

STORM CATCHER WIND ABATEMENT SCREEN SYSTEM

FOR USE INSIDE AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE

STORM CATCHER THERMAL AND OPTICAL PROPERTIES SUMMARY

STORM CATCHER SCREEN COLOR	BLACK	WHITE	GRAY	BONE	BROWN
VLT - VISUAL LIGHT TRANSMITTANCE	0.21	0.28	0.17	0.14	0.09
UVT - ULTRAVIOLET LIGHT TRAMSMITTANCE	0.12	0.14	0.12	0.06	0.07
SST - SOLAR SPECTRUM TRANSMITTANCE	0.13	0.30	0.16	0.18	0.09
VLR - VISUAL LIGHT REFLECTANCE	0.07	0.53	0.26	0.44	0.22
SSR - SOLAR SPECTRUM REFLECTANCE	0.04	0.46	0.19	0.42	0.17
SHGC - SOLAR HEAT GAIN COEFFICIENT	0.17	0.25	0.17	0.17	0.14
SHGC REDUCTION	78%	67%	78%	78%	82%

SHGC PROPERTIES TESTED TO: NFRC 201 - 2010 USING INTERIM STANDARD TEST METHOD WITH CALORIMETRY HOT BOX METHODS AND UTILIZING CLEAR, INSULATED GLASS.

OPTICAL PROPERTIES TESTED TO:
ASTM E 972 / ASTM E 1084 / ASHRAE 74 / NFRC 202

TESTING BY: ARCHITECTURAL TESTING, INC., FRESNO, CA
WHAT IS SHGC?

A SIMPLE WAY TO EXPLAIN SHGC IS IN TERMS OF A RATIO; WHERE 1 IS THE MAXIMUM AMOUNT OF SOLAR HEAT GAIN THAT CAN COME THROUGH A WINDOW AND 0 IS THE LEAST AMOUNT. AN SHGC OF 0.25 THEN MEANS THAT 25% OF THE AVAILABLE SOLAR HEAT IS COMING THROUGH THE WINDOW.

WHAT IS VLT?

VLT MEASURES HOW MUCH LIGHT COMES THROUGH A PRODUCT. VLT IS EXPRESSED AS A NUMBER BETWEEN 0 AND 1. THE HIGHER THE VT NUMBER, THE HIGHER THE POTENTIAL FOR DAYLIGHTING.

EVALUATION BASED ON:

FENESTRATION TESTING LABORATORY, INC.

LAB. No.	8441	LAB. No.	7590
PROJECT No.	15-5893	PROJECT No.	13-4387
		FILE No.	13-890
LAB. No.	8440	LAB. No.	9695
PROJECT No.	15-5892	PROJECT No.	17-7199
LAB. No.	7561	LAB. No.	9818
PROJECT No.	13-4387	PROJECT No.	17-7449
FILE No.	13-890		
LAB. No.	6026	LAB. No.	9834
PROJECT No.	09-1664	PROJECT No.	17-7543
FILE No.	09-665		
LAB. No.	9836	LAB. No.	9835
PROJECT No.	17-7543	PROJECT No.	17-7449
LAB. No.	9742	LAB. No.	9765
PROJECT No.	17-7199	PROJECT No.	17-7449
LAB. No.	9833	LAB. No.	9647
PROJECT No.	17-7543	PROJECT No.	17-7199
LAB. No.	10348	LAB. No.	10347
PROJECT No.	18-8274	PROJECT No.	18-8274
Test Report No.	12326		
PROJECT No.	20-2158		

FIRE RATING:

HETI (HURRICANE ENGINEERING & TESTING, INC.) SCREEN MATERIAL PASSED THE SELF-IGNITION, BURN RATE, REPORT NO. 17-F301, 17-F302, 17-F303, 17-F304, & 17-F305 EXTENT OF BURN AND SMAKE DENSITY TESTING LISTED HEREIN

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REFER TO TABLES
FOR ALLOWABLE
DESIGN PRESSURES

BUCKLE SPECIFICATIONS:

PATTERN: SPIKE TEETH GRIP
WIDTH/DIAMETER: 2.5" +/- 0.10"
THICKNESS: 0.050" +/- 0.010"
MATERIAL: ACETAL

STRAP SPECIFICATIONS:

PATTERN: X100-1000
WIDTH/DIAMETER: 1.875" +/- 0.063"
THICKNESS: 0.050" +/- 0.010"
AVERAGE BREAK STRENGTH: 6000 LBS
MATERIAL: POLYESTER

SEWING:

T138 POLYESTER THREAD (FOR ALL SPANS @ +/- 130PSF) 2400/2640 PTFE THREAD (FOR SPANS UP TO 16' & +/- 130PSF) GENERIC OR EQUIVALENT; SEE STITCHING DETAILS ON SHEET 2.

GENERAL NOTES

- THE SYSTEM DESCRIBED HEREIN HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE CURRENT FLORIDA BUILDING CODE ND THE CURRENT INTERNATIONAL BUILDING CODE, FOR USE WITHIN AND OUTSIDE THE HIGH VELOCITY HURRICANE ZONE PER ASTM E330, E1996, E1886, AND M-D TAS 201, 202, 203 TESTING STANDARDS.
- 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.
- NO 33-1/3% INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS SYSTEM. WIND LOAD DURATION FACTOR Cd = 1.6 HAS BEEN USED FOR WOOD ANCHOR DESIGN.
- POSITIVE AND NEGATIVE DESIGN PRESSURES CALCULATED FOR THE USE WITH THIS SYSTEM SHALL BE DETERMINED PER SEPERATE ENGINEERING IN ACCORDANCE WITH THE GOVERNING CODE. PRESSURE REQUIREMENTS 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.
- THE SYSTEM DETAILED HEREIN IS GENERIC AND DOES NOT PROVIDE INFORMATION FOR A SPECIFIC SITE INSTALLATION. 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.
- THIS PRODUCT IS CLASSIFIED AS NON-POROUS, HAVING A POROSITY OF LESS THAN 10%. FOR THE CONDITIONS SHOWN IN THIS PRODUCT EVALUATION DOCUMENT, SCREEN PANELS MUST COMPLETELY COVER AN OPENING IN ALL DIRECTIONS TO MEET BUILDING ENVELOPE REQUIREMENTS.
- PERMIT HOLDER SHALL VERIFY THE ADEQUACY OF THE EXISTING STRUCTURE TO WITHSTAND SUPERIMPOSED LOADS.
- MAXIMUM SPANS AND DESIGN PRESSURES:
 - SLIDE TRACK AND STRAP/BUCKLE: 1-16FT SPAN = 130PSF DESIGN PRESSURE AND > 16 - 26FT MAX. SPAN = 60PSF DESIGN PRESSURE
 - ROLL DOWN TRACKS: 1-16FT SPAN = 130PSF DESIGN PRESSURE AND > 16 - 34FT MAX. SPAN = 60PSF DESIGN PRESSURE
 - GROMMETS: 192" MAX. SPAN = 60PSF DESIGN PRESSURE
- MAXIMUM ALLOWABLE DESIGN PRESSURE: SEE 9.1, 9.2, & 9.3 ABOVE.
- PANELS SHALL BE PERMANENTLY LABELED WITH MINIMUM OF ONE LABEL PER PANEL CONTAINING THE FOLLOWING MINIMUM INFORMATION:
STORM SMART INDUSTRIES, INC.
6182 IDLEWILD STREET, FORT MYERS, FL, 33966
FL PRODUCT APPROVAL NO. FL11291
OPENING NO. #
- HURRICANE FABRIC PANELS MAY BE MOUNTED VERTICALLY OR HORIZONTALLY AS APPLICABLE. ALL SCREENS ARE ALLOWABLE FOR TWO OPPOSITE SIDE ATTACHMENTS WITH NO DEFLECTION REQUIREMENTS UNLESS INSTALLED IN THE HVHZ, ZONE 4, MIAMI-DADE REGIONS THEN DEFLECTION VALUES ARE ENFORCED. SEE DEFLECTION TABLE FOR SPECIFIC DEFLECTION VALUES.
- EXCEPT AS EXPRESSLY PROVIDED HEREIN, NO ADDITIONAL CERTIFICATIONS OR AFFIRMATIONS ARE INTENDED.
- ALL ALUMINUM EXTRUSIONS SHALL BE 6063-T6, U.N.O.

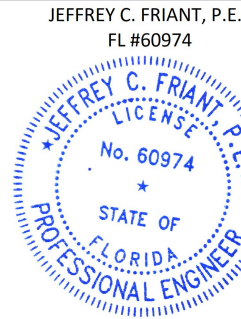
HURRICANE BARRIER

POLYPROPYLENE MONOFILAMENT WOVEN INTO BASKET WEAVE DESIGN:
BLACK, WHITE, BROWN (BLK & TAN),
BONE (WHT & TAN), GRAY (BLK & WHT)

MECHANICAL PROPERTIES	TEST METHOD	UNIT	TYPICAL ROLL VALUE	
			MD	CD
GRAB TENSILE STRENGTH	ASTM D4632	LBS	500	550
TRAPEZOID TEAR STRENGTH	ASTM D4533	LBS	200	250
MULLEN BURST	ASTM D3786	PSI	750	
PUNCTURE STRENGTH	ASTM D4833	LBS	200	
AIR FLOW	ASTM D737	CFM	175	
PERCENT OPEN AREA	COE-02215	%	5	
UV RESISTANCE (QUV)	ASTM G154	% STRENGTH RETAINED	70	

¹Percent Open Area is a MARV.

PHYSICAL PROPERTIES	TEST METHOD	UNIT	TYPICAL VALUE
WEIGHT	ASTM D5261	OZ/YD ²	9.7
THICKNESS	ASTM D5199	MIL	21
CONSTRUCTION		EPI/PPI	60 X 63
FIBER CONTENT			100% PP



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STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DATE

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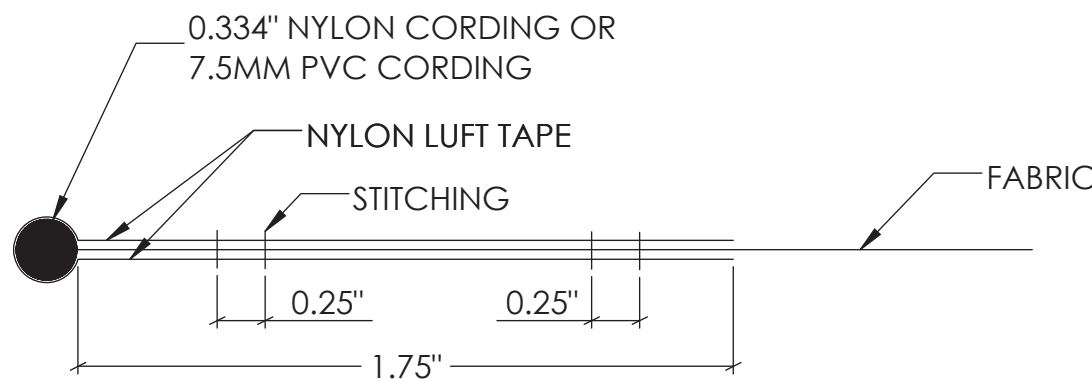
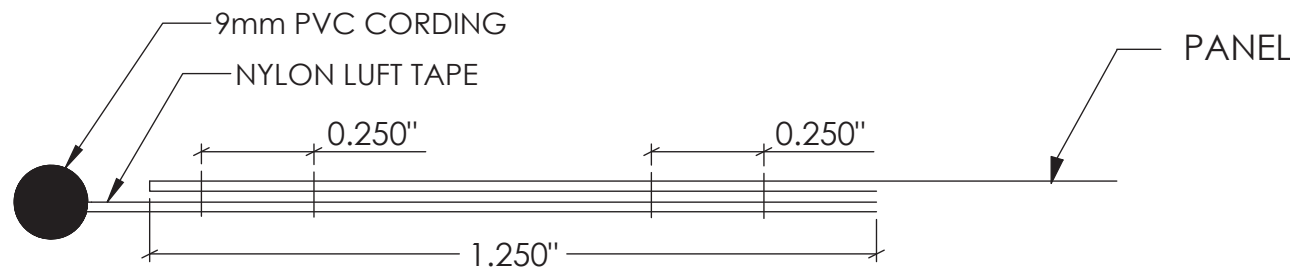
STITCHING - DETAILS

SPAN DIRECTION - SCALE: N.T.S.

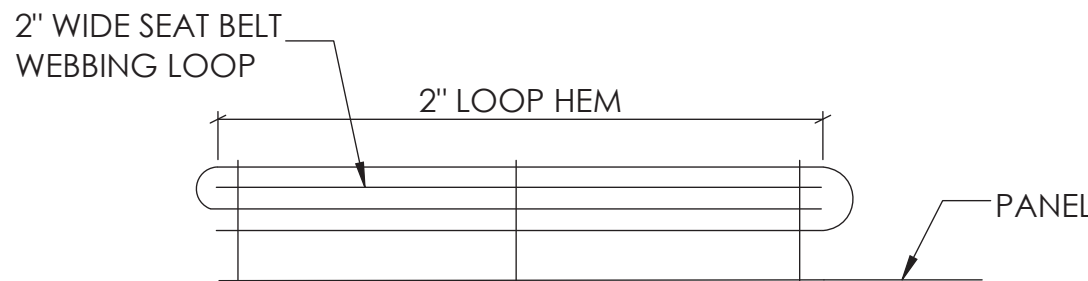
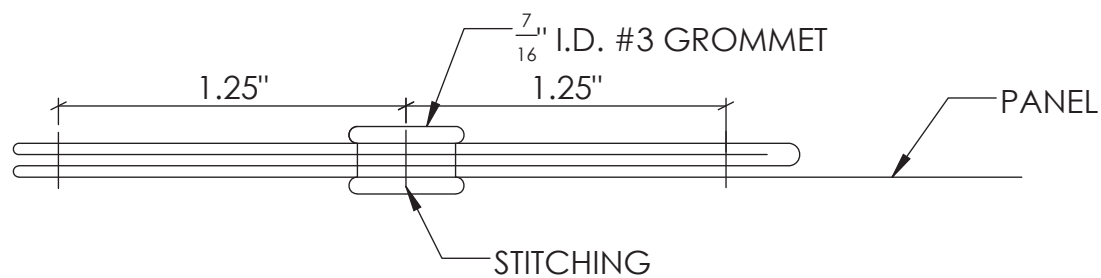
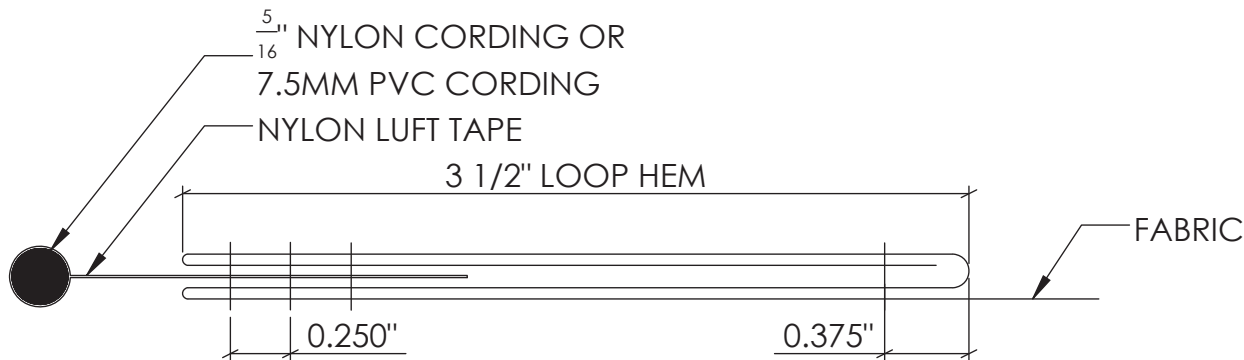
A MINIMUM OF 3 ROWS OF STITCHING IS REQUIRED FOR SPAN DIRECTION EDGES.

DISTANCE BETWEEN ROWS OF STITCHING MAY VARY. STITCH PATTERNS DISPLAY REQUIRED NUMBER OF STITCH ROWS SHOWN, MINIMUM.

STANDARD ROLLING SCREEN HEM:

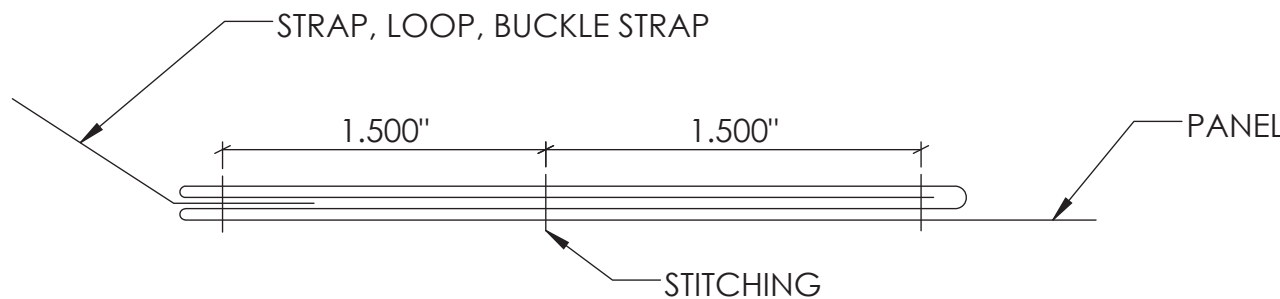


STRUCTURAL HEMS



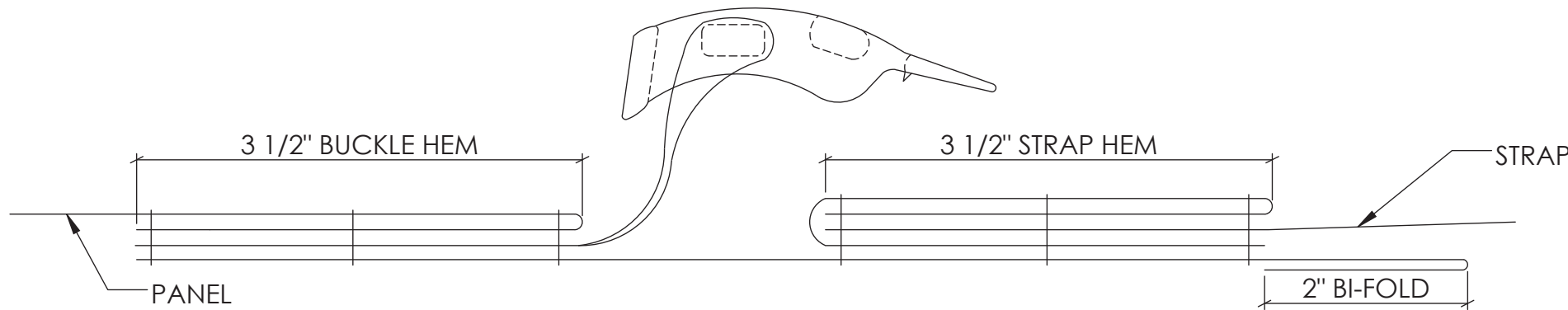
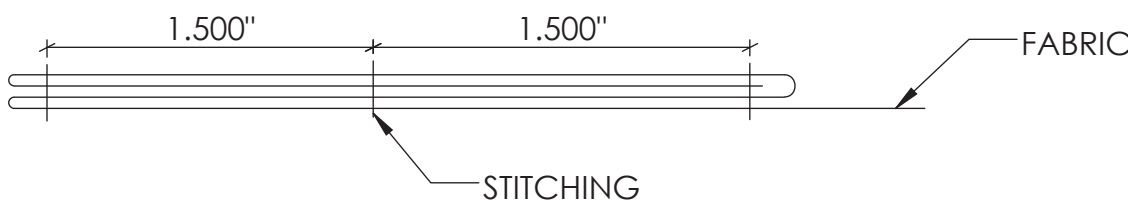
ALTERNATE FIXED STRAP/LOOP SECTIONAL DETAIL

STRUCTURAL ATTACHMENT FOR LOOP:
(3) ROWS STITCHING & BOX STITCH



FIXED STRAP/LOOP DETAIL

STRUCTURAL ATTACHMENT FOR LOOP:
(3) ROWS STITCHING & BOX STITCH



STRUCTURAL ATTACHMENT FOR STRAP & BUCKLE:
(3) ROWS STITCHING MIN. & BOX STITCH @ EACH HEM

APPROVED EDGES



SPAN DIRECTION EDGE: NO HEM



SPAN DIRECTION HEM: 2 ROWS OF STITCHING

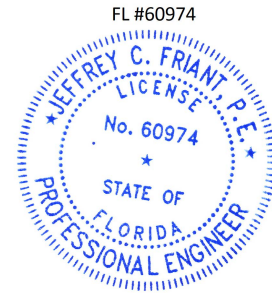


BI-FOLD W/ DOUBLE STITCHING

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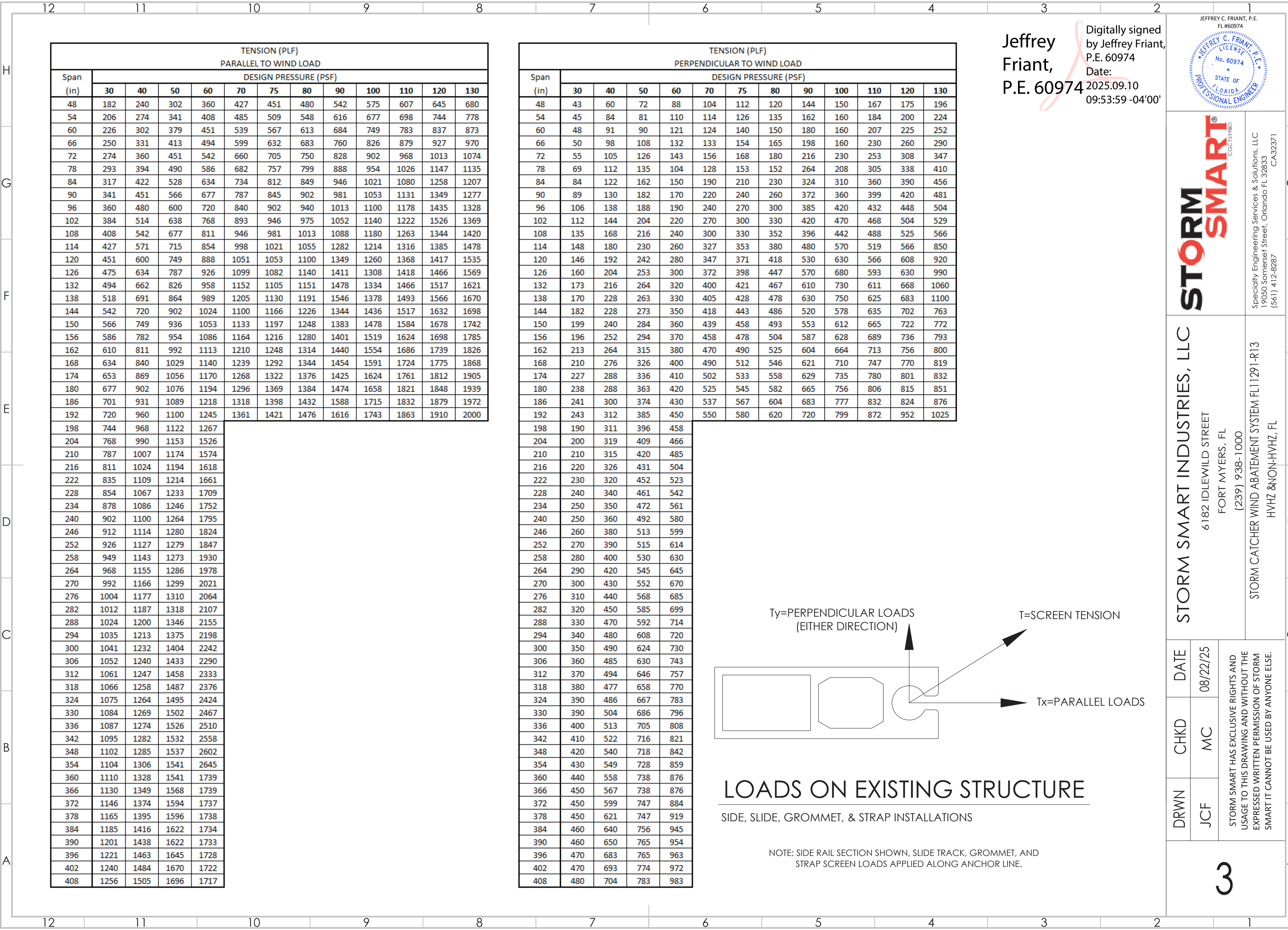
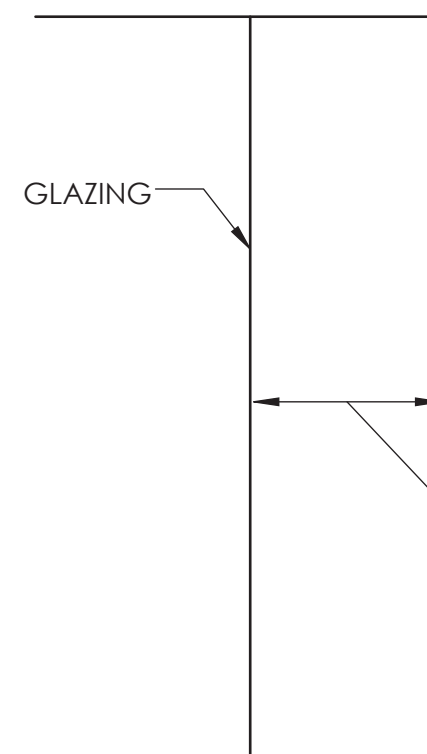


