

ECOFASTEN ROCKIT RAIL-LESS PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH ROCKIT V5 SMART SLIDE ROOF ATTACHMENTS

GENERAL NOTES:

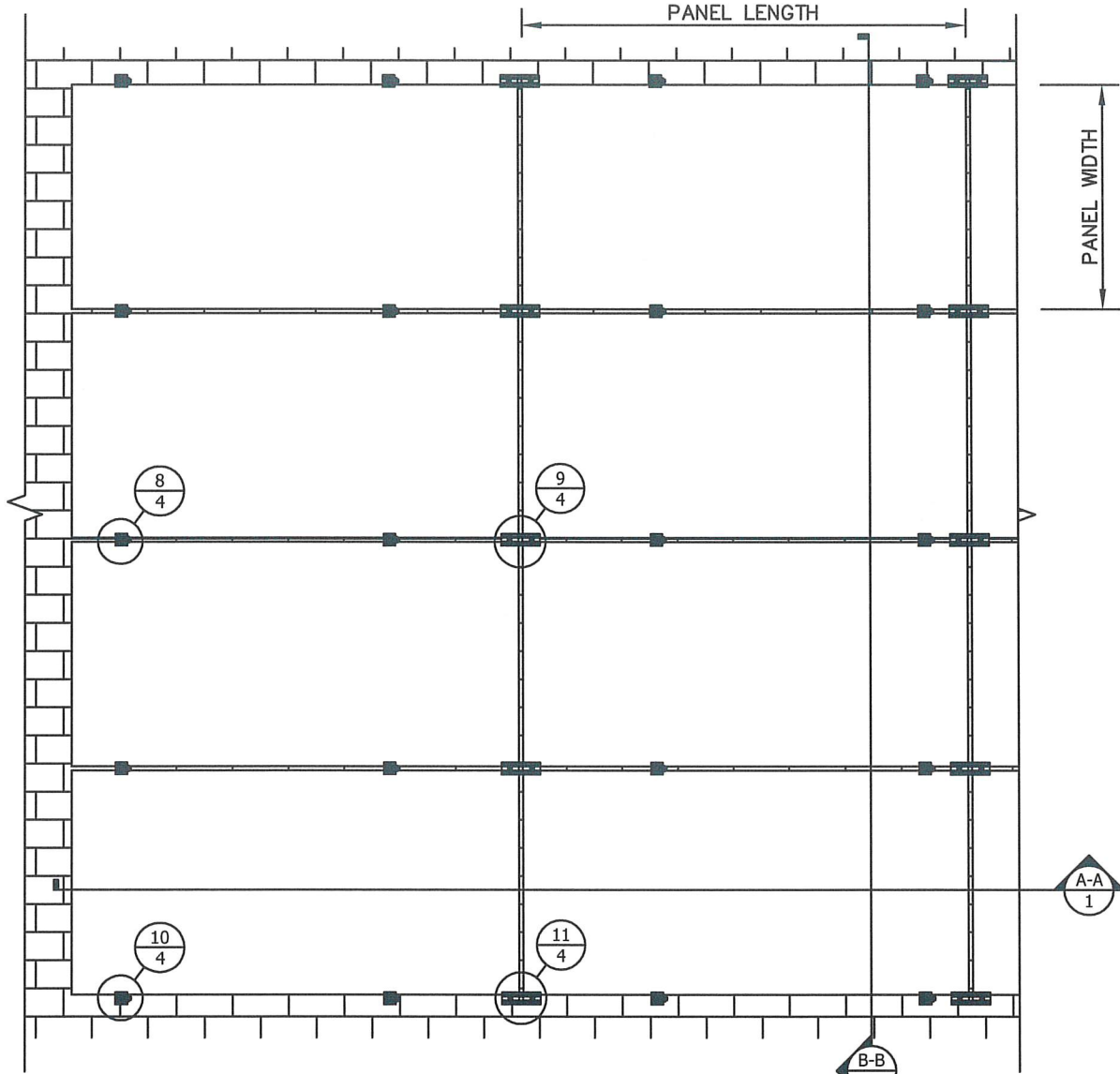
- 1. THIS SYSTEM MEETS ALL OF THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODE, INCLUDING THE HVHZ PROVISIONS.
- 2. THIS SYSTEM HAS BEEN TESTED PER TAS 100(A) AND ASTM D7147. IT IS NOT A PART OF THE BUILDING ENVELOPE, AND IMPACT RESISTANCE IS NOT REQUIRED.
- 3. THIS SYSTEM SHALL BE INSTALLED PER THE ECOFASTEN ROCKIT INSTALLATION MANUAL.
- 4. THIS SYSTEM IS DESIGNED TO WORK WITH SEVERAL TYPES OF PV PANELS. THE DESIGN OF THE PANELS IS BY OTHERS AND IS NOT A PART OF THIS APPROVAL.
- 5. 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.
- 6. FIRE RATINGS OR FIRE RESISTANCE IS NOT A PART OF THIS REVIEW.
- 7. ALL ANCHORS SECURING THE SYSTEM TO PRESSURE TREATED WOOD SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE CHEMICALS IN THE WOOD.
- 8. MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL BE PROTECTED PER FBC REQUIREMENTS.
- 9. 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:

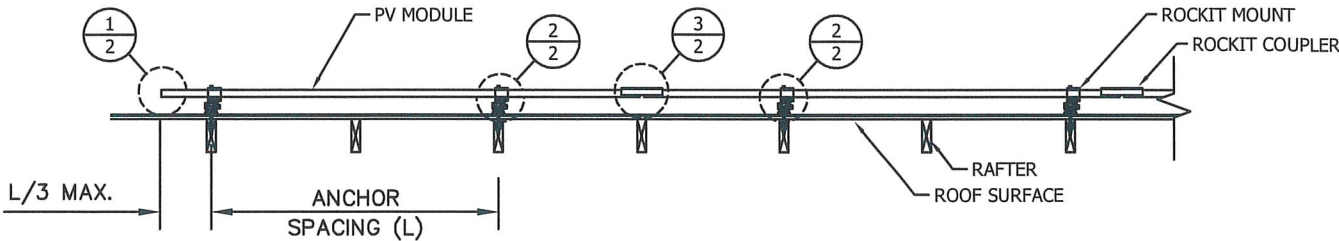
- 1. DESIGN WINDLOADS MUST BE CALCULATED BY A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT FOR EACH PROJECT, PER ASCE 7-22 SECTION 29.4.4. (ASD) DESIGN WINDLOADS MAY NOT EXCEED THE ALLOWABLE WINDLOADS SHOWN IN THE CHART BELOW.
- 2. THE (ASD) ALLOWABLE LOADS FOR THE ROCKIT SYSTEM COMPONENTS ARE LISTED BELOW. THE ENGINEER OF RECORD (EOR) OR THE AUTHORITIES HAVING JURISDICTION (AHJ) MUST VERIFY THE PV PANELS USED WITH THIS PRODUCT WILL MEET THE LOAD REQUIREMENTS OF EACH PROJECT WHEN INSTALLED AS PART OF A RAIL-LESS SYSTEM.
- 3. 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.
- 4. ALLOWABLE WINDLOADS FOR FASTENER PATTERNS #1 & #2 ARE BASED ON EMBEDMENT IN WOOD RAFTERS WITH S.G.=0.42 MIN.

