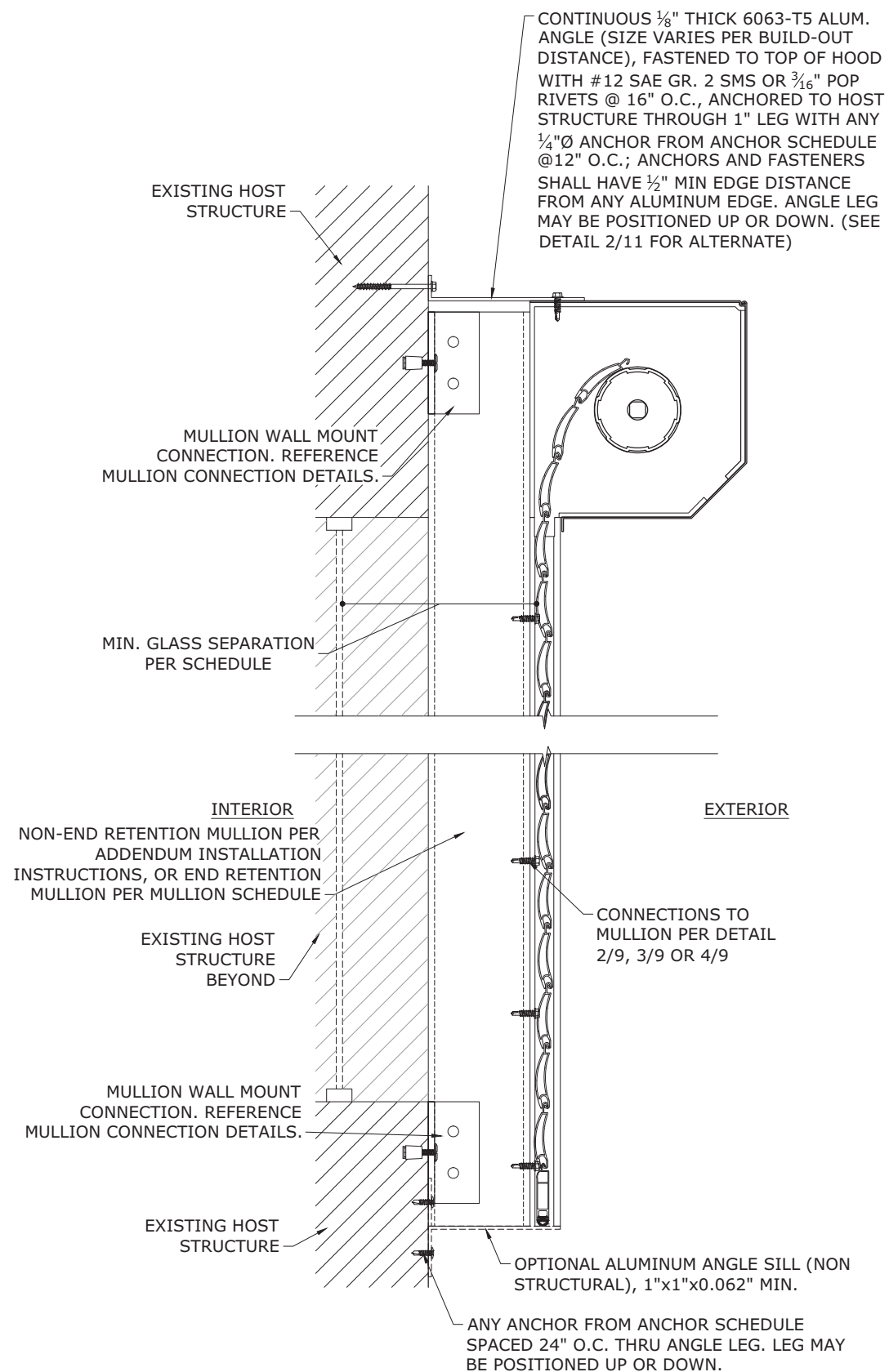
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10 OF 15