TABLE 3

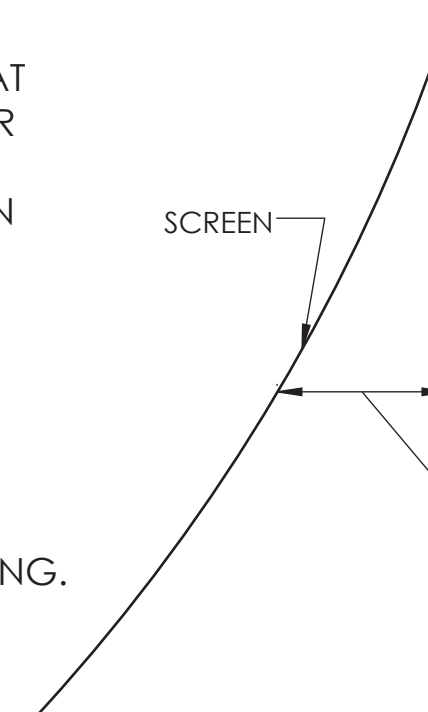
MINIMUM SEPERATION FROM GLASS (inches)
ADD 1" FOR MIAMI-DADE HVHZ

Span (in)	DESIGN PRESSURE (PSF)											
	30	40	50	60	70	75	80	90	100	110	120	130
48	3.0	3.1	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.9	4.0	4.1
54	3.0	3.1	3.2	3.3	3.5	3.5	3.6	3.7	3.8	3.9	4.0	4.1
60	3.0	3.1	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.9	4.0	4.1
66	3.0	3.1	3.3	3.4	3.5	3.5	3.6	3.7	3.8	3.9	4.1	4.2
72	3.0	3.1	3.3	3.4	3.5	3.6	3.6	3.7	3.9	4.0	4.4	4.8
78	3.4	3.6	3.9	4.1	4.3	4.4	4.5	4.7	4.9	5.1	5.3	6.0
84	3.9	4.2	4.5	4.7	5.0	5.2	5.3	5.6	5.9	6.2	6.5	7.1
90	4.3	4.7	5.1	5.4	5.8	6.0	6.2	6.6	7.0	7.4	7.7	8.2
96	4.7	5.2	5.7	6.1	6.6	6.8	7.1	7.5	8.0	8.5	9.0	9.3
102	5.1	5.7	6.3	6.8	7.4	7.7	7.9	8.5	9.1	9.6	10.2	10.5
108	5.6	6.2	6.9	7.5	8.1	8.5	8.8	9.4	10.1	10.7	11.4	11.6
114	6.0	6.7	7.5	8.2	8.9	9.3	9.7	10.4	11.1	11.9	12.6	12.7
120	6.4	7.2	8.1	8.9	9.7	10.1	10.5	11.3	12.2	13.0	13.8	13.8
126	6.8	7.7	8.7	9.6	10.5	10.9	11.4	12.3	13.2	14.1	15.0	15.0
132	7.3	8.3	9.3	10.3	11.3	11.8	12.3	13.3	14.3	15.3	16.3	16.1
138	7.7	8.7	9.7	10.7	11.7	12.2	12.7	13.7	14.7	15.7	16.7	16.6
144	8.1	9.1	10.1	11.1	12.1	12.6	13.1	14.1	15.1	16.1	17.1	17.1
150	8.5	9.5	10.5	11.5	12.5	13.0	13.5	14.5	15.5	16.5	17.5	17.7
156	8.9	9.9	10.9	11.9	12.9	13.4	13.9	14.9	15.9	16.9	17.9	18.2
162	9.3	10.3	11.3	12.3	13.3	13.8	14.3	15.3	16.3	17.3	18.3	18.7
168	9.7	10.7	11.7	12.7	13.7	14.2	14.7	15.7	16.7	17.7	18.7	19.3
174	10.1	11.1	12.1	13.1	14.1	14.6	15.1	16.1	17.1	18.1	19.1	19.8
180	10.5	11.5	12.5	13.5	14.5	15.0	15.5	16.5	17.5	18.5	19.5	20.3
186	10.9	11.9	12.9	13.9	14.9	15.4	15.9	16.9	17.9	18.9	19.9	20.9
192	11.3	12.3	13.3	14.3	15.3	15.8	16.3	17.3	18.3	19.3	22.2	24.9
198	11.9	12.9	13.9	14.9								
204	12.5	13.5	14.6	15.6								
210	13.1	14.1	15.2	16.3								
216	13.7	14.8	15.9	17.0								
222	14.3	15.4	16.5	17.6								
228	14.9	16.0	17.2	18.3								
234	15.5	16.7	17.8	19.0								
240	16.1	17.3	18.5	19.7								
246	16.7	17.9	19.1	20.4								
252	17.3	18.6	19.8	21.0								
258	17.9	19.2	20.5	21.7								
264	18.5	19.8	21.1	22.4								
270	19.1	20.5	21.8	23.1								
276	19.8	21.1	22.4	23.8								
282	20.4	21.7	23.1	24.4								
288	21.0	22.3	23.7	25.1								
294	21.6	23.0	24.4	25.8								
300	22.2	23.6	25.0	26.5								
306	22.8	24.2	25.7	27.1								
312	23.4	24.9	26.3	27.8								
318	24.0	25.5	27.0	28.5								
324	24.6	26.1	27.7	29.2								
330	25.2	26.8	28.3	29.9								
336	25.8	27.4	29.0	30.5								
342	26.4	28.0	29.6	31.2								
348	27.0	28.7	30.3	31.9								
354	27.6	29.3	30.9	32.6								
360	28.3	29.9	31.6	33.3								
366	28.5	30.2	31.9	33.5								
372	28.8	30.5	32.1	33.7								
378	29.1	30.7	32.3	34.0								
384	29.4	31.0	32.6	34.2								
390	29.7	31.3	32.8	34.4								
396	30.0	31.5	33.1	34.6								
402	30.3	31.8	33.3	34.8								
408	30.5	32.0	33.6	35.0								



DEFLECTION DIAGRAM

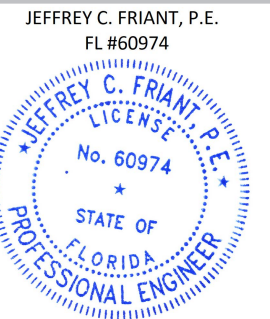
NOTE: INSTALLATIONS OUTSIDE OF THE HVHZ THAT ARE NOT WIND ZONE 4 OR ESSENTIAL FACILITIES DO NOT REQUIRE SEPERATION FROM GLAZING.



DEFLECTION DIAGRAM

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HVHZ &NON-HVHZ, FL

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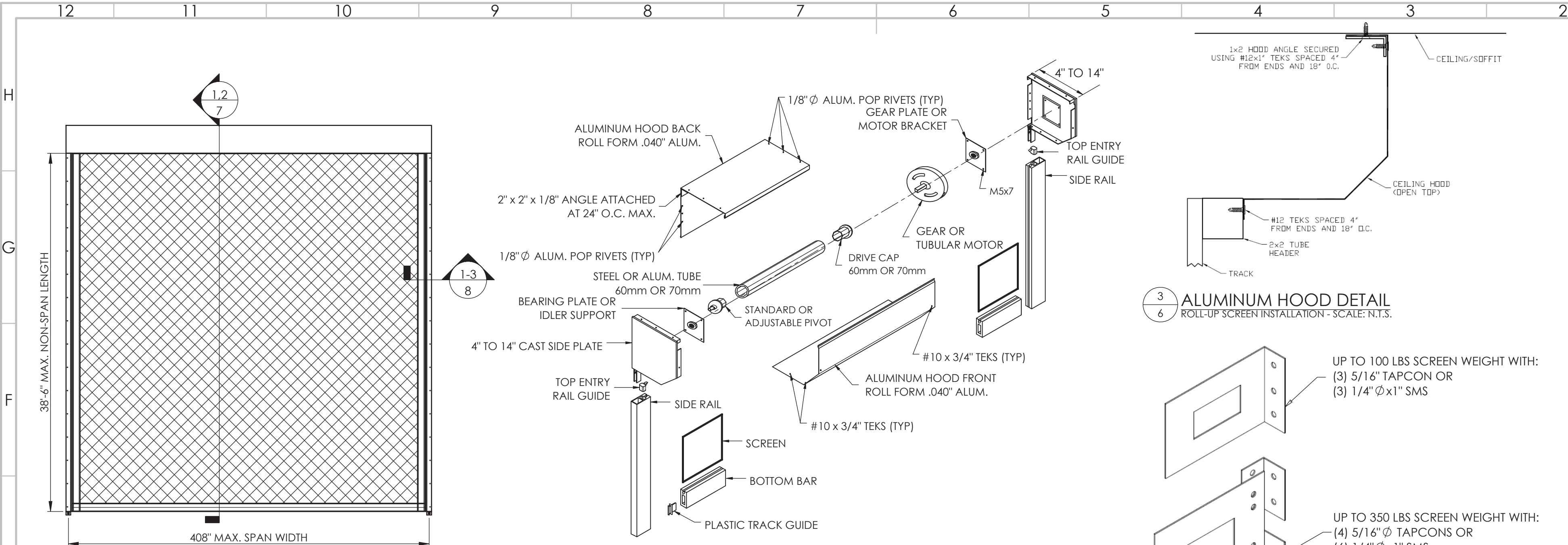
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STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ & NON-HVHZ, FL

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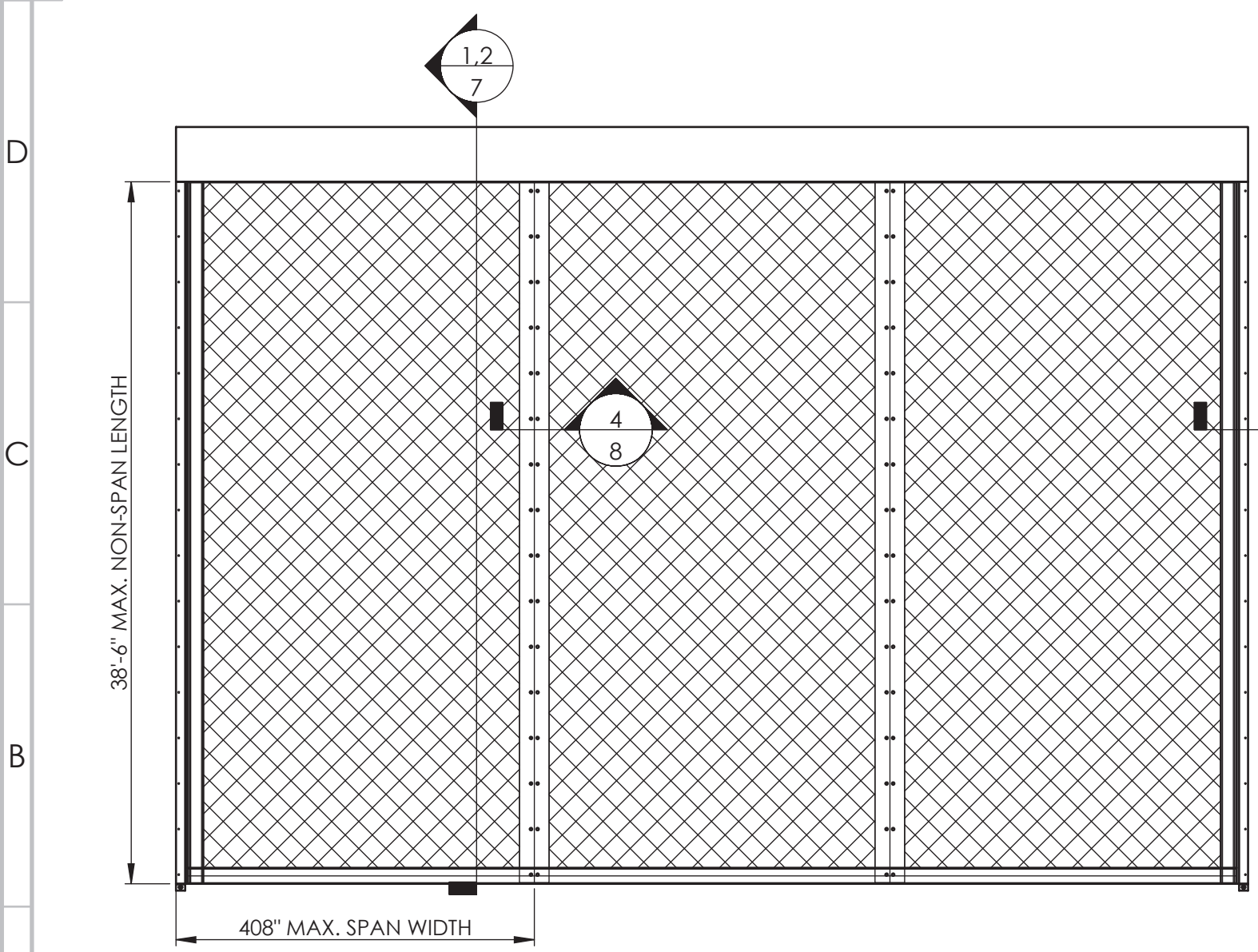


1
6 ROLL-UP SCREEN SINGLE PANEL - ELEVATION
TYPICAL SINGLE SPAN UP TO 34'-0" INSTALLATION - N.T.S.

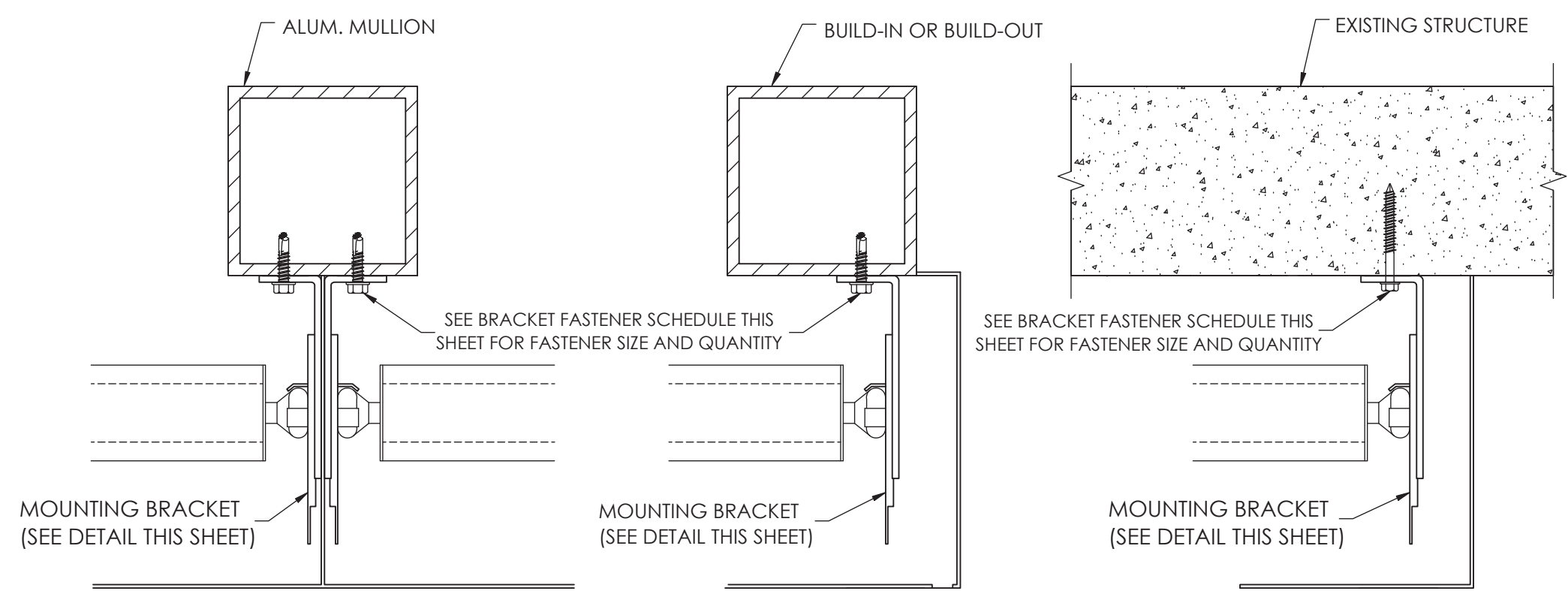
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6 ROLL-UP COMPONENTS AND END CAP ASSEMBLY DETAIL
ROLL-UP SCREEN INSTALLATION - N.T.S.

3
6 ALUMINUM HOOD DETAIL
ROLL-UP SCREEN INSTALLATION - SCALE: N.T.S.

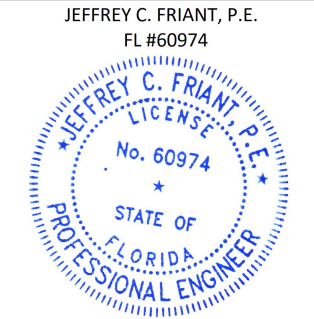
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6 MOUNTING BRACKET SHAPES
ROLL-UP SCREEN INSTALLATIONS - N.T.S.



5
6 ROLL-UP SCREEN MULTIPLE UNIT - ELEVATION
APPROVED INTERMEDIATE MULLION REQUIRED FOR INSTALLATION - N.T.S.



6
6 MOUNTING BRACKET INSTALLATION
ROLL-UP SCREEN - N.T.S.

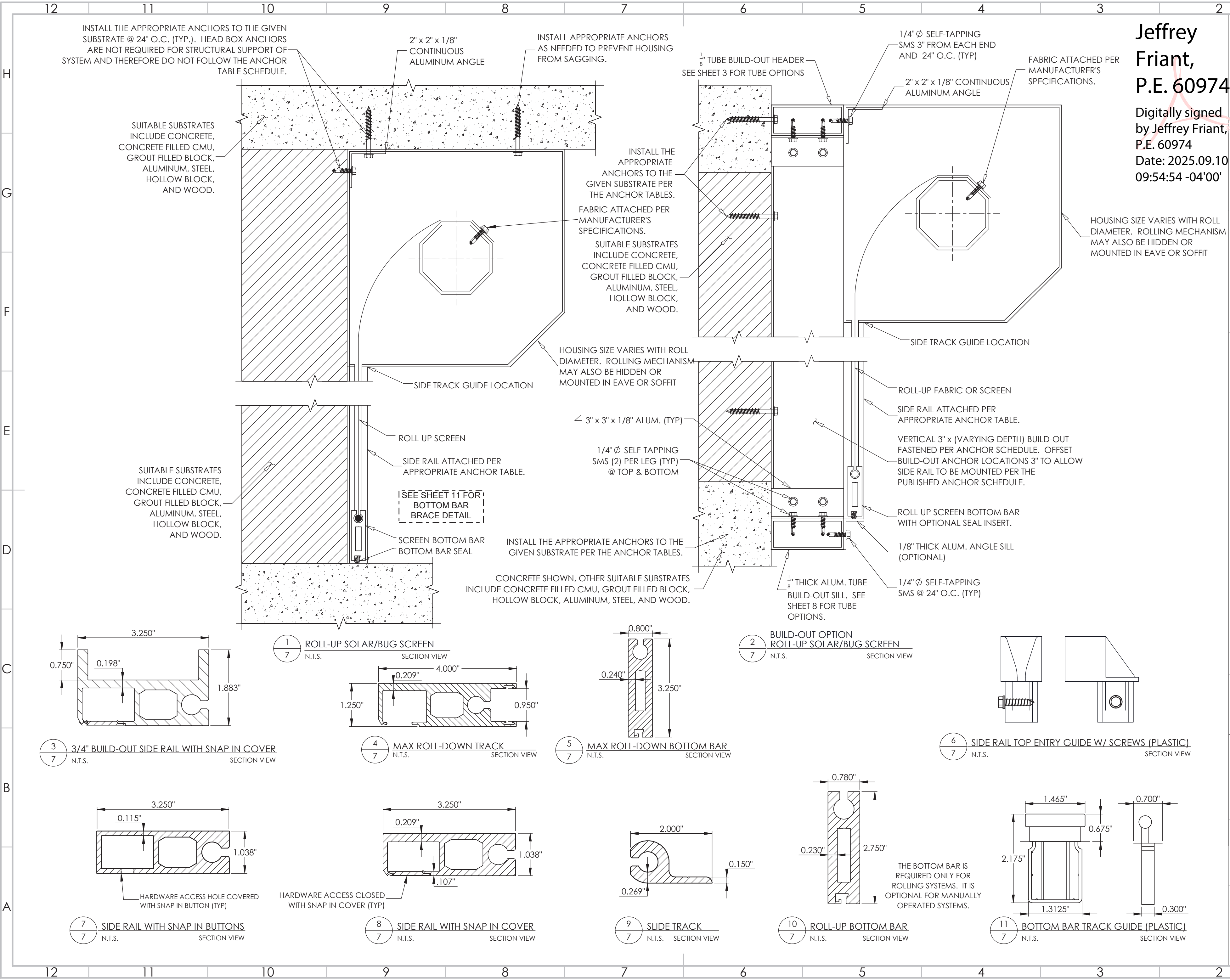


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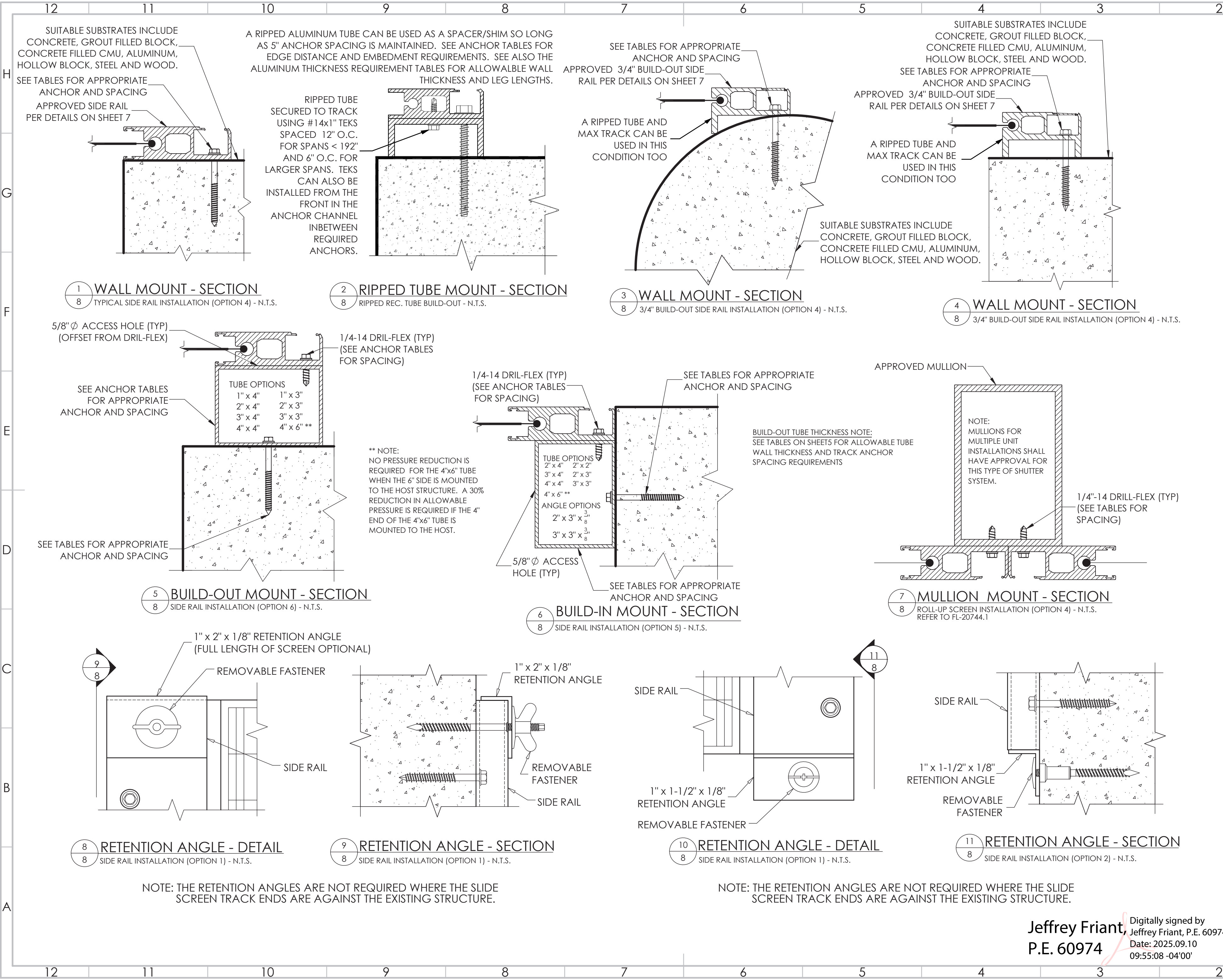
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(561) 412-8287
CA32371

