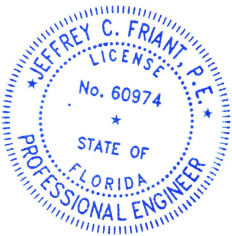


StormHenge Aluminum Roll-Down Shutter System - FL44184

JEFFREY C. FRIANT, P.E.
FL #60974



Jeffrey C. Friant, P.E.
60974
Digitally signed by Jeffrey C. Friant, P.E.
60974
Date: 2023.11.03 12:04:24 -04'00'

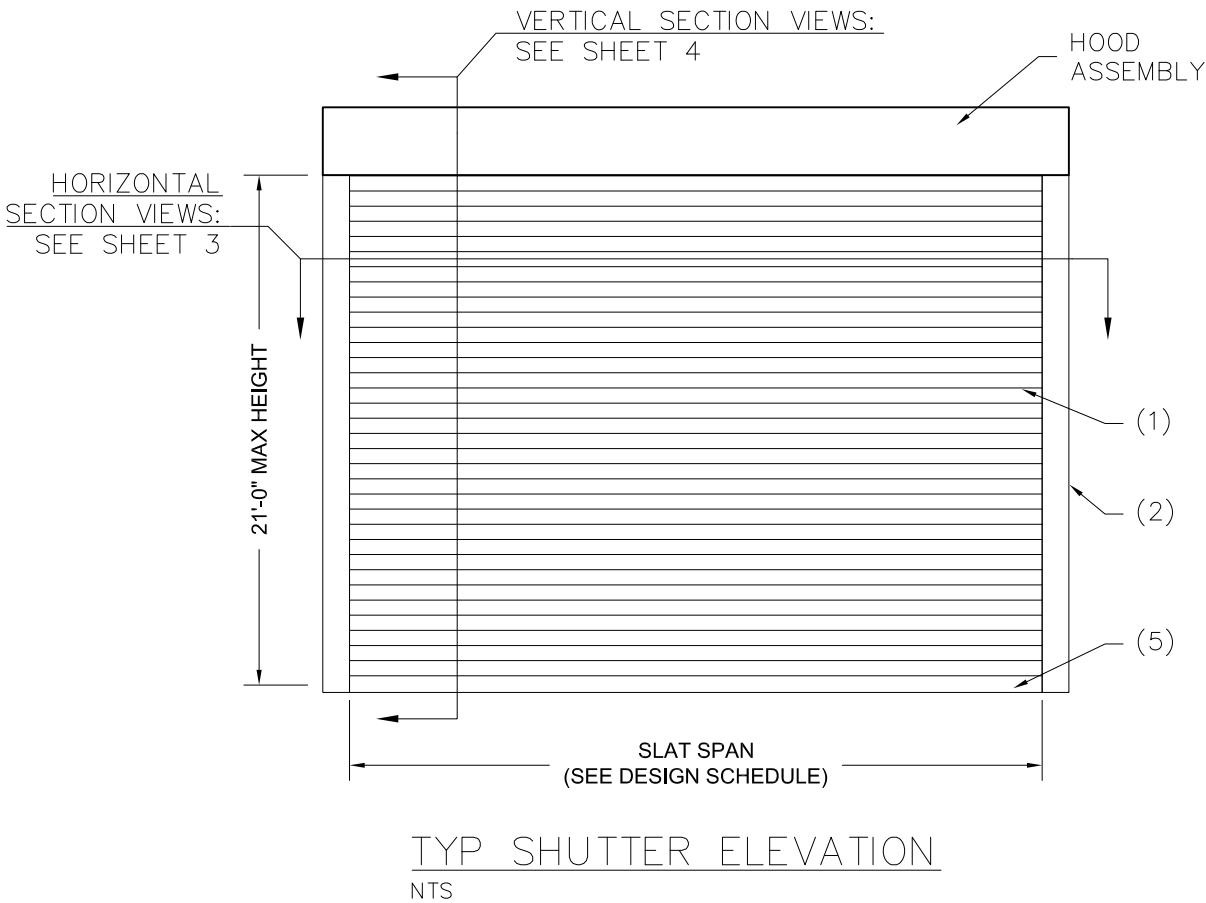
SPECIALTY ENGINEERING SERVICES & SOLUTIONS, LLC.
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STORM SMART®
CGC1519801
6182 IDLEWILD STREET
FORT MYERS, FL
(239) 938-1000

**STORMHENG
ALUMINUM ROLL DOWN**

DRAWN BY:	DATE:	CHECKED BY:	DATE:
JCF	10/13/23	MC	10/23/23

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DESIGN SCHEDULE

SPAN (in)	ASD DESIGN PRESSURE (psf)	GLASS SEPARATION (INSTALLATIONS ≤ 30' FROM GRADE) (in)	GLASS SEPARATION (INSTALLATIONS > 30' FROM GRADE) (in)
72	100	8.4	8.4
96	100	9.3	9.3
108	100	9.7	9.7
120	100	10.1	10.1
144	100	11.0	11.0
168	86.5	13.1	12.0
192	73.1	13.1	13.0
216	59.6	13.9	13.9
242	45	15.0	15.0

DESIGN SCHEDULE NOTES:

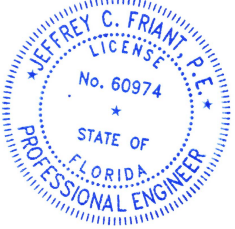
- GLASS SEPARATION ONLY REQUIRED WITHIN THE HIGH VELOCITY HURRICANE ZONE (HVHZ) UNLESS REQUIRED BY LOCAL JURISDICTION
- LINEAR INTERPOLATION IS ALLOWED FOR INTERMEDIATE PRESSURES, SPANS AND GLASS SEPARATION VALUES GREATER THAN 30' ABOVE GRADE. INTERPOLATION IS NOT ALLOWED FOR GLASS SEPARATION VALUES BELOW 30' FROM GRADE

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN DESIGNED AND TESTED PER THE STRUCTURAL REQUIRMENTS OF THE 2023 FLORIDA BUILDING CODE 8TH ED. AND THE FOLLOWING TEST STANDARDS: TAS 201/202/203 FOR USE WITHIN AND OUTSIDE THE HVHZ (HIGH VELOCITY HURRICANE ZONE) PER MISSILE LEVEL D.
2. REQUIRED DESIGN PRESSURES SHALL BE CALCULATED ON A SITE SPECIFIC BASIS PER ASCE 7-22 AND THE PRODUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE LIMITATIONS OF THE DESIGN SCHEDULES HEREIN (DESIGN WIND PRESSURES LISTED HEREIN ARE ALLOWABLE STRESS DESIGN LOADS).
3. ALUMINUM MEMBERS AND COMPONENTS SHALL BE 6005-T5 OR 6061-T6 MINIMUM UNLESS NOTED OTHERWISE.
4. ALL CARBON STEEL FASTENERS SHALL BE SAE GR. 2 MINIMUM. ALL STAINLESS STEEL FASTENERS SHALL BE SERIES 410 MINIMUM UNLESS NOTED OTHERWISE.
5. FASTENERS IN STEEL SUBSTRATES SHALL HAVE A MINIMUM EDGE/END DISTANCE OF 2x DIAMETER AND MINIMUM CENTER TO CENTER SPACING OF 3x DIAMETER. FASTENERS IN ALUMINUM SUBSTRATES SHALL HAVE A MINIMUM EDGE/END DISTANCE OF 2x DIAMETER AND MINIMUM CENTER TO CENTER SPACING OF 2.5x DIAMETER
6. THE ENGINEER SHALL HAVE NO LIABILITY TO OTHERS FOR ACTS OR OMISSIONS OF THE CONTRACTOR/BUILDER OR ANY OTHERS PERFORMING WORK ON THIS PROJECT. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION SEQUENCES, METHODS, OR TECHNIQUES AND/OR SAFETY REQUIREMENTS IN CONNECTION WITH THE CONSTRUCTION OF THIS STRUCTURE.
7. ELECTRICAL GROUND (IF APPLICABLE) SHALL BE PROVIDED BY OTHERS.
8. ANY MECHANICAL, ELECTRICAL, VIBRATION OR ANY OTHER NON-STRUCTURAL DESIGN ASPECTS ARE BEYOND THE SCOPE OF THIS CERTIFICATION.
9. WATERPROOFING/WATER PENETRATION ARE NOT PART OF THIS EVALUATION AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR ISOLATING DISSIMILAR MATERIALS TO PREVENT ELECTROLYSIS
10. THE SHUTTER "SPAN" IS DEFINED AS THE DISTANCE BETWEEN THE INSIDE EDGES OF THE TRACKS.
11. ALL SHUTTERS SHALL BE PROPERLY LABELED IN ACCORDANCE WITH FBC SECTION 1709.9.
12. THE CONTRACTOR OR ENGINEER OF RECORD OF THE HOST STRUCTURE SHALL CONFIRM THE STRUCTURE CAN RESIST THE IMPOSED LOADS FROM THIS PRODUCT..
13. DETAILS HEREIN SHALL NOT BE USED AS FABRICATION OR SHOP DRAWINGS.
14. WORK SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION. THIS THIS DOCUMENT IS GENERIC AND DOES NOT APPLY TO A SPECIFIC PROJECT SITE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR OR OTHERS TO ENSURE COMPLIANCE WITH THIS DOCUMENT.

