

ECOFASTEN CLICKFIT PHOTOVOLTAIC PANEL RACKING SYSTEM WITH ECOFASTEN GF1 L-FOOT ROOF ATTACHMENT

GENERAL NOTES:

1. THIS SYSTEM MEETS ALL OF THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS.
2. THIS SYSTEM HAS BEEN TESTED PER TAS 100(A) AND ASTM D7147. IT IS NOT A PART OF THE BUILDING ENVELOPE, AND IMPACT RESISTANCE IS NOT REQUIRED.
3. THE PV PANELS ARE BY OTHERS AND ARE NOT A PART OF THIS APPROVAL.
4. RAIL SPACING TO BE AS SPECIFIED BY THE PV PANEL MANUFACTURER'S INSTALLATION INSTRUCTIONS.
5. THE RAIL ANCHORS ARE ECOFASTEN CLICKFIT GF1 L-FOOT ROOF ATTACHMENTS. PLEASE SEE FLPA# 39871 FOR INSTALLATION INSTRUCTIONS.
6. THE DESIGN OF THE ROOF SUBSTRATE IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD OR OTHER SPECIALTY ENGINEER, AND IS NOT A PART OF THIS APPROVAL. THE SUBSTRATE MUST SAFELY TRANSMIT THE LOADS APPLIED TO THIS SYSTEM TO THE BUILDING STRUCTURE.
7. FIRE RATINGS OR FIRE RESISTANCE IS NOT A PART OF THIS REVIEW.
8. ALL ANCHORS SECURING THE SYSTEM TO PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
9. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE PROTECTED PER FBC REQUIREMENTS.
10. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. Cd=1.6 WAS USED FOR WOOD SCREWS ONLY.

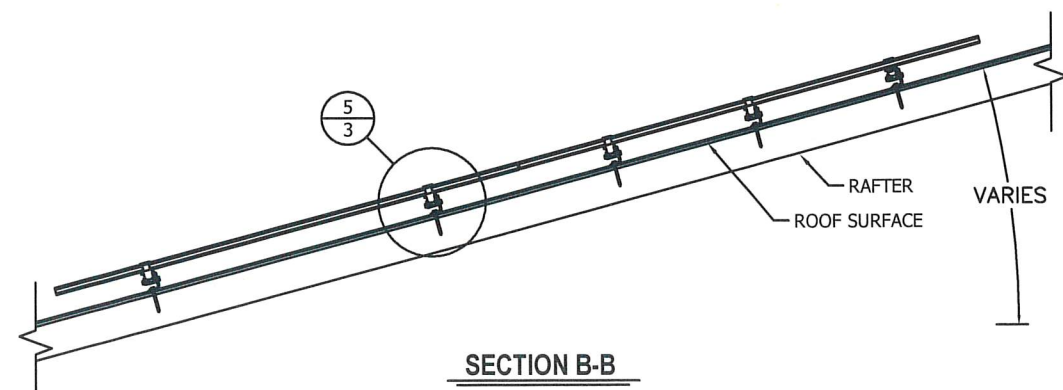
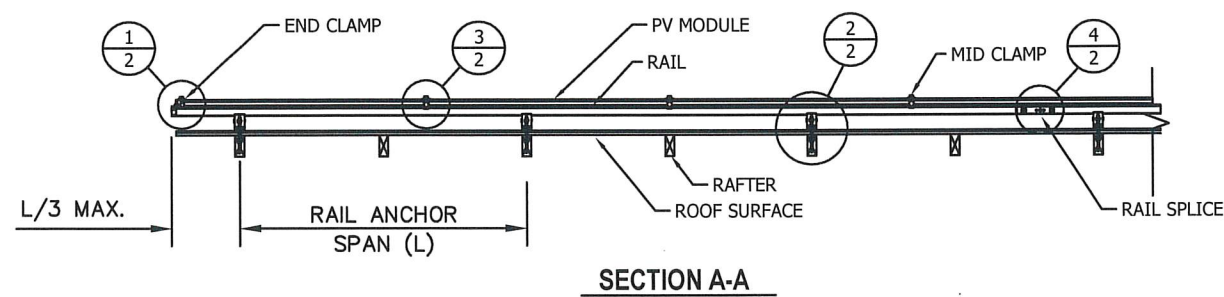
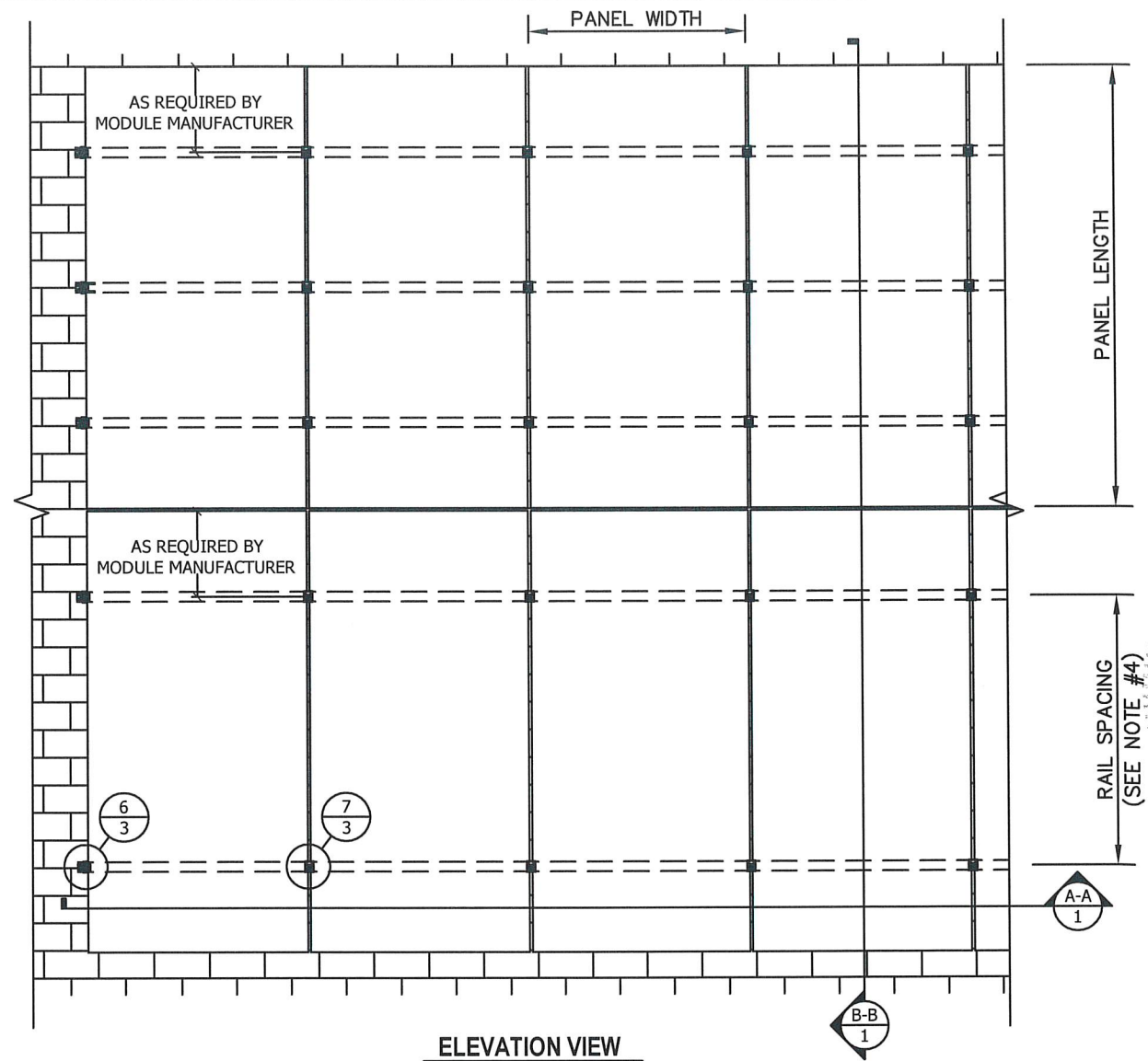
WINDLOAD NOTES:

1. DESIGN WINDLOADS MUST BE CALCULATED BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT, PER ASCE 7-22 SECTION 29.4.4. DESIGN WINDLOADS (ASD) MAY NOT EXCEED THE ALLOWABLE WINDLOADS SHOWN IN THE CHART BELOW.
2. PANEL SYSTEM LOCATION, HEIGHT, AND SPACING MUST MEET THE REQUIREMENTS OF ASCE 7-22 SECTION 29.4.4. WINDLOADS ACT NORMAL TO THE SURFACE OF THE PV PANEL SYSTEM.
3. OTHER CONFIGURATIONS REQUIRE PROJECT SPECIFIC ANALYSIS BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT.
4. ALLOWABLE (ASD) WINDLOADS BELOW ARE BASED ON ANCHORING IN WOOD RAFTERS WITH S.G.=0.42 MIN.

ALLOWABLE WINDLOADS								
TWO RAIL SYSTEM				THREE RAIL SYSTEM				
PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	ALLOWABLE WINDLOAD (+/- psf)	PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	ALLOWABLE WINDLOAD (+/- psf)	
45	67 1/2	16	89.1	45	67 1/2	16	133.7	
		24	89.1			24	133.7	
		32	89.1			32	133.7	
		36	78.9			36	118.4	
		48	59.2			48	88.8	
		64	44.4			64	66.6	
		72	37.5			72	56.3	
	80	16	75.2		80	16	112.8	
		24	75.2			24	112.8	
		32	74.9			32	112.4	
		36	66.7			36	100.1	
		48	49.9			48	74.9	
		64	37.4			64	56.1	
	86	72	31.6		86	72	47.4	
		16	69.9			86	16	104.9
		24	69.9				24	104.9
		32	69.7				32	104.6
		36	61.9				36	92.9
		48	46.4				48	69.6
	92 1/2	64	34.8		92 1/2		64	52.2
		72	29.4			72	44.1	
		16	65			92 1/2	16	97.5
		24	65				24	97.5
		32	64.8				32	97.2
36		57.6	36	86.4				
48	43.2	48	64.8					
64	32.4	64	48.6					
72	27.3	72	41.0					
LANDSCAPE LAYOUT:								
45	92 1/2	16	65	45	92 1/2	16	97.5	
		24	65			24	97.5	
		32	64.8			32	97.2	
		36	56.7			36	85.1	
		48	38.1			48	57.2	
		64	32.4			64	48.6	
		72	28.8			72	43.2	