STORM SMART INDUSTRIES, LLC
6182 IDLEWILD STREET
FORT MYERS, FL
(239) 938-1000

STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DRWN	CHKD	DATE
JCF	MC	08/22/25

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FL #60974

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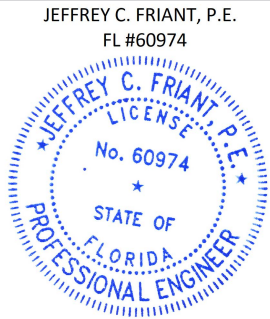
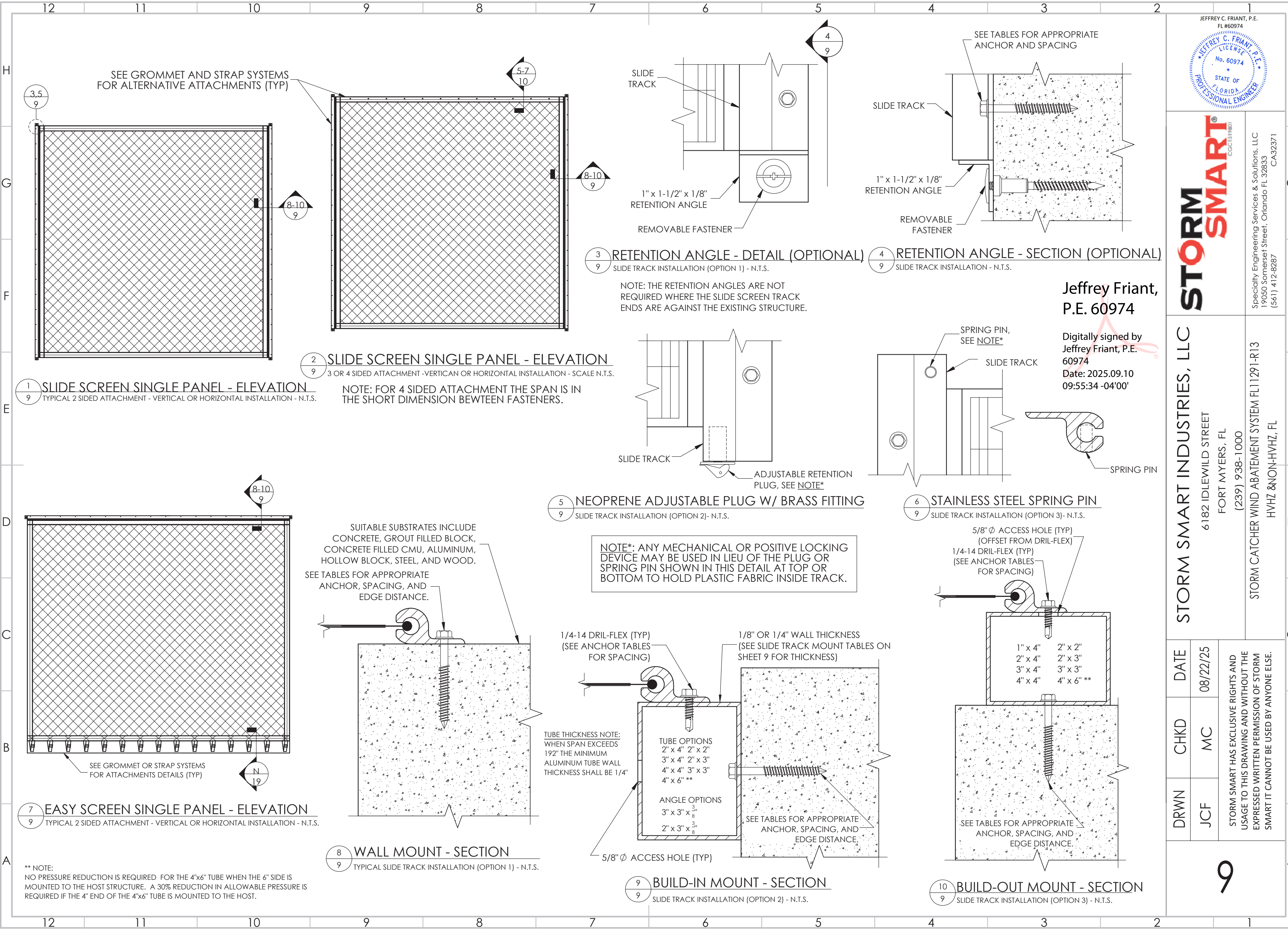
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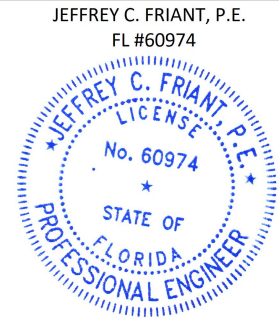
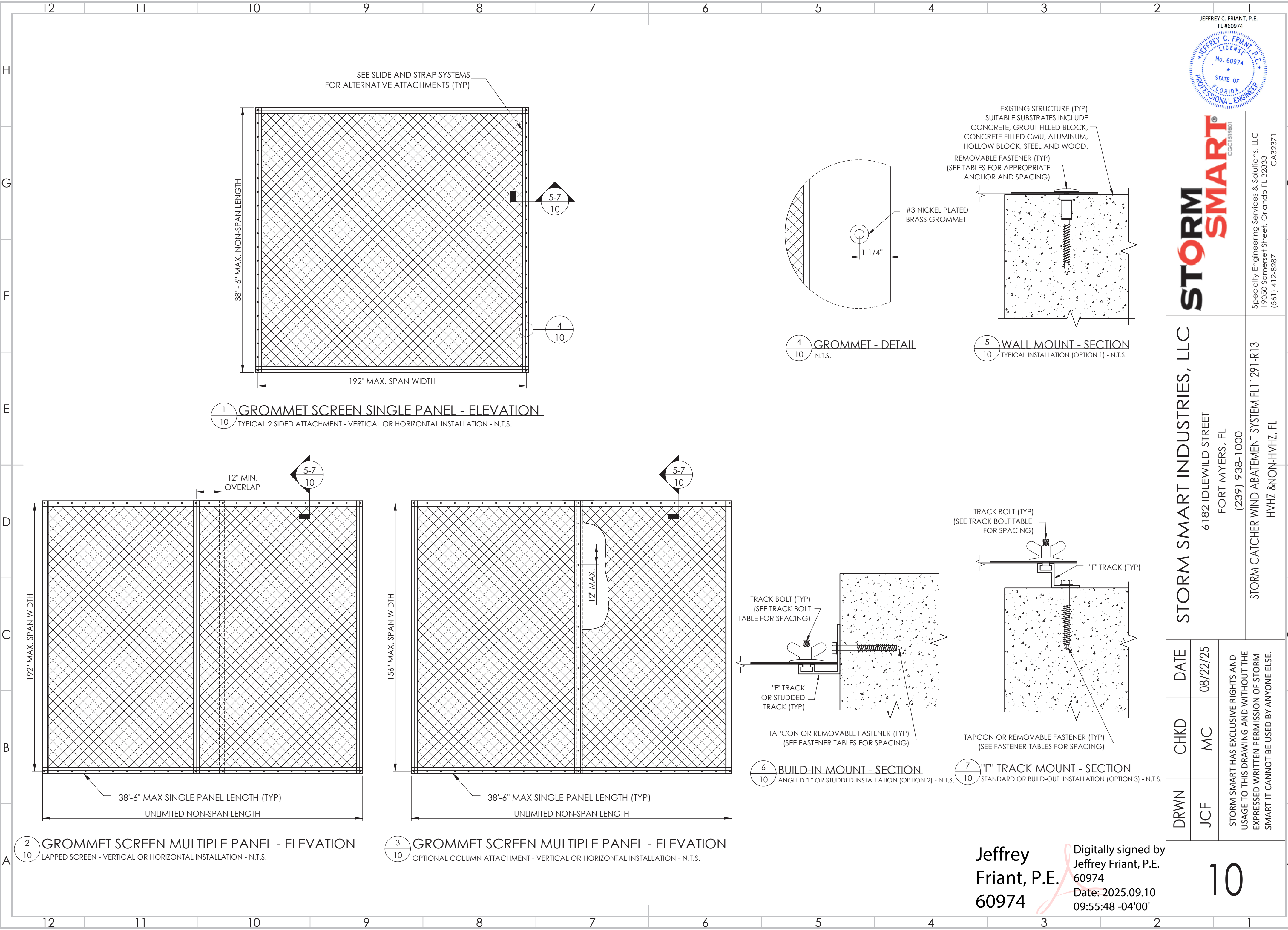
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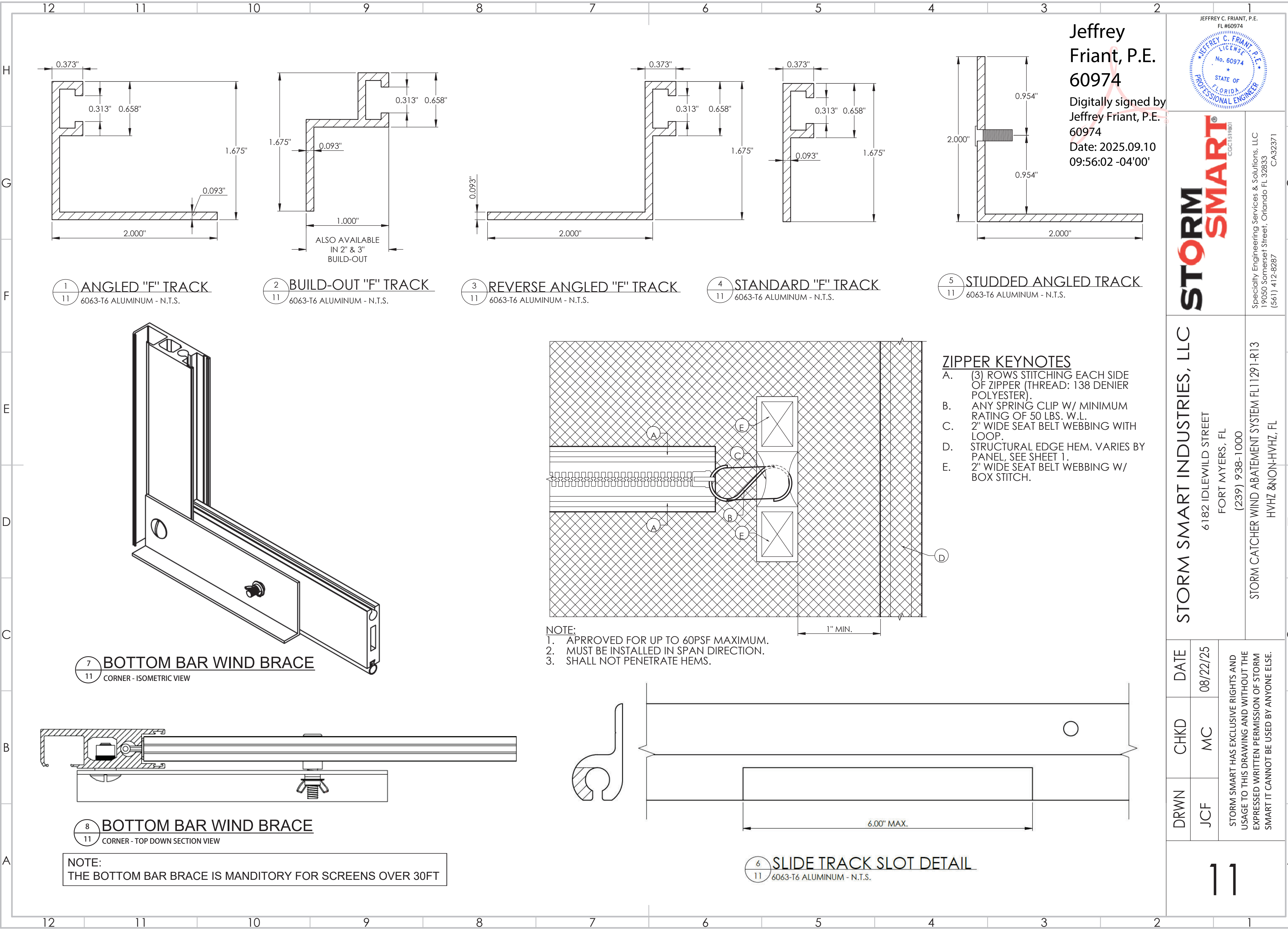
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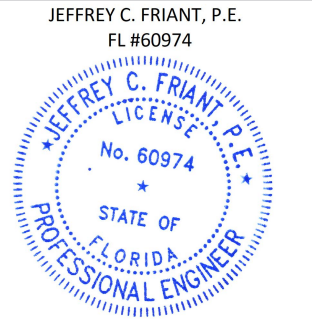
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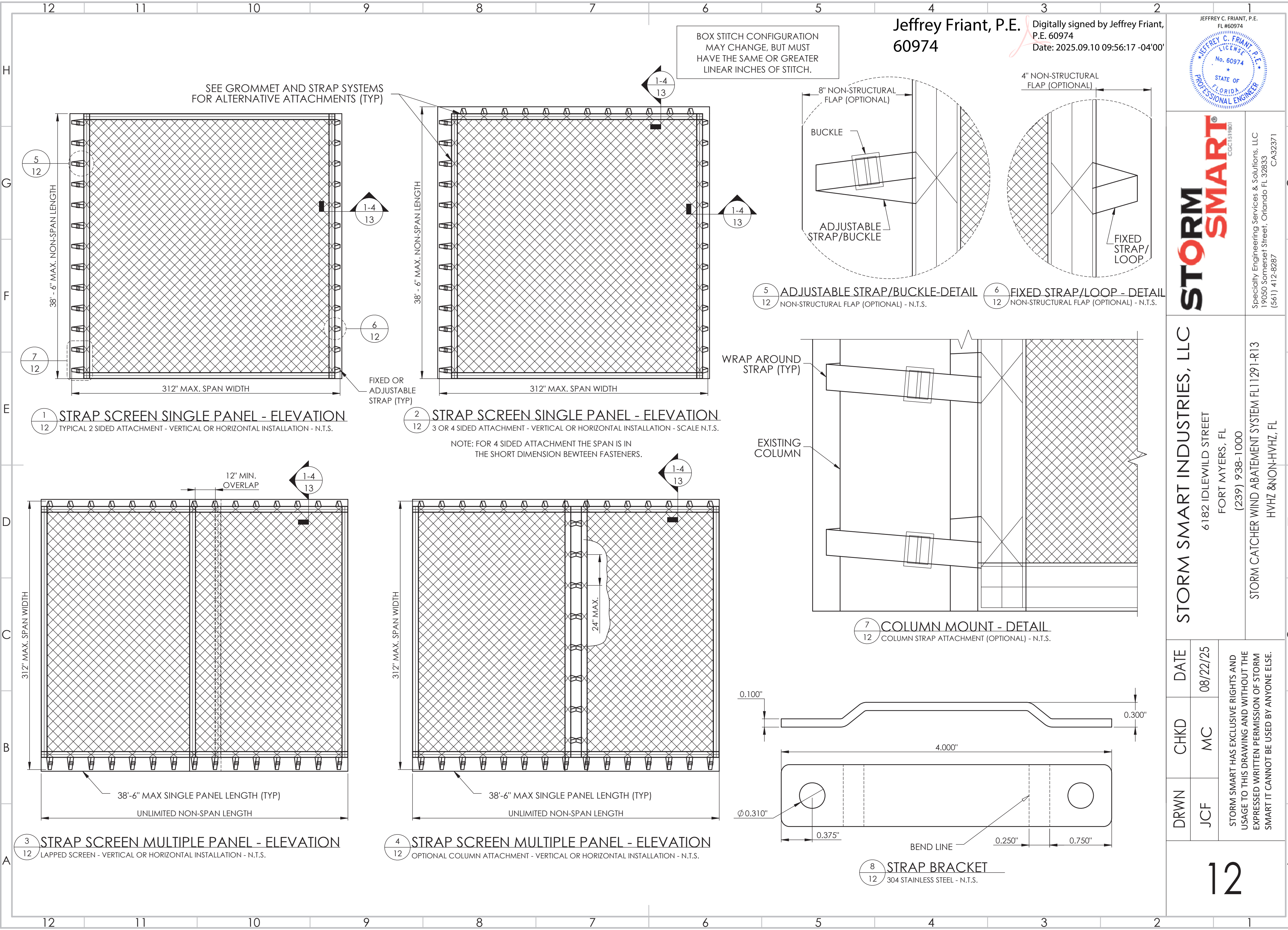
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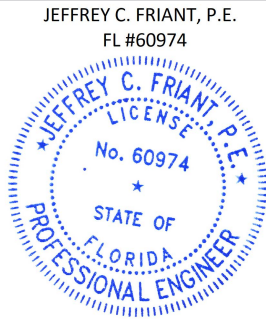
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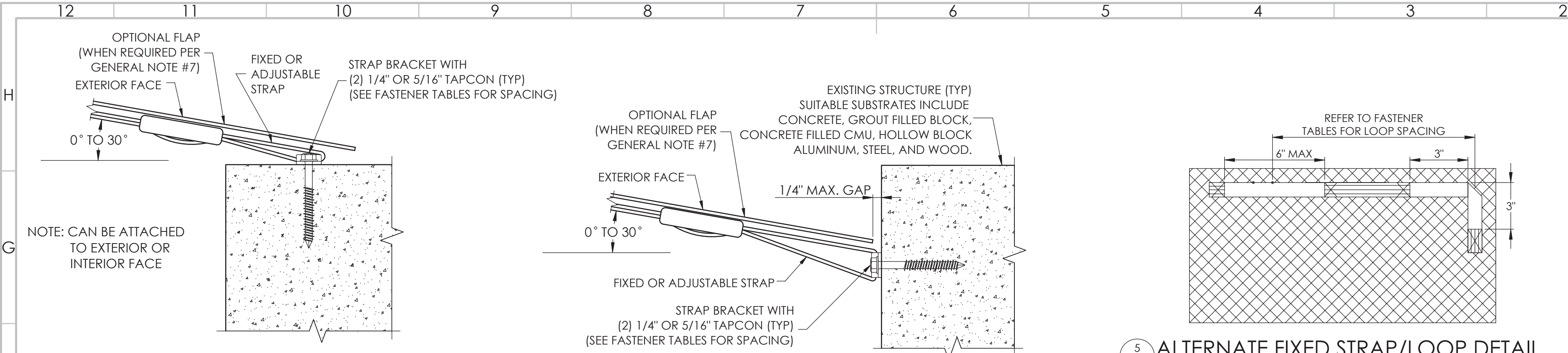
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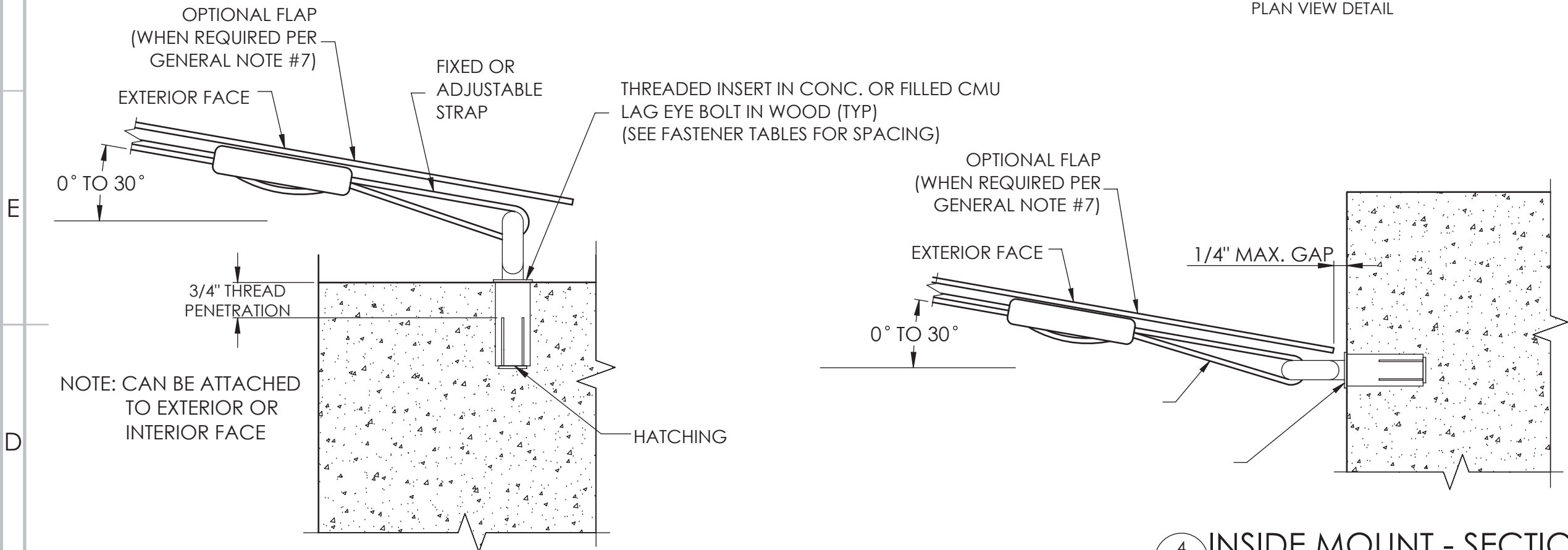
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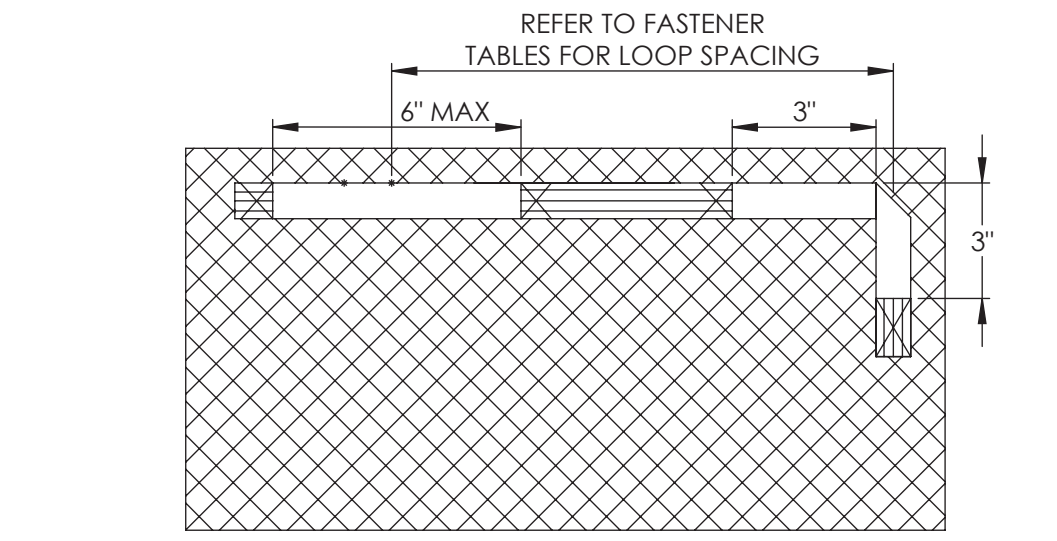
1 OUTSIDE MOUNT - SECTION
13 STRAP BRACKET INSTALLATION (OPTION 1) - N.T.S. PLAN VIEW DETAIL