ALLOWABLE WINDLOADS								
PANEL WIDTH (in)	PANEL LENGTH (in)	ANCHOR SPAN (L) (in)	ROCKIT MOUNT WITH V5 SMART SLIDE					
			FASTENER PATTERN #1 (psf)	FASTENER PATTERN #2 (psf)	FASTENER PATTERN #3 7/16" OSB 19/32" OSB (psf)			
LANDSCAPE LAYOUT:								
41.5	86	16	97.1	138	22.9	31.9		
		24	65.2	93	15.2	21.3		
		32	48.6	69	11.4	16		
		36	43.3	62.1	10.4	14.3		
		48	32.6	46.5	7.6	10.8		
		60	26.2	34.3	6.2	8.6		
		64	24.6	29.8	5.7	8		
45	92.5	72	21.8	23.9	5.1	7.2		
		16	89.6	127.3	21.1	29.4		
		24	60.1	85.7	14.1	19.7		
		32	44.8	63.7	10.5	14.7		
		36	40	57.3	9.6	13.2		
		48	30.1	42.9	7	9.9		
		60	24.1	31.7	5.7	7.9		
45	92.5	64	22.7	27.5	5.3	7.4		
		72	20.1	22.1	4.7	6.6		
		PORTRAIT LAYOUT:						
		45	67.5	16	59.7	84.9	14.1	19.6
				24	40.1	57.2	9.4	13.1
				32	29.8	42.4	7	9.8
				36	26.6	38.2	6.4	8.8
48	20			28.6	4.7	6.6		
45	80	16	50.4	71.6	11.9	16.5		
		24	33.8	48.2	7.9	11.1		
		32	25.2	35.8	5.9	8.3		
		36	22.5	32.2	5.4	7.4		
		48	16.9	24.1	4	5.6		
45	86	16	46.9	66.6	11	15.4		
		24	31.5	44.9	7.3	10.3		
		32	23.4	33.3	5.5	7.7		
		36	20.9	30	5	6.9		
		48	15.7	22.4	3.7	5.2		
45	92.5	16	43.6	61.9	10.3	14.3		
		24	29.2	41.7	6.8	9.6		
		32	21.8	31	5.1	7.1		
		36	19.4	27.8	4.7	6.4		
		48	14.6	20.8	3.4	4.8		

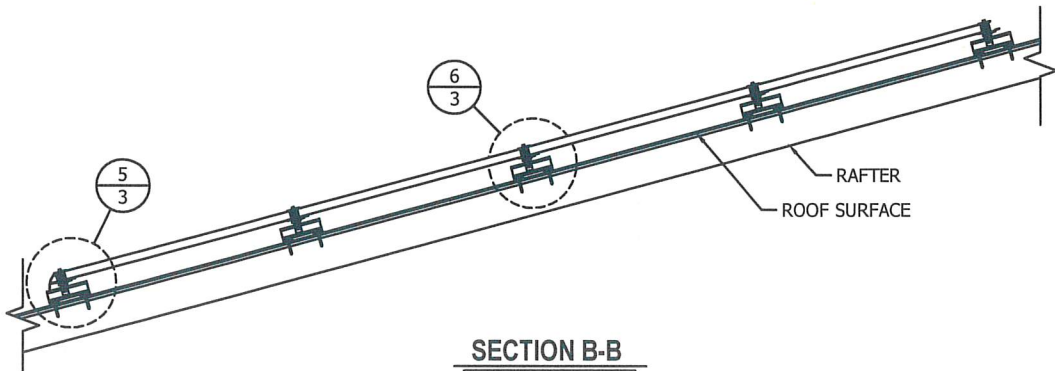
SEE SHEET 2/7 FOR FASTENER PATTERNS.