1 MULLION INTERIOR MOUNT
10 N.T.S. VERT SECTION

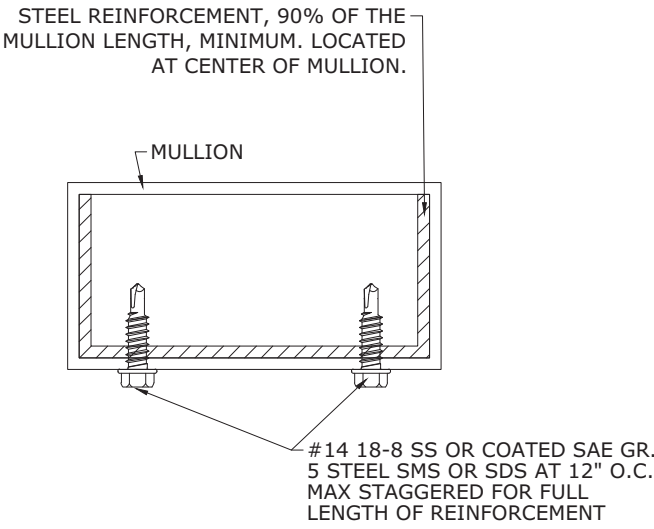


2 MULLION WALL MOUNT
10 N.T.S. VERT SECTION

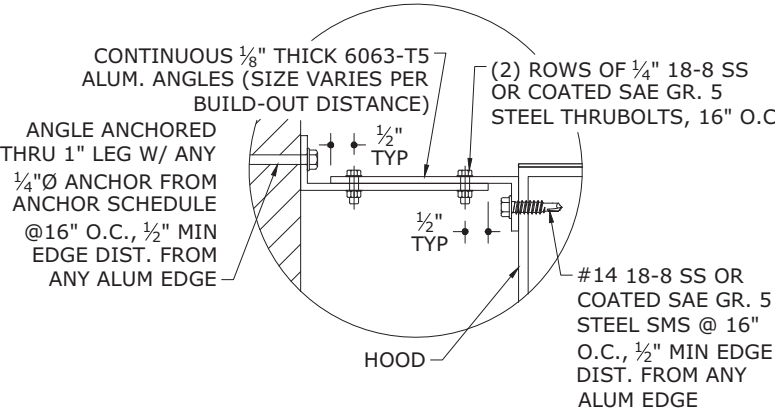
END RETENTION MULLION SCHEDULE: INTERMEDIATE MULLIONS

		3"x3"x0.125"		3"x3"x0.125" W/ 2.75"x2.75"x1/8" STEEL REINF.*		3"x3"x0.25"		4"x4"x0.125"		4"x4"x0.125" W/ 3.75"x3.75"x1/8" STEEL REINF.*		4"x4"x0.25"		4"x6"x0.25"		4"x8"x0.25"	
SLAT SPAN	DESIGN PRESSURE	MAX MULLION LENGTH	END REACTION Rt	MAX MULLION LENGTH	END REACTION Rt	MAX MULLION LENGTH	END REACTION Rt	MAX MULLION LENGTH	END REACTION Rt	MAX MULLION LENGTH	END REACTION Rt	MAX MULLION LENGTH	END REACTION Rt	MAX MULLION LENGTH	END REACTION Rt	MAX MULLION LENGTH	END REACTION Rt
62"	+/- 38 PSF	102.4"	826.6 LB	113.4"	915.2 LB	120.0"	968.8 LB	120.0"	968.8 LB	120.0"	968.8 LB	120.0"	968.8 LB	120.0"	968.8 LB	120.0"	968.8 LB
	+/- 42 PSF	98.5"	892.8 LB	109.1"	988.6 LB	118.2"	1071.0 LB	120.0"	1087.6 LB	120.0"	1087.6 LB	120.0"	1087.6 LB	120.0"	1087.6 LB	120.0"	1087.6 LB
	+/- 46 PSF	95.6"	847.2 LB	105.9"	1048.7 LB	114.7"	1136.2 LB	120.0"	1188.3 LB	120.0"	1188.3 LB	120.0"	1188.3 LB	120.0"	1188.3 LB	120.0"	1188.3 LB
	+/- 50 PSF	93.0"	1001.3 LB	103.0"	1108.6 LB	111.6"	1201.1 LB	120.0"	1291.7 LB	120.0"	1291.7 LB	120.0"	1291.7 LB	120.0"	1291.7 LB	120.0"	1291.7 LB
	+/- 56 PSF	89.4"	1085.0 LB	98.9"	1201.3 LB	107.2"	1301.6 LB	115.3"	1399.7 LB	120.0"	1457.0 LB	120.0"	1457.0 LB	120.0"	1457.0 LB	120.0"	1457.0 LB
	+/- 68 PSF	84.0"	1229.1 LB	93.0"	1360.9 LB	100.7"	1474.4 LB	108.3"	1585.6 LB	120.0"	1756.7 LB	120.0"	1756.7 LB	120.0"	1756.7 LB	120.0"	1756.7 LB
72"	+/- 76 PSF	80.9"	1323.7 LB	89.9"	1465.6 LB	97.1"	1587.9 LB	104.4"	1707.6 LB	120.0"	1963.3 LB	120.0"	1963.3 LB	120.0"	1963.3 LB	120.0"	1963.3 LB
	+/- 93 PSF	75.6"	1514.4 LB	83.8"	1676.7 LB	90.7"	1816.6 LB	97.6"	1953.6 LB	113.0"	2262.6 LB	117.4"	2351.0 LB	120.0"	2402.5 LB	120.0"	2402.5 LB
	+/- 42 PSF	93.7"	986.4 LB	103.8"	1092.2 LB	112.4"	1183.3 LB	120.0"	1263.0 LB	120.0"	1263.0 LB	120.0"	1263.0 LB	120.0"	1263.0 LB	120.0"	1263.0 LB
	+/- 46 PSF	91.0"	1046.4 LB	100.8"	1158.6 LB	109.2"	1255.3 LB	117.4"	1349.9 LB	120.0"	1380.0 LB	120.0"	1380.0 LB	120.0"	1380.0 LB	120.0"	1380.0 LB
	+/- 50 PSF	88.5"	1106.3 LB	98.0"	1224.9 LB	106.2"	1327.0 LB	114.2"	1427.1 LB	120.0"	1500.0 LB	120.0"	1500.0 LB	120.0"	1500.0 LB	120.0"	1500.0 LB
	+/- 56 PSF	85.0"	1198.8 LB	94.1"	1327.3 LB	102.0"	1438.0 LB	109.7"	1546.4 LB	120.0"	1692.0 LB	120.0"	1692.0 LB	120.0"	1692.0 LB	120.0"	1692.0 LB
84"	+/- 68 PSF	79.9"	1358.0 LB	88.4"	1503.5 LB	95.8"	1629.0 LB	103.0"	1751.8 LB	119.3"	2028.9 LB	120.0"	2040.0 LB	120.0"	2040.0 LB	120.0"	2040.0 LB
	+/- 76 PSF	77.0"	1462.5 LB	85.2"	1619.3 LB	92.3"	1754.3 LB	99.3"	1886.6 LB	115.0"	2185.1 LB	119.5"	2270.4 LB	120.0"	2280.0 LB	120.0"	2280.0 LB
	+/- 38 PSF	92.5"	1012.0 LB	102.4"	1120.5 LB	111.0"	1214.0 LB	119.4"	1305.6 LB	120.0"	1312.5 LB	120.0"	1312.5 LB	120.0"	1312.5 LB	120.0"	1312.5 LB
	+/- 42 PSF	89.0"	1093.2 LB	98.6"	1210.4 LB	106.8"	1311.4 LB	114.8"	1410.3 LB	120.0"	1473.5 LB	120.0"	1473.5 LB	120.0"	1473.5 LB	120.0"	1473.5 LB
	+/- 46 PSF	86.4"	1159.7 LB	95.7"	1284.0 LB	103.7"	1391.1 LB	111.5"	1496.1 LB	120.0"	1610.0 LB	120.0"	1610.0 LB	120.0"	1610.0 LB	120.0"	1610.0 LB
	+/- 50 PSF	84.1"	1226.0 LB	93.1"	1357.4 LB	100.8"	1470.7 LB	108.5"	1581.6 LB	120.0"	1750.0 LB	120.0"	1750.0 LB	120.0"	1750.0 LB	120.0"	1750.0 LB
96"	+/- 56 PSF	80.8"	1328.5 LB	89.4"	1470.9 LB	96.9"	1593.6 LB	104.2"	1713.8 LB	120.0"	1974.0 LB	120.0"	1974.0 LB	120.0"	1974.0 LB	120.0"	1974.0 LB
	+/- 68 PSF	75.9"	1504.9 LB	84.0"	1666.3 LB	91.0"	1805.3 LB	97.9"	1941.4 LB	113.4"	2248.5 LB	117.8"	2336.3 LB	120.0"	2380.0 LB	120.0"	2380.0 LB
	+/- 76 PSF	73.1"	1620.8 LB	81.0"	1794.5 LB	87.7"	1944.2 LB	94.3"	2090.8 LB	109.2"	2421.6 LB	113.5"	2516.1 LB	120.0"	2660.0 LB	120.0"	2660.0 LB
	+/- 38 PSF	88.5"	1106.3 LB	98.0"	1224.9 LB	106.2"	1327.0 LB	114.2"	1427.1 LB	120.0"	1500.0 LB	120.0"	1500.0 LB	120.0"	1500.0 LB	120.0"	1500.0 LB
	+/- 42 PSF	85.2"	1195.0 LB	94.3"	1323.1 LB	102.1"	1433.5 LB	109.8"	1541.6 LB	120.0"	1684.0 LB	120.0"	1684.0 LB	120.0"	1684.0 LB	120.0"	1684.0 LB
	+/- 46 PSF	82.7"	1267.7 LB	91.5"	1403.6 LB	99.2"	1520.7 LB	106.7"	1635.3 LB	120.0"	1840.0 LB	120.0"	1840.0 LB	120.0"	1840.0 LB	120.0"	1840.0 LB
108"	+/- 50 PSF	80.4"	1340.1 LB	89.0"	1483.8 LB	96.5"	1607.6 LB	103.7"	1728.8 LB	120.0"	2000.0 LB	120.0"	2000.0 LB	120.0"	2000.0 LB	120.0"	2000.0 LB
	+/- 56 PSF	77.2"	1452.2 LB	85.5"	1607.9 LB	92.7"	1742.0 LB	99.6"	1873.4 LB	115.4"	2169.7 LB	119.9"	2254.4 LB	120.0"	2256.0 LB	120.0"	2256.0 LB
	+/- 68 PSF	72.6"	1645.0 LB	80.4"	1821.4 LB	87.1"	1973.3 LB	93.6"	2122.2 LB	108.4"	2457.8 LB	112.7"	2553.8 LB	120.0"	2720.0 LB	120.0"	2720.0 LB
	+/- 38 PSF	85.1"	1196.6 LB	94.2"	1324.9 LB	102.1"	1435.4 LB	109.8"	1543.7 LB	120.0"	1687.5 LB	120.0"	1687.5 LB	120.0"	1687.5 LB	120.0"	1687.5 LB
	+/- 42 PSF	81.9"	1292.6 LB	90.7"	1431.2 LB	98.2"	1550.5 LB	105.6"	1667.5 LB	120.0"	1894.5 LB	120.0"	1894.5 LB	120.0"	1894.5 LB	120.0"	1894.5 LB
	+/- 46 PSF	79.5"	1371.2 LB	88.0"	1518.2 LB	95.4"	1644.9 LB	102.5"	1768.9 LB	118.8"	2048.7 LB	120.0"	2070.0 LB	120.0"	2070.0 LB	120.0"	2070.0 LB
120"	+/- 50 PSF	77.3"	1449.6 LB	85.6"	1605.0 LB	92.7"	1738.9 LB	99.7"	1870.0 LB	115.5"	2165.8 LB	120.0"	2250.0 LB	120.0"	2250.0 LB	120.0"	2250.0 LB
	+/- 56 PSF	74.3"	1570.8 LB	82.2"	1739.2 LB	89.1"	1884.3 LB	95.8"	2026.4 LB	111.0"	2346.9 LB	115.3"	2438.6 LB	120.0"	2538.0 LB	120.0"	2538.0 LB
	+/- 68 PSF	69.8"	1779.4 LB	77.3"	1970.2 LB	83.7"	2134.5 LB	90.0"	2295.5 LB	104.3"	2658.6 LB	108.3"	2762.4 LB	120.0"	3060.0 LB	120.0"	3060.0 LB
	+/- 38 PSF	82.2"	1283.7 LB	91.0"	1421.3 LB	98.6"	1539.9 LB	106.0"	1656.0 LB	120.0"	1875.0 LB	120.0"	1875.0 LB	120.0"	1875.0 LB	120.0"	1875.0 LB
	+/- 42 PSF	79.0"	1386.6 LB	87.5"	1535.3 LB	94.8"	1663.4 LB	102.0"	1788.8 LB	118.1"	2071.8 LB	120.0"	2105.0 LB	120.0"	2105.0 LB	120.0"	2105.0 LB
	+/- 46 PSF	76.7"	1471.0 LB	85.0"	1628.7 LB	92.1"	1764.6 LB	99.0"	1897.6 LB	114.7"	2197.8 LB	119.1"	2283.7 LB	120.0"	2300.0 LB	120.0"	2300.0 LB
132"	+/- 50 PSF	74.6"	1555.1 LB	82.6"	1721.8 LB	89.5"	1865.4 LB	96.3"	2006.1 LB	111.5"	2323.4 LB	115.9"	2414.2 LB	120.0"	2500.0 LB	120.0"	2500.0 LB
	+/- 56 PSF	71.7"	1685.1 LB	79.4"	1865.8 LB	86.0"	2021.4 LB	92.5"	2173.9 LB	107.1"	2517.7 LB	111.3"	2616.1 LB	120.0"	2820.0 LB	120.0"	2820.0 LB
	+/- 68 PSF	67.4"	1908.9 LB	74.6"	2113.5 LB	80.8"	2289.9 LB	86.9"	2462.5 LB	100.7"	2852.1 LB	104.6"	2963.5 LB	120.0"	3400.0 LB	120.0"	3400.0 LB
	+/- 38 PSF	79.6"	1367.9 LB	88.1"	1514.6 LB	95.5"	1640.9 LB	102.7"	1764.7 LB	118.9"	2043.8 LB	120.0"	2062.5 LB	120.0"	2062.5 LB	120.0"	2062.5 LB
	+/- 42 PSF	76.6"	1477.6 LB	84.8"	1636.0 LB	91.9"	1772.5 LB	98.8"	1906.2 LB	114.4"	2207.7 LB	118.9"	2293.9 LB	120.0"	2315.5 LB	120.0"	2315.5 LB
	+/- 46 PSF	74.3"	1567.5 LB	82.3"	1735.6 LB	89.2"	1880.3 LB	95.9"	2022.1 LB	111.1"	2342.0 LB	115.4"	2433.5 LB	120.0"	2530.0 LB	120.0"	2530.0 LB
147"	+/- 50 PSF	72.3"	1657.1 LB	80.1"	1834.8 LB	86.7"	1987.8 LB	93.3"	2137.7 LB	108.0"	2475.9 LB	112.3"	2572.6 LB	120.0"	2750.0 LB	120.0"	2750.0 LB
	+/- 56 PSF	69.5"	1795.7 LB	76.9"	1988.2 LB	83.3"	2154.0 LB	89.6"	2316.5 LB	103.8"	2682.9 LB	107.8"	2787.7 LB	120.0"	3102.0 LB	120.0"	3102.0 LB
	+/- 38 PSF	76.8"	1469.7 LB	85.0"	1627.2 LB	92.1"	1763.0 LB	99.1"	1895.9 LB	114.7"	2195.8 LB	119.2"	2281.6 LB	120.0"	2296.9 LB	120.0"	2296.9 LB
	+/- 42 PSF	73.5"	1605.4 LB	81.3"	1777.5 LB	88.1"	1925.8 LB	94.8"	2071.0 LB	109.8"	2398.6 LB	114.1"	2492.3 LB	120.0"	2622.2 LB	120.0"	2622.2 LB
	+/- 46 PSF	70.6"	1736.9 LB	78.2"	1923.1 LB	84.7"	2083.6 LB	91.1"	2240.7 LB	105.5"	2595.1 LB	109.6"	2696.5 LB	120.0"	2951.0 LB	120.0"	2951.0 LB
	+/- 50 PSF	68.0"	1871.9 LB	75.3"	2072.6 LB	81.6"	2245.5 LB	87.8"	2414.8 LB	101.7"	2796.8 LB	105.6"	2906.0 LB	120.0"	3301.6 LB	120.0"	3301.6 LB
	+/- 56 PSF	63.9"	2073.0 LB	71.3"	2312.2 LB	77.3"	2505.1 LB	83.0"	2690.4 LB	96.2"	3120.1 LB	100.0"	3242.0 LB	120.0"	3890.5 LB	120.0"	3890.5 LB