2 INSIDE MOUNT - SECTION
13 STRAP BRACKET INSTALLATION (OPTION 2) - N.T.S. PLAN VIEW DETAIL

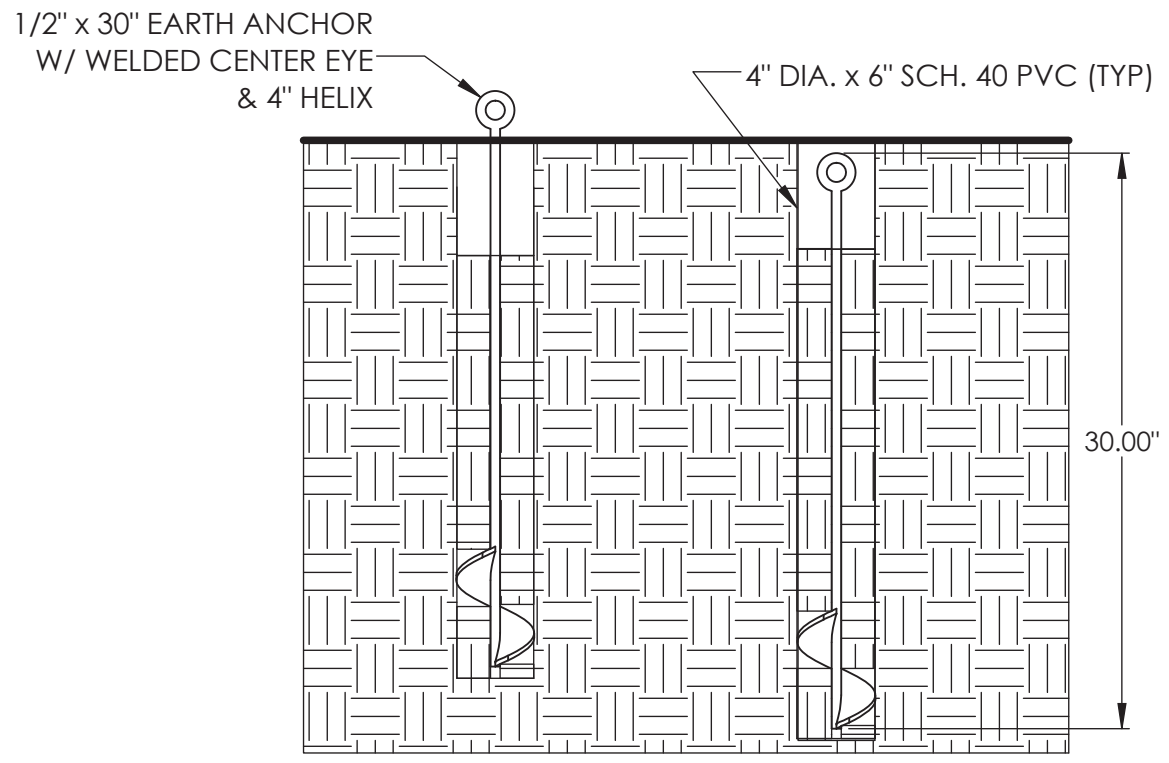


3 OUTSIDE MOUNT - SECTION
13 EYE BOLT INSTALLATION (OPTION 3) - N.T.S. PLAN VIEW DETAIL

4 INSIDE MOUNT - SECTION
13 EYE BOLT INSTALLATION (OPTION 4) - N.T.S. PLAN VIEW DETAIL



5 ALTERNATE FIXED STRAP/LOOP DETAIL
13 STRUCTURAL ATTACHMENT FOR LOOP - N.T.S.:
(3) ROWS STITCHING & BOX STITCH



6 EARTH ANCHOR DETAIL
13 EARTH ANCHOR INSTALLATION - N.T.S. SOIL CLASS 4A MEDIUM DENSE SAND

	POURED CONCRETE (MIN. 3 KSI)		GROUT FILLED CELLS		HOLLOW BLOCK		WOOD (MIN S.G. ≥ .55)		CONCRETE FILLED REINFORCED CELLS	
ANCHOR	MIN. EDGE	MIN. EMB.	MIN. EDGE	MIN. EMB.	MIN. EDGE	MIN. EMB.	MIN. EDGE	MIN. EMB.	MIN. EDGE	MIN. EMB.
1/4" TAPCON	3"	1-3/4"	3"	1-3/4"	3"	1-1/4"	3/4"	1-3/4"	N/A	N/A
3/8" DROP IN	4"	1-9/16"	4"	1-9/16"	N/A	N/A	N/A	N/A	N/A	N/A
1/2" DROP IN	6"	2"	7"	2"	N/A	N/A	N/A	N/A	6"	5-1/4"
5/16" Ultracon	3-1/8"	1-3/4"	2-1/2"	2-1/4"	3-1/8"	1-1/4"	3/4"	1-1/2"	6"	5-1/4"
5/16" SOLID SET	3"	1-3/4"	3"	1-3/4"	3"	1-1/4"	-	-	6"	5-1/4"
5/16" SOLID SET	3"	2-1/4"	3"	2-1/4"	3"	1-3/4"	-	-	6"	5-1/4"
1/4" SOLID SET	1-1/4"	1-3/4"	1-1/4"	1-3/4"	1-1/4"	1-1/4"	3/4"	1-1/2"	-	-
1/4" SOLID SET	3"	1-3/4"	3"	1-3/4"	3"	1-1/4"	3/4"	1-1/2"	-	-
3/8" LDT	3"	2-1/2"	3"	1-1/2"	N/A	N/A	N/A	N/A	6"	5-1/4"
3/8" EPOXY ANCHORS	4"	3-3/8"	4"	3-3/4"	12"	3-3/4"	N/A	N/A	6"	5-1/4"
3/8" HOLLOW SET	4-1/2"	1-1/2"	N/A	N/A	4"	1-1/4"	N/A	N/A	N/A	N/A
3/8" Combo Anchor (LAG)	N/A	N/A	N/A	N/A	N/A	N/A	3/4"	2-1/2"	N/A	N/A
1/2" Combo Anchor (LAG)	N/A	N/A	N/A	N/A	N/A	N/A	3/4"	2-1/2"	N/A	N/A
1/4" PANELMATE INSERTS*	4" *	1-5/8" *	3-1/2"	1-1/2"	3-1/2"	1-1/4"	3/4"	1-3/4"	N/A	N/A
1/4" PANELMATE FEMALE	2-1/2"	1-3/4"	2-1/2"	1-1/8"	2-1/2"	1-1/8"	3/4"	2"	N/A	N/A
1/4" PANELMATE MALE	2-1/2"	1-3/4"	2-1/2"	1-1/8"	2-1/2"	1-1/8"	3/4"	2"	N/A	N/A

* 2700 KSI

	1/8" Alum		1/4" Aluminum		16 GA Steel		1/8" Steel		WOOD (MIN S.G. ≥ .55)	
ANCHOR	MIN. EDGE	MIN. EMB.	MIN. EDGE	MIN. EMB.	MIN. EDGE	MIN. EMB.	MIN. EDGE	MIN. EMB.	MIN. EDGE	MIN. EMB.
1/4" SAMMY	2"	3 threads	2"	3 threads	2"	3 threads	1-1/4"	3 threads	3/4"	1-1/2"
1/4" TEKS	2"	3 threads	2"	3 threads	2"	3 threads	1-1/4"	3 threads	-	-

NOTE:
SEE ALUMINUM TUBE WALL THICKNESS
CHARTS AN SHEET #5 FOR ADDITIONAL
SPECIFIC REQUIREMENTS.

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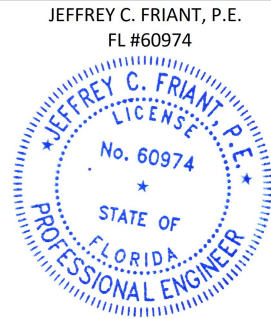
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SCREEN SPANS UP TO	1/2" DROP IN ANCHOR				
	POURED CONCRETE (MIN 3KSI)				
	ANCHOR SPACING (INCHES)				
	16	12	8	6	5
48	130	130	130	130	130
54	130	130	130	130	130
60	130	130	130	130	130
66	130	130	130	130	130
72	130	130	130	130	130
78	130	130	130	130	130
84	129	130	130	130	130
90	120	130	130	130	130
96	113	130	130	130	130
102	106	130	130	130	130
108	100	130	130	130	130
114	95	126	130	130	130
120	90	120	130	130	130
126	86	114	130	130	130
132	82	109	130	130	130
138	78	104	130	130	130
144	75	100	130	130	130
150	72	96	130	130	130
156	69	92	130	130	130
162	67	89	130	130	130
168	64	86	129	130	130
174	62	83	124	130	130
180	60	80	120	130	130
186	58	77	116	130	130
192	56	75	113	130	130

SCREEN SPANS UP TO	1/2" DROP IN ANCHOR				
	POURED CONCRETE (MIN 3KSI)				
	ANCHOR SPACING (INCHES)				
	16	12	8	6	5
198	55	60	60	60	60
204	53	60	60	60	60
210	51	60	60	60	60
216	50	60	60	60	60
222	49	60	60	60	60
228	47	60	60	60	60
234	46	60	60	60	60
240	45	60	60	60	60
246	44	59	60	60	60
252	43	57	60	60	60
258	42	56	60	60	60
264	41	55	60	60	60
270	40	53	60	60	60
276	39	52	60	60	60
282	38	51	60	60	60
288	38	50	60	60	60
294	37	49	60	60	60
300	36	48	60	60	60
306	35	47	60	60	60
312	35	46	60	60	60
318	34	45	60	60	60
324	33	44	60	60	60
330	33	44	60	60	60
336	32	43	60	60	60
342	32	42	60	60	60
348	31	41	60	60	60
354	31	41	60	60	60
360	30	40	60	60	60
366	30	39	59	60	60
372	29	39	58	60	60
378	29	38	57	60	60
384	28	38	56	60	60
390	28	37	55	60	60
396	-	36	55	60	60
402	-	36	54	60	60
408	-	35	53	60	60

SCREEN SPANS UP TO	3/8" DROP IN ANCHOR				
	POURED CONCRETE (MIN 3KSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	130	130	130	130	130
54	117	130	130	130	130
60	105	130	130	130	130
66	96	130	130	130	130
72	88	130	130	130	130
78	81	122	130	130	130
84	75	113	130	130	130
90	70	105	126	130	130
96	66	99	119	130	130
102	62	93	112	130	130
108	59	88	105	130	130
114	55	83	100	130	130
120	53	79	95	130	130
126	50	75	90	130	130
132	48	72	86	130	130
138	46	69	82	130	130
144	44	66	79	130	130
150	42	63	76	126	130
156	41	61	73	122	130
162	39	59	70	117	130
168	38	56	68	113	130
174	36	54	65	109	130
180	35	53	63	105	126
186	34	51	61	102	122
192	33	49	59	99	119

SCREEN SPANS UP TO	3/8" DROP IN ANCHOR				
	POURED CONCRETE (MIN 3KSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	32	48	57	60	60
204	31	46	56	60	60
210	30	45	54	60	60
216	29	44	53	60	60
222	28	43	51	60	60
228	28	42	50	60	60
234	-	41	49	60	60
240	-	40	47	60	60
246	-	39	46	60	60
252	-	38	45	60	60
258	-	37	44	60	60
264	-	36	43	60	60
270	-	35	42	60	60
276	-	34	41	60	60
282	-	34	40	60	60
288	-	33	40	60	60
294	-	32	39	60	60
300	-	32	38	60	60
306	-	31	37	60	60
312	-	30	36	60	60
318	-	30	36	60	60
324	-	29	35	59	60
330	-	29	34	57	60
336	-	28	34	56	60
342	-	28	33	55	60
348	-	-	33	54	60
354	-	-	32	54	60
360	-	-	32	53	60
366	-	-	31	52	60
372	-	-	31	51	60
378	-	-	30	50	60
384	-	-	30	49	59
390	-	-	29	49	58
396	-	-	29	48	57
402	-	-	28	47	57
408	-	-	28	46	56



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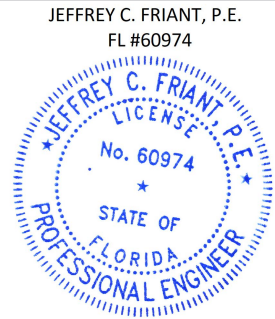
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SCREEN SPANS UP TO	3/8 " LDT ANCHOR				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	130	130	130	130	130
54	119	130	130	130	130
60	107	130	130	130	130
66	97	130	130	130	130
72	89	130	130	130	130
78	82	123	130	130	130
84	76	114	130	130	130
90	71	107	128	130	130
96	67	100	120	130	130
102	63	94	113	130	130
108	59	89	107	130	130
114	56	84	101	130	130
120	53	80	96	130	130
126	51	76	91	130	130
132	48	73	87	130	130
138	46	70	83	130	130
144	44	67	80	130	130
150	43	64	77	128	130
156	41	62	74	123	130
162	40	59	71	119	130
168	38	57	69	114	130
174	37	55	66	110	130
180	36	53	64	107	128
186	34	52	62	103	124
192	33	50	60	100	120

SCREEN SPANS UP TO	3/8 " LDT ANCHOR				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	32	48	58	60	60
204	31	47	56	60	60
210	30	46	55	60	60
216	30	44	53	60	60
222	29	43	52	60	60
228	28	42	51	60	60
234	-	41	49	60	60
240	-	40	48	60	60
246	-	39	47	60	60
252	-	38	46	60	60
258	-	37	45	60	60
264	-	36	44	60	60
270	-	36	43	60	60
276	-	35	42	60	60
282	-	34	41	60	60
288	-	33	40	60	60
294	-	33	39	60	60
300	-	32	38	60	60
306	-	31	38	60	60
312	-	31	37	60	60
318	-	30	36	60	60
324	-	30	36	59	60
330	-	29	35	58	60
336	-	29	34	57	60
342	-	28	34	56	60
348	-	28	33	55	60
354	-	-	33	54	60
360	-	-	32	53	60
366	-	-	31	52	60
372	-	-	31	52	60
378	-	-	30	51	60
384	-	-	30	50	60
390	-	-	30	49	59
396	-	-	29	48	58
402	-	-	29	48	57
408	-	-	28	47	56

SCREEN SPANS UP TO	3/8" WEDGE ANCHOR (DeWALT)				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	106	130	130	130	130
54	94	130	130	130	130
60	85	127	130	130	130
66	77	115	130	130	130
72	71	106	127	130	130
78	65	98	117	130	130
84	60	91	109	130	130
90	56	85	102	130	130
96	53	79	95	130	130
102	50	75	90	130	130
108	47	71	85	130	130
114	45	67	80	130	130
120	42	64	76	127	130
126	40	60	73	121	130
132	38	58	69	115	130
138	37	55	66	110	130
144	35	53	64	106	127
150	34	51	61	102	122
156	33	49	59	98	117
162	31	47	56	94	113
168	30	45	54	91	109
174	29	44	53	88	105
180	28	42	51	85	102
186	-	41	49	82	98
192	-	40	48	79	95

SCREEN SPANS UP TO	3/8" WEDGE ANCHOR (DeWALT)				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	-	38	46	60	60
204	-	37	45	60	60
210	-	36	44	60	60
216	-	35	42	60	60
222	-	34	41	60	60
228	-	33	40	60	60
234	-	33	39	60	60
240	-	32	38	60	60
246	-	31	37	60	60
252	-	30	36	60	60
258	-	30	35	59	60
264	-	29	35	58	60
270	-	28	34	56	60
276	-	28	33	55	60
282	-	-	32	54	60
288	-	-	32	53	60
294	-	-	31	52	60
300	-	-	30	51	60
306	-	-	30	50	60
312	-	-	29	49	59
318	-	-	29	48	58
324	-	-	28	47	56
330	-	-	28	46	55
336	-	-	-	45	54
342	-	-	-	45	53
348	-	-	-	44	53
354	-	-	-	43	52
360	-	-	-	42	51
366	-	-	-	42	50
372	-	-	-	41	49
378	-	-	-	40	48
384	-	-	-	40	48
390	-	-	-	39	47
396	-	-	-	38	46
402	-	-	-	38	45
408	-	-	-	37	45



Specialty Engineering Services & Solutions, LLC
19050 Somerset Street, Orlando FL 32833
(561) 412-8287
CA32371

STORM SMART INDUSTRIES, LLC

6182 IDLEWILD STREET
FORT MYERS, FL
(239) 938-1000

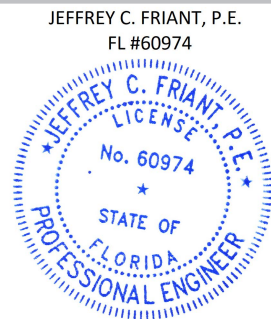
STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DRWN	CHKD	DATE
JCF	MC	08/22/25
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Jeffrey Friant, P.E. 60974

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19050 Somerset Street, Orlando FL 32833
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STORM SMART INDUSTRIES, LLC

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STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
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DRWN	CHKD	DATE
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SCREEN SPANS UP TO	3/8" HOLLOW SET (Simpson)				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	48	125	130	130	130
54	54	111	130	130	130
60	60	100	130	130	130
66	66	91	130	130	130
72	72	83	125	130	130
78	78	77	115	130	130
84	84	71	107	129	130
90	90	67	100	120	130
96	96	63	94	113	130
102	102	59	88	106	130
108	108	56	83	100	130
114	114	53	79	95	130
120	120	50	75	90	130
126	126	48	71	86	130
132	132	45	68	82	130
138	138	43	65	78	130
144	144	42	63	75	125
150	150	40	60	72	120
156	156	38	58	69	115
162	162	37	56	67	111
168	168	36	54	64	107
174	174	34	52	62	103
180	180	33	50	60	100
186	186	32	48	58	97
192	192	31	47	56	60

SCREEN SPANS UP TO	3/8" HOLLOW SET (Simpson)				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	198	30	45	55	60
204	204	29	44	53	60
210	210	29	43	51	60
216	216	28	42	50	60
222	222	-	41	49	60
228	228	-	39	47	60
234	234	-	38	46	60
240	240	-	38	45	60
246	246	-	37	44	60
252	252	-	36	43	60
258	258	-	35	42	60
264	264	-	34	41	60
270	270	-	33	40	60
276	276	-	33	39	60
282	282	-	32	38	60
288	288	-	31	38	60
294	294	-	31	37	60
300	300	-	30	36	60
306	306	-	29	35	59
312	312	-	29	35	58
318	318	-	28	34	57
324	324	-	28	33	56
330	330	-	-	33	55
336	336	-	-	32	54
342	342	-	-	32	53
348	348	-	-	31	52
354	354	-	-	31	51
360	360	-	-	30	50
366	366	-	-	30	49
372	372	-	-	29	48
378	378	-	-	29	48
384	384	-	-	28	47
390	390	-	-	28	46
396	396	-	-	-	45
402	402	-	-	-	45
408	408	-	-	-	44

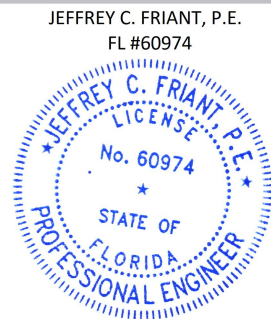
SCREEN SPANS UP TO	5/16 " ULTRACON				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	130	130	130	130	130
54	116	130	130	130	130
60	105	130	130	130	130
66	95	130	130	130	130
72	87	130	130	130	130
78	81	121	130	130	130
84	75	112	130	130	130
90	70	105	126	130	130
96	65	98	118	130	130
102	62	92	111	130	130
108	58	87	105	130	130
114	55	83	99	130	130
120	52	79	94	130	130
126	50	75	90	130	130
132	48	71	86	130	130
138	46	68	82	130	130
144	44	65	79	130	130
150	42	63	75	126	130
156	40	60	72	121	130
162	39	58	70	116	130
168	37	56	67	112	130
174	36	54	65	108	130
180	35	52	63	105	126
186	34	51	61	101	122
192	33	49	59	98	118

SCREEN SPANS UP TO	5/16 " ULTRACON				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	32	48	57	60	60
204	31	46	55	60	60
210	30	45	54	60	60
216	29	44	52	60	60
222	28	42	51	60	60
228	28	41	50	60	60
234	-	40	48	60	60
240	-	39	47	60	60
246	-	38	46	60	60
252	-	37	45	60	60
258	-	37	44	60	60
264	-	36	43	60	60
270	-	35	42	60	60
276	-	34	41	60	60
282	-	33	40	60	60
288	-	33	39	60	60
294	-	32	38	60	60
300	-	31	38	60	60
306	-	31	37	60	60
312	-	30	36	60	60
318	-	30	36	59	60
324	-	29	35	58	60
330	-	29	34	57	60
336	-	28	34	56	60
342	-	28	33	55	60
348	-	-	32	54	60
354	-	-	32	53	60
360	-	-	31	52	60
366	-	-	31	51	60
372	-	-	30	51	60
378	-	-	30	50	60
384	-	-	29	49	59
390	-	-	29	48	58
396	-	-	29	48	57
402	-	-	28	47	56
408	-	-	28	46	55

CONCRETE TABLES

Jeffrey Friant, P.E. 60974

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1-3/4" EMBEDMENT, 3" EDGE DISTANCE

SCREEN SPANS UP TO	5/16" SOLID SET				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	92	130	130	130	130
54	81	122	130	130	130
60	73	110	130	130	130
66	67	100	120	130	130
72	61	92	110	130	130
78	56	85	102	130	130
84	52	79	94	130	130
90	49	73	88	130	130
96	46	69	83	130	130
102	43	65	78	129	130
108	41	61	73	122	130
114	39	58	69	116	130
120	37	55	66	110	130
126	35	52	63	105	126
132	33	50	60	100	120
138	32	48	57	96	115
144	31	46	55	92	110
150	29	44	53	88	106
156	28	42	51	85	102
162	-	41	49	81	98
168	-	39	47	79	94
174	-	38	46	76	91
180	-	37	44	73	88
186	-	35	43	71	85
192	-	34	41	69	83

1-3/4" EMBEDMENT, 3" EDGE DISTANCE

SCREEN SPANS UP TO	5/16" SOLID SET				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	-	33	40	60	60
204	-	32	39	60	60
210	-	31	38	60	60
216	-	31	37	60	60
222	-	30	36	59	60
228	-	29	35	58	60
234	-	28	34	56	60
240	-	28	33	55	60
246	-	-	32	54	60
252	-	-	31	52	60
258	-	-	31	51	60
264	-	-	30	50	60
270	-	-	29	49	59
276	-	-	29	48	57
282	-	-	28	47	56
288	-	-	28	46	55
294	-	-	-	45	54
300	-	-	-	44	53
306	-	-	-	43	52
312	-	-	-	42	51
318	-	-	-	42	50
324	-	-	-	41	49
330	-	-	-	40	48
336	-	-	-	39	47
342	-	-	-	39	46
348	-	-	-	38	46
354	-	-	-	37	45
360	-	-	-	37	44
366	-	-	-	36	43
372	-	-	-	35	43
378	-	-	-	35	42
384	-	-	-	34	41
390	-	-	-	34	41
396	-	-	-	33	40
402	-	-	-	33	39
408	-	-	-	32	39

2-1/4" EMBEDMENT, 3" EDGE DISTANCE

SCREEN SPANS UP TO	5/16" SOLID SET				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	130	130	130	130	130
54	119	130	130	130	130
60	107	130	130	130	130
66	97	130	130	130	130
72	89	130	130	130	130
78	82	123	130	130	130
84	76	114	130	130	130
90	71	107	128	130	130
96	67	100	120	130	130
102	63	94	113	130	130
108	59	89	107	130	130
114	56	84	101	130	130
120	53	80	96	130	130
126	51	76	91	130	130
132	48	73	87	130	130
138	46	70	83	130	130
144	44	67	80	130	130
150	43	64	77	128	130
156	41	62	74	123	130
162	40	59	71	119	130
168	38	57	69	114	130
174	37	55	66	110	130
180	36	53	64	107	128
186	34	52	62	103	124
192	33	50	60	100	120

2-1/4" EMBEDMENT, 3" EDGE DISTANCE

SCREEN SPANS UP TO	5/16" SOLID SET				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	32	48	58	60	60
204	31	47	56	60	60
210	30	46	55	60	60
216	30	44	53	60	60
222	29	43	52	60	60
228	28	42	51	60	60
234	-	41	49	60	60
240	-	40	48	60	60
246	-	39	47	60	60
252	-	38	46	60	60
258	-	37	45	60	60
264	-	36	44	60	60
270	-	36	43	60	60
276	-	35	42	60	60
282	-	34	41	60	60
288	-	33	40	60	60
294	-	33	39	60	60
300	-	32	38	60	60
306	-	31	38	60	60
312	-	31	37	60	60
318	-	30	36	60	60
324	-	30	36	59	60
330	-	29	35	58	60
336	-	29	34	57	60
342	-	28	34	56	60
348	-	28	33	55	60
354	-	-	33	54	60
360	-	-	32	53	60
366	-	-	31	52	60
372	-	-	31	52	60
378	-	-	30	51	60
384	-	-	30	50	60
390	-	-	30	49	59
396	-	-	29	48	58
402	-	-	29	48	57
408	-	-	28	47	56



Specialty Engineering Services & Solutions, LLC
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STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DRWN	CHKD	DATE
JCF	MC	08/22/25

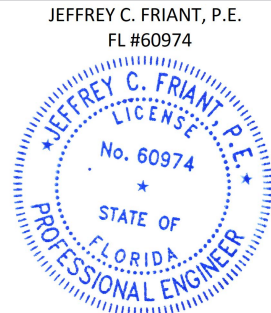
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CONCRETE TABLES

Jeffrey Friant,
P.E. 60974

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Jeffrey Friant, P.E.
60974
Date: 2025.09.10
09:57:49 -04'00'