ELEVATION VIEW



SECTION A-A



SECTION B-B

SCOTT WOLTERS
FL PE# 62354

WOLTERS ENGINEERING
(COA# 27194)
15211 97TH ROAD N 33412
WEST PALM BEACH, FL 33412
(561) 225-1982

APR 24 2025

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PRINTS ISSUED FOR

REV.#
DATE

EcoFasten®

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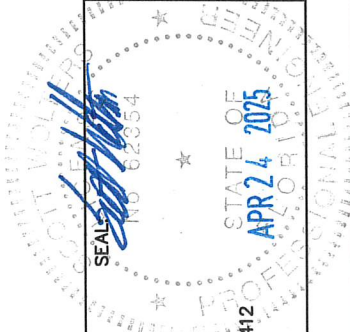
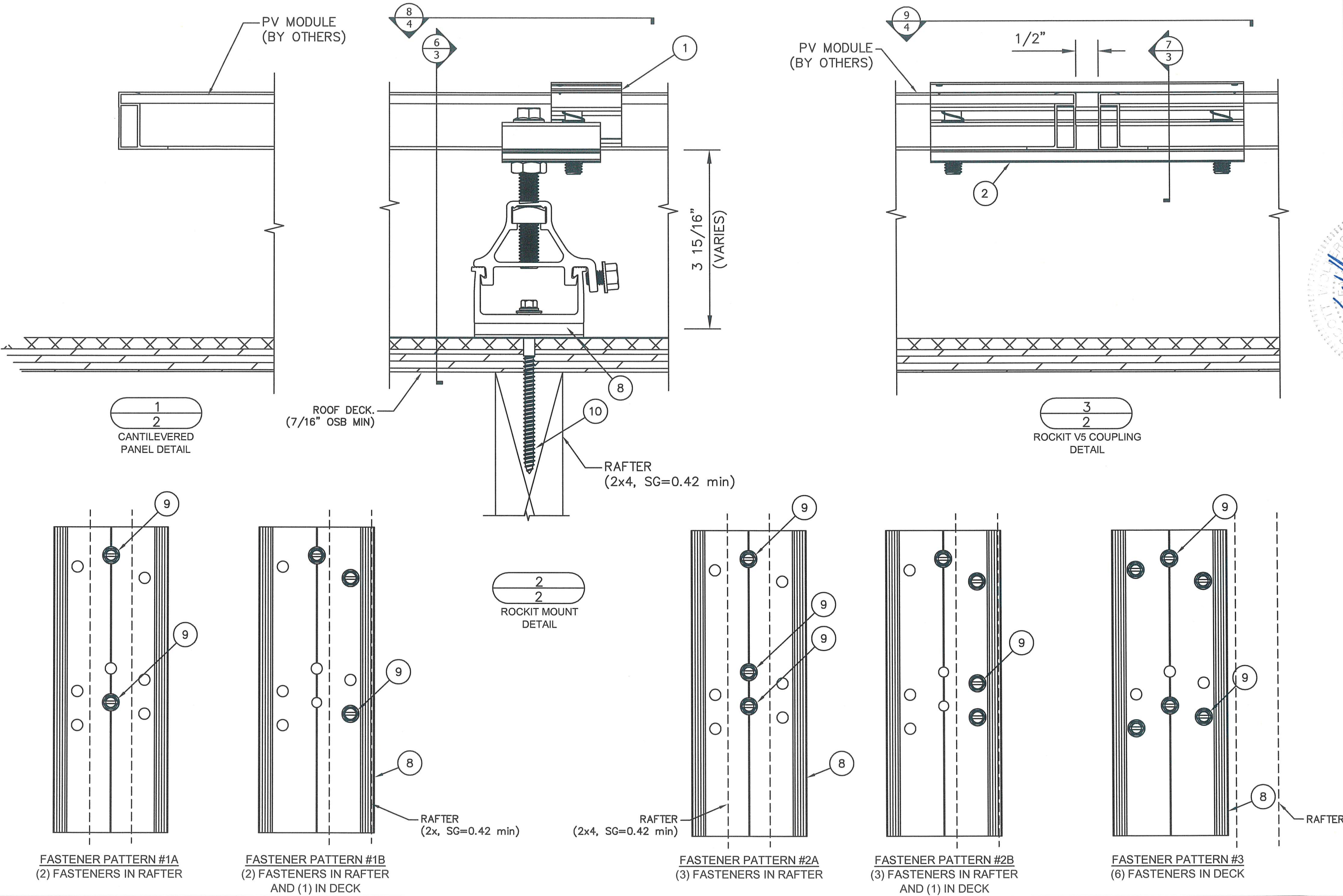
4141 W VAN BUREN ST, SUITE 2
PHOENIX, AZ 85009