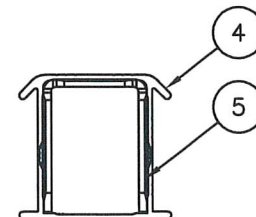
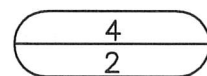
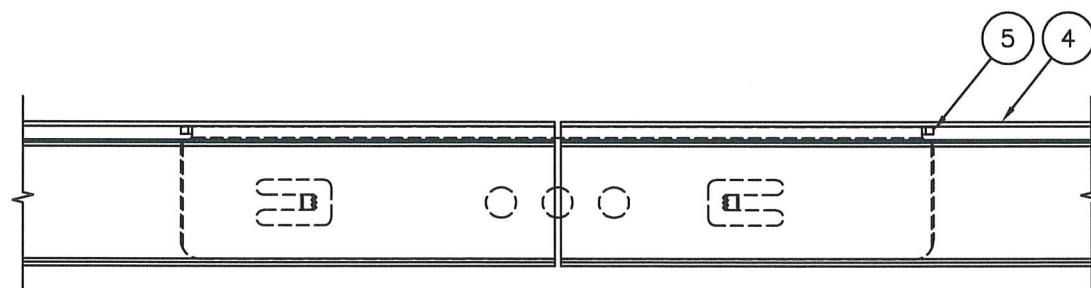
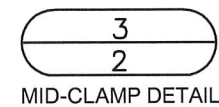
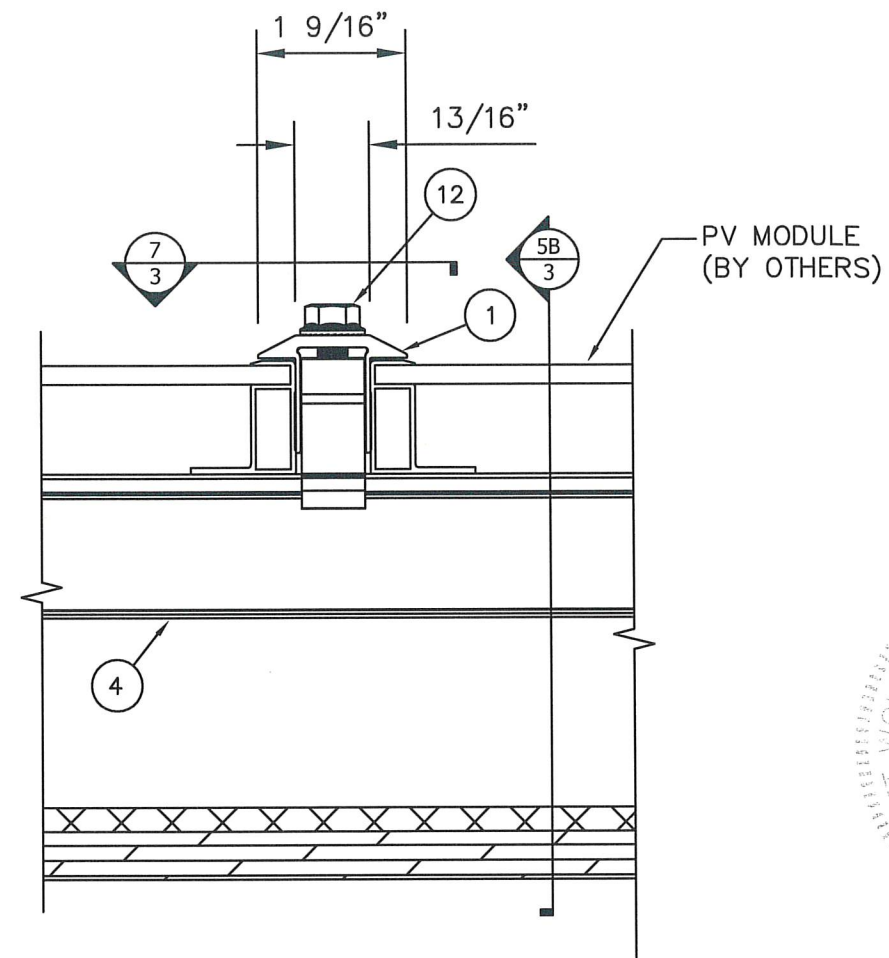
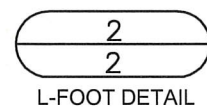
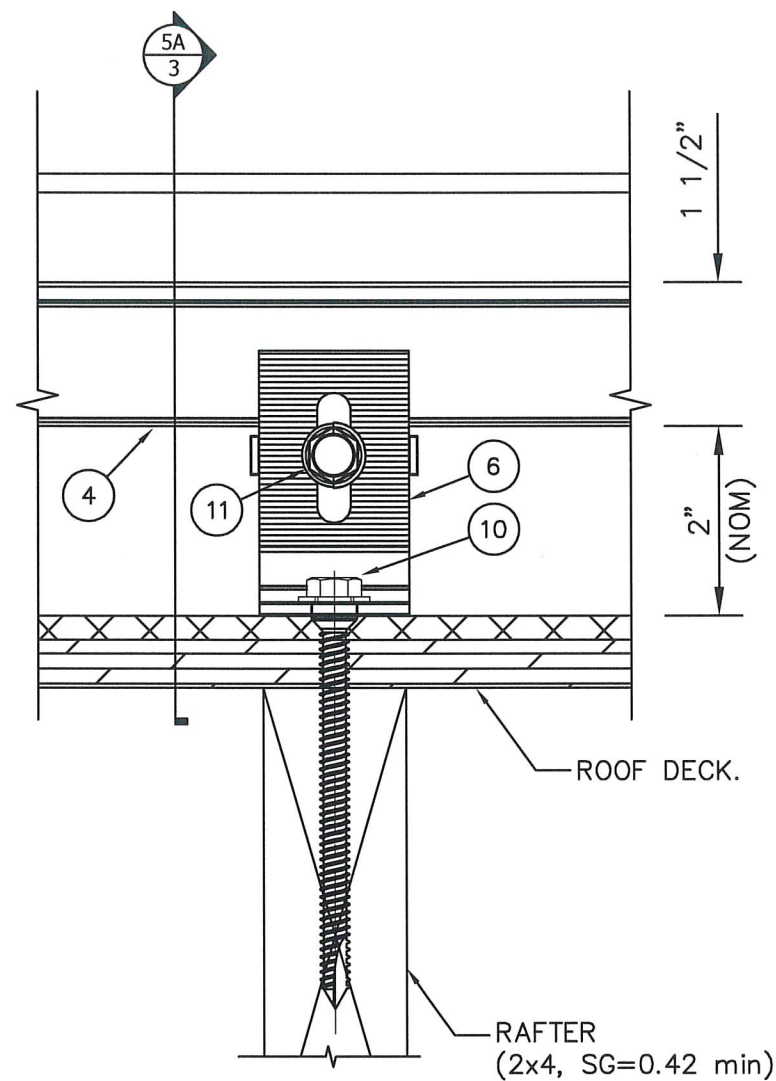
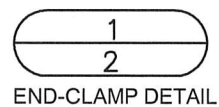
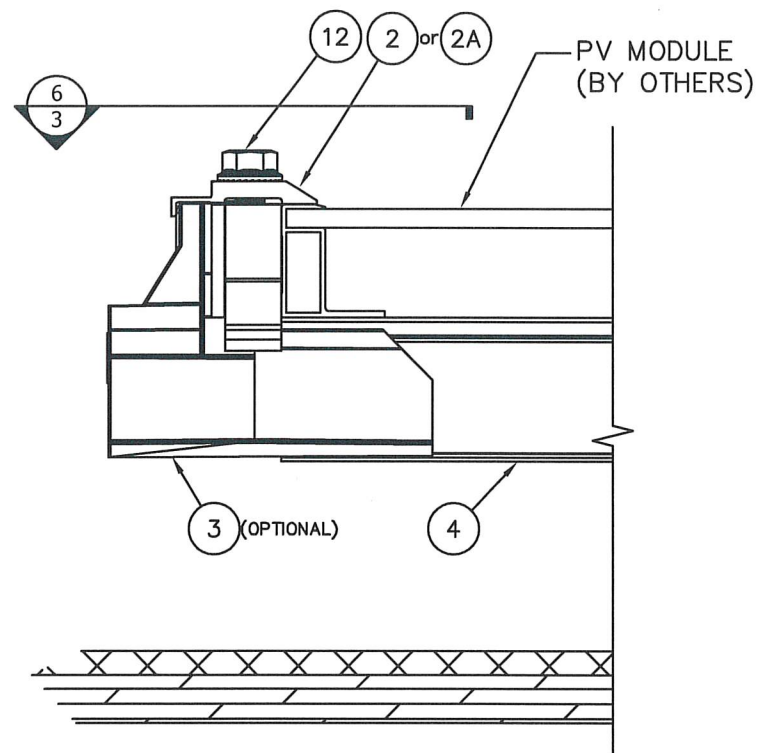
THREE RAIL SYSTEM:

TWO RAIL SYSTEM:



 EcoFasten® An Esdec Solar Group Company	4141 W VAN BUREN ST, SUITE 2 PHOENIX, AZ 85009		PHONE (877) 859-3947 info@ecofastensolar.com	
	DWG: ECO-LF			
	SHEET: 1/6			
	SCOTT WOLTERS FL PE# 62354 WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982			
	SEAL:  2023 CODE UPDATE 1ST SUBMITTAL PRINTS ISSUED FOR			
				10/18/23 12/30/22 DATE

ECOFASTEN CLICKFIT PHOTOVOLTAIC PANEL RACKING SYSTEM WITH ECOFASTEN GF1 L-FOOT ROOF ATTACHMENT

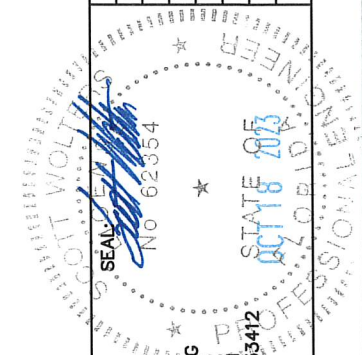


SPLICE LOCATIONS:

SPLICE LOCATIONS MAY NOT BE INSTALLED
IN THE FOLLOWING LOCATIONS:

- A. IN A CANTILEVER.
- B. WITHIN THE MIDDLE 1/4 OF AN ANCHOR-TO-ANCHOR SPAN OF THE RAIL.
- C. WITHIN 3" OF A ROOF ATTACHMENT.