SCREEN SPANS UP TO	1/4" TAPCON				
	POURED CONCRETE (MIN 3KSI)				
	ANCHOR SPACING (INCHES)				
	10	8	6	5	3
48	120	130	130	130	130
54	107	130	130	130	130
60	96	120	130	130	130
66	87	109	130	130	130
72	80	100	130	130	130
78	74	92	123	130	130
84	69	86	114	130	130
90	64	80	107	128	130
96	60	75	100	120	130
102	56	71	94	113	130
108	53	67	89	107	130
114	51	63	84	101	130
120	48	60	80	96	130
126	46	57	76	91	130
132	44	55	73	87	130
138	42	52	70	83	130
144	40	50	67	80	130
150	38	48	64	77	128
156	37	46	62	74	123
162	36	44	59	71	119
168	34	43	57	69	114
174	33	41	55	66	110
180	32	40	53	64	107
186	31	39	52	62	103
192	30	38	50	60	100

SCREEN SPANS UP TO	1/4" TAPCON				
	POURED CONCRETE (MIN 3KSI)				
	ANCHOR SPACING (INCHES)				
	10	8	6	5	3
198	29	36	48	58	60
204	28	35	47	56	60
210	-	34	46	55	60
216	-	33	44	53	60
222	-	32	43	52	60
228	-	32	42	51	60
234	-	31	41	49	60
240	-	30	40	48	60
246	-	29	39	47	60
252	-	29	38	46	60
258	-	28	37	45	60
264	-	-	36	44	60
270	-	-	36	43	60
276	-	-	35	42	60
282	-	-	34	41	60
288	-	-	33	40	60
294	-	-	33	39	60
300	-	-	32	38	60
306	-	-	31	38	60
312	-	-	31	37	60
318	-	-	30	36	60
324	-	-	30	36	59
330	-	-	29	35	58
336	-	-	29	34	57
342	-	-	28	34	56
348	-	-	28	33	55
354	-	-	-	33	54
360	-	-	-	32	53
366	-	-	-	31	52
372	-	-	-	31	52
378	-	-	-	30	51
384	-	-	-	30	50
390	-	-	-	30	49
396	-	-	-	29	48
402	-	-	-	29	48
408	-	-	-	28	47

SCREEN SPANS UP TO	1/4" PANELMATE INSERTS				
	POURED CONCRETE (MIN 2.7KSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	98	130	130	130	130
54	87	130	130	130	130
60	78	117	130	130	130
66	71	106	128	130	130
72	65	98	117	130	130
78	60	90	108	130	130
84	56	84	100	130	130
90	52	78	94	130	130
96	49	73	88	130	130
102	46	69	83	130	130
108	43	65	78	130	130
114	41	62	74	123	130
120	39	59	70	117	130
126	37	56	67	111	130
132	35	53	64	106	128
138	34	51	61	102	122
144	33	49	59	98	117
150	31	47	56	94	112
156	30	45	54	90	108
162	29	43	52	87	104
168	28	42	50	84	100
174	-	40	48	81	97
180	-	39	47	78	94
186	-	38	45	75	91
192	-	37	44	73	88

SCREEN SPANS UP TO	1/4" PANELMATE INSERTS				
	POURED CONCRETE (MIN 2.7KSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	-	35	43	60	60
204	-	34	41	60	60
210	-	33	40	60	60
216	-	33	39	60	60
222	-	32	38	60	60
228	-	31	37	60	60
234	-	30	36	60	60
240	-	29	35	59	60
246	-	29	34	57	60
252	-	28	33	56	60
258	-	-	33	54	60
264	-	-	32	53	60
270	-	-	31	52	60
276	-	-	31	51	60
282	-	-	30	50	60
288	-	-	29	49	59
294	-	-	29	48	57
300	-	-	28	47	56
306	-	-	28	46	55
312	-	-	-	45	54
318	-	-	-	44	53
324	-	-	-	43	52
330	-	-	-	43	51
336	-	-	-	42	50
342	-	-	-	41	49
348	-	-	-	40	48
354	-	-	-	40	48
360	-	-	-	39	47
366	-	-	-	38	46
372	-	-	-	38	45
378	-	-	-	37	45
384	-	-	-	37	44
390	-	-	-	36	43
396	-	-	-	35	43
402	-	-	-	35	42
408	-	-	-	34	41



Specialty Engineering Services & Solutions, LLC
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MC

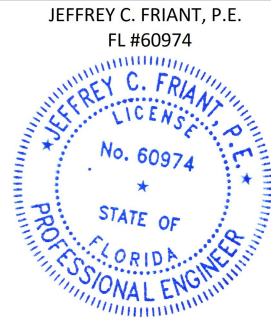
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SMART IT CANNOT BE USED BY ANYONE ELSE.

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Jeffrey Friant,
P.E. 60974

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Jeffrey Friant, P.E. 60974
Date: 2025.09.10
09:58:05 -04'00'



SCREEN SPANS UP TO	1/4" PANELMATE FEMALE				
	POURED CONCRETE (MIN 3KSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	67	100	120	130	130
54	59	89	107	130	130
60	53	80	96	130	130
66	48	73	87	130	130
72	44	67	80	130	130
78	41	62	74	123	130
84	38	57	69	114	130
90	36	53	64	107	128
96	33	50	60	100	120
102	31	47	56	94	113
108	30	44	53	89	107
114	28	42	51	84	101
120	-	40	48	80	96
126	-	38	46	76	91
132	-	36	44	73	87
138	-	35	42	70	83
144	-	33	40	67	80
150	-	32	38	64	77
156	-	31	37	62	74
162	-	30	36	59	71
168	-	29	34	57	69
174	-	28	33	55	66
180	-	-	32	53	64
186	-	-	31	52	62
192	-	-	30	50	60

SCREEN SPANS UP TO	1/4" PANELMATE FEMALE				
	POURED CONCRETE (MIN 3KSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	-	-	29	48	58
204	-	-	28	47	56
210	-	-	-	46	55
216	-	-	-	44	53
222	-	-	-	43	52
228	-	-	-	42	51
234	-	-	-	41	49
240	-	-	-	40	48
246	-	-	-	39	47
252	-	-	-	38	46
258	-	-	-	37	45
264	-	-	-	36	44
270	-	-	-	36	43
276	-	-	-	35	42
282	-	-	-	34	41
288	-	-	-	33	40
294	-	-	-	33	39
300	-	-	-	32	38
306	-	-	-	31	38
312	-	-	-	31	37
318	-	-	-	30	36
324	-	-	-	30	36
330	-	-	-	29	35
336	-	-	-	29	34
342	-	-	-	28	34
348	-	-	-	28	33
354	-	-	-	-	33
360	-	-	-	-	32
366	-	-	-	-	31
372	-	-	-	-	31
378	-	-	-	-	30
384	-	-	-	-	30
390	-	-	-	-	30
396	-	-	-	-	29
402	-	-	-	-	29
408	-	-	-	-	28

SCREEN SPANS UP TO	PANELMATE MALE				
	POURED CONCRETE (MIN 3KSI)				
	ANCHOR SPACING (INCHES)				
	12	10	6	5	4
48	130	130	130	130	130
54	124	130	130	130	130
60	111	130	130	130	130
66	101	122	130	130	130
72	93	111	130	130	130
78	86	103	130	130	130
84	80	95	130	130	130
90	74	89	130	130	130
96	70	84	130	130	130
102	66	79	130	130	130
108	62	74	124	130	130
114	59	70	117	130	130
120	56	67	111	130	130
126	53	64	106	127	130
132	51	61	101	122	130
138	48	58	97	116	130
144	46	56	93	111	130
150	45	53	89	107	130
156	43	51	86	103	129
162	41	50	83	99	124
168	40	48	80	95	119
174	38	46	77	92	115
180	37	45	74	89	111
186	36	43	72	86	108
192	35	42	70	84	104

SCREEN SPANS UP TO	PANELMATE MALE				
	POURED CONCRETE (MIN 3KSI)				
	ANCHOR SPACING (INCHES)				
	12	10	6	5	4
198	34	41	60	60	60
204	33	39	60	60	60
210	32	38	60	60	60
216	31	37	60	60	60
222	30	36	60	60	60
228	29	35	59	60	60
234	29	34	57	60	60
240	28	33	56	60	60
246	-	33	54	60	60
252	-	32	53	60	60
258	-	31	52	60	60
264	-	30	51	60	60
270	-	30	50	59	60
276	-	29	48	58	60
282	-	28	47	57	60
288	-	28	46	56	60
294	-	-	45	55	60
300	-	-	45	53	60
306	-	-	44	52	60
312	-	-	43	51	60
318	-	-	42	50	60
324	-	-	41	50	60
330	-	-	41	49	60
336	-	-	40	48	60
342	-	-	39	47	59
348	-	-	38	46	58
354	-	-	38	45	57
360	-	-	37	45	56
366	-	-	37	44	55
372	-	-	36	43	54
378	-	-	35	42	53
384	-	-	35	42	52
390	-	-	34	41	51
396	-	-	34	41	51
402	-	-	33	40	50
408	-	-	33	39	49



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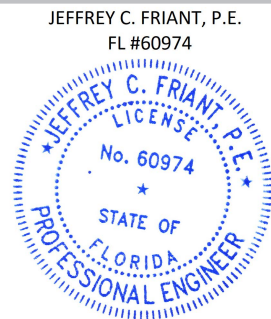
STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DRWN	CHKD	DATE
JCF	MC	08/22/25
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CONCRETE TABLES

Jeffrey Friant, P.E. 60974

Digitally signed by Jeffrey Friant, P.E. 60974
Date: 2025.09.10 09:58:18 -04'00'



2-1/4" EMBEDMENT, 3" EDGE DISTANCE					
SCREEN SPANS UP TO	5/16" ULTRACON & STRAP BRACKET				
	POURED CONCRETE (MIN 3500 PSI)				
	ANCHOR SPACING (INCHES)				
	24	20	16	12	8
48	119	130	130	130	130
54	106	127	130	130	130
60	95	114	130	130	130
66	86	104	130	130	130
72	79	95	119	130	130
78	73	88	110	130	130
84	68	81	102	130	130
90	63	76	95	127	130
96	59	71	89	119	130
102	56	67	84	112	130
108	53	63	79	106	130
114	50	60	75	100	130
120	48	57	71	95	130
126	45	54	68	90	130
132	43	52	65	86	130
138	41	50	62	83	124
144	40	48	59	79	119
150	38	46	57	76	114
156	37	44	55	73	110
162	35	42	53	70	106
168	34	41	51	68	102
174	33	39	49	66	98
180	32	38	48	63	95
186	31	37	46	61	92
192	30	36	45	59	89

2-1/4" EMBEDMENT, 3" EDGE DISTANCE					
SCREEN SPANS UP TO	5/16" ULTRACON & STRAP BRACKET				
	POURED CONCRETE (MIN 3500 PSI)				
	ANCHOR SPACING (INCHES)				
	24	20	16	12	8
198	29	35	43	58	60
204	28	34	42	56	60
210	-	33	41	54	60
216	-	32	40	53	60
222	-	31	39	51	60
228	-	30	38	50	60
234	-	29	37	49	60
240	-	29	36	48	60
246	-	28	35	46	60
252	-	-	34	45	60
258	-	-	33	44	60
264	-	-	32	43	60
270	-	-	32	42	60
276	-	-	31	41	60
282	-	-	30	40	60
288	-	-	30	40	59
294	-	-	29	39	58
300	-	-	29	38	57
306	-	-	28	37	56
312	-	-	-	37	55
318	-	-	-	36	54
324	-	-	-	35	53
330	-	-	-	35	52
336	-	-	-	34	51
342	-	-	-	33	50
348	-	-	-	33	49
354	-	-	-	32	48
360	-	-	-	32	48
366	-	-	-	31	47
372	-	-	-	31	46
378	-	-	-	30	45
384	-	-	-	30	45
390	-	-	-	29	44
396	-	-	-	29	43
402	-	-	-	28	43
408	-	-	-	28	42

1-3/4" EMBEDMENT, 3" EDGE DISTANCE					
SCREEN SPANS UP TO	5/16"SOLID SET & STRAP BRACKET				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	24	20	16	12	8
48	125	130	130	130	130
54	111	130	130	130	130
60	100	120	130	130	130
66	91	109	130	130	130
72	83	100	125	130	130
78	77	92	115	130	130
84	71	86	107	130	130
90	67	80	100	130	130
96	63	75	94	125	130
102	59	71	88	118	130
108	56	67	83	111	130
114	53	63	79	105	130
120	50	60	75	100	130
126	48	57	71	95	130
132	45	55	68	91	130
138	43	52	65	87	130
144	42	50	63	83	125
150	40	48	60	80	120
156	38	46	58	77	115
162	37	44	56	74	111
168	36	43	54	71	107
174	34	41	52	69	103
180	33	40	50	67	100
186	32	39	48	65	97
192	31	38	47	63	94

1-3/4" EMBEDMENT, 3" EDGE DISTANCE					
SCREEN SPANS UP TO	5/16"SOLID SET & STRAP BRACKET				
	POURED CONCRETE (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	24	20	16	12	8
198	30	36	45	61	91
204	29	35	44	59	88
210	29	34	43	57	86
216	28	33	42	56	83
222	-	32	41	54	81
228	-	32	39	53	79
234	-	31	38	51	77
240	-	30	38	50	75
246	-	29	37	49	73
252	-	29	36	48	71
258	-	28	35	47	70
264	-	-	34	45	68
270	-	-	33	44	67
276	-	-	33	43	65
282	-	-	32	43	64
288	-	-	31	42	63
294	-	-	31	41	61
300	-	-	30	40	60
306	-	-	29	39	59
312	-	-	29	38	58
318	-	-	28	38	57
324	-	-	28	37	56
330	-	-	-	36	55
336	-	-	-	36	54
342	-	-	-	35	53
348	-	-	-	34	52
354	-	-	-	34	51
360	-	-	-	33	50
366	-	-	-	33	49
372	-	-	-	32	48
378	-	-	-	32	48
384	-	-	-	31	47
390	-	-	-	31	46
396	-	-	-	30	45
402	-	-	-	30	45
408	-	-	-	29	44



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(239) 938-1000

STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DRWN

CHKD

JCF

DATE

08/22/25

MC

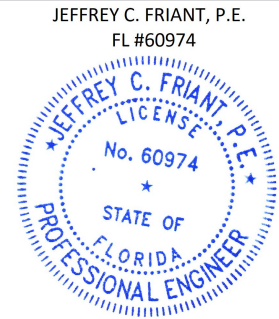
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CONCRETE FILLED BLOCK/CMU TABLE

*REINFORCED WITH MIN #5 BAR IN CONCRETE FILLED CELL

Jeffrey Friant,
P.E. 60974

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Jeffrey Friant, P.E. 60974
Date: 2025.09.10
09:58:33 -04'00'



SCREEN SPANS UP TO	1/2" Drop In				
	POURED REINFORCED* (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	24	20	16	12	10
48	130	130	130	130	130
54	122	130	130	130	130
60	110	130	130	130	130
66	100	120	130	130	130
72	92	110	130	130	130
78	85	102	127	130	130
84	79	94	118	130	130
90	73	88	110	130	130
96	69	83	103	130	130
102	65	78	97	129	130
108	61	73	92	122	130
114	58	69	87	116	130
120	55	66	83	110	130
126	52	63	79	105	126
132	50	60	75	100	120
138	48	57	72	96	115
144	46	55	69	92	110
150	44	53	66	88	106
156	42	51	63	85	102
162	41	49	61	81	98
168	39	47	59	79	94
174	38	46	57	76	91
180	37	44	55	73	88
186	35	43	53	71	85
192	34	41	52	69	83

SCREEN SPANS UP TO	1/2" Drop In				
	POURED REINFORCED* (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	24	20	16	12	10
198	33	40	50	60	60
204	32	39	49	60	60
210	31	38	47	60	60
216	31	37	46	60	60
222	30	36	45	59	60
228	29	35	43	58	60
234	28	34	42	56	60
240	28	33	41	55	60
246	-	32	40	54	60
252	-	31	39	52	60
258	-	31	38	51	60
264	-	30	38	50	60
270	-	29	37	49	59
276	-	29	36	48	57
282	-	28	35	47	56
288	-	28	34	46	55
294	-	-	34	45	54
300	-	-	33	44	53
306	-	-	32	43	52
312	-	-	32	42	51
318	-	-	31	42	50
324	-	-	31	41	49
330	-	-	30	40	48
336	-	-	29	39	47
342	-	-	29	39	46
348	-	-	28	38	46
354	-	-	28	37	45
360	-	-	28	37	44
366	-	-	-	36	43
372	-	-	-	35	43
378	-	-	-	35	42
384	-	-	-	34	41
390	-	-	-	34	41
396	-	-	-	33	40
402	-	-	-	33	39
408	-	-	-	32	39

SCREEN SPANS UP TO	3/8" Drop In				
	POURED REINFORCED* (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	16	14	12	10
48	117	130	130	130	130
54	104	117	130	130	130
60	93	105	120	130	130
66	85	95	109	127	130
72	78	88	100	117	130
78	72	81	92	108	129
84	67	75	86	100	120
90	62	70	80	93	112
96	58	66	75	88	105
102	55	62	71	82	99
108	52	58	67	78	93
114	49	55	63	74	88
120	47	53	60	70	84
126	44	50	57	67	80
132	42	48	55	64	76
138	41	46	52	61	73
144	39	44	50	58	70
150	37	42	48	56	67
156	36	40	46	54	65
162	35	39	44	52	62
168	33	38	43	50	60
174	32	36	41	48	58
180	31	35	40	47	56
186	30	34	39	45	54
192	29	33	38	44	53

SCREEN SPANS UP TO	3/8" Drop In				
	POURED REINFORCED* (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	16	14	12	10
198	28	32	36	42	51
204	-	31	35	41	49
210	-	30	34	40	48
216	-	29	33	39	47
222	-	28	32	38	45
228	-	28	32	37	44
234	-	-	31	36	43
240	-	-	30	35	42
246	-	-	29	34	41
252	-	-	29	33	40
258	-	-	28	33	39
264	-	-	27	32	38
270	-	-	-	31	37
276	-	-	-	30	37
282	-	-	-	30	36
288	-	-	-	29	35
294	-	-	-	29	34
300	-	-	-	28	34
306	-	-	-	-	33
312	-	-	-	-	32
318	-	-	-	-	32
324	-	-	-	-	31
330	-	-	-	-	31
336	-	-	-	-	30
342	-	-	-	-	29
348	-	-	-	-	29
354	-	-	-	-	28
360	-	-	-	-	28
366	-	-	-	-	28
372	-	-	-	-	-
378	-	-	-	-	-
384	-	-	-	-	-
390	-	-	-	-	-
396	-	-	-	-	-
402	-	-	-	-	-
408	-	-	-	-	-



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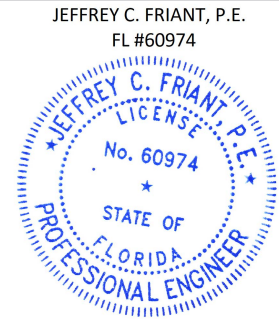
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CONCRETE FILLED BLOCK/CMU TABLE

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Jeffrey Friant, P.E. 60974

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Date: 2025.09.10 09:58:46 -04'00'



SCREEN SPANS UP TO	3/8 " LDT ANCHOR				
	POURED REINFORCED* (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	126	130	130	130	130
54	112	130	130	130	130
60	101	130	130	130	130
66	92	130	130	130	130
72	84	126	130	130	130
78	78	116	130	130	130
84	72	108	130	130	130
90	67	101	121	130	130
96	63	95	113	130	130
102	59	89	107	130	130
108	56	84	101	130	130
114	53	80	95	130	130
120	50	76	91	130	130
126	48	72	86	130	130
132	46	69	82	130	130
138	44	66	79	130	130
144	42	63	76	126	130
150	40	60	73	121	130
156	39	58	70	116	130
162	37	56	67	112	130
168	36	54	65	108	130
174	35	52	63	104	125
180	34	50	60	101	121
186	33	49	59	98	117
192	32	47	57	95	113

SCREEN SPANS UP TO	3/8 " LDT ANCHOR				
	POURED REINFORCED* (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	31	46	55	60	60
204	30	44	53	60	60
210	29	43	52	60	60
216	28	42	50	60	60
222	-	41	49	60	60
228	-	40	48	60	60
234	-	39	47	60	60
240	-	38	45	60	60
246	-	37	44	60	60
252	-	36	43	60	60
258	-	35	42	60	60
264	-	34	41	60	60
270	-	34	40	60	60
276	-	33	39	60	60
282	-	32	39	60	60
288	-	32	38	60	60
294	-	31	37	60	60
300	-	30	36	60	60
306	-	30	36	59	60
312	-	29	35	58	60
318	-	29	34	57	60
324	-	28	34	56	60
330	-	-	33	55	60
336	-	-	32	54	60
342	-	-	32	53	60
348	-	-	31	52	60
354	-	-	31	51	60
360	-	-	30	50	60
366	-	-	30	50	59
372	-	-	29	49	59
378	-	-	29	48	58
384	-	-	28	47	57
390	-	-	28	47	56
396	-	-	-	46	55
402	-	-	-	45	54
408	-	-	-	44	53

SCREEN SPANS UP TO	5/16" SOLID SET				
	POURED REINFORCED* (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	126	130	130	130	130
54	112	130	130	130	130
60	101	130	130	130	130
66	92	130	130	130	130
72	84	126	130	130	130
78	78	116	130	130	130
84	72	108	130	130	130
90	67	101	121	130	130
96	63	95	113	130	130
102	59	89	107	130	130
108	56	84	101	130	130
114	53	80	95	130	130
120	50	76	91	130	130
126	48	72	86	130	130
132	46	69	82	130	130
138	44	66	79	130	130
144	42	63	76	126	130
150	40	60	73	121	130
156	39	58	70	116	130
162	37	56	67	112	130
168	36	54	65	108	130
174	35	52	63	104	125
180	34	50	60	101	121
186	33	49	59	98	117
192	32	47	57	95	113

SCREEN SPANS UP TO	5/16" SOLID SET				
	POURED REINFORCED* (MIN 3000 PSI)				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	31	46	55	60	60
204	30	44	53	60	60
210	29	43	52	60	60
216	28	42	50	60	60
222	-	41	49	60	60
228	-	40	48	60	60
234	-	39	47	60	60
240	-	38	45	60	60
246	-	37	44	60	60
252	-	36	43	60	60
258	-	35	42	60	60
264	-	34	41	60	60
270	-	34	40	60	60
276	-	33	39	60	60
282	-	32	39	60	60
288	-	32	38	60	60
294	-	31	37	60	60
300	-	30	36	60	60
306	-	30	36	59	60
312	-	29	35	58	60
318	-	29	34	57	60
324	-	28	34	56	60
330	-	-	33	55	60
336	-	-	32	54	60
342	-	-	32	53	60
348	-	-	31	52	60
354	-	-	31	51	60
360	-	-	30	50	60
366	-	-	30	50	59
372	-	-	29	49	59
378	-	-	29	48	58
384	-	-	28	47	57
390	-	-	28	47	56
396	-	-	-	46	55
402	-	-	-	45	54
408	-	-	-	44	53



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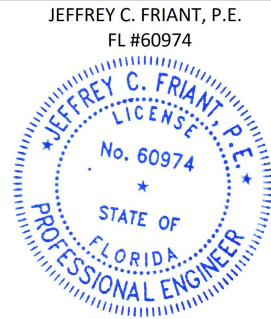
STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DRWN	CHKD	DATE
JCF	MC	08/22/25
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GROUT FILLED BLOCK TABLES

Jeffrey Friant, P.E. 60974

Digitally signed by Jeffrey Friant, P.E. 60974
Date: 2025.09.10 09:59:00 -04'00'



SCREEN SPANS UP TO	3/8 " LDT ANCHOR				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	98	130	130	130	130
54	112	130	130	130	130
60	101	130	130	130	130
66	92	130	130	130	130
72	84	126	130	130	130
78	78	116	130	130	130
84	72	108	130	130	130
90	67	101	121	130	130
96	63	95	113	130	130
102	59	89	107	130	130
108	56	84	101	130	130
114	53	80	95	130	130
120	50	76	91	130	130
126	48	72	86	130	130
132	46	69	82	130	130
138	44	66	79	130	130
144	42	63	76	126	130
150	40	60	73	121	130
156	39	58	70	116	130
162	37	56	67	112	130
168	36	54	65	108	130
174	35	52	63	104	125
180	34	50	60	101	121
186	33	49	59	98	117
192	32	47	57	95	113