StormHenge Aluminum Roll-Down Shutter System - Components

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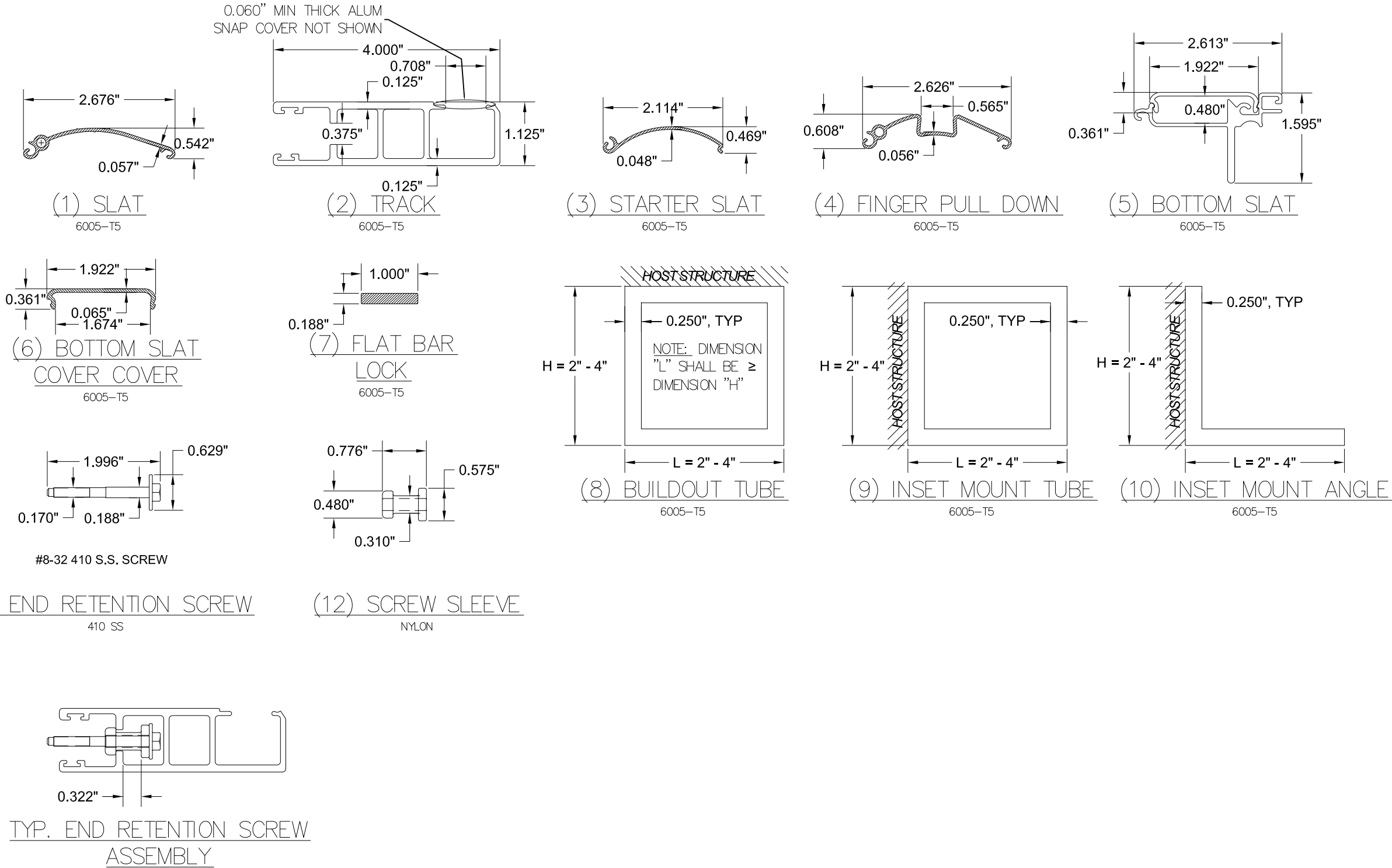
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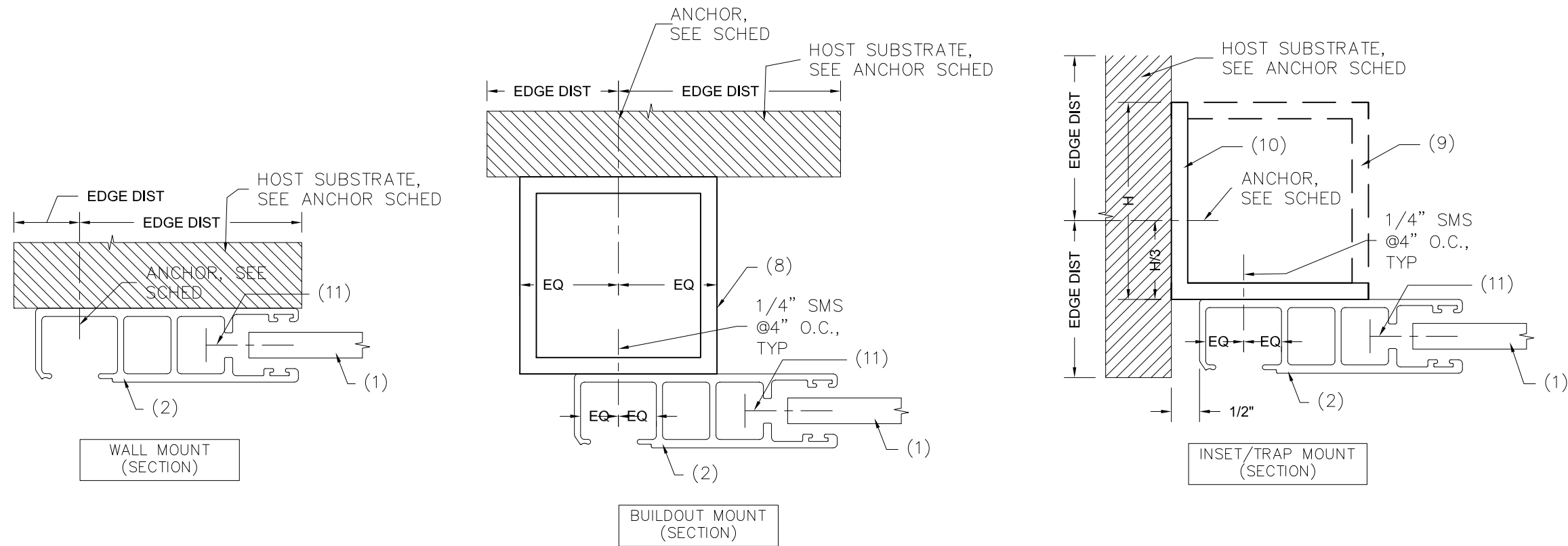
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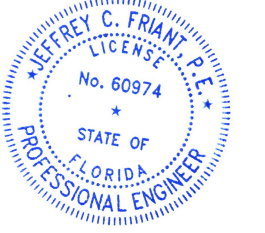
STORMHENG ALUMINUM ROLL DOWN			
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JCF	10/13/23	MC	10/23/23
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StormHenge Aluminum Roll-Down Shutter System - Horizontal Section Views