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2023 CODE UPDATE	1	10/18/23
1ST SUBMITTAL	—	12/30/22
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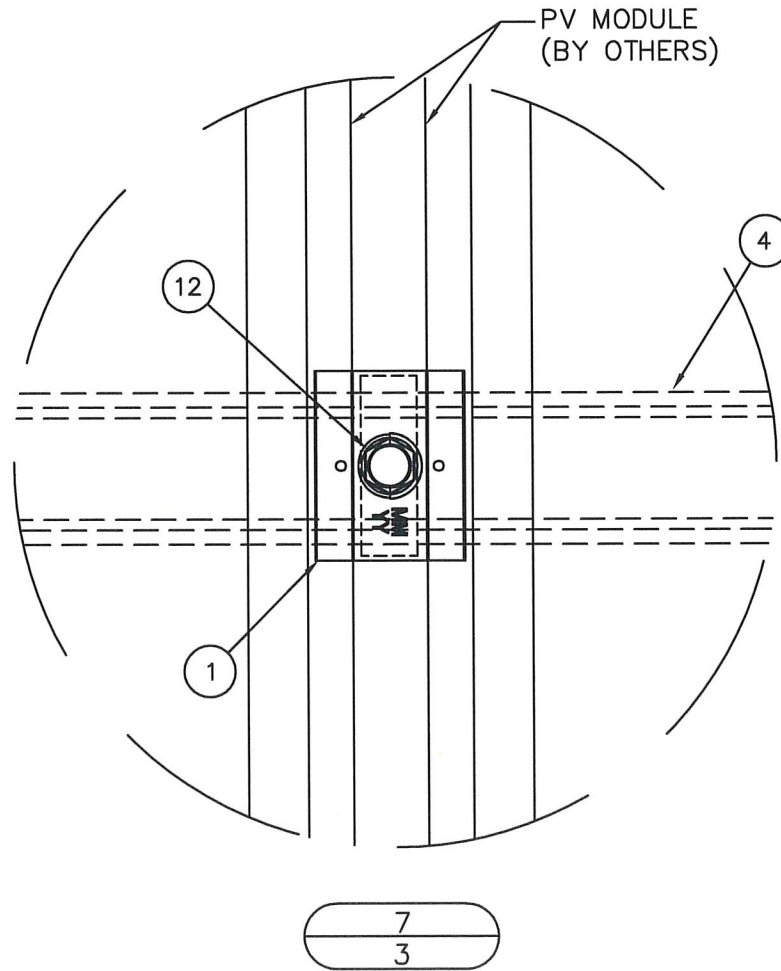
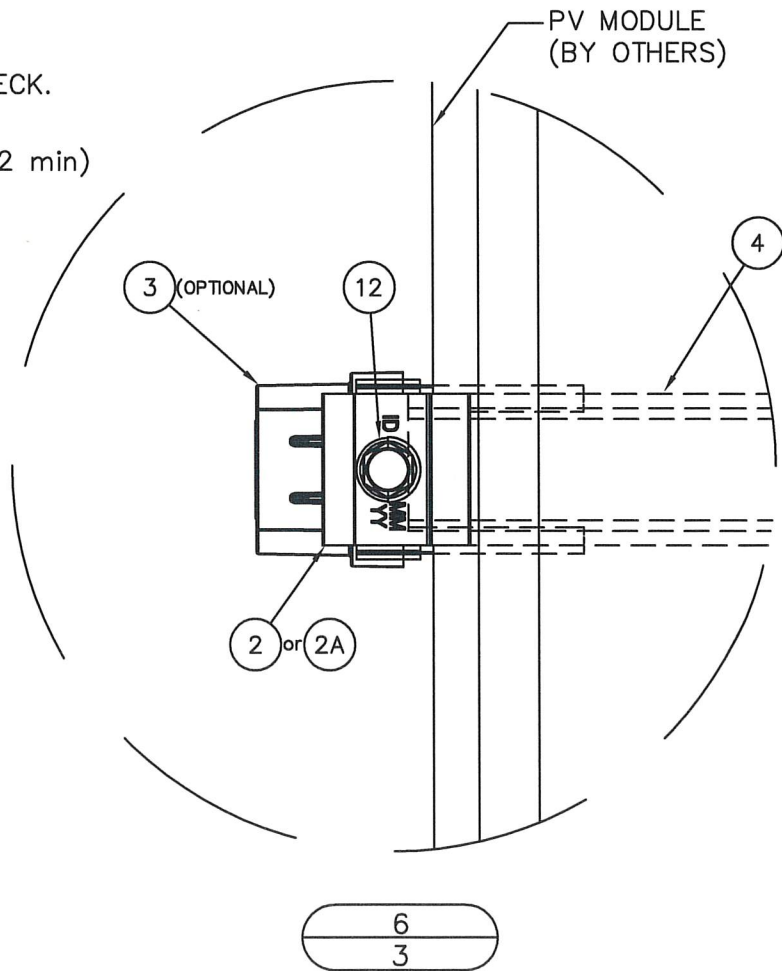
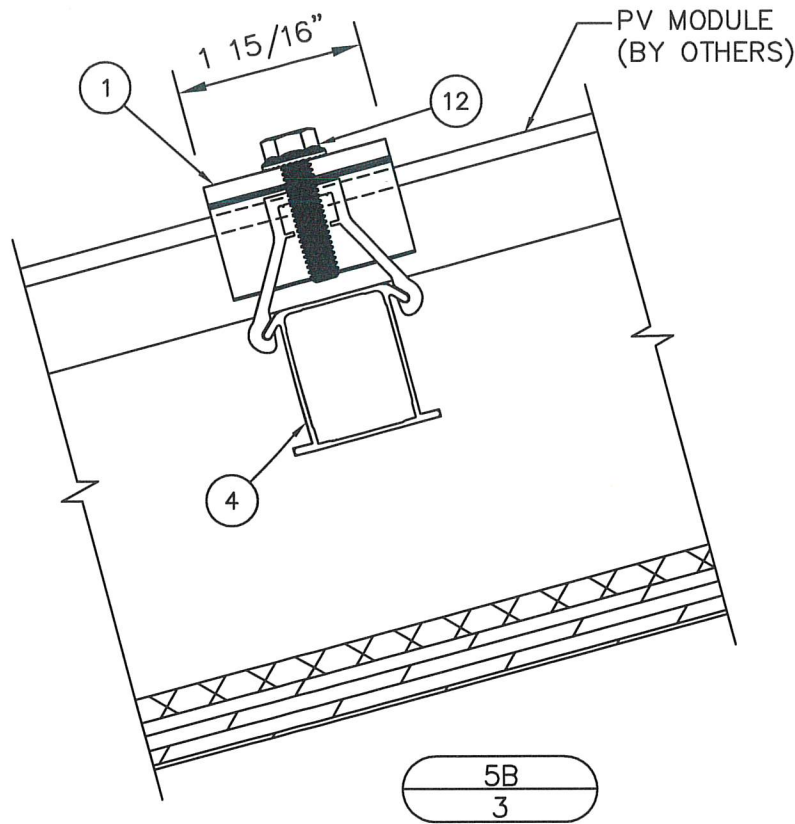
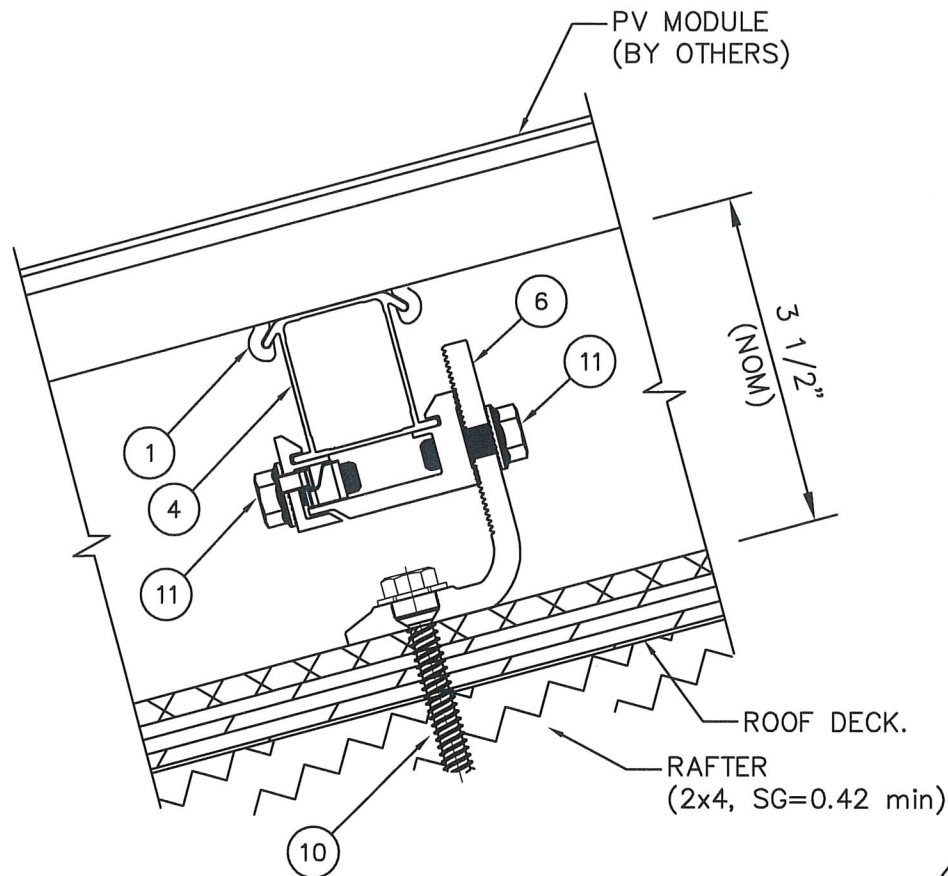