***NOTE:** STEEL REINFORCEMENT LENGTH SHALL BE A MINIMUM OF 90% THE MULLION LENGTH, LOCATED AT THE CENTER OF THE MULLION AND FASTENED IN PLACE WITH #14 18-8 SS OR COATED SAE GR. 5 STAINLESS STEEL SMS OR SDS AT 12" O.C. MAX STAGGERED ALONG THE FULL REINFORCEMENT LENGTH. (REFERENCE STEEL REINFORCEMENT DETAIL 1/11)



1
11
TYPICAL REINFORCEMENT
SECTION
N.T.S.



2
11
ALTERNATE BUILD-OUT HOOD CONNECTION
SECTION
N.T.S.

END RETENTION MULLION SCHEDULE NOTES:

- PRESSURES SHOWN IN "END RETENTION MULLION SCHEDULE" ARE MAXIMUM ALLOWABLE MULLION LENGTHS AT EACH RESPECTIVE SLAT SPAN AND DESIGN PRESSURE.
- "END RETENTION MULLION SCHEDULES" ARE APPLICABLE TO ALL END RETENTION MULLIONS.
- "INTERMEDIATE MULLIONS" ARE AS DEFINED IN ELEVATION 1/9.
- SEE BILL OF MATERIALS FOR MULLION AND REINFORCEMENT MATERIALS.
- ALLOWABLE DESIGN PRESSURES AND SLAT SPANS INDICATED ARE FOR DETERMINING PERMISSIBLE MULLION LENGTHS ONLY. ACTUAL SLAT SPANS AND DESIGN PRESSURES SHALL NOT EXCEED THOSE INDICATED IN SPAN SCHEDULES.
- "END REACTIONS" ARE LISTED FOR EACH COMBINATION OF DESIGN LOAD, MULLION TYPE, & SLAT SPAN. CHOOSE MOUNTING CONNECTIONS (PER APPLICABLE CONNECTION DETAILS HEREIN) THAT PROVIDES "CONNECTION CAPACITY" GREATER THAN OR EQUAL TO "END REACTIONS" GIVEN ABOVE.
- THIS SCHEDULE MAY BE USED FOR ALL MOUNTING CONDITIONS LISTED HEREIN.
-  DENOTES CONDITIONS NOT APPROVED FOR USE.

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REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	4/25/14
REV FOR TDI	RWN	TSB	6/04/14
2014 FBC	RWN	CSL	4/08/15
2017 FBC	RWN	FLB	8/07/17
2020 FBC	CCB	RWN	6/30/20

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SCALE: - -

PAGE DESCRIPTION:

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END RETENTION MULLION SCHEDULE: END MULLIONS

		3"x3"x0.125" W/ 2.75"x2.75"x1/8" STEEL REINF.*				3"x3"x0.25"				4"x4"x0.125" W/ 3.75"x3.75"x1/8" STEEL REINF.*				4"x4"x0.25"				4"x6"x0.25"				4"x8"x0.25"			
SLAT SPAN	DESIGN PRESSURE	MAX MULLION LENGTH	END REACTION Rv	END REACTION Rt	END REACTION Rsum	MAX MULLION LENGTH	END REACTION Rv	END REACTION Rt	END REACTION Rsum	MAX MULLION LENGTH	END REACTION Rv	END REACTION Rt	END REACTION Rsum	MAX MULLION LENGTH	END REACTION Rv	END REACTION Rt	END REACTION Rsum	MAX MULLION LENGTH	END REACTION Rv	END REACTION Rt	END REACTION Rsum	MAX MULLION LENGTH	END REACTION Rv	END REACTION Rt	END REACTION Rsum
62"	+/- 38 PSF	120.0"	0.0 LB	484.4 LB	484.4 LB	120.0"	0.0 LB	484.4 LB	484.4 LB	120.0"	0.0 LB	484.4 LB	484.4 LB	120.0"	0.0 LB	484.4 LB	484.4 LB	120.0"	0.0 LB	484.4 LB	484.4 LB	120.0"	0.0 LB	484.4 LB	484.4 LB
	+/- 42 PSF	120.0"	133.1 LB	543.8 LB	559.8 LB	120.0"	133.1 LB	543.8 LB	559.8 LB	120.0"	133.1 LB	543.8 LB	559.8 LB	120.0"	133.1 LB	543.8 LB	559.8 LB	120.0"	133.1 LB	543.8 LB	559.8 LB	120.0"	133.1 LB	543.8 LB	559.8 LB
	+/- 46 PSF	120.0"	293.6 LB	594.2 LB	662.8 LB	120.0"	293.6 LB	594.2 LB	662.8 LB	120.0"	293.6 LB	594.2 LB	662.8 LB	120.0"	293.6 LB	594.2 LB	662.8 LB	120.0"	293.6 LB	594.2 LB	662.8 LB	120.0"	293.6 LB	594.2 LB	662.8 LB
	+/- 50 PSF	117.2"	447.7 LB	630.8 LB	773.5 LB	120.0"	458.3 LB	645.8 LB	791.9 LB	120.0"	458.3 LB	645.8 LB	791.9 LB	120.0"	458.3 LB	645.8 LB	791.9 LB	120.0"	458.3 LB	645.8 LB	791.9 LB	120.0"	458.3 LB	645.8 LB	791.9 LB
	+/- 56 PSF	109.4"	658.2 LB	664.1 LB	935.0 LB	120.0"	722.0 LB	728.5 LB	1025.7 LB	120.0"	722.0 LB	728.5 LB	1025.7 LB	120.0"	722.0 LB	728.5 LB	1025.7 LB	120.0"	722.0 LB	728.5 LB	1025.7 LB	120.0"	722.0 LB	728.5 LB	1025.7 LB
	+/- 68 PSF	92.1"	920.8 LB	673.8 LB	1141.0 LB	120.0"	1200.3 LB	878.3 LB	1487.4 LB	120.0"	1200.3 LB	878.3 LB	1487.4 LB	120.0"	1200.3 LB	878.3 LB	1487.4 LB	120.0"	1200.3 LB	878.3 LB	1487.4 LB	120.0"	1200.3 LB	878.3 LB	1487.4 LB
	+/- 76 PSF	84.0"	1071.2 LB	687.0 LB	1272.6 LB	110.8"	1413.0 LB	906.3 LB	1678.7 LB	120.0"	1530.6 LB	981.7 LB	1818.3 LB	120.0"	1530.6 LB	981.7 LB	1818.3 LB	120.0"	1530.6 LB	981.7 LB	1818.3 LB	120.0"	1530.6 LB	981.7 LB	1818.3 LB
72"	+/- 93 PSF	72.1"	1341.9 LB	721.8 LB	1523.7 LB	94.8"	1764.3 LB	949.0 LB	2003.3 LB	104.5"	1943.8 LB	1045.6 LB	2207.2 LB	120.0"	2233.2 LB	1201.3 LB	2535.8 LB	120.0"	2233.2 LB	1201.3 LB	2535.8 LB	120.0"	2233.2 LB	1201.3 LB	2535.8 LB
	+/- 42 PSF	104.7"	860.1 LB	550.8 LB	1021.3 LB	120.0"	986.1 LB	631.5 LB	1171.0 LB	120.0"	986.1 LB	631.5 LB	1171.0 LB	120.0"	986.1 LB	631.5 LB	1171.0 LB	120.0"	986.1 LB	631.5 LB	1171.0 LB	120.0"	986.1 LB	631.5 LB	1171.0 LB
	+/- 46 PSF	97.3"	964.1 LB	559.6 LB	1114.8 LB	120.0"	1188.7 LB	690.0 LB	1374.5 LB	120.0"	1188.7 LB	690.0 LB	1374.5 LB	120.0"	1188.7 LB	690.0 LB	1374.5 LB	120.0"	1188.7 LB	690.0 LB	1374.5 LB	120.0"	1188.7 LB	690.0 LB	1374.5 LB
	+/- 50 PSF	91.2"	1061.6 LB	570.0 LB	1204.9 LB	119.9"	1395.7 LB	749.5 LB	1584.2 LB	120.0"	1396.7 LB	750.0 LB	1585.4 LB	120.0"	1396.7 LB	750.0 LB	1585.4 LB	120.0"	1396.7 LB	750.0 LB	1585.4 LB	120.0"	1396.7 LB	750.0 LB	1585.4 LB
	+/- 56 PSF	83.4"	1202.7 LB	588.1 LB	1338.8 LB	109.5"	1578.7 LB	772.0 LB	1757.3 LB	116.2"	1675.1 LB	819.1 LB	1864.7 LB	120.0"	1730.1 LB	846.0 LB	1925.9 LB	120.0"	1730.1 LB	846.0 LB	1925.9 LB	120.0"	1730.1 LB	846.0 LB	1925.9 LB
	+/- 68 PSF	73.3"	1426.1 LB	622.7 LB	1556.1 LB	96.0"	1868.1 LB	815.7 LB	2038.4 LB	105.1"	2046.3 LB	893.6 LB	2232.9 LB	119.4"	2324.8 LB	1015.2 LB	2536.8 LB	120.0"	2335.8 LB	1020.0 LB	2548.8 LB	120.0"	2335.8 LB	1020.0 LB	2548.8 LB
	+/- 76 PSF	68.1"	1562.8 LB	646.7 LB	1691.3 LB	89.1"	2045.3 LB	846.4 LB	2213.5 LB	97.7"	2242.9 LB	928.2 LB	2427.4 LB	113.0"	2595.0 LB	1073.9 LB	2808.4 LB	120.0"	2754.7 LB	1140.0 LB	2981.3 LB	120.0"	2754.7 LB	1140.0 LB	2981.3 LB
84"	+/- 38 PSF	90.1"	1175.3 LB	492.9 LB	1274.5 LB	118.0"	1538.5 LB	645.2 LB	1668.3 LB	120.0"	1564.9 LB	656.3 LB	1697.0 LB	120.0"	1564.9 LB	656.3 LB	1697.0 LB	120.0"	1564.9 LB	656.3 LB	1697.0 LB	120.0"	1564.9 LB	656.3 LB	1697.0 LB
	+/- 42 PSF	83.4"	1295.1 LB	512.0 LB	1392.6 LB	109.0"	1693.7 LB	669.5 LB	1821.3 LB	113.3"	1760.4 LB	695.9 LB	1892.9 LB	120.0"	1863.8 LB	736.8 LB	2004.1 LB	120.0"	1863.8 LB	736.8 LB	2004.1 LB	120.0"	1863.8 LB	736.8 LB	2004.1 LB
	+/- 46 PSF	78.7"	1388.9 LB	528.1 LB	1485.9 LB	102.9"	1815.2 LB	690.2 LB	1942.0 LB	108.6"	1916.5 LB	728.7 LB	2050.3 LB	120.0"	2117.1 LB	805.0 LB	2265.0 LB	120.0"	2117.1 LB	805.0 LB	2265.0 LB	120.0"	2117.1 LB	805.0 LB	2265.0 LB
	+/- 50 PSF	74.7"	1479.0 LB	544.5 LB	1576.0 LB	97.5"	1931.9 LB	711.2 LB	2058.7 LB	104.5"	2070.1 LB	762.1 LB	2206.0 LB	118.7"	2351.9 LB	865.8 LB	2506.2 LB	120.0"	2376.8 LB	875.0 LB	2532.7 LB	120.0"	2376.8 LB	875.0 LB	2532.7 LB
	+/- 56 PSF	69.3"	1612.9 LB	570.1 LB	1710.7 LB	90.5"	2105.5 LB	744.3 LB	2233.1 LB	99.0"	2303.0 LB	814.1 LB	2442.6 LB	112.5"	2618.4 LB	925.6 LB	2777.2 LB	120.0"	2792.1 LB	987.0 LB	2961.4 LB	120.0"	2792.1 LB	987.0 LB	2961.4 LB
	+/- 68 PSF	62.0"	1830.9 LB	614.7 LB	1931.4 LB	80.9"	2388.2 LB	801.8 LB	2519.2 LB	88.4"	2610.1 LB	876.4 LB	2753.3 LB	103.9"	3069.8 LB	1030.7 LB	3238.2 LB	111.3"	3288.0 LB	1103.9 LB	3468.4 LB	117.8"	3480.5 LB	1168.6 LB	3671.5 LB
	+/- 76 PSF	58.1"	1967.3 LB	644.1 LB	2070.1 LB	75.8"	2565.1 LB	839.8 LB	2699.0 LB	82.8"	2802.3 LB	917.4 LB	2948.7 LB	98.7"	3340.3 LB	1093.6 LB	3514.7 LB	106.4"	3601.2 LB	1179.0 LB	3789.2 LB	112.6"	3812.1 LB	1248.0 LB	4011.1 LB
96"	+/- 38 PSF	77.2"	1485.0 LB	482.3 LB	1561.3 LB	100.6"	1936.0 LB	628.7 LB	2035.5 LB	105.5"	2030.9 LB	659.5 LB	2135.3 LB	119.9"	2307.3 LB	749.3 LB	2425.9 LB	120.0"	2309.5 LB	750.0 LB	2428.2 LB	120.0"	2309.5 LB	750.0 LB	2428.2 LB
	+/- 42 PSF	72.0"	1604.6 LB	505.3 LB	1682.3 LB	93.8"	2090.9 LB	658.5 LB	2192.2 LB	100.5"	2239.1 LB	705.2 LB	2347.5 LB	114.2"	2543.8 LB	801.1 LB	2667.0 LB	120.0"	2673.6 LB	842.0 LB	2803.1 LB	120.0"	2673.6 LB	842.0 LB	2803.1 LB
	+/- 46 PSF	68.4"	1699.4 LB	524.3 LB	1778.4 LB	89.1"	2213.8 LB	683.0 LB	2316.8 LB	96.9"	2408.2 LB	742.9 LB	2520.2 LB	110.1"	2735.9 LB	844.0 LB	2863.1 LB	117.9"	2930.4 LB	904.0 LB	3066.7 LB	120.0"	2982.1 LB	920.0 LB	3120.8 LB
	+/- 50 PSF	65.2"	1791.4 LB	543.1 LB	1871.9 LB	84.9"	2333.0 LB	707.4 LB	2437.9 LB	92.6"	2545.9 LB	771.9 LB	2660.4 LB	106.5"	2926.0 LB	887.1 LB	3057.5 LB	114.0"	3134.0 LB	950.2 LB	3274.9 LB	120.0"	3298.2 LB	1000.0 LB	3446.5 LB
	+/- 56 PSF	60.9"	1929.3 LB	572.2 LB	2012.4 LB	79.3"	2511.9 LB	745.0 LB	2620.0 LB	86.5"	2740.2 LB	812.7 LB	2858.2 LB	101.5"	3217.6 LB	954.3 LB	3356.1 LB	108.7"	3446.3 LB	1022.1 LB	3594.7 LB	115.1"	3648.2 LB	1082.0 LB	3805.2 LB
	+/- 68 PSF	54.9"	2156.6 LB	621.7 LB	2244.4 LB	71.4"	2806.5 LB	809.1 LB	2920.8 LB	77.9"	3060.4 LB	882.3 LB	3185.1 LB	92.9"	3651.4 LB	1052.7 LB	3800.1 LB	101.2"	3978.3 LB	1147.0 LB	4140.4 LB	107.1"	4211.3 LB	1214.1 LB	4382.8 LB
	+/- 76 PSF	50.1"	2344.6 LB	673.8 LB	2478.4 LB	66.1"	3174.2 LB	871.5 LB	3299.9 LB	73.3"	3452.9 LB	937.5 LB	3583.0 LB	85.1"	4124.5 LB	1000.3 LB	4244.1 LB	94.4"	4573.1 LB	1109.1 LB	4705.7 LB	99.9"	4840.9 LB	1174.1 LB	4981.2 LB
108"	+/- 38 PSF	68.8"	1734.7 LB	483.6 LB	1800.9 LB	89.5"	2256.5 LB	629.1 LB	2342.6 LB	96.4"	2431.9 LB	678.0 LB	2524.7 LB	109.6"	2762.9 LB	770.3 LB	2868.3 LB	117.3"	2959.3 LB	825.1 LB	3072.2 LB	120.0"	3026.4 LB	843.8 LB	3141.8 LB
	+/- 42 PSF	64.5"	1859.3 LB	508.9 LB	1927.7 LB	83.8"	2417.9 LB	661.8 LB	2506.8 LB	91.4"	2634.7 LB	721.2 LB	2731.7 LB	104.8"	3021.3 LB	827.0 LB	3132.4 LB	112.2"	3236.1 LB	885.8 LB	3355.1 LB	118.8"	3425.6 LB	937.6 LB	3551.6 LB
	+/- 46 PSF	61.4"	1958.6 LB	529.5 LB	2028.9 LB	79.8"	2546.6 LB	688.4 LB	2638.0 LB	87.0"	2774.5 LB	750.1 LB	2874.1 LB	101.3"	3231.8 LB	873.7 LB	3347.8 LB	108.5"	3461.5 LB	935.8 LB	358				