JEFFREY C. FRIANT, P.E.
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STORMHENGE ALUMINUM ROLL DOWN

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JCF	10/13/23	MC	10/23/23

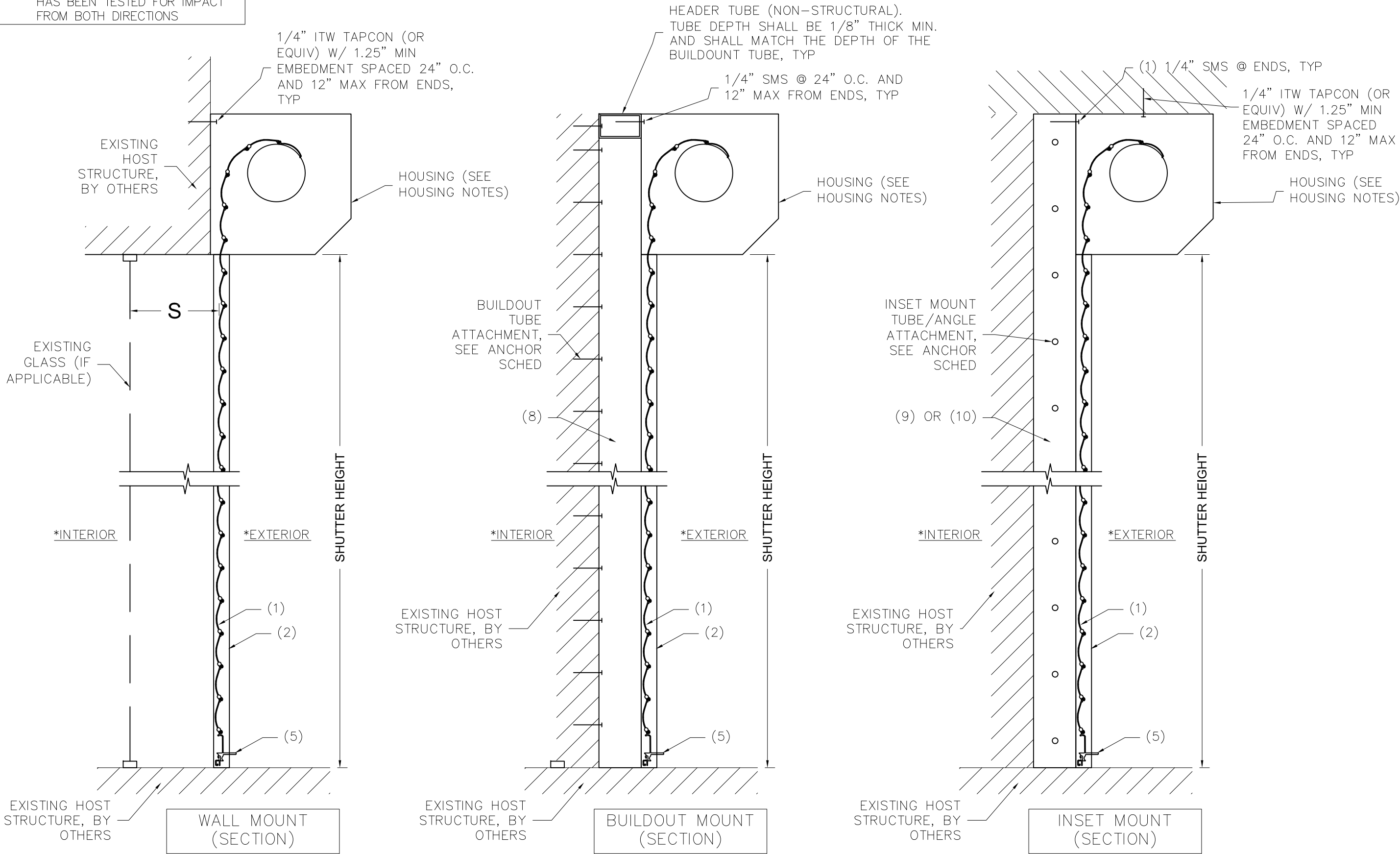
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SHEET #

3 OF 7

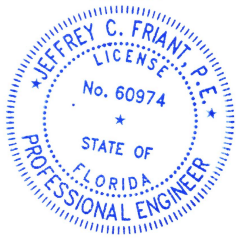
StormHenge Aluminum Roll-Down Shutter System - Vertical Section Views

NOTES:
1. S = SEPARATION FROM GLASS
2. * = INTERIOR AND EXTERIOR
MAY BE REVERSED. PRODUCT
HAS BEEN TESTED FOR IMPACT
FROM BOTH DIRECTIONS



HOUSING NOTES:
1. HOUSING SHALL BE 0.040" THICK ALUM, 3105-H14 MIN)
2. END CAP (CAST ALUM, SHALL BE CAPABLE OF SUPPORTING SLAT AND LIFT MECHANISM WEIGHT)
3. (6) 3/16" ALUM POP RIVETS PER SIDE CAP, (2 AT TOP, 2 AT REAR, 2 AT BOTTOM)
4. HOOD HAS BEEN TESTED FOR IMPACT & CYCLIC LOADS AND MAY BE INSTALLED WITHIN OPENING

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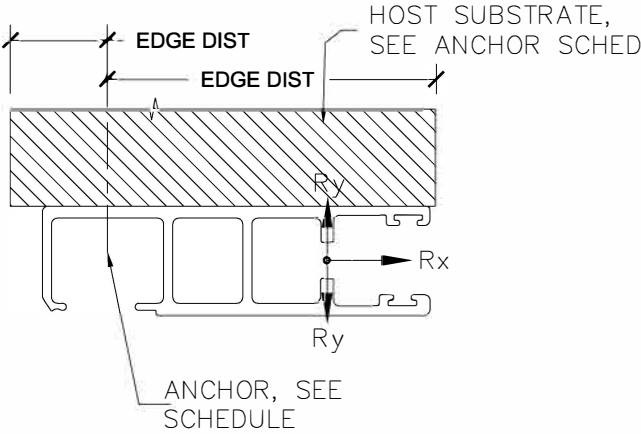
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SHEET #

WALL MOUNT ANCHOR SCHEDULE -
REQUIRED O.C. SPACING (in)

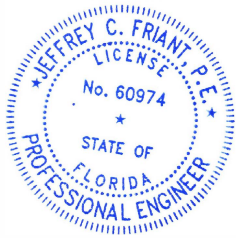


ANCHOR SCHEDULE NOTES:

- EDGE DISTANCE & EMBEDMENT VALUES DO NOT INCLUDE WALL FINISHES SUCH AS STUCCO, ETC. CONTRACTOR SHALL ENSURE THAT THESE VALUES ARE MET.
- BOLTS SHALL HAVE STANDARD SAE GRADE WASHERS AT BOTH ENDS. BOLT HOLES SHAL BE 1/16" GREATER THAN ANCHOR DIAMETER.
- MINIMUM ANCHOR MATERIAL STRENGTH SHALL BE SAE GR 5 MINIMUM FOR CARBON STEEL (CS), AND SERIES 316 FOR STAINLESS STEEL (SS),
- ADDITIONAL ANCHOR OPTIONS MAY BE USED FOR THIS PRODUCT AS LONG AS THE ANCHOR IS NO SMALLER THAN THE MINIMUM DIAMETER LISTED AND IT IS CERTIFIED BY A REGISTERED PROFESSIONAL ENGINEER.
- "X" = SPACING VALUES NOT APPROVED FOR INSTALLATION. LINEAR INTERPOLATION MAY BE USED FOR INTERMEDIATE SPAN OR PRESSURE TIERS BETWEEN APPROVED SPACING VALUES ONLY. SPACING VALUES BETWEEN AN "X" AND AN APPROVED VALUE SHALL NOT BE INTERPOLATED.
- ANCHOR INTSALLATION SHALL FOLLOW ALL MANUFATURER RECOMMENDATIONS.
- MINIMUM CONCRETE COMPRESSIVE STRENGTH OF CONCRETE SUBSTRATES SHALL BE $f_c = 3.0$ KSI MIN. (UNCRACKED) UNLESS NOTED OTHERWISE.
- MASONRY HOST STRUCTURE SHALL BE ASTM C-90 MEDIUM WEIGHT MINIMUM WITH $f_m = 1500$ PSI MIN..
- WOOD HOST MEMBERS SHALL BE STRUCTURAL 2X MEMBERS MINIMUM (SPECIFIC GRAVITY = $G = 0.55$). MINIMUM DISTANCE FROM ANCHOR TO END OF WOOD MEMBER = 1.0" (SEE SCHED. FOR MIN EDGE DIST.). SHUTTER SHALL NOT ATTACH TO PLYWOOD OR ANY EXTERIOR SHEATHING.
- METAL HOST STRUCTURES SHALL BE STRUCTURAL MEMBERS ONLY. STEEL HOST MEMBERS SHALL HAVE THICKNESS AS NOTED IN ANCHOR SCHEDULE WITH MINIMUM $F_y = 36$ KSI. ALUMINUM HOST MEMBERS SHALL BE 3/16" THICK MINIMUM WITH MINIMUM 6063-T6 ALLOY AND TEMPER. SCREWS SHALL PENETRATE 3 PITCHES MINIMUM PAST THE THREAD PLANE OF THE HOST MATERIAL.
- THICKNESS OF WALL FINISHES SHALL NOT EXCEED THE DIAMETER OF THE ANCHOR. IF WALL FINISH THICKNESS EXCEEDS ANCHOR DIAMETER (BRICK VENEER OR EIFS) SITE SPECIFIC ENGINEERING IS REQUIRED AND SHALL CONSIDER COMBINED BENDING AND SHEAR ON ANCHORS, ANCHORS SHALL PENETRATE FAR ENOUGH TO REACH A STRUCTURAL MEMBER AND ACHIEVE THE EMBEDMENT LISTED.
- FASTENERS IN STEEL/ALUMINUM SUBSTRATES SHALL HAVE A MINIMUM EDGE/END DISTANCES NOTED IN THE ANCHOR SCHEDULE..

		SUBSTRATE:		CONCRETE					GROUT-FILLED BLOCK			WOOD	STEEL (12ga)	STEEL (3/16")		ALUMINUM (1/4")	
		ANCHOR TYPE:		5/16" DEWALT ULTRACON (CS) (*3.5 ksi MIN CONCRETE)	5/16" HILLMAN POWER PRO / ALL-POINTS SOLID SET (CS)	3/8" DEWALT SCREW BOLT+ (CS)	3/8" HILTI KWIK BOLT 3 (CS)	3/8" HILTI KWIK BOLT 3 (SS)	3/8" DEWALT SCREW BOLT+ (CS)	3/8" HILTI KWIK BOLT 3 (CS OR SS)	5/16" HILLMAN POWER PRO / ALL-POINTS SOLID SET (CS)	3/8" LAG SCREW OR WOOD SCREW (CS OR SS)	3/8" BOLT (CS OR SS)	3/8" BOLT (CS OR SS)	3/8" DEWALT TAP-FLEX	3/8" BOLT (CS OR SS)	3/8" DEWALT TAP-FLEX
		EMBEDMENT =		2.00 in	2.25 in	3.25 in	2.50 in	2.50 in	3.25 in	2.50 in	2.25 in	3.75 in	N/A	N/A	N/A	N/A	N/A
MIN EDGE DIST =		3.13 in	3.00 in	5.00 in	3.50 in	3.50 in	5.00 in	5.00 in	3.00 in	1.50 in	0.75 in	0.75 in	0.75 in	0.75 in	0.75 in		
SLAT SPAN	DESIGN PRESSURE	R _x	R _y	MAXIMUM SPACING (O.C.)													
6.0 FT	+/- 30 PSF	0 LB/FT	90 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	28 LB/FT	105 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	95 LB/FT	120 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	163 LB/FT	135 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 50 PSF	229 LB/FT	150 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 60 PSF	362 LB/FT	180 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 70 PSF	492 LB/FT	210 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 80 PSF	619 LB/FT	240 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.5"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 90 PSF	744 LB/FT	270 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	4.6"	6.0"	6.0"	6.0"	6.0"	6.0"
8.0 FT	+/- 100 PSF	866 LB/FT	300 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 30 PSF	376 LB/FT	120 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	480 LB/FT	140 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	583 LB/FT	160 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.9"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	686 LB/FT	180 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.1"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 50 PSF	789 LB/FT	200 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	4.4"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 60 PSF	993 LB/FT	240 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 70 PSF	1195 LB/FT	280 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.7"	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 80 PSF	1396 LB/FT	320 LB/FT	5.9"	6.0"	6.0"	6.0"	6.0"	5.7"	5.4"	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
10.0 FT	+/- 90 PSF	1594 LB/FT	360 LB/FT	5.2"	5.5"	6.0"	5.8"	6.0"	5.0"	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 100 PSF	1790 LB/FT	400 LB/FT	X	4.9"	6.0"	5.1"	5.9"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 30 PSF	717 LB/FT	150 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	4.9"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	862 LB/FT	175 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	4.1"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	1007 LB/FT	200 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	1151 LB/FT	225 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 50 PSF	1295 LB/FT	250 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.4"	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 60 PSF	1581 LB/FT	300 LB/FT	5.4"	5.7"	6.0"	5.9"	6.0"	5.2"	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 70 PSF	1864 LB/FT	350 LB/FT	X	4.8"	6.0"	5.0"	5.8"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
12.0 FT	+/- 80 PSF	2145 LB/FT	400 LB/FT	X	X	5.8"	X	5.1"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 90 PSF	2424 LB/FT	450 LB/FT	X	X	5.1"	X	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 100 PSF	2700 LB/FT	500 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 30 PSF	1044 LB/FT	180 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	1235 LB/FT	210 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.8"	X	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	1425 LB/FT	240 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	5.8"	5.6"	5.0"	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	1615 LB/FT	270 LB/FT	5.4"	5.6"	6.0"	5.9"	6.0"	5.2"	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 50 PSF	1804 LB/FT	300 LB/FT	4.8"	5.1"	6.0"	5.3"	6.0"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 60 PSF	2180 LB/FT	360 LB/FT	X	X	5.8"	X	5.1"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
14.0 FT	+/- 70 PSF	2553 LB/FT	420 LB/FT	X	X	4.9"	X	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 80 PSF	2923 LB/FT	480 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	6.0"	5.9"	5.8"
	+/- 90 PSF	3289 LB/FT	540 LB/FT	X	X	X	X	X	X	X	X	X	5.8"	6.0"	5.4"	5.2"	5.2"
	+/- 30 PSF	1374 LB/FT	210 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.9"	5.3"	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	1614 LB/FT	245 LB/FT	5.5"	5.7"	6.0"	5.9"	6.0"	5.2"	5.0"	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	1853 LB/FT	280 LB/FT	4.8"	5.0"	6.0"	5.2"	6.0"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	2091 LB/FT	315 LB/FT	X	X	6.0"	X	5.3"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 50 PSF	2328 LB/FT	350 LB/FT	X	X	5.4"	X	4.8"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 60 PSF	2798 LB/FT	420 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
16.0 FT	+/- 70 PSF	3264 LB/FT	490 LB/FT	X	X	X	X	X	X	X	X	X	5.9"	6.0"	5.5"	5.3"	5.3"
	+/- 80 PSF	3724 LB/FT	560 LB/FT	X	X	X	X	X	X	X	X	X	5.2"	5.3"	4.8"	4.7"	4.7"
	+/- 87 PSF	4021 LB/FT	606 LB/FT	X	X	X	X	X	X	X	X	X	4.8"	4.9"	4.5"	4.3"	4.3"
	+/- 25 PSF	1421 LB/FT	200 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.8"	5.2"	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 30 PSF	1715 LB/FT	240 LB/FT	5.2"	5.4"	6.0"	5.6"	6.0"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	2007 LB/FT	280 LB/FT	X	X	6.0"	4.8"	5.6"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	2298 LB/FT	320 LB/FT	X	X	5.6"	X	4.9"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	2587 LB/FT	360 LB/FT	X	X	4.9"	X	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 50 PSF	2875 LB/FT	400 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
18.0 FT	+/- 60 PSF	3445 LB/FT	480 LB/FT	X	X	X	X	X	X	X	X	X	5.6"	5.8"	5.3"	5.1"	5.1"
	+/- 70 PSF	4009 LB/FT	560 LB/FT	X	X	X	X	X	X	X	X	X	4.9"	5.0"	4.5"	4.4"	4.4"
	+/- 73 PSF	4176 LB/FT	584 LB/FT	X	X	X	X	X	X	X	X	X	4.7"	4.8"	4.4"	4.2"	4.2"
	+/- 25 PSF	1721 LB/FT	225 LB/FT	5.2"	5.5"	6.0"	5.6"	6.0"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 30 PSF	2070 LB/FT	270 LB/FT	X	X	6.0"	X	5.5"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	2418 LB/FT	315 LB/FT	X	X	5.3"	X	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	2763 LB/FT	360 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	3107 LB/FT	405 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	5.9"	5.7"	5.7"
	+/- 50 PSF	3448 LB/FT	450 LB/FT	X	X	X	X	X	X	X	X	X	5.7"	5.8"	5.3"	5.2"	5.1"
20.2 FT	+/- 60 PSF	4089 LB/FT	536 LB/FT	X	X	X	X	X	X	X	X	X	4.8"	4.9"	4.5"	4.4"	4.3"
	+/- 25 PSF	2059 LB/FT	252 LB/FT	X	X	6.0"	X	5.5"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 30 PSF	2472 LB/FT	303 LB/FT	X	X	5.2"	X	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	2882 LB/FT	353 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	3290 LB/FT	403 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	5.6"	5.5"	5.4"