SCREEN SPANS UP TO	3/8 " LDT ANCHOR				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	31	46	55	60	60
204	30	44	53	60	60
210	29	43	52	60	60
216	28	42	50	60	60
222	27	41	49	60	60
228	-	40	48	60	60
234	-	39	47	60	60
240	-	38	45	60	60
246	-	37	44	60	60
252	-	36	43	60	60
258	-	35	42	60	60
264	-	34	41	60	60
270	-	34	40	60	60
276	-	33	39	60	60
282	-	32	39	60	60
288	-	32	38	60	60
294	-	31	37	60	60
300	-	30	36	60	60
306	-	30	36	59	60
312	-	29	35	58	60
318	-	29	34	57	60
324	-	28	34	56	60
330	-	-	33	55	60
336	-	-	32	54	60
342	-	-	32	53	60
348	-	-	31	52	60
354	-	-	31	51	60
360	-	-	30	50	60
366	-	-	30	50	59
372	-	-	29	49	59
378	-	-	29	48	58
384	-	-	28	47	57
390	-	-	28	47	56
396	-	-	-	46	55
402	-	-	-	45	54
408	-	-	-	44	53

1-3/4" EMBEDMENT, 3" EDGE DISTANCE					
SCREEN SPANS UP TO	5/16 " ULTRACON				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	18	12	8	6	5
48	58	88	130	130	130
54	52	78	117	130	130
60	47	70	105	130	130
66	42	64	95	127	130
72	39	58	88	117	130
78	36	54	81	108	129
84	33	50	75	100	120
90	31	47	70	93	112
96	29	44	66	88	105
102	-	41	62	82	99
108	-	39	58	78	93
114	-	37	55	74	88
120	-	35	53	70	84
126	-	33	50	67	80
132	-	32	48	64	76
138	-	30	46	61	73
144	-	29	44	58	70
150	-	28	42	56	67
156	-	-	40	54	65
162	-	-	39	52	62
168	-	-	38	50	60
174	-	-	36	48	58
180	-	-	35	47	56
186	-	-	34	45	54
192	-	-	33	44	53

1-3/4" EMBEDMENT, 3" EDGE DISTANCE					
SCREEN SPANS UP TO	5/16 " ULTRACON				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	18	12	8	6	5
198	-	-	32	42	51
204	-	-	31	41	49
210	-	-	30	40	48
216	-	-	29	39	47
222	-	-	28	38	45
228	-	-	28	37	44
234	-	-	-	36	43
240	-	-	-	35	42
246	-	-	-	34	41
252	-	-	-	33	40
258	-	-	-	33	39
264	-	-	-	32	38
270	-	-	-	31	37
276	-	-	-	30	37
282	-	-	-	30	36
288	-	-	-	29	35
294	-	-	-	29	34
300	-	-	-	28	34
306	-	-	-	-	33
312	-	-	-	-	32
318	-	-	-	-	32
324	-	-	-	-	31
330	-	-	-	-	31
336	-	-	-	-	30
342	-	-	-	-	29
348	-	-	-	-	29
354	-	-	-	-	28
360	-	-	-	-	28
366	-	-	-	-	28
372	-	-	-	-	-
378	-	-	-	-	-
384	-	-	-	-	-
390	-	-	-	-	-
396	-	-	-	-	-
402	-	-	-	-	-
408	-	-	-	-	-



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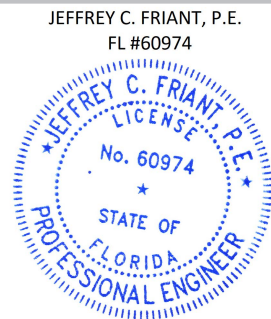
STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DRWN	CHKD	DATE
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2-1/4" EMBEDMENT, 3" EDGE DISTANCE

SCREEN SPANS UP TO	5/16" SOLID SET				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	108	130	130	130	130
54	96	130	130	130	130
60	87	130	130	130	130
66	79	118	130	130	130
72	72	108	130	130	130
78	67	100	120	130	130
84	62	93	111	130	130
90	58	87	104	130	130
96	54	81	98	130	130
102	51	76	92	130	130
108	48	72	87	130	130
114	46	68	82	130	130
120	43	65	78	130	130
126	41	62	74	124	130
132	39	59	71	118	130
138	38	57	68	113	130
144	36	54	65	108	130
150	35	52	62	104	125
156	33	50	60	100	120
162	32	48	58	96	116
168	31	46	56	93	111
174	30	45	54	90	108
180	29	43	52	87	104
186	28	42	50	84	101
192	-	41	49	81	98

2-1/4" EMBEDMENT, 3" EDGE DISTANCE

SCREEN SPANS UP TO	5/16" SOLID SET				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	-	39	47	79	95
204	-	38	46	76	92
210	-	37	45	74	89
216	-	36	43	72	87
222	-	35	42	70	84
228	-	34	41	68	82
234	-	33	40	67	80
240	-	33	39	65	78
246	-	32	38	63	76
252	-	31	37	62	74
258	-	30	36	60	73
264	-	30	35	59	71
270	-	29	35	58	69
276	-	28	34	57	68
282	-	28	33	55	66
288	-	-	33	54	65
294	-	-	32	53	64
300	-	-	31	52	62
306	-	-	31	51	61
312	-	-	30	50	60
318	-	-	29	49	59
324	-	-	29	48	58
330	-	-	28	47	57
336	-	-	28	46	56
342	-	-	-	46	55
348	-	-	-	45	54
354	-	-	-	44	53
360	-	-	-	43	52
366	-	-	-	43	51
372	-	-	-	42	50
378	-	-	-	41	50
384	-	-	-	41	49
390	-	-	-	40	48
396	-	-	-	39	47
402	-	-	-	39	47
408	-	-	-	38	46

1-3/4" EMBEDMENT, 3" EDGE DISTANCE

SCREEN SPANS UP TO	5/16" SOLID SET				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
48	75	113	130	130	130
54	67	100	120	130	130
60	60	90	108	130	130
66	55	82	98	130	130
72	50	75	90	130	130
78	46	69	83	130	130
84	43	64	77	129	130
90	40	60	72	120	130
96	38	56	68	113	130
102	35	53	64	106	127
108	33	50	60	100	120
114	32	47	57	95	114
120	30	45	54	90	108
126	29	43	51	86	103
132	-	41	49	82	98
138	-	39	47	78	94
144	-	38	45	75	90
150	-	36	43	72	86
156	-	35	42	69	83
162	-	33	40	67	80
168	-	32	39	64	77
174	-	31	37	62	74
180	-	30	36	60	72
186	-	29	35	58	70
192	-	28	34	56	68

1-3/4" EMBEDMENT, 3" EDGE DISTANCE

SCREEN SPANS UP TO	5/16" SOLID SET				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	18	12	10	6	5
198	-	-	33	55	60
204	-	-	32	53	60
210	-	-	31	51	60
216	-	-	30	50	60
222	-	-	29	49	58
228	-	-	28	47	57
234	-	-	28	46	55
240	-	-	-	45	54
246	-	-	-	44	53
252	-	-	-	43	51
258	-	-	-	42	50
264	-	-	-	41	49
270	-	-	-	40	48
276	-	-	-	39	47
282	-	-	-	38	46
288	-	-	-	38	45
294	-	-	-	37	44
300	-	-	-	36	43
306	-	-	-	35	42
312	-	-	-	35	42
318	-	-	-	34	41
324	-	-	-	33	40
330	-	-	-	33	39
336	-	-	-	32	39
342	-	-	-	32	38
348	-	-	-	31	37
354	-	-	-	31	37
360	-	-	-	30	36
366	-	-	-	30	35
372	-	-	-	29	35
378	-	-	-	29	34
384	-	-	-	28	34
390	-	-	-	28	33
396	-	-	-	-	33
402	-	-	-	-	32
408	-	-	-	-	32



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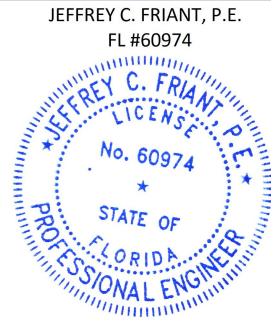
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SCREEN SPANS UP TO	PANELMATE INSERTS				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
48	83	100	125	130	130
54	74	89	111	130	130
60	67	80	100	130	130
66	61	73	91	121	130
72	56	67	83	111	130
78	51	61	77	102	130
84	48	57	71	95	130
90	44	53	67	89	130
96	42	50	62	83	125
102	39	47	59	78	118
108	37	44	56	74	111
114	35	42	53	70	105
120	33	40	50	67	100
126	32	38	48	63	95
132	30	36	45	61	91
138	29	35	43	58	87
144	28	33	42	56	83
150	-	32	40	53	80
156	-	31	38	51	77
162	-	30	37	49	74
168	-	29	36	48	71
174	-	28	34	46	69
180	-	-	33	44	67
186	-	-	32	43	64
192	-	-	31	42	62

SCREEN SPANS UP TO	PANELMATE INSERTS				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
198	-	-	30	40	60
204	-	-	29	39	59
210	-	-	29	38	57
216	-	-	28	37	56
222	-	-	-	36	54
228	-	-	-	35	53
234	-	-	-	34	51
240	-	-	-	33	50
246	-	-	-	32	49
252	-	-	-	32	48
258	-	-	-	31	46
264	-	-	-	30	45
270	-	-	-	30	44
276	-	-	-	29	43
282	-	-	-	28	43
288	-	-	-	28	42
294	-	-	-	27	41
300	-	-	-	-	40
306	-	-	-	-	39
312	-	-	-	-	38
318	-	-	-	-	38
324	-	-	-	-	37
330	-	-	-	-	36
336	-	-	-	-	36
342	-	-	-	-	35
348	-	-	-	-	34
354	-	-	-	-	34
360	-	-	-	-	33
366	-	-	-	-	33
372	-	-	-	-	32
378	-	-	-	-	32
384	-	-	-	-	31
390	-	-	-	-	31
396	-	-	-	-	30
402	-	-	-	-	30
408	-	-	-	-	29

SCREEN SPANS UP TO	PANELMATE FEMALE				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	12	10	6	5	4
48	66	79	130	130	130
54	58	70	117	130	130
60	53	63	105	126	130
66	48	57	96	115	130
72	44	53	88	105	130
78	40	49	81	97	121
84	38	45	75	90	113
90	35	42	70	84	105
96	33	39	66	79	99
102	31	37	62	74	93
108	29	35	58	70	88
114	-	33	55	66	83
120	-	32	53	63	79
126	-	30	50	60	75
132	-	29	48	57	72
138	-	-	46	55	69
144	-	-	44	53	66
150	-	-	42	50	63
156	-	-	40	49	61
162	-	-	39	47	58
168	-	-	38	45	56
174	-	-	36	44	54
180	-	-	35	42	53
186	-	-	34	41	51
192	-	-	33	39	49

SCREEN SPANS UP TO	PANELMATE FEMALE				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	12	10	6	5	4
198	-	-	32	38	48
204	-	-	31	37	46
210	-	-	30	36	45
216	-	-	29	35	44
222	-	-	28	34	43
228	-	-	28	33	42
234	-	-	-	32	40
240	-	-	-	32	39
246	-	-	-	31	38
252	-	-	-	30	38
258	-	-	-	29	37
264	-	-	-	29	36
270	-	-	-	28	35
276	-	-	-	-	34
282	-	-	-	-	34
288	-	-	-	-	33
294	-	-	-	-	32
300	-	-	-	-	32
306	-	-	-	-	31
312	-	-	-	-	30
318	-	-	-	-	30
324	-	-	-	-	29
330	-	-	-	-	29
336	-	-	-	-	28
342	-	-	-	-	28
348	-	-	-	-	-
354	-	-	-	-	-
360	-	-	-	-	-
366	-	-	-	-	-
372	-	-	-	-	-
378	-	-	-	-	-
384	-	-	-	-	-
390	-	-	-	-	-
396	-	-	-	-	-
402	-	-	-	-	-
408	-	-	-	-	-



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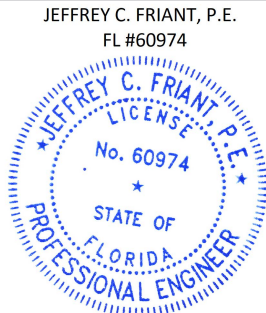
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60974
Date: 2025.09.10
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SCREEN SPANS UP TO	PANELMATE MALE				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	12	10	6	5	4
48	66	79	130	130	130
54	58	70	117	130	130
60	53	63	105	126	130
66	48	57	96	115	130
72	44	53	88	105	130
78	40	49	81	97	121
84	38	45	75	90	113
90	35	42	70	84	105
96	33	39	66	79	99
102	31	37	62	74	93
108	29	35	58	70	88
114	28	33	55	66	83
120	-	32	53	63	79
126	-	30	50	60	75
132	-	29	48	57	72
138	-	-	46	55	69
144	-	-	44	53	66
150	-	-	42	50	63
156	-	-	40	49	61
162	-	-	39	47	58
168	-	-	38	45	56
174	-	-	36	44	54
180	-	-	35	42	53
186	-	-	34	41	51
192	-	-	33	39	49

SCREEN SPANS UP TO	PANELMATE MALE				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	12	10	6	5	4
198	-	-	32	38	48
204	-	-	31	37	46
210	-	-	30	36	45
216	-	-	29	35	44
222	-	-	28	34	43
228	-	-	28	33	42
234	-	-	-	32	40
240	-	-	-	32	39
246	-	-	-	31	38
252	-	-	-	30	38
258	-	-	-	29	37
264	-	-	-	29	36
270	-	-	-	28	35
276	-	-	-	-	34
282	-	-	-	-	34
288	-	-	-	-	33
294	-	-	-	-	32
300	-	-	-	-	32
306	-	-	-	-	31
312	-	-	-	-	30
318	-	-	-	-	30
324	-	-	-	-	29
330	-	-	-	-	29
336	-	-	-	-	28
342	-	-	-	-	28
348	-	-	-	-	-
354	-	-	-	-	-
360	-	-	-	-	-
366	-	-	-	-	-
372	-	-	-	-	-
378	-	-	-	-	-
384	-	-	-	-	-
390	-	-	-	-	-
396	-	-	-	-	-
402	-	-	-	-	-
408	-	-	-	-	-

SCREEN SPANS UP TO	1/4" TAPCON				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	10	8	6	5	4
48	105	130	130	130	130
54	93	117	130	130	130
60	84	105	130	130	130
66	76	95	127	130	130
72	70	88	117	130	130
78	65	81	108	129	130
84	60	75	100	120	130
90	56	70	93	112	130
96	53	66	88	105	130
102	49	62	82	99	124
108	47	58	78	93	117
114	44	55	74	88	111
120	42	53	70	84	105
126	40	50	67	80	100
132	38	48	64	76	95
138	37	46	61	73	91
144	35	44	58	70	88
150	34	42	56	67	84
156	32	40	54	65	81
162	31	39	52	62	78
168	30	38	50	60	75
174	29	36	48	58	72
180	-	35	47	56	70
186	-	34	45	54	68
192	-	33	44	53	66

SCREEN SPANS UP TO	1/4" TAPCON				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	10	8	6	5	4
198	-	32	42	51	64
204	-	31	41	49	62
210	-	30	40	48	60
216	-	29	39	47	58
222	-	28	38	45	57
228	-	28	37	44	55
234	-	-	36	43	54
240	-	-	35	42	53
246	-	-	34	41	51
252	-	-	33	40	50
258	-	-	33	39	49
264	-	-	32	38	48
270	-	-	31	37	47
276	-	-	30	37	46
282	-	-	30	36	45
288	-	-	29	35	44
294	-	-	29	34	43
300	-	-	28	34	42
306	-	-	27	33	41
312	-	-	27	32	40
318	-	-	26	32	40
324	-	-	26	31	39
330	-	-	25	31	38
336	-	-	25	30	38
342	-	-	25	29	37
348	-	-	24	29	36
354	-	-	24	28	36
360	-	-	23	28	35
366	-	-	23	28	34
372	-	-	23	27	34
378	-	-	22	27	33
384	-	-	22	26	33
390	-	-	22	26	32
396	-	-	21	25	32
402	-	-	21	25	31
408	-	-	21	25	31



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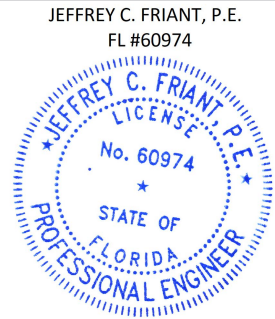
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Jeffrey Friant, P.E. 60974

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Date: 2025.09.10 10:20:13 -04'00'



2-1/4" EMBEDMENT, 3" EDGE DISTANCE

SCREEN SPANS UP TO	5/16" SOLID SET & STRAP BRACKET				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	16	12	10	8	6
48	130	130	130	130	130
54	117	130	130	130	130
60	105	130	130	130	130
66	95	127	130	130	130
72	88	117	130	130	130
78	81	108	129	130	130
84	75	100	120	130	130
90	70	93	112	130	130
96	66	88	105	130	130
102	62	82	99	124	130
108	58	78	93	117	130
114	55	74	88	111	130
120	53	70	84	105	130
126	50	67	80	100	130
132	48	64	76	95	127
138	46	61	73	91	122
144	44	58	70	88	117
150	42	56	67	84	112
156	40	54	65	81	108
162	39	52	62	78	104
168	38	50	60	75	100
174	36	48	58	72	97
180	35	47	56	70	93
186	34	45	54	68	90
192	33	44	53	66	88

2-1/4" EMBEDMENT, 3" EDGE DISTANCE

SCREEN SPANS UP TO	5/16" SOLID SET & STRAP BRACKET				
	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	16	12	10	8	6
198	32	42	51	60	60
204	31	41	49	60	60
210	30	40	48	60	60
216	29	39	47	58	60
222	28	38	45	57	60
228	28	37	44	55	60
234	-	36	43	54	60
240	-	35	42	53	60
246	-	34	41	51	60
252	-	33	40	50	60
258	-	33	39	49	60
264	-	32	38	48	60
270	-	31	37	47	60
276	-	30	37	46	60
282	-	30	36	45	60
288	-	29	35	44	58
294	-	29	34	43	57
300	-	28	34	42	56
306	-	-	33	41	55
312	-	-	32	40	54
318	-	-	32	40	53
324	-	-	31	39	52
330	-	-	31	38	51
336	-	-	30	38	50
342	-	-	29	37	49
348	-	-	29	36	48
354	-	-	28	36	47
360	-	-	28	35	47
366	-	-	28	34	46
372	-	-	-	34	45
378	-	-	-	33	44
384	-	-	-	33	44
390	-	-	-	32	43
396	-	-	-	32	42
402	-	-	-	31	42
408	-	-	-	31	41

5/16" ULTRACON & STRAP BRACKET

SCREEN SPANS UP TO	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	16	12	10	8	6
48	84	113	130	130	130
54	75	100	120	130	130
60	68	90	108	130	130
66	61	82	98	123	130
72	56	75	90	113	130
78	52	69	83	104	130
84	48	64	77	96	129
90	45	60	72	90	120
96	42	56	68	84	113
102	40	53	64	79	106
108	38	50	60	75	100
114	36	47	57	71	95
120	34	45	54	68	90
126	32	43	51	64	86
132	31	41	49	61	82
138	29	39	47	59	78
144	28	38	45	56	75
150	-	36	43	54	72
156	-	35	42	52	69
162	-	33	40	50	67
168	-	32	39	48	64
174	-	31	37	47	62
180	-	30	36	45	60
186	-	29	35	44	58
192	-	28	34	42	56

5/16" ULTRACON & STRAP BRACKET

SCREEN SPANS UP TO	GROUT FILLED CELLS				
	ANCHOR SPACING (INCHES)				
	16	12	10	8	6
198	-	-	33	41	55
204	-	-	32	40	53
210	-	-	31	39	51
216	-	-	30	38	50
222	-	-	29	36	49
228	-	-	28	36	47
234	-	-	28	35	46
240	-	-	-	34	45
246	-	-	-	33	44
252	-	-	-	32	43
258	-	-	-	31	42
264	-	-	-	31	41
270	-	-	-	30	40
276	-	-	-	29	39
282	-	-	-	29	38
288	-	-	-	28	38
294	-	-	-	28	37
300	-	-	-	-	36
306	-	-	-	-	35
312	-	-	-	-	35
318	-	-	-	-	34
324	-	-	-	-	33
330	-	-	-	-	33
336	-	-	-	-	32
342	-	-	-	-	32
348	-	-	-	-	31
354	-	-	-	-	31
360	-	-	-	-	30
366	-	-	-	-	30
372	-	-	-	-	29
378	-	-	-	-	29
384	-	-	-	-	28
390	-	-	-	-	28
396	-	-	-	-	-
402	-	-	-	-	-
408	-	-	-	-	-



Specialty Engineering Services & Solutions, LLC
19050 Somerset Street, Orlando FL 32833
(561) 412-8287

STORM SMART INDUSTRIES, LLC

6182 IDLEWILD STREET
FORT MYERS, FL
(239) 938-1000

STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DRWN	CHKD	DATE
JCF	MC	08/22/25

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HOLLOW BLOCK TABLES

Jeffrey Friant,
P.E. 60974

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Jeffrey Friant, P.E.
60974
Date: 2025.09.10
10:20:33 -04'00'

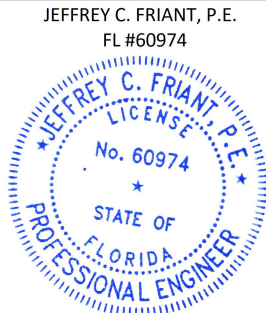
Allowable Epoxy brands & Types:
1) Powers T308
2) ITW RedHead A7

SCREEN SPANS UP TO	5/16 " ULTRACON				
	HOLLOW BLOCK				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	5
48	63	75	94	125	130
54	56	67	83	111	130
60	50	60	75	100	120
66	45	55	68	91	109
72	42	50	63	83	100
78	38	46	58	77	92
84	36	43	54	71	86
90	33	40	50	67	80
96	31	38	47	63	75
102	29	35	44	59	71
108	28	33	42	56	67
114	-	32	39	53	63
120	-	30	38	50	60
126	-	29	36	48	57
132	-	-	34	45	55
138	-	-	33	43	52
144	-	-	31	42	50
150	-	-	30	40	48
156	-	-	29	38	46
162	-	-	28	37	44
168	-	-	-	36	43
174	-	-	-	34	41
180	-	-	-	33	40
186	-	-	-	32	39
192	-	-	-	31	38

SCREEN SPANS UP TO	5/16 " ULTRACON				
	HOLLOW BLOCK				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	5
198	-	-	-	30	36
204	-	-	-	29	35
210	-	-	-	29	34
216	-	-	-	28	33
222	-	-	-	-	32
228	-	-	-	-	32
234	-	-	-	-	31
240	-	-	-	-	30
246	-	-	-	-	29
252	-	-	-	-	29
258	-	-	-	-	28
264	-	-	-	-	-
270	-	-	-	-	-
276	-	-	-	-	-
282	-	-	-	-	-
288	-	-	-	-	-
294	-	-	-	-	-
300	-	-	-	-	-
306	-	-	-	-	-
312	-	-	-	-	-
318	-	-	-	-	-
324	-	-	-	-	-
330	-	-	-	-	-
336	-	-	-	-	-
342	-	-	-	-	-
348	-	-	-	-	-
354	-	-	-	-	-
360	-	-	-	-	-
366	-	-	-	-	-
372	-	-	-	-	-
378	-	-	-	-	-
384	-	-	-	-	-
390	-	-	-	-	-
396	-	-	-	-	-
402	-	-	-	-	-
408	-	-	-	-	-

SCREEN SPANS UP TO	3/8" THREADED ROD & EPOXY			
	HOLLOW BLOCK (w/ A7 & UMBRELLA INSERTS)			
	ANCHOR SPACING (INCHES)			
	12	10	8	6
48	100	120	130	130
54	89	107	130	130
60	80	96	120	130
66	73	87	109	130
72	67	80	100	130
78	62	74	92	123
84	57	69	86	114
90	53	64	80	107
96	50	60	75	100
102	47	56	71	94
108	44	53	67	89
114	42	51	63	84
120	40	48	60	80
126	38	46	57	76
132	36	44	55	73
138	35	42	52	70
144	33	40	50	67
150	32	38	48	64
156	31	37	46	62
162	30	36	44	59
168	29	34	43	57
174	28	33	41	55
180	-	32	40	53
186	-	31	39	52
192	-	30	38	50

SCREEN SPANS UP TO	3/8" THREADED ROD & EPOXY			
	HOLLOW BLOCK (w/ A7 & UMBRELLA INSERTS)			
	ANCHOR SPACING (INCHES)			
	12	10	8	6
198	-	-	-	30
204	-	-	-	29
210	-	-	-	29
216	-	-	-	28
222	-	-	-	-
228	-	-	-	-
234	-	-	-	-
240	-	-	-	-
246	-	-	-	-
252	-	-	-	-
258	-	-	-	-
264	-	-	-	-
270	-	-	-	-
276	-	-	-	-
282	-	-	-	-
288	-	-	-	-
294	-	-	-	-
300	-	-	-	-
306	-	-	-	-
312	-	-	-	-
318	-	-	-	-
324	-	-	-	-
330	-	-	-	-
336	-	-	-	-
342	-	-	-	-
348	-	-	-	-
354	-	-	-	-
360	-	-	-	-
366	-	-	-	-
372	-	-	-	-
378	-	-	-	-
384	-	-	-	-
390	-	-	-	-
396	-	-	-	-
402	-	-	-	-
408	-	-	-	-