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REMARKS	DRWN	CHKD	DATE
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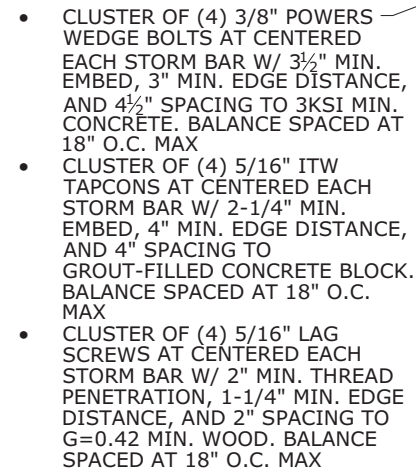
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PAGE DESCRIPTION:

OF 15

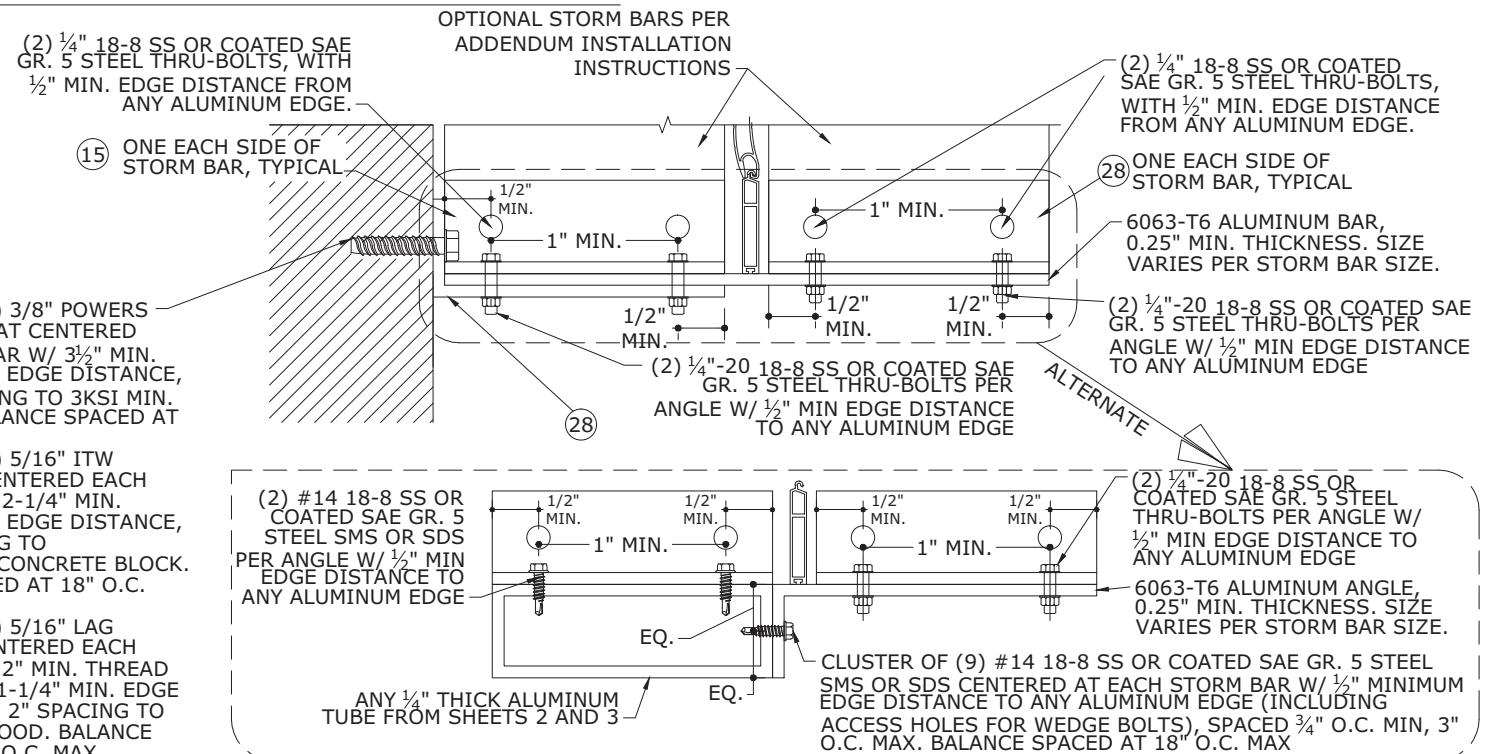
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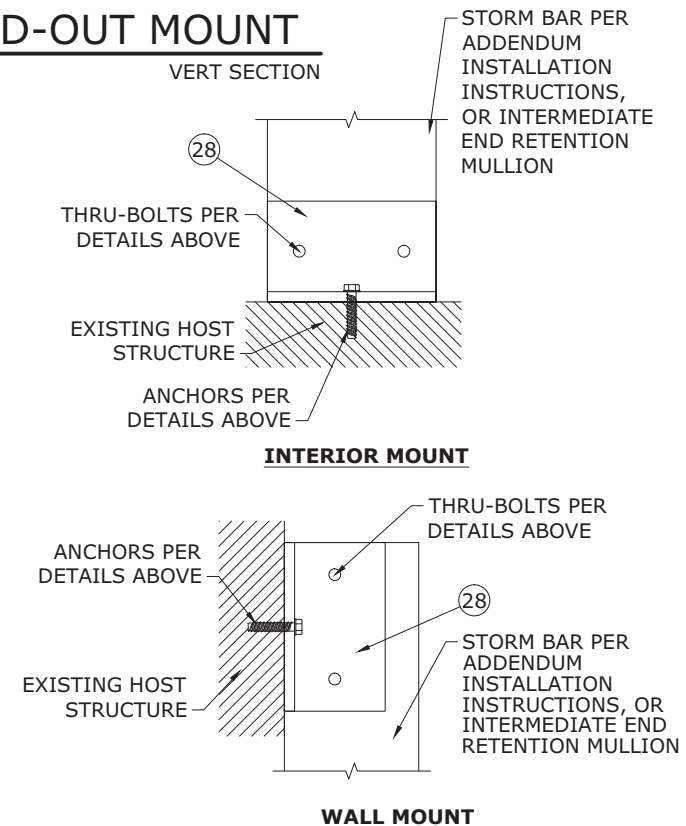
2	INTERIOR OR WALL MOUNT
13	N.T.S.

1. ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS' RECOMMENDATIONS.
2. MINIMUM EMBEDMENT SHALL BE AS NOTED IN ANCHOR SCHEDULE. MINIMUM EMBEDMENT AND EDGE DISTANCE EXCLUDES STUCCO, FOAM, BRICK, AND OTHER WALL FINISHES.
3. ANCHOR SCHEDULE APPLIES TO ALL PRODUCTS CERTIFIED HEREIN.
4. WHERE EXISTING STRUCTURE IS WOOD FRAMING, EXISTING CONDITIONS MAY VARY. FIELD VERIFY THAT FASTENERS ARE INTO ADEQUATE WOOD FRAMING MEMBERS, NOT INTO PLYWOOD.
5. MACHINE SCREWS SHALL HAVE MINIMUM OF 5/8" ENGAGEMENT OF THREADS IN BASE ANCHOR AND MAY HAVE EITHER A PAN HEAD, TRUSS HEAD, OR WAFER HEAD ("SIDEWALK BOLT") U.N.O.
6. * ANCHOR SHALL PENETRATE THROUGH FACE SHELL INTO GROUTED CELL.

ANCHOR TYPE	MINIMUM SPACING	MINIMUM EDGE DISTANCE	CONNECTION DETAIL	MOUNTING CONDITION	CONNECTION CAPACITY
3/8" DEWALT SCREW BOLTS W/ 3-1/2" EMBED TO 3KSI MIN. CONCRETE	4.5"	4.5"	1/13	WALL MOUNT	4332 LB
				INTERIOR MOUNT	3065 LB
			2/13	WALL MOUNT	8820 LB
				INTERIOR MOUNT	6130 LB
3/8" DEWALT STEEL DROPIN W/ 1-9/16" EMBED TO 3KSI MIN. CONCRETE	4.5"	5.25"	1/13	WALL MOUNT	1590 LB
				INTERIOR MOUNT	2290 LB
			2/13	WALL MOUNT	3180 LB
				INTERIOR MOUNT	4580 LB
3/8" DEWALT SCREW BOLTS W/ 3-1/2" EMBED TO GROUT-FILLED CONCRETE BLOCK*	6.0"	12.0"	1/13	WALL MOUNT	2580 LB
				INTERIOR MOUNT	2200 LB
			2/13	WALL MOUNT	5160 LB
				INTERIOR MOUNT	4400 LB
5/16" ITW TAPCON XL OR DEWALT ULTRACON W/ 2-1/4" MIN. EMBED TO 3.5KSI MIN. CONCRETE	5.0"	3.125"	1/13	WALL MOUNT	1576 LB
				INTERIOR MOUNT	1702 LB
			2/13	WALL MOUNT	3152 LB
				INTERIOR MOUNT	3404 LB
5/16" ITW TAPCON XL OR DEWALT ULTRACON W/ 2-1/4" MIN. EMBED TO GROUT-FILLED CONCRETE BLOCK	5.0"	3.125"	1/13	WALL MOUNT	584 LB
				INTERIOR MOUNT	744 LB
			2/13	WALL MOUNT	1168 LB
				INTERIOR MOUNT	1488 LB
5/16" LAG SCREW W/ 2" MIN. THREAD PENETRATION TO G=0.42 MIN WOOD	2.0"	1.25"	1/13	WALL MOUNT	1310 LB
				INTERIOR MOUNT	302 LB
			2/13	WALL MOUNT	2620 LB
				INTERIOR MOUNT	604 LB