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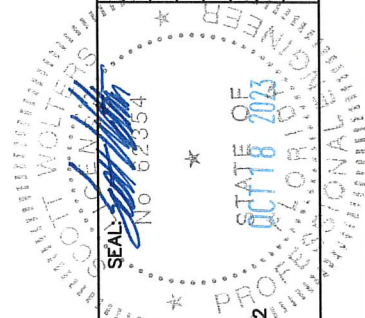
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DWG: ECO-LF
SHEET: 3/6

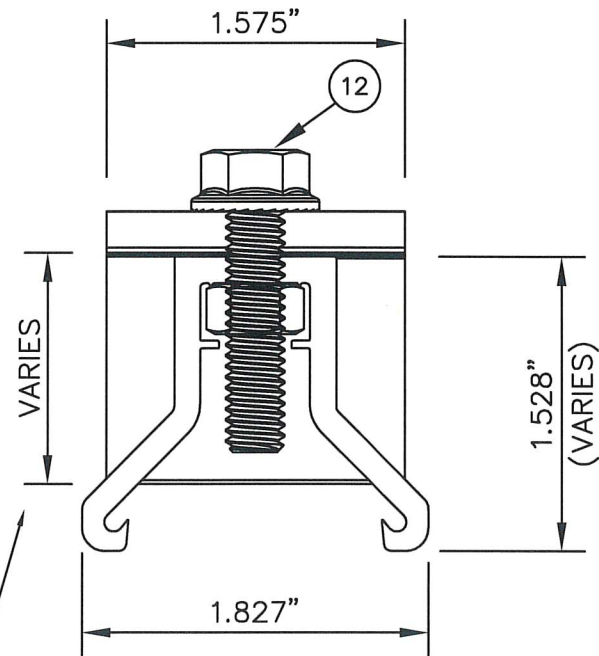
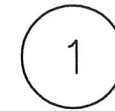
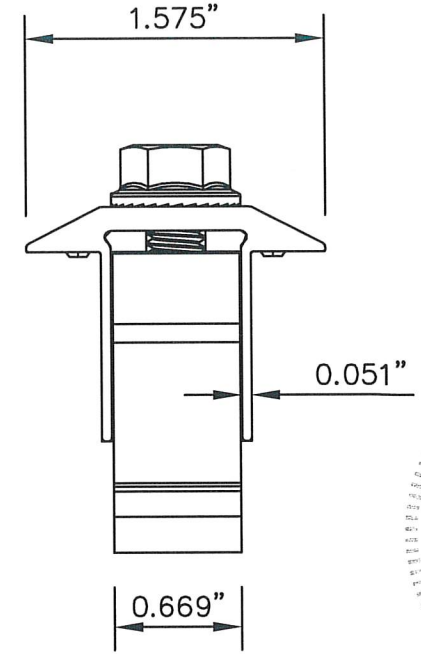
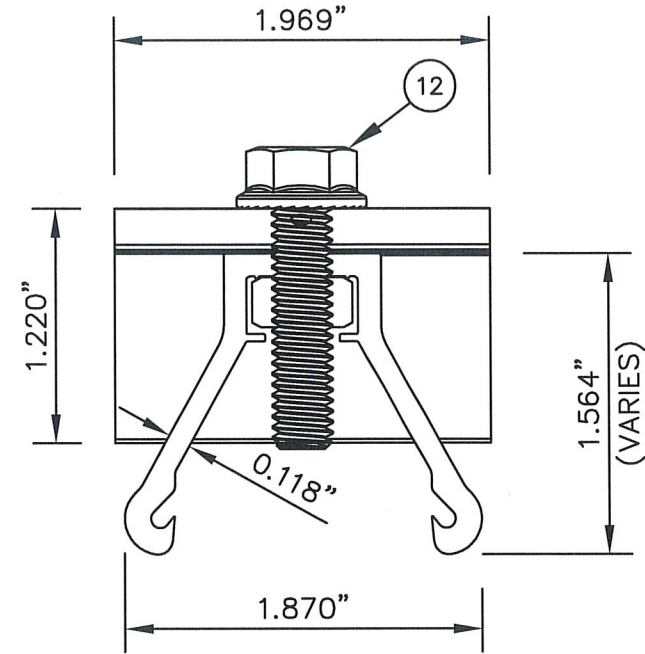
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1	10/18/23	2023 CODE UPDATE
1	12/30/22	1ST SUBMITTAL