JEFFREY C. FRIANT, P.E.
FL #60974

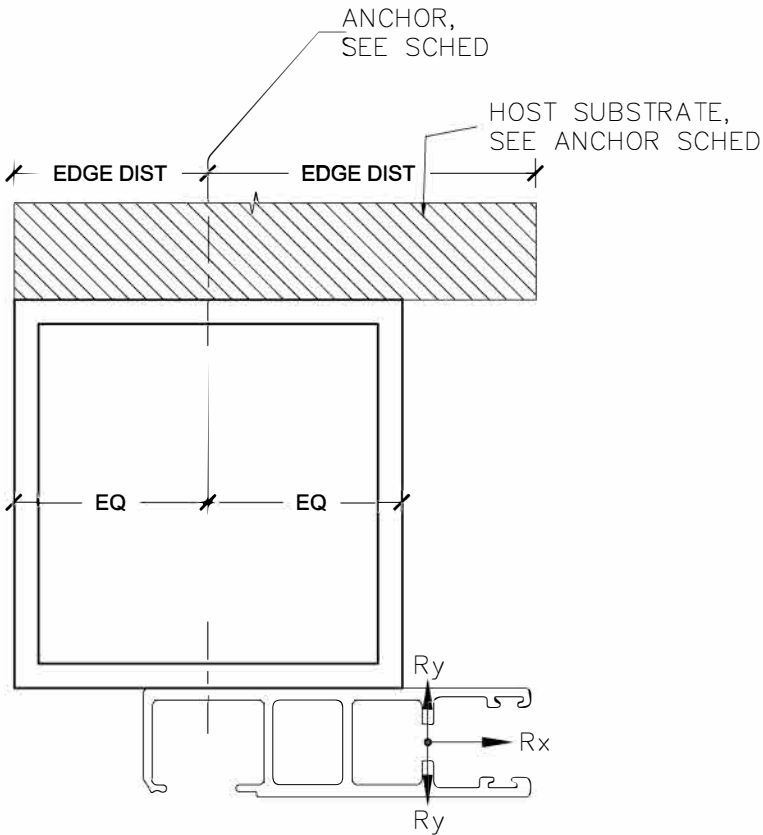


Jeffrey C. Friant, P.E.
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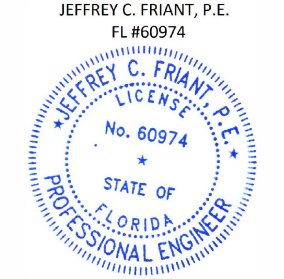
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BUILDOUT MOUNT ANCHOR SCHEDULE -
REQUIRED O.C. SPACING (in)