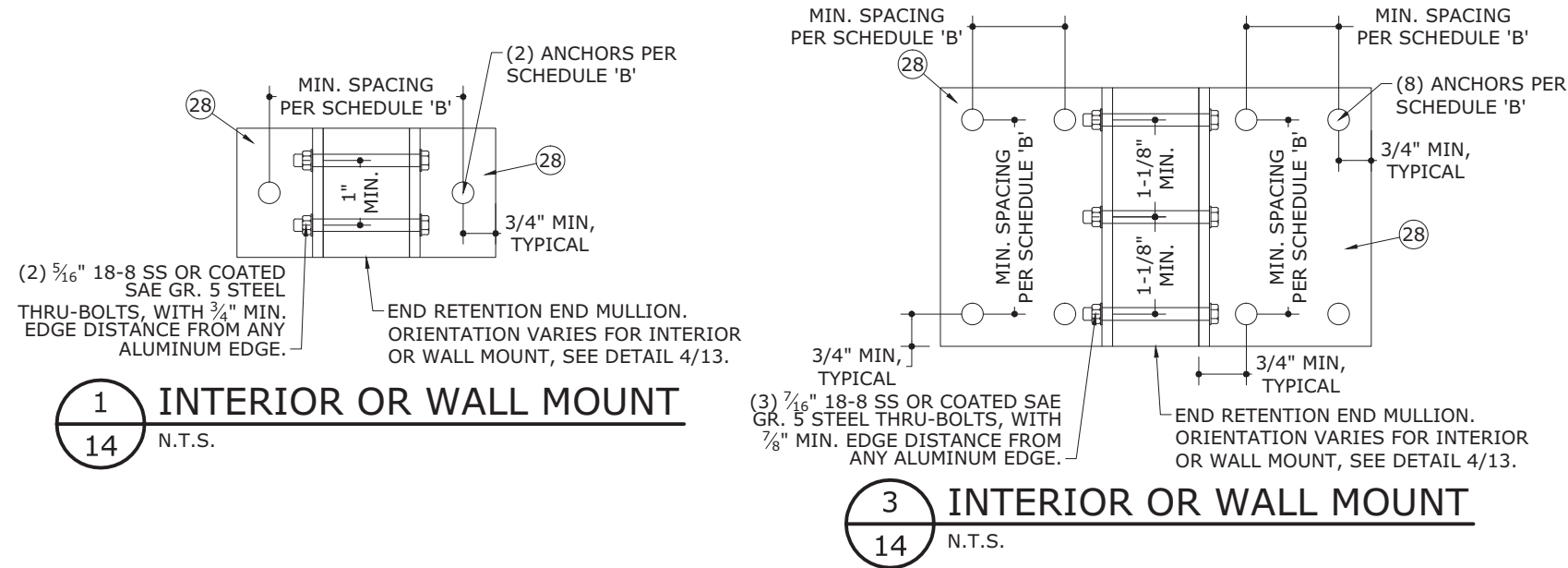


3 STORM BAR BUILD-OUT MOUNT
13 N.T.S. VERT SECTION



4 MOUNTING CONDITIONS

END RETENTION END MULLION CONNECTION DETAILS



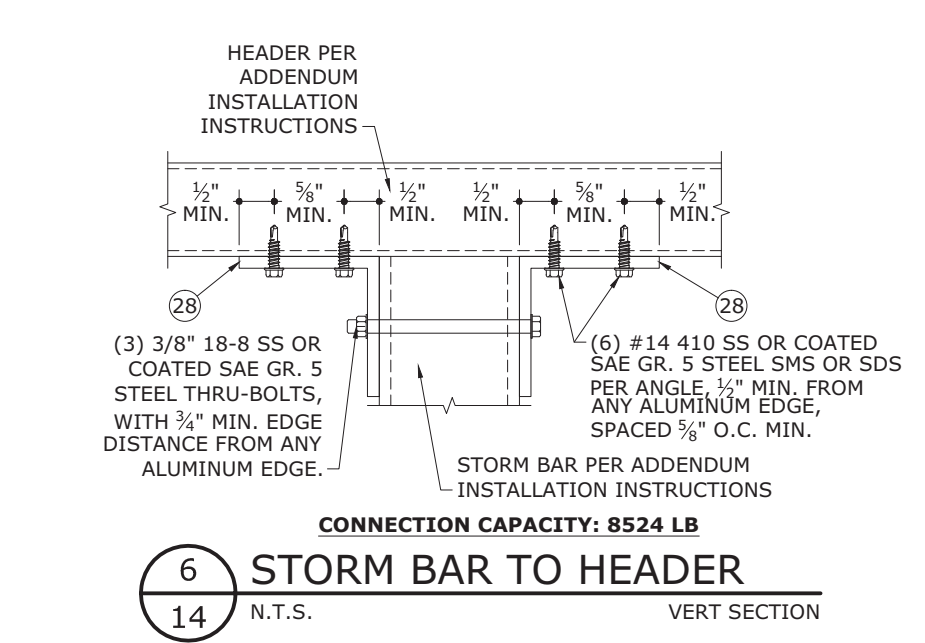
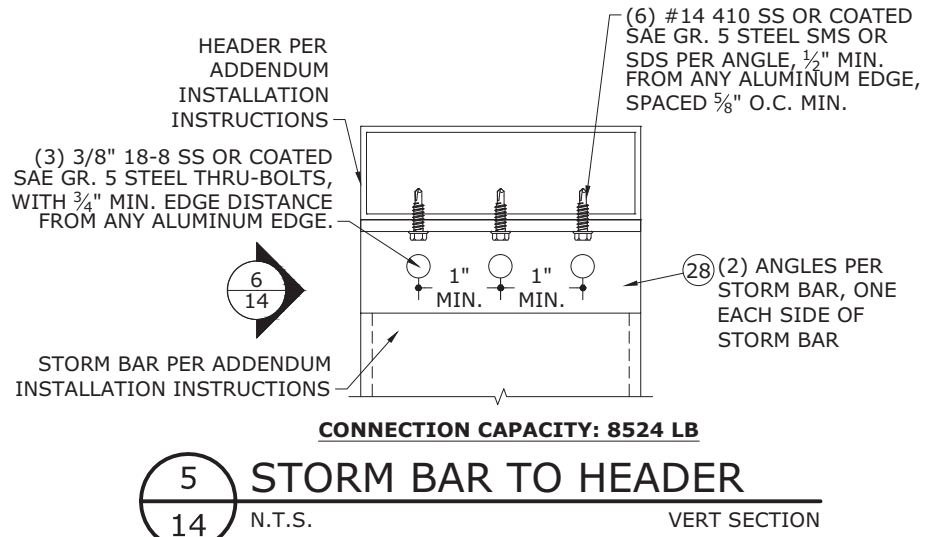
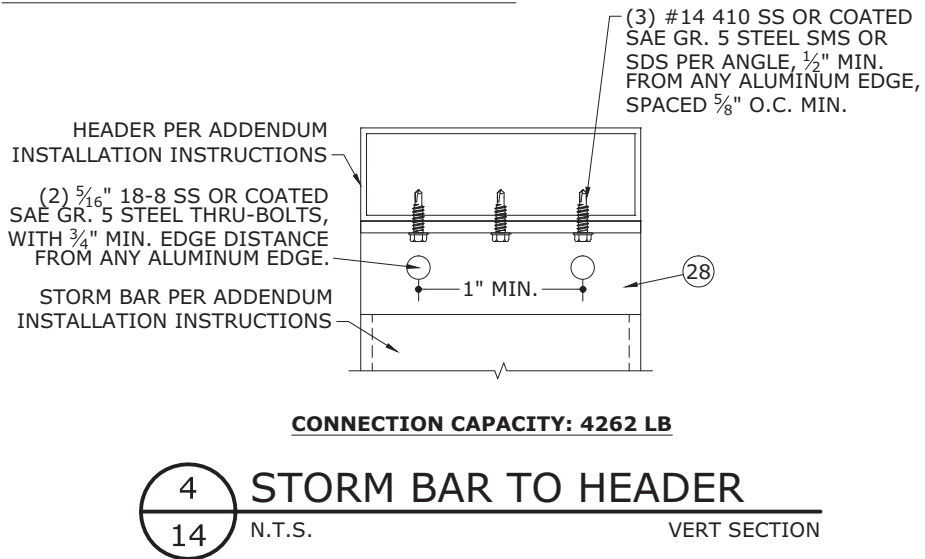
SCHEDULE 'B'

ANCHOR TYPE	MINIMUM SPACING	MINIMUM EDGE DISTANCE	CONNECTION DETAIL	CONNECTION CAPACITY	
3/8" DEWALT SCREW BOLTS W/ 3-1/2" EMBED TO 3KSI MIN. CONCRETE	4.5"	4.5"	1/14	Tcap	4332 LB
			2/14	Vcap	3065 LB
	2.5"	4.5"	3/14	Tcap	8820 LB
			2/14	Vcap	6130 LB
3/8" DEWALT STEEL DROPIN W/ 1-9/16" EMBED TO 3KSI MIN. CONCRETE	4.5"	5.25"	1/14	Tcap	11819 LB
			2/14	Vcap	10176 LB
	2.5"	5.25"	3/14	Tcap	1590 LB
			2/14	Vcap	2290 LB
3/8" DEWALT SCREW BOLTS W/ 3-1/2" EMBED TO GROUT-FILLED CONCRETE BLOCK*	6.0"	12.0"	1/14	Tcap	3180 LB
			2/14	Vcap	4580 LB
	5.0"	3.125"	3/14	Tcap	3689 LB
			2/14	Vcap	5313 LB
5/16" ITW TAPCON XL OR DEWALT ULTRA CON W/ 2-1/4" MIN. EMBED TO 3.5KSI MIN. CONCRETE	6.0"	12.0"	1/14	Tcap	2580 LB
			2/14	Vcap	2200 LB
	5.0"	3.125"	3/14	Tcap	5160 LB
			2/14	Vcap	4400 LB
5/16" ITW TAPCON XL OR DEWALT ULTRA CON W/ 2-1/4" MIN. EMBED TO GROUT-FILLED CONCRETE BLOCK	5.0"	3.125"	1/14	Tcap	1576 LB
			2/14	Vcap	1702 LB
	5.0"	3.125"	3/14	Tcap	3152 LB
			2/14	Vcap	3404 LB
5/16" LAG SCREW W/ 2" MIN. THREAD PENETRATION TO G=0.42 MIN WOOD	5.0"	3.125"	1/14	Tcap	584 LB
			2/14	Vcap	744 LB
	2.0"	1.25"	3/14	Tcap	1488 LB
			2/14	Vcap	1310 LB
	2.0"	1.25"	1/14	Tcap	302 LB
			2/14	Vcap	2620 LB
	2.0"	1.25"	3/14	Tcap	604 LB
			2/14	Vcap	604 LB

SCHEDULE 'B' NOTES:

- FOR INTERIOR MOUNT CONDITIONS WITH END RETENTION END MULLIONS, 'Rsum' VALUES IN MULLION SCHEDULE SHALL NOT EXCEED MAX 'Vcap' VALUES NOTED IN SCHEDULE 'B'.
- FOR WALL MOUNT CONDITIONS WITH END RETENTION END MULLIONS, **Rv/Vcap + Rt/Tcap SHALL BE LESS THAN OR EQUAL TO 1.0**, WHERE 'Rv' AND 'Rt' ARE PER MULLION SCHEDULES, AND 'Tcap' AND 'Vcap' ARE PER SCHEDULE 'B'.
- * ANCHOR SHALL PENETRATE THROUGH FACE SHELL INTO GROUTED CELL.

STORM BAR TO HEADER CONNECTION DETAILS



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DRWN	CHKD	DATE
KL	FLB	4/25/14
REV	FOR TDI	6/04/14
2014 FBC	RWN	CSL
2017 FBC	RWN	FLB
2020 FBC	CCB	RWN

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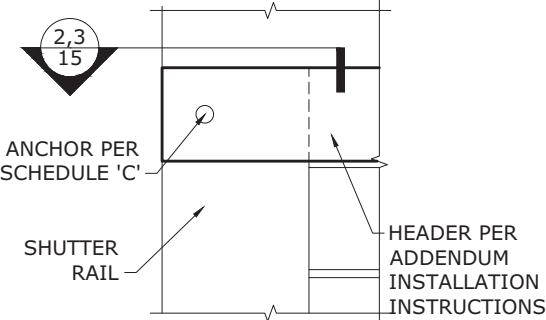
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HEADER CONNECTION DETAILS



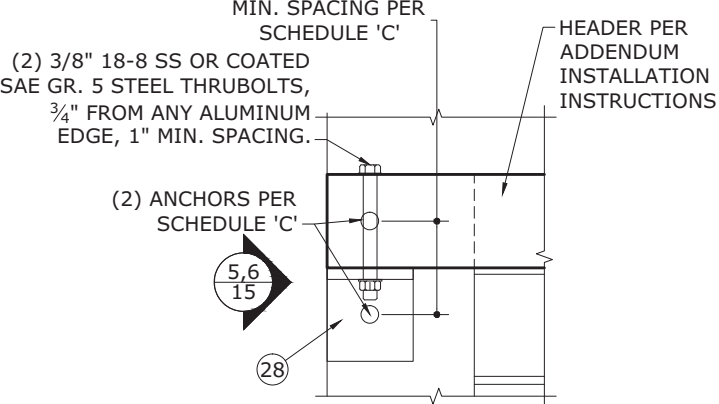
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BUILD-OUT & WALL MOUNT

N.T.S.

ELEV



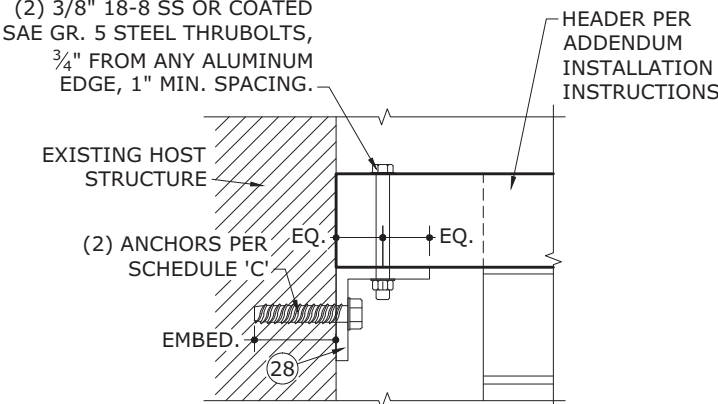
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BUILD-OUT & WALL MOUNT

N.T.S.