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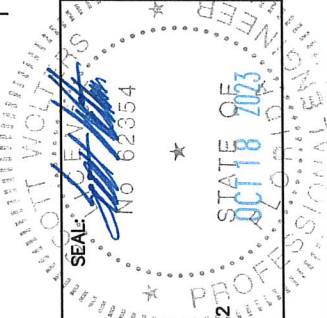
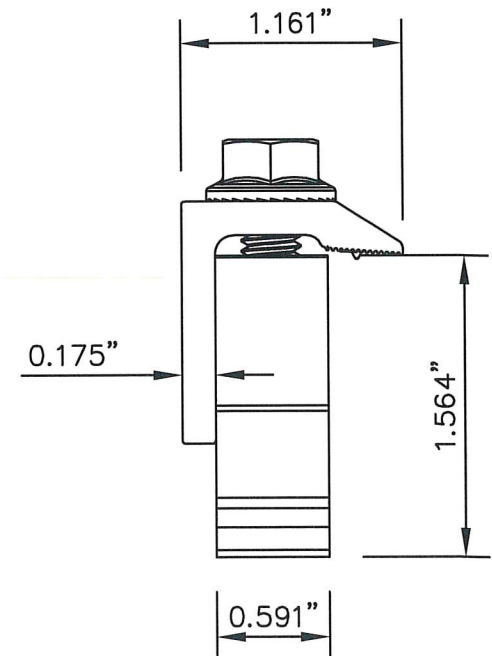
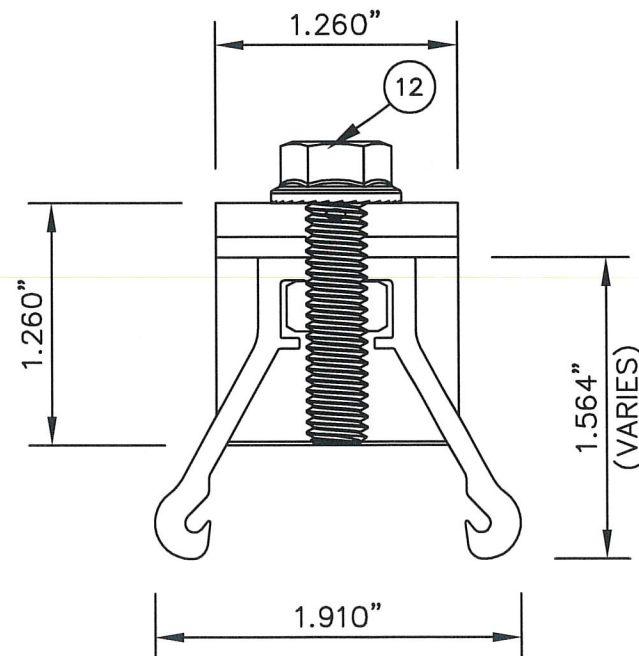
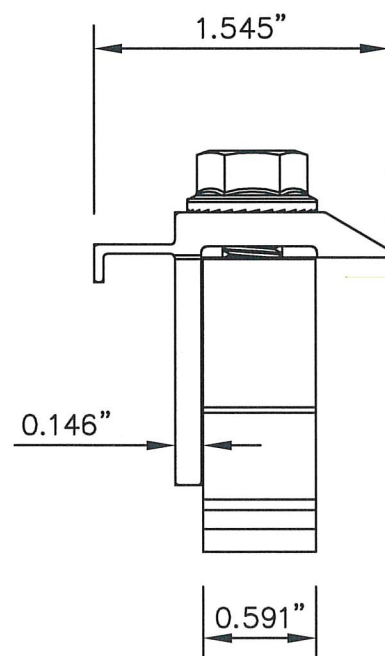
BILL OF MATERIALS- ClickFit System		
#	DESCRIPTION	MATERIALS/NOTES
1	MID-CLAMP ASSEMBLY	6000 SERIES AL
2	END-CLAMP ASSEMBLY	6000 SERIES AL
2A	UNIVERSAL END-CLAMP ASSEMBLY	6000 SERIES AL
3	END CAP (OPTIONAL)	POLYMERIC
4	CLICKFIT STANDARD RAIL	6000 SERIES AL
5	SPLICE SLEEVE	CORROSION RESISTANT STEEL
6	CLICKFIT GF1 L-FOOT ROOF ANCHOR ASSEMBLY	SEE FLPA# 39871 FOR MORE INFO
10	5/16" x 4" HWH LAG SCREW with EPDM WASHER	300 SERIES STAINLESS STEEL
11	5/16" x 3/4" HWH CAP SCREW	300 SERIES STAINLESS STEEL
12	5/16" x 1 1/4" HWH CAP SCREW	300 SERIES STAINLESS STEEL

FOR 6000 SERIES EXTRUSIONS $F_{UT}=38$ ksi min, $F_Y=35$ ksi min.

FOR 300 SERIES STAINLESS STEEL $F_y=65$ ksi min.



- CLIP HEIGHT VARIES BASED ON PV PANEL THICKNESS.