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HVHZ &NON-HVHZ, FL

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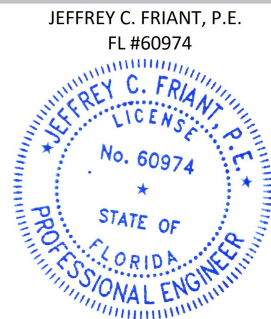
08/22/25

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HOLLOW BLOCK TABLES

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Date: 2025.09.10 10:20:47 -04'00'



SCREEN SPANS UP TO	5/16" SOLID SET				
	HOLLOW BLOCK				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	5
48	71	85	106	130	130
54	63	75	94	126	130
60	57	68	85	113	130
66	51	62	77	103	123
72	47	57	71	94	113
78	44	52	65	87	104
84	40	49	61	81	97
90	38	45	57	75	91
96	35	42	53	71	85
102	33	40	50	67	80
108	31	38	47	63	75
114	30	36	45	60	71
120	28	34	42	57	68
126	-	32	40	54	65
132	-	31	39	51	62
138	-	30	37	49	59
144	-	28	35	47	57
150	-	-	34	45	54
156	-	-	33	44	52
162	-	-	31	42	50
168	-	-	30	40	49
174	-	-	29	39	47
180	-	-	28	38	45
186	-	-	-	37	44
192	-	-	-	35	42

SCREEN SPANS UP TO	5/16" SOLID SET				
	HOLLOW BLOCK				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	5
198	-	-	-	34	41
204	-	-	-	33	40
210	-	-	-	32	39
216	-	-	-	31	38
222	-	-	-	31	37
228	-	-	-	30	36
234	-	-	-	29	35
240	-	-	-	28	34
246	-	-	-	28	33
252	-	-	-	27	32
258	-	-	-	-	32
264	-	-	-	-	31
270	-	-	-	-	30
276	-	-	-	-	30
282	-	-	-	-	29
288	-	-	-	-	28
294	-	-	-	-	28
300	-	-	-	-	-
306	-	-	-	-	-
312	-	-	-	-	-
318	-	-	-	-	-
324	-	-	-	-	-
330	-	-	-	-	-
336	-	-	-	-	-
342	-	-	-	-	-
348	-	-	-	-	-
354	-	-	-	-	-
360	-	-	-	-	-
366	-	-	-	-	-
372	-	-	-	-	-
378	-	-	-	-	-
384	-	-	-	-	-
390	-	-	-	-	-
396	-	-	-	-	-
402	-	-	-	-	-
408	-	-	-	-	-

SCREEN SPANS UP TO	1/4" TAPCON				
	HOLLOW BLOCK				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
48	50	60	75	100	130
54	44	53	67	89	130
60	40	48	60	80	120
66	36	44	55	73	109
72	33	40	50	67	100
78	31	37	46	62	92
84	29	34	43	57	86
90	-	32	40	53	80
96	-	30	38	50	75
102	-	28	35	47	71
108	-	-	33	44	67
114	-	-	32	42	63
120	-	-	30	40	60
126	-	-	29	38	57
132	-	-	-	36	55
138	-	-	-	35	52
144	-	-	-	33	50
150	-	-	-	32	48
156	-	-	-	31	46
162	-	-	-	30	44
168	-	-	-	29	43
174	-	-	-	28	41
180	-	-	-	-	40
186	-	-	-	-	39
192	-	-	-	-	38

SCREEN SPANS UP TO	1/4" TAPCON				
	HOLLOW BLOCK				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
198	-	-	-	-	36
204	-	-	-	-	35
210	-	-	-	-	34
216	-	-	-	-	33
222	-	-	-	-	32
228	-	-	-	-	32
234	-	-	-	-	31
240	-	-	-	-	30
246	-	-	-	-	29
252	-	-	-	-	29
258	-	-	-	-	28
264	-	-	-	-	-
270	-	-	-	-	-
276	-	-	-	-	-
282	-	-	-	-	-
288	-	-	-	-	-
294	-	-	-	-	-
300	-	-	-	-	-
306	-	-	-	-	-
312	-	-	-	-	-
318	-	-	-	-	-
324	-	-	-	-	-
330	-	-	-	-	-
336	-	-	-	-	-
342	-	-	-	-	-
348	-	-	-	-	-
354	-	-	-	-	-
360	-	-	-	-	-
366	-	-	-	-	-
372	-	-	-	-	-
378	-	-	-	-	-
384	-	-	-	-	-
390	-	-	-	-	-
396	-	-	-	-	-
402	-	-	-	-	-
408	-	-	-	-	-



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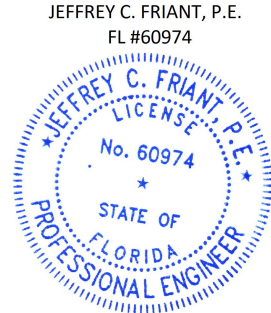
STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DRWN	CHKD	DATE
JCF	MC	08/22/25
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Jeffrey Friant,
P.E. 60974

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Jeffrey Friant, P.E.
60974
Date: 2025.09.10
10:21:01 -04'00'



SCREEN SPANS UP TO	PANELMATE INSERTS				
	HOLLOW BLOCK				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
48	100	120	130	130	130
54	89	107	130	130	130
60	80	96	120	130	130
66	73	87	109	130	130
72	67	80	100	130	130
78	62	74	92	123	130
84	57	69	86	114	130
90	53	64	80	107	130
96	50	60	75	100	130
102	47	56	71	94	130
108	44	53	67	89	130
114	42	51	63	84	126
120	40	48	60	80	120
126	38	46	57	76	114
132	36	44	55	73	109
138	35	42	52	70	104
144	33	40	50	67	100
150	32	38	48	64	96
156	31	37	46	62	92
162	30	36	44	59	89
168	29	34	43	57	86
174	28	33	41	55	83
180	-	32	40	53	80
186	-	31	39	52	77
192	-	30	38	50	75

SCREEN SPANS UP TO	PANELMATE INSERTS				
	HOLLOW BLOCK				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
198	-	29	36	48	73
204	-	28	35	47	71
210	-	-	34	46	69
216	-	-	33	44	67
222	-	-	32	43	65
228	-	-	32	42	63
234	-	-	31	41	62
240	-	-	30	40	60
246	-	-	29	39	59
252	-	-	29	38	57
258	-	-	28	37	56
264	-	-	-	36	55
270	-	-	-	36	53
276	-	-	-	35	52
282	-	-	-	34	51
288	-	-	-	33	50
294	-	-	-	33	49
300	-	-	-	32	48
306	-	-	-	31	47
312	-	-	-	31	46
318	-	-	-	30	45
324	-	-	-	30	44
330	-	-	-	29	44
336	-	-	-	29	43
342	-	-	-	28	42
348	-	-	-	28	41
354	-	-	-	-	41
360	-	-	-	-	40
366	-	-	-	-	39
372	-	-	-	-	39
378	-	-	-	-	38
384	-	-	-	-	38
390	-	-	-	-	37
396	-	-	-	-	36
402	-	-	-	-	36
408	-	-	-	-	35

SCREEN SPANS UP TO	PANELMATE FEMALE				
	HOLLOW BLOCK				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
48	63	75	94	125	130
54	56	67	83	111	130
60	50	60	75	100	130
66	45	55	68	91	130
72	42	50	63	83	125
78	38	46	58	77	115
84	36	43	54	71	107
90	33	40	50	67	100
96	31	38	47	63	94
102	29	35	44	59	88
108	28	33	42	56	83
114	-	32	39	53	79
120	-	30	38	50	75
126	-	29	36	48	71
132	-	-	34	45	68
138	-	-	33	43	65
144	-	-	31	42	63
150	-	-	30	40	60
156	-	-	29	38	58
162	-	-	28	37	56
168	-	-	-	36	54
174	-	-	-	34	52
180	-	-	-	33	50
186	-	-	-	32	48
192	-	-	-	31	47
198	-	-	-	30	45
204	-	-	-	29	44
210	-	-	-	29	43
216	-	-	-	28	42
222	-	-	-	-	41
228	-	-	-	-	39
234	-	-	-	-	38
240	-	-	-	-	38
246	-	-	-	-	37
252	-	-	-	-	36
258	-	-	-	-	35

SCREEN SPANS UP TO	PANELMATE MALE				
	HOLLOW BLOCK				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
48	63	75	94	125	130
54	56	67	83	111	130
60	50	60	75	100	130
66	45	55	68	91	130
72	42	50	63	83	125
78	38	46	58	77	115
84	36	43	54	71	107
90	33	40	50	67	100
96	31	38	47	63	94
102	29	35	44	59	88
108	28	33	42	56	83
114	-	32	39	53	79
120	-	30	38	50	75
126	-	29	36	48	71
132	-	-	34	45	68
138	-	-	33	43	65
144	-	-	31	42	63
150	-	-	30	40	60
156	-	-	29	38	58
162	-	-	28	37	56
168	-	-	-	36	54
174	-	-	-	34	52
180	-	-	-	33	50
186	-	-	-	32	48
192	-	-	-	31	47
198	-	-	-	30	45
204	-	-	-	29	44
210	-	-	-	29	43
216	-	-	-	28	42
222	-	-	-	-	41
228	-	-	-	-	39
234	-	-	-	-	38
240	-	-	-	-	38
246	-	-	-	-	37
252	-	-	-	-	36
258	-	-	-	-	35



Specialty Engineering Services & Solutions, LLC
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STORM SMART INDUSTRIES, LLC

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FORT MYERS, FL
(239) 938-1000

STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

DRWN

JCF

CHKD

MC

DATE

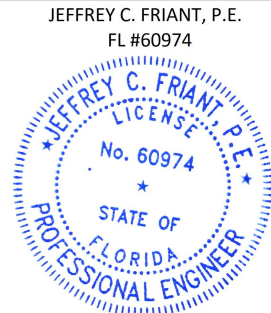
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WOOD TABLES

Jeffrey Friant,
P.E. 60974

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Jeffrey Friant, P.E.
60974
Date: 2025.09.10
10:21:18 -04'00'



SCREEN SPANS UP TO	1/2" COMBO ANCHOR or LAG BOLT				
	WOOD (SYP with SG ≥ 0.55)				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	5
48	105	126	130	130	130
54	93	112	130	130	130
60	84	101	126	130	130
66	76	92	115	130	130
72	70	84	105	130	130
78	65	78	97	129	130
84	60	72	90	120	130
90	56	67	84	112	130
96	53	63	79	105	126
102	49	59	74	99	119
108	47	56	70	93	112
114	44	53	66	88	106
120	42	50	63	84	101
126	40	48	60	80	96
132	38	46	57	76	92
138	37	44	55	73	88
144	35	42	53	70	84
150	34	40	50	67	81
156	32	39	48	65	78
162	31	37	47	62	75
168	30	36	45	60	72
174	29	35	43	58	70
180	28	34	42	56	67
186	-	33	41	54	65
192	-	32	39	53	63

SCREEN SPANS UP TO	1/2" COMBO ANCHOR or LAG BOLT				
	WOOD (SYP with SG ≥ 0.55)				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	5
198	-	31	38	51	60
204	-	30	37	49	59
210	-	29	36	48	58
216	-	28	35	47	56
222	-	-	34	45	54
228	-	-	33	44	53
234	-	-	32	43	52
240	-	-	32	42	50
246	-	-	31	41	49
252	-	-	30	40	48
258	-	-	29	39	47
264	-	-	29	38	46
270	-	-	28	37	45
276	-	-	-	37	44
282	-	-	-	36	43
288	-	-	-	35	42
294	-	-	-	34	41
300	-	-	-	34	40
306	-	-	-	33	40
312	-	-	-	32	39
318	-	-	-	32	38
324	-	-	-	31	37
330	-	-	-	31	37
336	-	-	-	30	36
342	-	-	-	29	35
348	-	-	-	29	35
354	-	-	-	28	34
360	-	-	-	28	34
366	-	-	-	28	33
372	-	-	-	-	33
378	-	-	-	-	32
384	-	-	-	-	32
390	-	-	-	-	31
396	-	-	-	-	31
402	-	-	-	-	30
408	-	-	-	-	30

SCREEN SPANS UP TO	3/8" COMBO ANCHOR or LAG BOLT				
	WOOD (SYP with SG ≥ 0.55)				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	5
48	88	105	130	130	130
54	78	93	117	130	130
60	70	84	105	130	130
66	64	76	95	127	130
72	58	70	88	117	130
78	54	65	81	108	129
84	50	60	75	100	120
90	47	56	70	93	112
96	44	53	66	88	105
102	41	49	62	82	99
108	39	47	58	78	93
114	37	44	55	74	88
120	35	42	53	70	84
126	33	40	50	67	80
132	32	38	48	64	76
138	30	37	46	61	73
144	29	35	44	58	70
150	28	34	42	56	67
156	-	32	40	54	65
162	-	31	39	52	62
168	-	30	38	50	60
174	-	29	36	48	58
180	-	28	35	47	56
186	-	-	34	45	54
192	-	-	33	44	53

SCREEN SPANS UP TO	3/8" COMBO ANCHOR or LAG BOLT				
	WOOD (SYP with SG ≥ 0.55)				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	5
198	-	-	32	42	51
204	-	-	31	41	49
210	-	-	30	40	48
216	-	-	29	39	47
222	-	-	28	38	45
228	-	-	28	37	44
234	-	-	-	36	43
240	-	-	-	35	42
246	-	-	-	34	41
252	-	-	-	33	40
258	-	-	-	33	39
264	-	-	-	32	38
270	-	-	-	31	37
276	-	-	-	30	37
282	-	-	-	30	36
288	-	-	-	29	35
294	-	-	-	29	34
300	-	-	-	28	34
306	-	-	-	-	33
312	-	-	-	-	32
318	-	-	-	-	32
324	-	-	-	-	31
330	-	-	-	-	31
336	-	-	-	-	30
342	-	-	-	-	29
348	-	-	-	-	29
354	-	-	-	-	28
360	-	-	-	-	28
366	-	-	-	-	28
372	-	-	-	-	-
378	-	-	-	-	-
384	-	-	-	-	-
390	-	-	-	-	-
396	-	-	-	-	-
402	-	-	-	-	-
408	-	-	-	-	-



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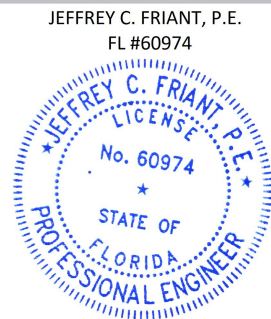
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HVHZ &NON-HVHZ, FL

DRWN	CHKD	DATE
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WOOD TABLES

Jeffrey Friant, P.E. 60974

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Date: 2025.09.10 10:21:34 -04'00'



SCREEN SPANS UP TO	5/16" ULTRACON & STRAP BRACKET				
	WOOD (SYP with SG ≥ 0.55)				
	ANCHOR SPACING (INCHES)				
	16	12	10	8	6
48	103	130	130	130	130
54	92	122	130	130	130
60	83	110	130	130	130
66	75	100	120	130	130
72	69	92	110	130	130
78	63	85	102	127	130
84	59	79	94	118	130
90	55	73	88	110	130
96	52	69	83	103	130
102	49	65	78	97	129
108	46	61	73	92	122
114	43	58	69	87	116
120	41	55	66	83	110
126	39	52	63	79	105
132	38	50	60	75	100
138	36	48	57	72	96
144	34	46	55	69	92
150	33	44	53	66	88
156	32	42	51	63	85
162	31	41	49	61	81
168	29	39	47	59	79
174	28	38	46	57	76
180	28	37	44	55	73
186	-	35	43	53	71
192	-	34	41	52	69

SCREEN SPANS UP TO	5/16" ULTRACON & STRAP BRACKET				
	WOOD (SYP with SG ≥ 0.55)				
	ANCHOR SPACING (INCHES)				
	16	12	10	8	6
198	-	33	40	50	67
204	-	32	39	49	65
210	-	31	38	47	63
216	-	31	37	46	61
222	-	30	36	45	59
228	-	29	35	43	58
234	-	28	34	42	56
240	-	28	33	41	55
246	-	-	32	40	54
252	-	-	31	39	52
258	-	-	31	38	51
264	-	-	30	38	50
270	-	-	29	37	49
276	-	-	29	36	48
282	-	-	28	35	47
288	-	-	28	34	46
294	-	-	-	34	45
300	-	-	-	33	44
306	-	-	-	32	43
312	-	-	-	32	42
318	-	-	-	31	42
324	-	-	-	31	41
330	-	-	-	30	40
336	-	-	-	29	39
342	-	-	-	29	39
348	-	-	-	28	38
354	-	-	-	28	37
360	-	-	-	28	37
366	-	-	-	-	36
372	-	-	-	-	35
378	-	-	-	-	35
384	-	-	-	-	34
390	-	-	-	-	34
396	-	-	-	-	33
402	-	-	-	-	33
408	-	-	-	-	32

SCREEN SPANS UP TO	1/4" TAPCON & STRAP BRACKET				
	WOOD (SYP with SG ≥ 0.55)				
	ANCHOR SPACING (INCHES)				
	16	12	10	8	6
48	75	100	120	130	130
54	67	89	107	130	130
60	60	80	96	120	130
66	55	73	87	109	130
72	50	67	80	100	130
78	46	62	74	92	123
84	43	57	69	86	114
90	40	53	64	80	107
96	38	50	60	75	100
102	35	47	56	71	94
108	33	44	53	67	89
114	32	42	51	63	84
120	30	40	48	60	80
126	29	38	46	57	76
132	-	36	44	55	73
138	-	35	42	52	70
144	-	33	40	50	67
150	-	32	38	48	64
156	-	31	37	46	62
162	-	30	36	44	59
168	-	29	34	43	57
174	-	28	33	41	55
180	-	-	32	40	53
186	-	-	31	39	52
192	-	-	30	38	50

SCREEN SPANS UP TO	1/4" TAPCON & STRAP BRACKET				
	WOOD (SYP with SG ≥ 0.55)				
	ANCHOR SPACING (INCHES)				
	16	12	10	8	6
198	-	-	29	36	48
204	-	-	28	35	47
210	-	-	-	34	46
216	-	-	-	33	44
222	-	-	-	32	43
228	-	-	-	32	42
234	-	-	-	31	41
240	-	-	-	30	40
246	-	-	-	29	39
252	-	-	-	29	38
258	-	-	-	28	37
264	-	-	-	-	36
270	-	-	-	-	36
276	-	-	-	-	35
282	-	-	-	-	34
288	-	-	-	-	33
294	-	-	-	-	33
300	-	-	-	-	32
306	-	-	-	-	31
312	-	-	-	-	31
318	-	-	-	-	30
324	-	-	-	-	30
330	-	-	-	-	29
336	-	-	-	-	29
342	-	-	-	-	28
348	-	-	-	-	28
354	-	-	-	-	-
360	-	-	-	-	-
366	-	-	-	-	-
372	-	-	-	-	-
378	-	-	-	-	-
384	-	-	-	-	-
390	-	-	-	-	-
396	-	-	-	-	-
402	-	-	-	-	-
408	-	-	-	-	-



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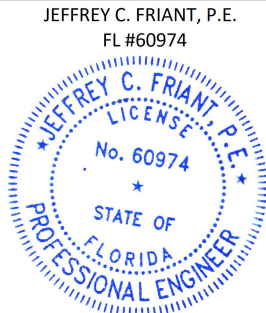
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DRWN	CHKD	DATE
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Jeffrey Friant,
P.E. 60974

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Jeffrey Friant, P.E.
60974
Date: 2025.09.10
10:21:49 -04'00'



SCREEN SPANS UP TO	1/4" TAPCON				
	WOOD				
	SYP (SG .55)				
	ANCHOR SPACING (INCHES)				
	10	8	6	5	4
48	105	130	130	130	130
54	93	117	130	130	130
60	84	105	130	130	130
66	76	95	127	130	130
72	70	88	117	130	130
78	65	81	108	129	130
84	60	75	100	120	130
90	56	70	93	112	130
96	53	66	88	105	130
102	49	62	82	99	124
108	47	58	78	93	117
114	44	55	74	88	111
120	42	53	70	84	105
126	40	50	67	80	100
132	38	48	64	76	95
138	37	46	61	73	91
144	35	44	58	70	88
150	34	42	56	67	84
156	32	40	54	65	81
162	31	39	52	62	78
168	30	38	50	60	75
174	29	36	48	58	72
180	28	35	47	56	70
186	-	34	45	54	68
192	-	33	44	53	66

SCREEN SPANS UP TO	1/4" TAPCON				
	WOOD				
	SYP (SG .55)				
	ANCHOR SPACING (INCHES)				
	10	8	6	5	4
198	-	32	42	51	64
204	-	31	41	49	62
210	-	30	40	48	60
216	-	29	39	47	58
222	-	28	38	45	57
228	-	28	37	44	55
234	-	-	36	43	54
240	-	-	35	42	53
246	-	-	34	41	51
252	-	-	33	40	50
258	-	-	33	39	49
264	-	-	32	38	48
270	-	-	31	37	47
276	-	-	30	37	46
282	-	-	30	36	45
288	-	-	29	35	44
294	-	-	29	34	43
300	-	-	28	34	42
306	-	-	-	33	41
312	-	-	-	32	40
318	-	-	-	32	40
324	-	-	-	31	39
330	-	-	-	31	38
336	-	-	-	30	38
342	-	-	-	29	37
348	-	-	-	29	36
354	-	-	-	28	36
360	-	-	-	28	35
366	-	-	-	28	34
372	-	-	-	-	34
378	-	-	-	-	33
384	-	-	-	-	33
390	-	-	-	-	32
396	-	-	-	-	32
402	-	-	-	-	31
408	-	-	-	-	31

SCREEN SPANS UP TO	PANELMATE INSERTS				
	WOOD				
	SYP (SG .55)				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
48	87	105	130	130	130
54	78	93	116	130	130
60	70	84	105	130	130
66	63	76	95	127	130
72	58	70	87	116	130
78	54	64	81	107	130
84	50	60	75	100	130
90	47	56	70	93	130
96	44	52	65	87	130
102	41	49	62	82	123
108	39	47	58	78	116
114	37	44	55	73	110
120	35	42	52	70	105
126	33	40	50	66	100
132	32	38	48	63	95
138	30	36	46	61	91
144	29	35	44	58	87
150	28	34	42	56	84
156	27	32	40	54	81
162	26	31	39	52	78
168	25	30	37	50	75
174	24	29	36	48	72
180	23	28	35	47	70
186	-	-	34	45	68
192	-	-	33	44	65

SCREEN SPANS UP TO	PANELMATE INSERTS				
	WOOD				
	SYP (SG .55)				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
198	-	-	32	42	60
204	-	-	31	41	60
210	-	-	30	40	60
216	-	-	29	39	58
222	-	-	28	38	57
228	-	-	28	37	55
234	-	-	-	36	54
240	-	-	-	35	52
246	-	-	-	34	51
252	-	-	-	33	50
258	-	-	-	32	49
264	-	-	-	32	48
270	-	-	-	31	47
276	-	-	-	30	46
282	-	-	-	30	45
288	-	-	-	29	44
294	-	-	-	28	43
300	-	-	-	28	42
306	-	-	-	-	41
312	-	-	-	-	40
318	-	-	-	-	40
324	-	-	-	-	39
330	-	-	-	-	38
336	-	-	-	-	37
342	-	-	-	-	37
348	-	-	-	-	36
354	-	-	-	-	35
360	-	-	-	-	35
366	-	-	-	-	34
372	-	-	-	-	34
378	-	-	-	-	33
384	-	-	-	-	33
390	-	-	-	-	32
396	-	-	-	-	32
402	-	-	-	-	31
408	-	-	-	-	31



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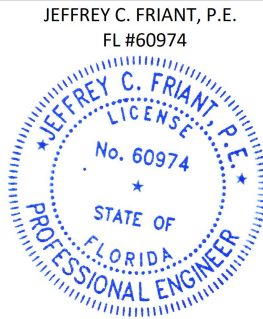
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Jeffrey Friant, P.E. 60974

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Date: 2025.09.10 10:22:05 -04'00'



SCREEN SPANS UP TO	PANELMATE FEMALE				
	WOOD SYP (SG .55)				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
48	87	105	130	130	130
54	78	93	116	130	130
60	70	84	105	130	130
66	63	76	95	127	130
72	58	70	87	116	130
78	54	64	81	107	130
84	50	60	75	100	130
90	47	56	70	93	130
96	44	52	65	87	130
102	41	49	62	82	123
108	39	47	58	78	116
114	37	44	55	73	110
120	35	42	52	70	105
126	33	40	50	66	100
132	32	38	48	63	95
138	30	36	46	61	91
144	29	35	44	58	87
150	28	34	42	56	84
156	27	32	40	54	81
162	26	31	39	52	78
168	25	30	37	50	75
174	24	29	36	48	72
180	23	28	35	47	70
186	-	-	34	45	68
192	-	-	33	44	65