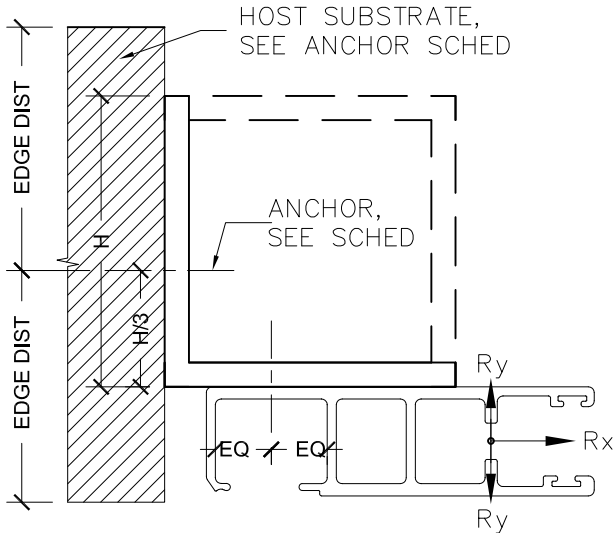
SLAT SPAN		DESIGN PRESSURE	SUBSTRATE:		CONCRETE					GROUT-FILLED BLOCK			WOOD	STEEL (12ga)	STEEL (3/16")		ALUMINUM (1/4")	
			ANCHOR TYPE:	5/16" DEWALT ULTRACON (CS) (*3.5 ksi MIN CONCRETE)	5/16" HILLMAN POWER PRO / ALL- POINTS SOLID SET (CS)	3/8" DEWALT SCREW BOLT+ (CS)	3/8" HILTI KWIK BOLT 3 (CS)	3/8" HILTI KWIK BOLT 3 (SS)	3/8" DEWALT SCREW BOLT+ (CS)	3/8" HILTI KWIK BOLT 3 (CS OR SS)	5/16" HILLMAN POWER PRO / ALL- POINTS SOLID SET (CS)	3/8" LAG SCREW OR WOOD SCREW (CS OR SS)	3/8" BOLT (CS OR SS)	3/8" BOLT (CS OR SS)	3/8" DEWALT TAP-FLEX	3/8" BOLT (CS OR SS)	3/8" DEWALT TAP-FLEX	
EMBEDMENT =		2.00 in	2.25 in	3.25 in	2.50 in	2.50 in	3.25 in	2.50 in	2.25 in	3.75 in	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MIN EDGE DIST =		3.13 in	3.00 in	5.00 in	3.50 in	3.50 in	5.00 in	5.00 in	3.00 in	1.50 in	0.75 in	0.75 in	0.75 in	0.75 in	0.75 in	0.75 in	0.75 in	
		R _x	R _y	MAXIMUM SPACING (O.C.)														
6.0 FT	+/- 30 PSF	0 LB/FT	90 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	29 LB/FT	105 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	99 LB/FT	120 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	169 LB/FT	135 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 50 PSF	239 LB/FT	150 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 60 PSF	377 LB/FT	180 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 70 PSF	512 LB/FT	210 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.5"	5.4"	4.9"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 80 PSF	645 LB/FT	240 LB/FT	5.4"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
8.0 FT	+/- 90 PSF	775 LB/FT	270 LB/FT	X	5.1"	6.0"	6.0"	6.0"	6.0"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 100 PSF	903 LB/FT	300 LB/FT	X	X	6.0"	5.5"	5.6"	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 30 PSF	391 LB/FT	120 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	500 LB/FT	140 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.9"	5.8"	5.2"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	607 LB/FT	160 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	X	X	4.3"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	715 LB/FT	180 LB/FT	5.1"	5.7"	6.0"	6.0"	6.0"	6.0"	5.6"	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 50 PSF	822 LB/FT	200 LB/FT	X	5.0"	6.0"	6.0"	6.0"	6.0"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 60 PSF	1034 LB/FT	240 LB/FT	X	X	6.0"	4.9"	5.1"	X	X	X	X	X	6.0"	6.0"	6.0"	5.7"	6.0"
10.0 FT	+/- 70 PSF	1245 LB/FT	280 LB/FT	X	X	5.2"	X	X	X	X	X	X	X	6.0"	6.0"	5.5"	4.8"	5.1"
	+/- 80 PSF	1454 LB/FT	320 LB/FT	X	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.7"	4.1"	4.3"
	+/- 90 PSF	1660 LB/FT	360 LB/FT	X	X	X	X	X	X	X	X	X	X	5.9"	6.0"	4.1"	3.6"	3.8"
	+/- 100 PSF	1865 LB/FT	400 LB/FT	X	X	X	X	X	X	X	X	X	X	5.3"	6.0"	3.7"	3.2"	3.4"
	+/- 30 PSF	747 LB/FT	150 LB/FT	5.0"	5.6"	6.0"	6.0"	6.0"	5.4"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	898 LB/FT	175 LB/FT	X	X	6.0"	5.7"	5.9"	X	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	1049 LB/FT	200 LB/FT	X	X	6.0"	4.9"	5.1"	X	X	X	X	X	6.0"	6.0"	6.0"	5.8"	6.0"
	+/- 45 PSF	1199 LB/FT	225 LB/FT	X	X	5.5"	X	X	X	X	X	X	X	6.0"	6.0"	5.8"	5.0"	5.3"
12.0 FT	+/- 50 PSF	1349 LB/FT	250 LB/FT	X	X	4.9"	X	X	X	X	X	X	X	6.0"	6.0"	5.1"	4.5"	4.7"
	+/- 60 PSF	1647 LB/FT	300 LB/FT	X	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.2"	3.7"	3.9"
	+/- 70 PSF	1942 LB/FT	350 LB/FT	X	X	X	X	X	X	X	X	X	X	5.1"	5.9"	3.6"	3.1"	3.3"
	+/- 80 PSF	2235 LB/FT	400 LB/FT	X	X	X	X	X	X	X	X	X	X	4.4"	5.1"	3.1"	2.7"	2.9"
	+/- 90 PSF	2525 LB/FT	450 LB/FT	X	X	X	X	X	X	X	X	X	X	3.9"	4.5"	2.7"	2.4"	2.5"
	+/- 100 PSF	2813 LB/FT	500 LB/FT	X	X	X	X	X	X	X	X	X	X	3.5"	4.0"	2.5"	2.2"	2.3"
	+/- 30 PSF	1087 LB/FT	180 LB/FT	X	X	6.0"	4.8"	5.0"	X	X	X	X	X	6.0"	6.0"	6.0"	5.6"	5.9"
	+/- 35 PSF	1286 LB/FT	210 LB/FT	X	X	5.2"	X	X	X	X	X	X	X	6.0"	6.0"	5.4"	4.7"	5.0"
14.0 FT	+/- 40 PSF	1485 LB/FT	240 LB/FT	X	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.7"	4.1"	4.3"
	+/- 45 PSF	1682 LB/FT	270 LB/FT	X	X	X	X	X	X	X	X	X	X	5.9"	6.0"	4.2"	3.6"	3.8"
	+/- 50 PSF	1879 LB/FT	300 LB/FT	X	X	X	X	X	X	X	X	X	X	5.3"	6.0"	3.7"	3.3"	3.4"
	+/- 60 PSF	2271 LB/FT	360 LB/FT	X	X	X	X	X	X	X	X	X	X	4.4"	5.0"	3.1"	2.7"	2.8"
	+/- 70 PSF	2659 LB/FT	420 LB/FT	X	X	X	X	X	X	X	X	X	X	3.8"	4.3"	2.6"	2.3"	2.4"
	+/- 80 PSF	3044 LB/FT	480 LB/FT	X	X	X	X	X	X	X	X	X	X	3.3"	3.8"	2.3"	2.0"	2.1"
	+/- 90 PSF	3426 LB/FT	540 LB/FT	X	X	X	X	X	X	X	X	X	X	2.9"	3.3"	2.0"	X	X
	+/- 30 PSF	1431 LB/FT	210 LB/FT	X	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.9"	4.3"	4.5"
16.0 FT	+/- 35 PSF	1681 LB/FT	245 LB/FT	X	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.2"	3.7"	3.9"
	+/- 40 PSF	1930 LB/FT	280 LB/FT	X	X	X	X	X	X	X	X	X	X	5.2"	5.9"	3.6"	3.2"	3.4"
	+/- 45 PSF	2178 LB/FT	315 LB/FT	X	X	X	X	X	X	X	X	X	X	4.6"	5.3"	3.2"	2.8"	3.0"
	+/- 50 PSF	2425 LB/FT	350 LB/FT	X	X	X	X	X	X	X	X	X	X	4.1"	4.7"	2.9"	2.5"	2.7"
	+/- 60 PSF	2915 LB/FT	420 LB/FT	X	X	X	X	X	X	X	X	X	X	3.4"	3.9"	2.4"	2.1"	2.2"
	+/- 70 PSF	3400 LB/FT	490 LB/FT	X	X	X	X	X	X	X	X	X	X	2.9"	3.4"	2.1"	X	X
	+/- 80 PSF	3880 LB/FT	560 LB/FT	X	X	X	X	X	X	X	X	X	X	2.6"	3.0"	X	X	X
	+/- 87 PSF	4188 LB/FT	606 LB/FT	X	X	X	X	X	X	X	X	X	X	2.4"	2.7"	X	X	X
18.0 FT	+/- 25 PSF	1481 LB/FT	200 LB/FT	X	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.8"	4.2"	4.4"
	+/- 30 PSF	1787 LB/FT	240 LB/FT	X	X	X	X	X	X	X	X	X	X	5.6"	6.0"	4.0"	3.5"	3.7"
	+/- 35 PSF	2091 LB/FT	280 LB/FT	X	X	X	X	X	X	X	X	X	X	4.8"	5.5"	3.4"	3.0"	3.1"
	+/- 40 PSF	2394 LB/FT	320 LB/FT	X	X	X	X	X	X	X	X	X	X	4.2"	4.8"	3.0"	2.6"	2.7"
	+/- 45 PSF	2695 LB/FT	360 LB/FT	X	X	X	X	X	X	X	X	X	X	3.7"	4.3"	2.6"	2.3"	2.4"
	+/- 50 PSF	2995 LB/FT	400 LB/FT	X	X	X	X	X	X	X	X	X	X	3.4"	3.8"	2.4"	2.1"	2.2"
	+/- 60 PSF	3589 LB/FT	480 LB/FT	X	X	X	X	X	X	X	X	X	X	2.8"	3.2"	X	X	X
	+/- 70 PSF	4176 LB/FT	560 LB/FT	X	X	X	X	X	X	X	X	X	X	2.4"	2.8"	X	X	X
20.2 FT	+/- 73 PSF	4350 LB/FT	584 LB/FT	X	X	X	X	X	X	X	X	X	X	2.3"	2.6"	X	X	X
	+/- 25 PSF	1792 LB/FT	225 LB/FT	X	X	X	X	X	X	X	X	X	X	5.6"	6.0"	4.0"	3.5"	3.7"
	+/- 30 PSF	2156 LB/FT	270 LB/FT	X	X	X	X	X	X	X	X	X	X	4.7"	5.4"	3.3"	2.9"	3.0"
	+/- 35 PSF	2518 LB/FT	315 LB/FT	X	X	X	X	X	X	X	X	X	X	4.0"	4.6"	2.8"	2.5"	2.6"
	+/- 40 PSF	2878 LB/FT	360 LB/FT	X	X	X	X	X	X	X	X	X	X	3.5"	4.0"	2.5"	2.2"	2.3"
	+/- 45 PSF	3236 LB/FT	405 LB/FT	X	X	X	X	X	X	X	X	X	X	3.1"	3.6"	2.2"	X	2.0"
	+/- 50 PSF	3591 LB/FT	450 LB/FT	X	X	X	X	X	X	X	X	X	X	2.8"	3.2"	X	X	X
	+/- 60 PSF	4260 LB/FT	536 LB/FT	X	X	X	X	X	X	X	X	X	X	2.4"	2.7"	X	X	X