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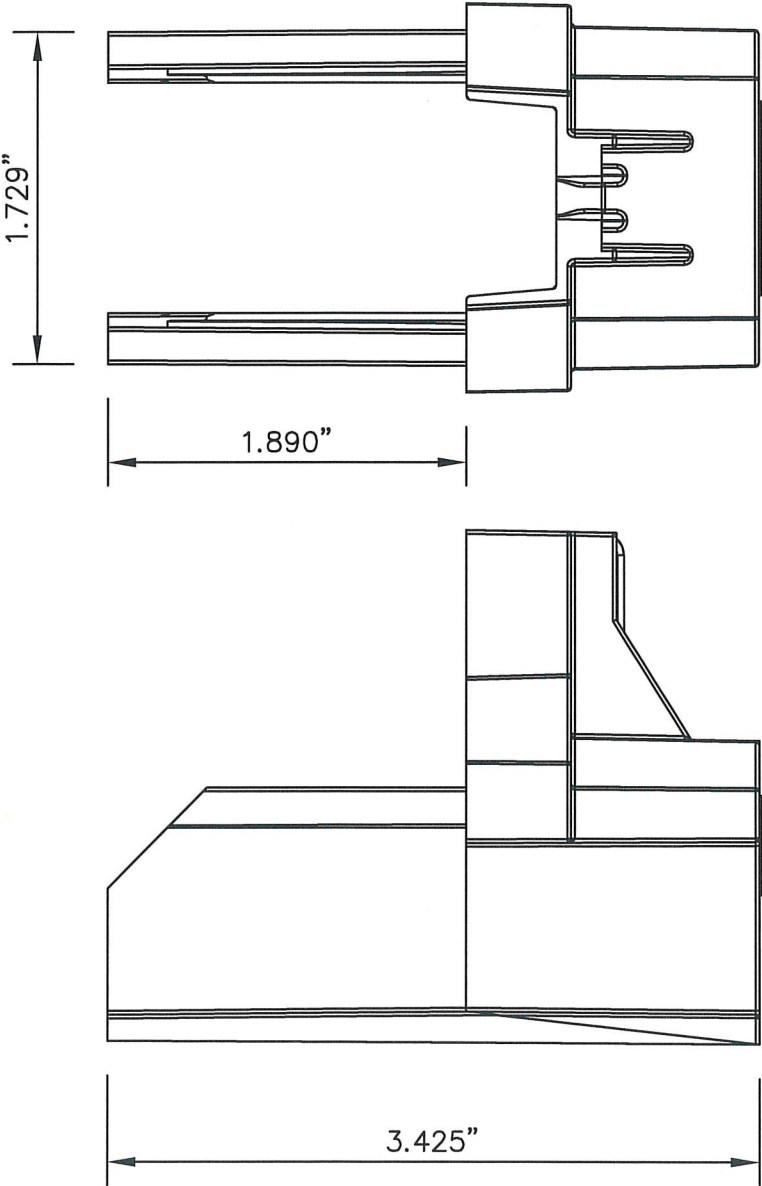


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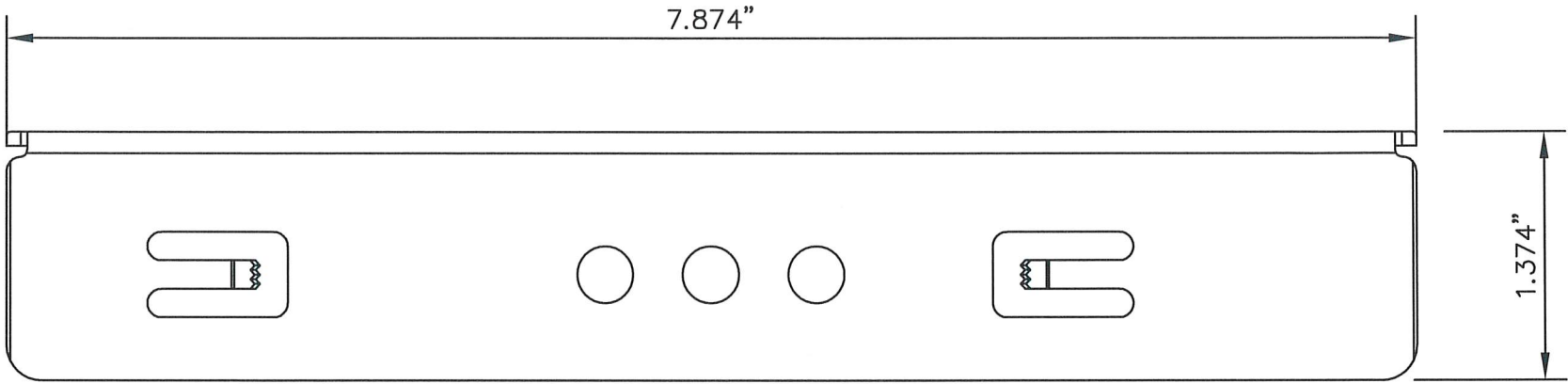
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SHEET: 4/6