SCREEN SPANS UP TO	PANELMATE FEMALE				
	WOOD SYP (SG .55)				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
198	-	-	32	42	60
204	-	-	31	41	60
210	-	-	30	40	60
216	-	-	29	39	58
222	-	-	28	38	57
228	-	-	28	37	55
234	-	-	-	36	54
240	-	-	-	35	52
246	-	-	-	34	51
252	-	-	-	33	50
258	-	-	-	32	49
264	-	-	-	32	48
270	-	-	-	31	47
276	-	-	-	30	46
282	-	-	-	30	45
288	-	-	-	29	44
294	-	-	-	28	43
300	-	-	-	28	42
306	-	-	-	-	41
312	-	-	-	-	40
318	-	-	-	-	40
324	-	-	-	-	39
330	-	-	-	-	38
336	-	-	-	-	37
342	-	-	-	-	37
348	-	-	-	-	36
354	-	-	-	-	35
360	-	-	-	-	35
366	-	-	-	-	34
372	-	-	-	-	34
378	-	-	-	-	33
384	-	-	-	-	33
390	-	-	-	-	32
396	-	-	-	-	32
402	-	-	-	-	31
408	-	-	-	-	31

SCREEN SPANS UP TO	PANELMATE MALE				
	WOOD SYP (SG .55)				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
48	87	105	130	130	130
54	78	93	116	130	130
60	70	84	105	130	130
66	63	76	95	127	130
72	58	70	87	116	130
78	54	64	81	107	130
84	50	60	75	100	130
90	47	56	70	93	130
96	44	52	65	87	130
102	41	49	62	82	123
108	39	47	58	78	116
114	37	44	55	73	110
120	35	42	52	70	105
126	33	40	50	66	100
132	32	38	48	63	95
138	30	36	46	61	91
144	29	35	44	58	87
150	28	34	42	56	84
156	27	32	40	54	81
162	26	31	39	52	78
168	25	30	37	50	75
174	24	29	36	48	72
180	23	28	35	47	70
186	-	-	34	45	68
192	-	-	33	44	65

SCREEN SPANS UP TO	PANELMATE MALE				
	WOOD SYP (SG .55)				
	ANCHOR SPACING (INCHES)				
	12	10	8	6	4
198	-	-	32	42	60
204	-	-	31	41	60
210	-	-	30	40	60
216	-	-	29	39	58
222	-	-	28	38	57
228	-	-	28	37	55
234	-	-	-	36	54
240	-	-	-	35	52
246	-	-	-	34	51
252	-	-	-	33	50
258	-	-	-	32	49
264	-	-	-	32	48
270	-	-	-	31	47
276	-	-	-	30	46
282	-	-	-	30	45
288	-	-	-	29	44
294	-	-	-	28	43
300	-	-	-	28	42
306	-	-	-	-	41
312	-	-	-	-	40
318	-	-	-	-	40
324	-	-	-	-	39
330	-	-	-	-	38
336	-	-	-	-	37
342	-	-	-	-	37
348	-	-	-	-	36
354	-	-	-	-	35
360	-	-	-	-	35
366	-	-	-	-	34
372	-	-	-	-	34
378	-	-	-	-	33
384	-	-	-	-	33
390	-	-	-	-	32
396	-	-	-	-	32
402	-	-	-	-	31
408	-	-	-	-	31



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STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
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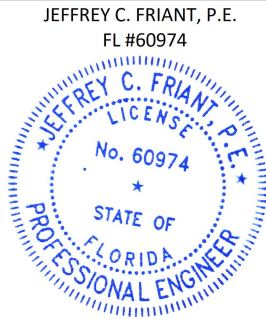
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ALUMINUM & STEEL TABLES

ALLOWABLE BRAND: ITW BUILDEX SAMMY

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SCREEN SPANS UP TO	1/4" SAMMY				
	16 GA Steel (A36)				
	ANCHOR SPACING (INCHES)				
	8	6	5	4	3
48	92	123	130	130	130
54	82	109	130	130	130
60	74	98	118	130	130
66	67	89	107	130	130
72	62	82	98	123	130
78	57	76	91	114	130
84	53	70	84	105	130
90	49	66	79	98	130
96	46	62	74	92	123
102	43	58	69	87	116
108	41	55	66	82	109
114	39	52	62	78	104
120	37	49	59	74	98
126	35	47	56	70	94
132	34	45	54	67	89
138	32	43	51	64	86
144	31	41	49	62	82
150	30	39	47	59	79
156	28	38	45	57	76
162	-	36	44	55	73
168	-	35	42	53	70
174	-	34	41	51	68
180	-	33	39	49	66
186	-	32	38	48	63
192	-	31	37	46	62

SCREEN SPANS UP TO	1/4" SAMMY				
	16 GA Steel (A36)				
	ANCHOR SPACING (INCHES)				
	8	6	5	4	3
198	-	30	36	45	60
204	-	29	35	43	58
210	-	28	34	42	56
216	-	27	33	41	55
222	-	-	32	40	53
228	-	-	31	39	52
234	-	-	30	38	50
240	-	-	30	37	49
246	-	-	29	36	48
252	-	-	28	35	47
258	-	-	-	34	46
264	-	-	-	34	45
270	-	-	-	33	44
276	-	-	-	32	43
282	-	-	-	31	42
288	-	-	-	31	41
294	-	-	-	30	40
300	-	-	-	30	39
306	-	-	-	29	39
312	-	-	-	28	38
318	-	-	-	28	37
324	-	-	-	-	36
330	-	-	-	-	36
336	-	-	-	-	35
342	-	-	-	-	35
348	-	-	-	-	34
354	-	-	-	-	33
360	-	-	-	-	33
366	-	-	-	-	32
372	-	-	-	-	32
378	-	-	-	-	31
384	-	-	-	-	31
390	-	-	-	-	30
396	-	-	-	-	30
402	-	-	-	-	29
408	-	-	-	-	29

SCREEN SPANS UP TO	1/4" TEKS				
	1/8" Alum (MIN 6063-T5)				
	ANCHOR SPACING (INCHES)				
	8	6	5	4	3
48	95	127	130	130	130
54	85	113	130	130	130
60	76	102	122	130	130
66	69	92	111	130	130
72	64	85	102	127	130
78	59	78	94	117	130
84	54	73	87	109	130
90	51	68	81	102	130
96	48	64	76	95	127
102	45	60	72	90	120
108	42	56	68	85	113
114	40	53	64	80	107
120	38	51	61	76	102
126	36	48	58	73	97
132	35	46	55	69	92
138	33	44	53	66	88
144	32	42	51	64	85
150	30	41	49	61	81
156	29	39	47	59	78
162	28	38	45	56	75
168	-	36	44	54	73
174	-	35	42	53	70
180	-	34	41	51	68
186	-	33	39	49	66
192	-	32	38	48	64

SCREEN SPANS UP TO	1/4" TEKS				
	1/8" Alum (MIN 6063-T5)				
	ANCHOR SPACING (INCHES)				
	8	6	5	4	3
198	-	31	37	46	60
204	-	30	36	45	60
210	-	29	35	44	58
216	-	28	34	42	56
222	-	-	33	41	55
228	-	-	32	40	53
234	-	-	31	39	52
240	-	-	30	38	51
246	-	-	30	37	50
252	-	-	29	36	48
258	-	-	28	35	47
264	-	-	28	35	46
270	-	-	-	34	45
276	-	-	-	33	44
282	-	-	-	32	43
288	-	-	-	32	42
294	-	-	-	31	41
300	-	-	-	30	41
306	-	-	-	30	40
312	-	-	-	29	39
318	-	-	-	29	38
324	-	-	-	28	38
330	-	-	-	28	37
336	-	-	-	-	36
342	-	-	-	-	36
348	-	-	-	-	35
354	-	-	-	-	34
360	-	-	-	-	34
366	-	-	-	-	33
372	-	-	-	-	33
378	-	-	-	-	32
384	-	-	-	-	32
390	-	-	-	-	31
396	-	-	-	-	31
402	-	-	-	-	30
408	-	-	-	-	30



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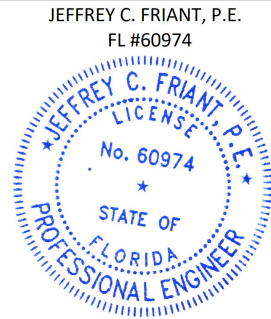
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ALUMINUM & STEEL TABLES

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SCREEN SPANS UP TO	1/4" TEKS				
	1/8" Steel (A36)				
	ANCHOR SPACING (INCHES)				
	8	6	5	4	3
48	130	130	130	130	130
54	130	130	130	130	130
60	130	130	130	130	130
66	130	130	130	130	130
72	125	130	130	130	130
78	115	130	130	130	130
84	107	130	130	130	130
90	100	130	130	130	130
96	94	125	130	130	130
102	88	118	130	130	130
108	83	111	130	130	130
114	79	105	126	130	130
120	75	100	120	130	130
126	71	95	114	130	130
132	68	91	109	130	130
138	65	87	104	130	130
144	63	83	100	125	130
150	60	80	96	120	130
156	58	77	92	115	130
162	56	74	89	111	130
168	54	71	86	107	130
174	52	69	83	103	130
180	50	67	80	100	130
186	48	65	77	97	129
192	47	63	75	94	125

SCREEN SPANS UP TO	1/4" TEKS				
	1/8" Steel (A36)				
	ANCHOR SPACING (INCHES)				
	8	6	5	4	3
198	45	60	60	60	60
204	44	59	60	60	60
210	43	57	60	60	60
216	42	56	60	60	60
222	41	54	60	60	60
228	39	53	60	60	60
234	38	51	60	60	60
240	38	50	60	60	60
246	37	49	59	60	60
252	36	48	57	60	60
258	35	47	56	60	60
264	34	45	55	60	60
270	33	44	53	60	60
276	33	43	52	60	60
282	32	43	51	60	60
288	31	42	50	60	60
294	31	41	49	60	60
300	30	40	48	60	60
306	29	39	47	59	60
312	29	38	46	58	60
318	28	38	45	57	60
324	28	37	44	56	60
330	-	36	44	55	60
336	-	36	43	54	60
342	-	35	42	53	60
348	-	34	41	52	60
354	-	34	41	51	60
360	-	33	40	50	60
366	-	33	39	49	60
372	-	32	39	48	60
378	-	32	38	48	60
384	-	31	38	47	60
390	-	31	37	46	60
396	-	30	36	45	60
402	-	30	36	45	60
408	-	29	35	44	59

SCREEN SPANS UP TO	1/4" TEKS				
	1/4" Alum (MIN 6063-T5)				
	ANCHOR SPACING (INCHES)				
	10	8	6	5	3
48	130	130	130	130	130
54	130	130	130	130	130
60	130	130	130	130	130
66	130	130	130	130	130
72	130	130	130	130	130
78	129	130	130	130	130
84	120	130	130	130	130
90	112	130	130	130	130
96	105	130	130	130	130
102	99	124	130	130	130
108	93	117	130	130	130
114	88	111	130	130	130
120	84	105	130	130	130
126	80	100	130	130	130
132	76	95	127	130	130
138	73	91	122	130	130
144	70	88	117	130	130
150	67	84	112	130	130
156	65	81	108	129	130
162	62	78	104	124	130
168	60	75	100	120	130
174	58	72	97	116	130
180	56	70	93	112	130
186	54	68	90	108	130
192	53	66	88	105	130

SCREEN SPANS UP TO	1/4" TEKS				
	1/4" Alum (MIN 6063-T5)				
	ANCHOR SPACING (INCHES)				
	10	8	6	5	3
198	51	60	60	60	60
204	49	60	60	60	60
210	48	60	60	60	60
216	47	58	60	60	60
222	45	57	60	60	60
228	44	55	60	60	60
234	43	54	60	60	60
240	42	53	60	60	60
246	41	51	60	60	60
252	40	50	60	60	60
258	39	49	60	60	60
264	38	48	60	60	60
270	37	47	60	60	60
276	37	46	60	60	60
282	36	45	60	60	60
288	35	44	58	60	60
294	34	43	57	60	60
300	34	42	56	60	60
306	33	41	55	60	60
312	32	40	54	60	60
318	32	40	53	60	60
324	31	39	52	60	60
330	31	38	51	60	60
336	30	38	50	60	60
342	29	37	49	59	60
348	29	36	48	58	60
354	28	36	47	57	60
360	28	35	47	56	60
366	28	34	46	55	60
372	-	34	45	54	60
378	-	33	44	53	60
384	-	33	44	53	60
390	-	32	43	52	60
396	-	32	42	51	60
402	-	31	42	50	60
408	-	31	41	49	60



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(239) 938-1000

STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

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EARTH ANCHOR TABLE

SCREEN SPANS UP TO	EARTH ANCHOR 1/2" Shaft & 4" Helix		
	SOIL CLASS 4A		
	MEDIUM DENSE SAND		
	ANCHOR SPACING (INCHES)		
	24 ⁽¹⁾	24 ⁽²⁾	24 ⁽³⁾
48	88	113	130
54	78	100	130
60	70	90	120
66	64	82	109
72	58	75	100
78	54	69	92
84	50	64	86
90	47	60	80
96	44	56	75
102	41	53	71
108	39	50	67
114	37	47	63
120	35	45	60
126	33	43	57
132	32	41	55
138	30	39	52
144	29	38	50
150	28	36	48
156	-	35	46
162	-	33	44
168	-	32	43
174	-	31	41
180	-	30	40
186	-	29	39
192	-	28	38
198	-	-	36
204	-	-	35
210	-	-	34
216	-	-	33
222	-	-	32
228	-	-	32
234	-	-	31
240	-	-	30
246	-	-	29
252	-	-	29
258	-	-	28

NOTES:

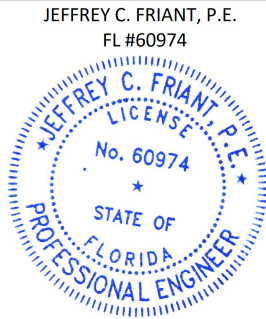
- 1) Use when soil conditions are visually identified to be loose to medium dense sand (Soil Class 4A)
- 2) Use when soil conditions are mechanically identified to be Soil Class 3.
- 3) Use with Stabilizer plates are used when soil conditions are visually identified to be loose to medium dense sand (Soil Class 4A)

a) Soil Class 3: 24-39 blow count device or 351-550 a torque probe

b) Soil Class 4A: 18-23 blow count device or 276-350 a torque probe

Jeffrey Friant,
P.E. 60974

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Jeffrey Friant, P.E. 60974
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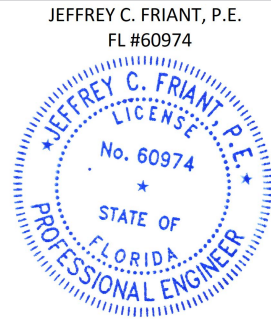
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REQUIRED ALUMINUM THICKNESS TABLES

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P.E. 60974

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Jeffrey Friant, P.E.
60974
Date: 2025.09.10
10:23:14 -04'00'



REQUIRED THICKNESS FOR RIPPED ALUMINUM TUBE (1"leg Length)												
Span (in)	DESIGN PRESSURE (PSF)											
	30	40	50	60	70	75	80	90	100	110	120	130
48	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
54	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
60	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
66	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
72	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
78	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
84	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
90	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
96	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
102	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
108	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
114	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
120	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
126	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
132	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
138	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
144	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
150	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
156	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
162	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
168	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4
174	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4
180	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4
186	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4
192	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4
198	1/8	1/8	1/8	1/8								
204	1/8	1/8	1/8	1/8								
210	1/8	1/8	1/8	1/8								
216	1/8	1/8	1/8	1/8								
222	1/8	1/8	1/8	1/8								
228	1/8	1/8	1/8	1/8								
234	1/8	1/8	1/8	1/8								
240	1/8	1/8	1/8	1/8								
246	1/8	1/8	1/8	1/8								
252	1/8	1/8	1/8	1/8								
258	1/8	1/8	1/8	1/8								
264	1/8	1/8	1/8	1/8								
270	1/8	1/8	1/8	1/8								
276	1/8	1/8	1/8	1/8								
282	1/8	1/8	1/8	1/8								
288	1/8	1/8	1/8	1/8								
294	1/8	1/8	1/8	1/8								
300	1/8	1/8	1/8	1/8								
306	1/8	1/8	1/8	1/8								
312	1/8	1/8	1/8	1/8								
318	1/8	1/8	1/8	1/8								
324	1/8	1/8	1/8	1/8								
330	1/8	1/8	1/8	1/8								
336	1/8	1/8	1/8	1/8								
342	1/8	1/8	1/8	1/8								
348	1/8	1/8	1/8	1/8								
354	1/8	1/8	1/8	1/8								
360	1/8	1/8	1/8	1/8	1/4							
366	1/8	1/8	1/8	1/8	1/4							
372	1/8	1/8	1/8	1/8	1/4							
378	1/8	1/8	1/8	1/8	1/4							
384	1/8	1/8	1/8	1/8	1/4							
390	1/8	1/8	1/8	1/8	1/4							
396	1/8	1/8	1/8	1/8	1/4							
402	1/8	1/8	1/8	1/8	1/4							
408	1/8	1/8	1/8	1/8	1/4							

REQUIRED THICKNESS FOR RIPPED ALUMINUM TUBE (2"leg Length)												
Span (in)	DESIGN PRESSURE (PSF)											
	30	40	50	60	70	75	80	90	100	110	120	130
48	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
54	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
60	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
66	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
72	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
78	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
84	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
90	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
96	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
102	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
108	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
114	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
120	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
126	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
132	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
138	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4
144	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4
150	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4
156	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4
162	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4
168	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4
174	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4
180	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4
186	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4
192	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4
198	1/8	1/8	1/8	1/8								
204	1/8	1/8	1/8	1/8								
210	1/8	1/8	1/8	1/8								
216	1/8	1/8	1/8	1/8								
222	1/8	1/8	1/8	1/8								
228	1/8	1/8	1/8	1/8								
234	1/8	1/8	1/8	1/8								
240	1/8	1/8	1/8	1/8								
246	1/8	1/8	1/8	1/8								
252	1/8	1/8	1/8	1/8								
258	1/8	1/8	1/8	1/8								
264	1/8	1/8	1/8	1/8								
270	1/8	1/8	1/8	1/8								
276	1/8	1/8	1/8	1/8								
282	1/8	1/8	1/8	1/8								
288	1/8	1/8	1/8	1/8	1/4							
294	1/8	1/8	1/8	1/8	1/4							
300	1/8	1/8	1/8	1/8	1/4							
306	1/8	1/8	1/8	1/8	1/4							
312	1/8	1/8	1/8	1/8	1/4							
318	1/8	1/8	1/8	1/8	1/4							
324	1/8	1/8	1/8	1/8	1/4							
330	1/8	1/8	1/8	1/8	1/4							
336	1/8	1/8	1/8	1/8	1/4							
342	1/8	1/8	1/8	1/8	1/4							
348	1/8	1/8	1/8	1/4	1/4							
354	1/8	1/8	1/8	1/4	1/4							
360	1/8	1/8	1/8	1/4	1/4							
366	1/8	1/8	1/8	1/4	1/4							
372	1/8	1/8	1/8	1/4	1/4							
378	1/8	1/8	1/8	1/4	1/4							
384	1/8	1/8	1/8	1/4	1/4							
390	1/8	1/8	1/8	1/4	1/4							
396	1/8	1/8	1/8	1/4	1/4							
402	1/8	1/8	1/8	1/4	1/4							
408	1/8	1/8	1/8	1/4	1/4							



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STORM SMART INDUSTRIES, LLC

6182 IDLEWILD STREET
FORT MYERS, FL
(239) 938-1000

STORM CATCHER WIND ABATEMENT SYSTEM FL11291-R13
HVHZ &NON-HVHZ, FL

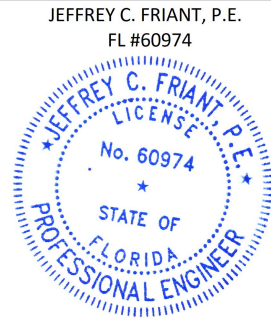
DRWN	CHKD	DATE
JCF	MC	08/22/25

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REQUIRED ALUMINUM THICKNESS TABLES

Jeffrey Friant, P.E. 60974

Digitally signed by Jeffrey Friant, P.E. 60974
Date: 2025.09.10 10:23:29 -04'00'



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DRWN	CHKD	DATE
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REQUIRED THICKNESS FOR RIPPED ALUMINUM TUBE (3"leg Length)												
Span (in)	DESIGN PRESSURE (PSF)											
	30	40	50	60	70	75	80	90	100	110	120	130
48	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
54	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
60	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
66	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
72	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
78	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
84	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8
90	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4
96	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4
102	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4
108	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4
114	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4
120	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4
126	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4
132	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4
138	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4
144	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4
150	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4
156	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4
162	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4
168	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
174	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
180	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
186	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
192	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
198	1/8	1/8	1/8	1/4								
204	1/8	1/8	1/8	1/4								
210	1/8	1/8	1/8	1/4								
216	1/8	1/8	1/8	1/4								
222	1/8	1/8	1/8	1/4								
228	1/8	1/8	1/8	1/4								
234	1/8	1/8	1/4	1/4								
240	1/8	1/8	1/4	1/4								
246	1/8	1/8	1/4	1/4								
252	1/8	1/8	1/4	1/4								
258	1/8	1/8	1/4	1/4								
264	1/8	1/8	1/4	1/4								
270	1/8	1/8	1/4	1/4								
276	1/8	1/8	1/4	1/4								
282	1/8	1/8	1/4	1/4								
288	1/8	1/4	1/4	1/4								
294	1/8	1/4	1/4	1/4								
300	1/8	1/4	1/4	1/4								
306	1/8	1/4	1/4	1/4								
312	1/8	1/4	1/4	1/4								
318	1/8	1/4	1/4	1/4								
324	1/8	1/4	1/4	1/4								
330	1/8	1/4	1/4	1/4								
336	1/8	1/4	1/4	1/4								
342	1/8	1/4	1/4	1/4								
348	1/8	1/4	1/4	1/4								
354	1/8	1/4	1/4	1/4								
360	1/8	1/4	1/4	1/4								
366	1/8	1/4	1/4	1/4								
372	1/8	1/4	1/4	1/4								
378	1/8	1/4	1/4	1/4								
384	1/4	1/4	1/4	1/4								
390	1/4	1/4	1/4	1/4								
396	1/4	1/4	1/4	1/4								
402	1/4	1/4	1/4	1/4								
408	1/4	1/4	1/4	1/4								

REQUIRED THICKNESS FOR RIPPED ALUMINUM TUBE (4"leg Length)												
Span (in)	DESIGN PRESSURE (PSF)											
	30	40	50	60	70	75	80	90	100	110	120	130
48	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4
54	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4
60	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4
66	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4
72	1/8	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4
78	1/8	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4
84	1/8	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4
90	1/8	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
96	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
102	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
108	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
114	1/8	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
120	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
126	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
132	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
138	1/8	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
144	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
150	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
156	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
162	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
168	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
174	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
180	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
186	1/8	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
192	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4	1/4
198	1/4	1/4	1/4	1/4								
204	1/4	1/4	1/4	1/4								
210	1/4	1/4	1/4	1/4								
216	1/4	1/4	1/4	1/4								
222	1/4	1/4	1/4	1/4								
228	1/4	1/4	1/4	1/4								
234	1/4	1/4	1/4	1/4								
240	1/4	1/4	1/4	1/4								
246	1/4	1/4	1/4	1/4								
252	1/4	1/4	1/4	1/4								
258	1/4	1/4	1/4	1/4								
264	1/4	1/4	1/4	1/4								
270	1/4	1/4	1/4	1/4								
276	1/4	1/4	1/4	1/4								
282	1/4	1/4	1/4	1/4								
288	1/4	1/4	1/4	1/4								
294	1/4	1/4	1/4	1/4								
300	1/4	1/4	1/4	1/4								
306	1/4	1/4	1/4	1/4								
312	1/4	1/4	1/4	1/4								
318	1/4	1/4	1/4	1/4								
324	1/4	1/4	1/4	1/4								
330	1/4	1/4	1/4	1/4								
336	1/4	1/4	1/4	1/4								
342	1/4	1/4	1/4	1/4								
348	1/4	1/4	1/4	1/4								
354	1/4	1/4	1/4	1/4								
360	1/4	1/4	1/4	1/4								
366	1/4	1/4	1/4	1/4								
372	1/4	1/4	1/4	1/4								
378	1/4	1/4	1/4	1/4								
384	1/4	1/4	1/4	1/4								
390	1/4	1/4	1/4	1/4								
396	1/4	1/4	1/4	1/4								
402	1/4	1/4	1/4	1/4								
408	1/4	1/4	1/4	1/4								