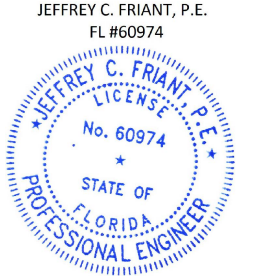
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REQUIRED O.C. SPACING (in)



		SUBSTRATE:		CONCRETE					GROUT-FILLED BLOCK			WOOD	STEEL (12ga)	STEEL (3/16")		ALUMINUM (1/4")	
		ANCHOR TYPE:		5/16" DEWALT ULTRACON (CS) (*3.5 ksi MIN CONCRETE)	5/16" HILLMAN POWER PRO / ALL- POINTS SOLID SET (CS)	3/8" DEWALT SCREW BOLT+ (CS)	3/8" HILTI KWIK BOLT 3 (CS)	3/8" HILTI KWIK BOLT 3 (SS)	3/8" DEWALT SCREW BOLT+ (CS)	3/8" HILTI KWIK BOLT 3 (CS OR SS)	5/16" HILLMAN POWER PRO / ALL- POINTS SOLID SET (CS)	3/8" LAG SCREW OR WOOD SCREW (CS OR SS)	3/8" BOLT (CS OR SS)	3/8" BOLT (CS OR SS)	3/8" DEWALT TAP-FLEX	3/8" BOLT (CS OR SS)	3/8" DEWALT TAP-FLEX
		EMBEDMENT =		2.00 in	2.25 in	3.25 in	2.50 in	2.50 in	3.25 in	2.50 in	2.25 in	3.75 in	N/A	N/A	N/A	N/A	N/A
		MIN EDGE DIST =		3.13 in	3.00 in	5.00 in	3.50 in	3.50 in	5.00 in	5.00 in	3.00 in	1.50 in	0.75 in	0.75 in	0.75 in	0.75 in	0.75 in
SLAT SPAN	DESIGN PRESSURE	R _x	R _y	MAXIMUM SPACING (O.C.)													
6.0 FT	+/- 30 PSF	0 LB/FT	90 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	29 LB/FT	105 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	99 LB/FT	120 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	169 LB/FT	135 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 50 PSF	239 LB/FT	150 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 60 PSF	377 LB/FT	180 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 70 PSF	512 LB/FT	210 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.5"	5.4"	4.9"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 80 PSF	645 LB/FT	240 LB/FT	5.4"	6.0"	6.0"	6.0"	6.0"	6.0"	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 90 PSF	775 LB/FT	270 LB/FT	X	5.1"	6.0"	6.0"	6.0"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 100 PSF	903 LB/FT	300 LB/FT	X	X	6.0"	5.5"	5.6"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
8.0 FT	+/- 30 PSF	391 LB/FT	120 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	500 LB/FT	140 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	5.9"	5.8"	5.2"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	607 LB/FT	160 LB/FT	6.0"	6.0"	6.0"	6.0"	6.0"	6.0"	X	X	4.3"	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 45 PSF	715 LB/FT	180 LB/FT	5.1"	5.7"	6.0"	6.0"	6.0"	5.6"	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 50 PSF	822 LB/FT	200 LB/FT	X	5.0"	6.0"	6.0"	6.0"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 60 PSF	1034 LB/FT	240 LB/FT	X	X	6.0"	4.9"	5.1"	X	X	X	X	6.0"	6.0"	6.0"	5.7"	6.0"
	+/- 70 PSF	1245 LB/FT	280 LB/FT	X	X	5.2"	X	X	X	X	X	X	6.0"	6.0"	5.5"	4.8"	5.1"
	+/- 80 PSF	1454 LB/FT	320 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.7"	4.1"	4.3"
	+/- 90 PSF	1660 LB/FT	360 LB/FT	X	X	X	X	X	X	X	X	X	5.9"	6.0"	4.1"	3.6"	3.8"
	+/- 100 PSF	1865 LB/FT	400 LB/FT	X	X	X	X	X	X	X	X	X	5.3"	6.0"	3.7"	3.2"	3.4"
10.0 FT	+/- 30 PSF	747 LB/FT	150 LB/FT	5.0"	5.6"	6.0"	6.0"	6.0"	5.4"	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 35 PSF	898 LB/FT	175 LB/FT	X	X	6.0"	5.7"	5.9"	X	X	X	X	6.0"	6.0"	6.0"	6.0"	6.0"
	+/- 40 PSF	1049 LB/FT	200 LB/FT	X	X	6.0"	4.9"	5.1"	X	X	X	X	6.0"	6.0"	6.0"	5.8"	6.0"
	+/- 45 PSF	1199 LB/FT	225 LB/FT	X	X	5.5"	X	X	X	X	X	X	6.0"	6.0"	5.8"	5.0"	5.3"
	+/- 50 PSF	1349 LB/FT	250 LB/FT	X	X	4.9"	X	X	X	X	X	X	6.0"	6.0"	5.1"	4.5"	4.7"
	+/- 60 PSF	1647 LB/FT	300 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.2"	3.7"	3.9"
	+/- 70 PSF	1942 LB/FT	350 LB/FT	X	X	X	X	X	X	X	X	X	5.1"	5.9"	3.6"	3.1"	3.3"