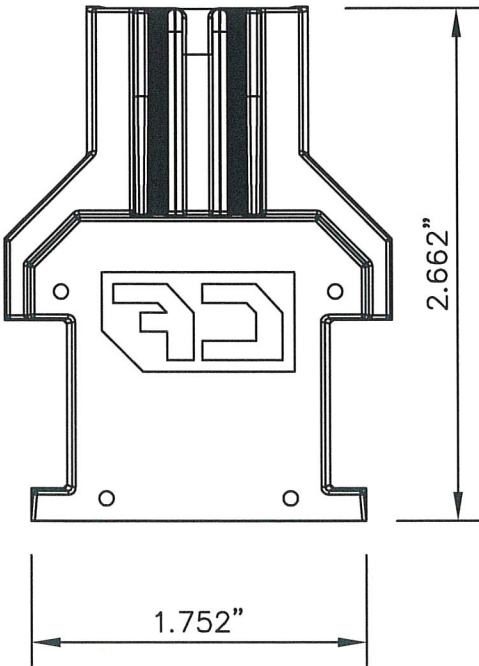
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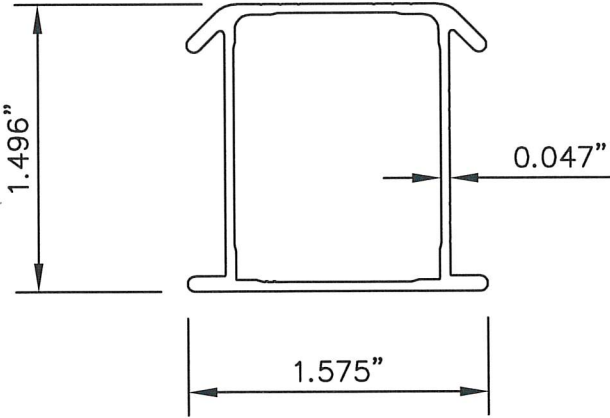
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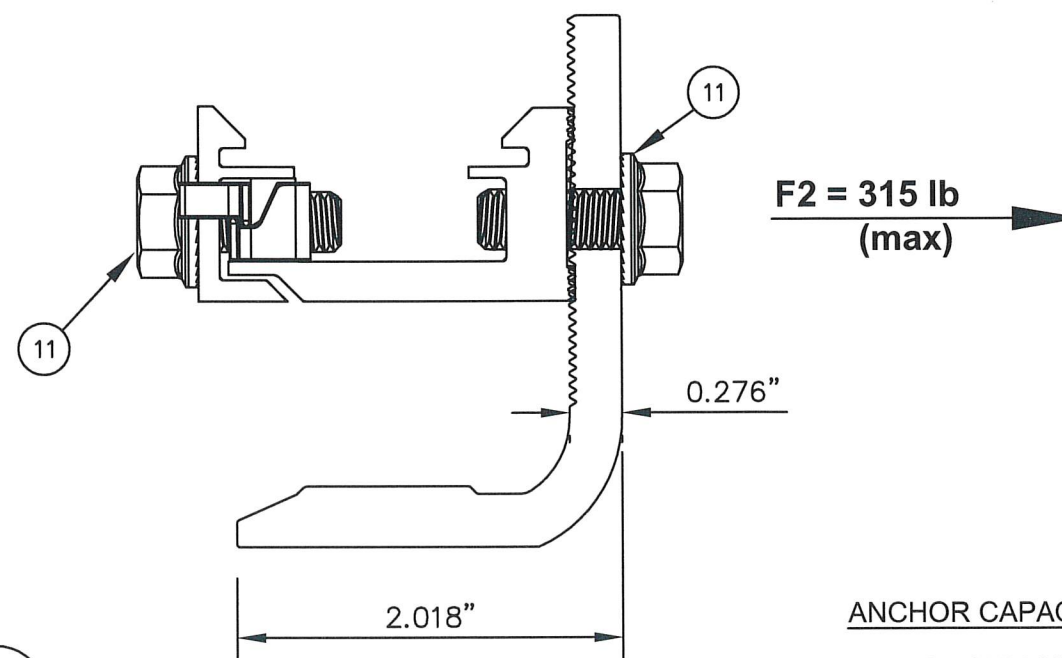
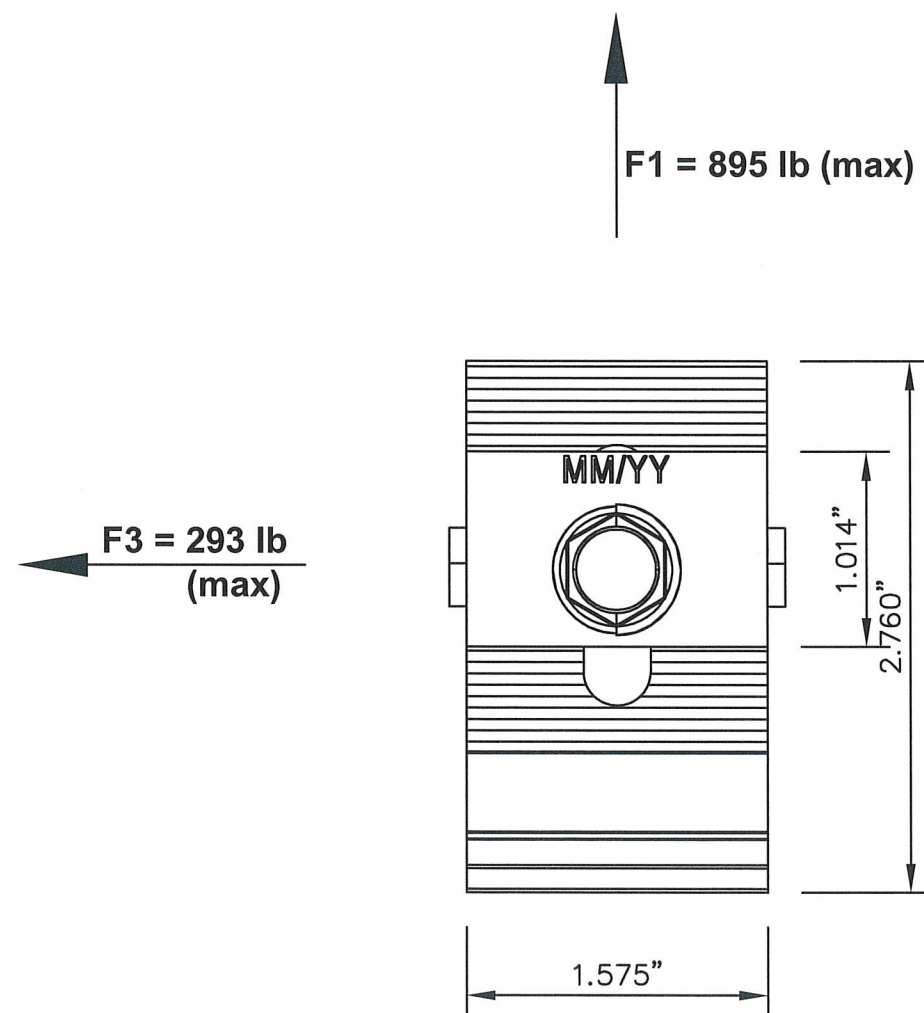
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No. 62354

STATE OF FLORIDA
OCT 18 2023
PROFESSIONAL ENGINEER

2023 CODE UPDATE
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10/18/23
12/30/22
REV.# DATE

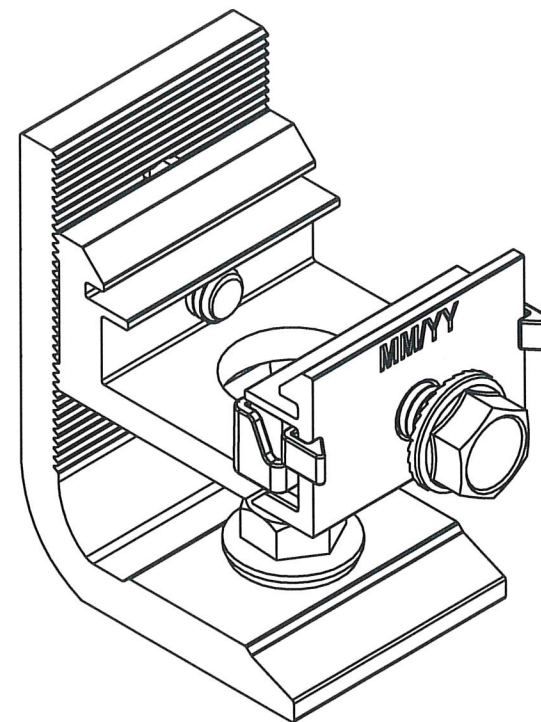
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ANCHOR CAPACITY:

ANCHOR CAPACITIES LISTED ARE
PER FLPA# 39871.



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