ELEV



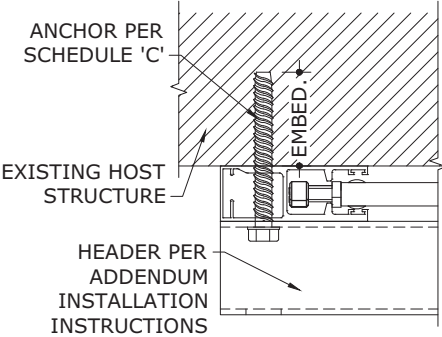
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INTERIOR MOUNT

N.T.S.

ELEV



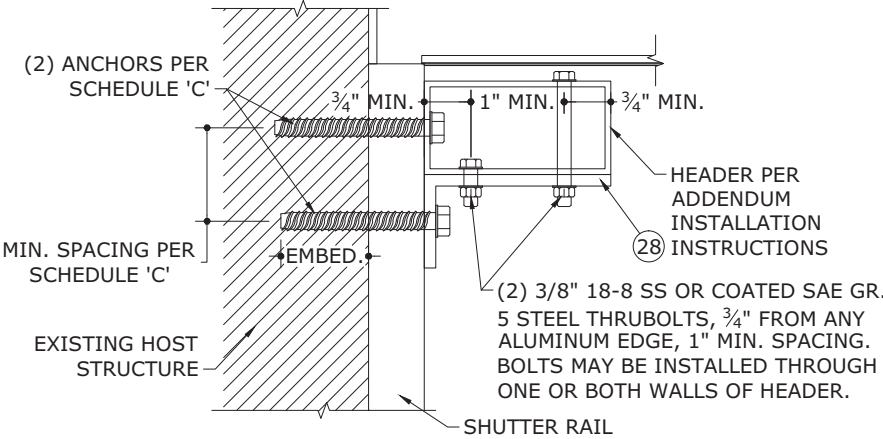
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WALL MOUNT

N.T.S.

HORIZ SECTION



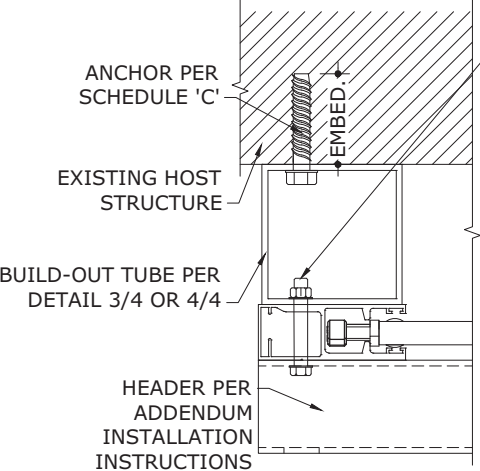
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WALL MOUNT

N.T.S.

VERT SECTION



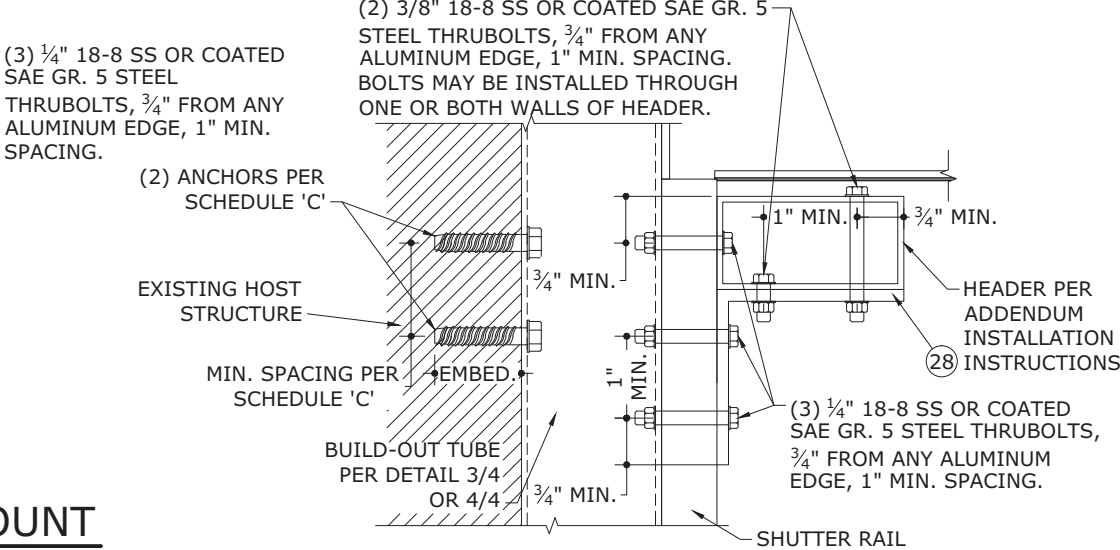
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BUILD-OUT MOUNT

N.T.S.

HORIZ SECTION



6

15

BUILD-OUT MOUNT

N.T.S.

VERT SECTION

SCHEDULE 'C'

ANCHOR TYPE	MINIMUM SPACING	MINIMUM EDGE DISTANCE	MOUNTING CONDITION	NUMBER OF ANCHORS	CONNECTION CAPACITY
3/8" DEWALT SCREW BOLTS W/ 3-1/2" EMBED TO 3KSI MIN. CONCRETE	4.5"	4.5"	BUILD-OUT OR WALL MOUNT	1	2205 LB
			INTERIOR MOUNT	2	3093 LB
	2.5"	4.5"	BUILD-OUT OR WALL MOUNT	1	1533 LB
			INTERIOR MOUNT	2	3065 LB
3/8" DEWALT SCREW BOLTS W/ 3-1/2" EMBED TO GROUT-FILLED CONCRETE BLOCK*	6.0"	12.0"	BUILD-OUT OR WALL MOUNT	1	1477 LB
			INTERIOR MOUNT	2	2955 LB
			BUILD-OUT OR WALL MOUNT	1	1272 LB
			INTERIOR MOUNT	2	2544 LB
3/8" DEWALT STEEL DROPIN W/ 1-9/16" EMBED TO 3KSI MIN. CONCRETE	4.5"	5.25"	BUILD-OUT OR WALL MOUNT	1	795 LB
			INTERIOR MOUNT	2	1590 LB
	2.5"	5.25"	BUILD-OUT OR WALL MOUNT	1	1145 LB
			INTERIOR MOUNT	2	2290 LB
5/16" ITW TAPCON XL OR DEWALT ULTRA CON W/ 2-1/4" MIN. EMBED TO 3.5KSI MIN. CONCRETE	5.0"	4.0"	BUILD-OUT OR WALL MOUNT	1	461 LB
			INTERIOR MOUNT	2	922 LB
			BUILD-OUT OR WALL MOUNT	1	664 LB
			INTERIOR MOUNT	2	1328 LB
5/16" ITW TAPCON XL OR DEWALT ULTRA CON W/ 2-1/4" MIN. EMBED TO GROUT-FILLED CONCRETE BLOCK	5.0"	3.125"	BUILD-OUT OR WALL MOUNT	1	788 LB
			INTERIOR MOUNT	2	1576 LB
			BUILD-OUT OR WALL MOUNT	1	851 LB
			INTERIOR MOUNT	2	1702 LB
5/16" LAG SCREW W/ 2" MIN. THREAD PENETRATION TO G=0.42 MIN WOOD	5.0"	1.25"	BUILD-OUT OR WALL MOUNT	1	292 LB
			INTERIOR MOUNT	2	584 LB
	2.0"	1.25"	BUILD-OUT OR WALL MOUNT	1	372 LB
			INTERIOR MOUNT	2	744 LB
	2.0"	1.25"	BUILD-OUT OR WALL MOUNT	1	655 LB
			INTERIOR MOUNT	2	1311 LB
	2.0"	1.25"	BUILD-OUT OR WALL MOUNT	1	151 LB
			INTERIOR MOUNT	2	301 LB

- NOTES:**
- ALL ANCHORS SHALL BE 3/4" MINIMUM FROM ANY ALUMINUM EDGE.
 - * ANCHOR SHALL PENETRATE THROUGH FACE SHELL INTO GROUTED CELL

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REMARKS	DRWN	CHKD	DATE
INIT ISSUE	KL	FLB	4/25/14
REV FOR TDI	RWN	TSB	6/04/14
2014 FBC	RWN	CSL	4/08/15
2017 FBC	RWN	FLB	8/07/17
2020 FBC	CCB	RWN	6/30/20

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