	+/- 80 PSF	2235 LB/FT	400 LB/FT	X	X	X	X	X	X	X	X	X	4.4"	5.1"	3.1"	2.7"	2.9"
	+/- 90 PSF	2525 LB/FT	450 LB/FT	X	X	X	X	X	X	X	X	X	3.9"	4.5"	2.7"	2.4"	2.5"
	+/- 100 PSF	2813 LB/FT	500 LB/FT	X	X	X	X	X	X	X	X	X	3.5"	4.0"	2.5"	2.2"	2.3"
12.0 FT	+/- 30 PSF	1087 LB/FT	180 LB/FT	X	X	6.0"	4.8"	5.0"	X	X	X	X	6.0"	6.0"	6.0"	5.6"	5.9"
	+/- 35 PSF	1286 LB/FT	210 LB/FT	X	X	5.2"	X	X	X	X	X	X	6.0"	6.0"	5.4"	4.7"	5.0"
	+/- 40 PSF	1485 LB/FT	240 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.7"	4.1"	4.3"
	+/- 45 PSF	1682 LB/FT	270 LB/FT	X	X	X	X	X	X	X	X	X	5.9"	6.0"	4.2"	3.6"	3.8"
	+/- 50 PSF	1879 LB/FT	300 LB/FT	X	X	X	X	X	X	X	X	X	5.3"	6.0"	3.7"	3.3"	3.4"
	+/- 60 PSF	2271 LB/FT	360 LB/FT	X	X	X	X	X	X	X	X	X	4.4"	5.0"	3.1"	2.7"	2.8"
	+/- 70 PSF	2659 LB/FT	420 LB/FT	X	X	X	X	X	X	X	X	X	3.8"	4.3"	2.6"	2.3"	2.4"
	+/- 80 PSF	3044 LB/FT	480 LB/FT	X	X	X	X	X	X	X	X	X	3.3"	3.8"	2.3"	2.0"	2.1"
	+/- 90 PSF	3426 LB/FT	540 LB/FT	X	X	X	X	X	X	X	X	X	2.9"	3.3"	2.0"	X	X
	+/- 100 PSF	3808 LB/FT	600 LB/FT	X	X	X	X	X	X	X	X	X	2.4"	2.7"	X	X	X
14.0 FT	+/- 30 PSF	1431 LB/FT	210 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.9"	4.3"	4.5"
	+/- 35 PSF	1681 LB/FT	245 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.2"	3.7"	3.9"
	+/- 40 PSF	1930 LB/FT	280 LB/FT	X	X	X	X	X	X	X	X	X	5.2"	5.9"	3.6"	3.2"	3.4"
	+/- 45 PSF	2178 LB/FT	315 LB/FT	X	X	X	X	X	X	X	X	X	4.6"	5.3"	3.2"	2.8"	3.0"
	+/- 50 PSF	2425 LB/FT	350 LB/FT	X	X	X	X	X	X	X	X	X	4.1"	4.7"	2.9"	2.5"	2.7"
	+/- 60 PSF	2915 LB/FT	420 LB/FT	X	X	X	X	X	X	X	X	X	3.4"	3.9"	2.4"	2.1"	2.2"
	+/- 70 PSF	3400 LB/FT	490 LB/FT	X	X	X	X	X	X	X	X	X	2.9"	3.4"	2.1"	X	X
	+/- 80 PSF	3880 LB/FT	560 LB/FT	X	X	X	X	X	X	X	X	X	2.6"	3.0"	X	X	X
	+/- 87 PSF	4188 LB/FT	606 LB/FT	X	X	X	X	X	X	X	X	X	2.4"	2.7"	X	X	X
	+/- 25 PSF	1481 LB/FT	200 LB/FT	X	X	X	X	X	X	X	X	X	6.0"	6.0"	4.8"	4.2"	4.4"
16.0 FT	+/- 30 PSF	1787 LB/FT	240 LB/FT	X	X	X	X	X	X	X	X	X	5.6"	6.0"	4.0"	3.5"	3.7"
	+/- 35 PSF	2091 LB/FT	280 LB/FT	X	X	X	X	X	X	X	X	X	4.8"	5.5"	3.4"	3.0"	3.1"
	+/- 40 PSF	2394 LB/FT	320 LB/FT	X	X	X	X	X	X	X	X	X	4.2"	4.8"	3.0"	2.6"	2.7"
	+/- 45 PSF	2695 LB/FT	360 LB/FT	X	X	X	X	X	X	X	X	X	3.7"	4.3"	2.6"	2.3"	2.4"
	+/- 50 PSF	2995 LB/FT	400 LB/FT	X	X	X	X	X	X	X	X	X	3.4"	3.8"	2.4"	2.1"	2.2"
	+/- 60 PSF	3589 LB/FT	480 LB/FT	X	X	X	X	X	X	X	X	X	2.8"	3.2"	X	X	X
	+/- 70 PSF	4176 LB/FT	560 LB/FT	X	X	X	X	X	X	X	X	X	2.4"	2.8"	X	X	X
	+/- 73 PSF	4350 LB/FT	584 LB/FT	X	X	X	X	X	X	X	X	X	2.3"	2.6"	X	X	X
	+/- 25 PSF	1792 LB/FT	225 LB/FT	X	X	X	X	X	X	X	X	X	5.6"	6.0"	4.0"	3.5"	3.7"
	+/- 30 PSF	2156 LB/FT	270 LB/FT	X	X	X	X	X	X	X	X	X	4.7"	5.4"	3.3"	2.9"	3.0"
18.0 FT	+/- 35 PSF	2518 LB/FT	315 LB/FT	X	X	X	X	X	X	X	X	X	4.0"	4.6"	2.8"	2.5"	2.6"
	+/- 40 PSF	2878 LB/FT	360 LB/FT	X	X	X	X	X	X	X	X	X	3.5"	4.0"	2.5"	2.2"	2.3"
	+/- 45 PSF	3236 LB/FT	405 LB/FT	X	X	X	X	X	X	X	X	X	3.1"	3.6"	2.2"	X	2.0"
	+/- 50 PSF	3591 LB/FT	450 LB/FT	X	X	X	X	X	X	X	X	X	2.8"	3.2"	X	X	X
	+/- 60 PSF	4260 LB/FT	536 LB/FT	X	X	X	X	X	X	X	X	X	2.4"	2.7"	X	X	X
	+/- 25 PSF	2144 LB/FT	252 LB/FT	X	X	X	X	X	X	X	X	X	4.7"	5.4"	3.3"	2.9"	3.1"
	+/- 30 PSF	2575 LB/FT	303 LB/FT	X	X	X	X	X	X	X	X	X	3.9"	4.5"	2.8"	2.4"	2.6"
	+/- 35 PSF	3002 LB/FT	353 LB/FT	X	X	X	X	X	X	X	X	X	3.4"	3.9"	2.4"	2.1"	2.2"
	+/- 40 PSF	3427 LB/FT	403 LB/FT	X	X	X	X	X	X	X	X	X	2.9"	3.4"	2.1"	X	X
	+/- 45 PSF	3854 LB/FT	460 LB/FT	X	X	X	X	X	X	X	X	X	2.5"	3.0"	1.8"	X	X



Jeffrey C. Friant, P.E.
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Digitally signed by Jeffrey C. Friant, P.E.
Date: 2023.11.03 12:05:57 -04'00'

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