PHONE (877) 859-3947
info@ecofastensolar.com

DWG:
ROCKIT-SSLV5

SHEET:
1/7

ECOFASTEN ROCKIT RAIL-LESS PHOTOVOLTAIC PANEL RACKING SYSTEM
WITH ROCKIT V5 SMART SLIDE ROOF ATTACHMENTS



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FL PE# 62354

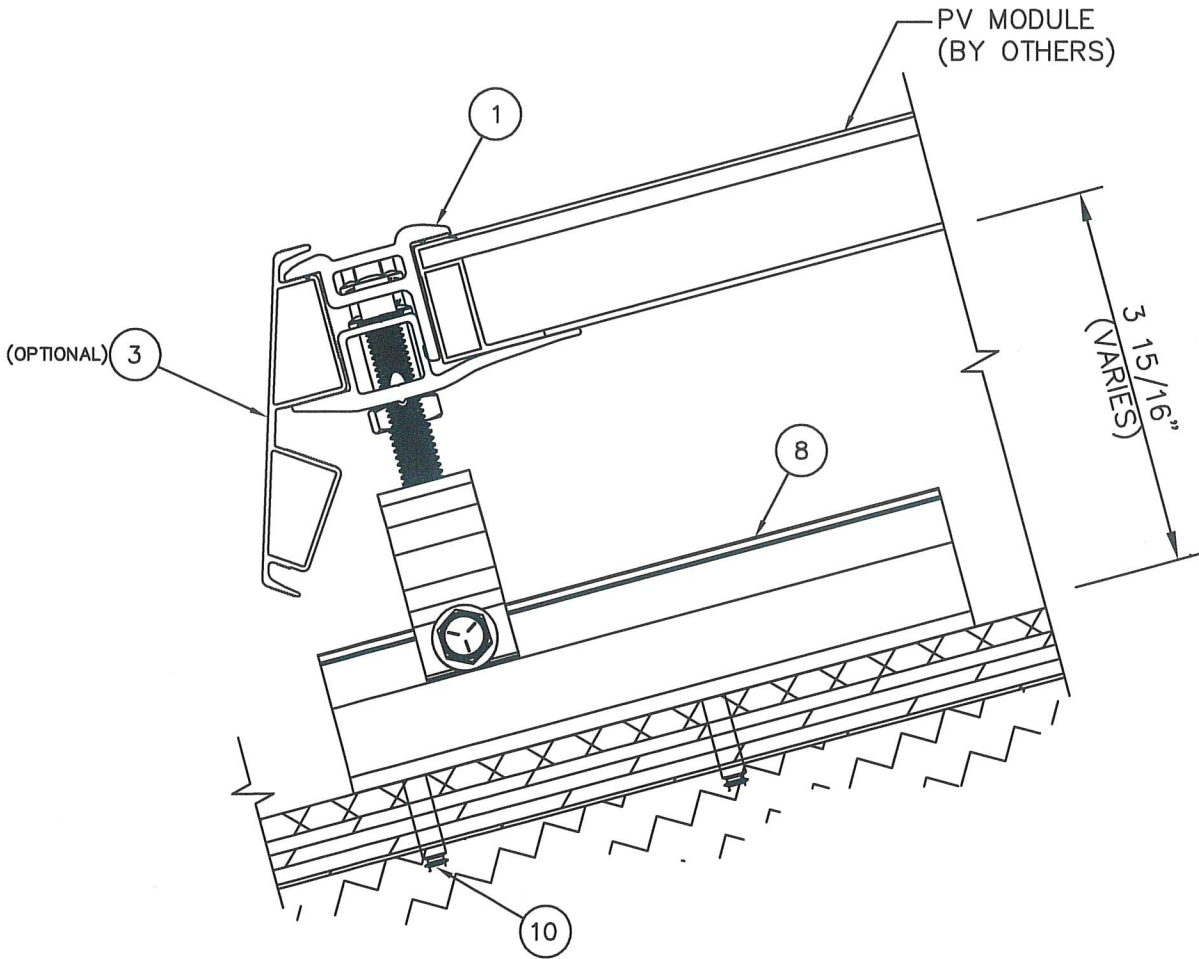
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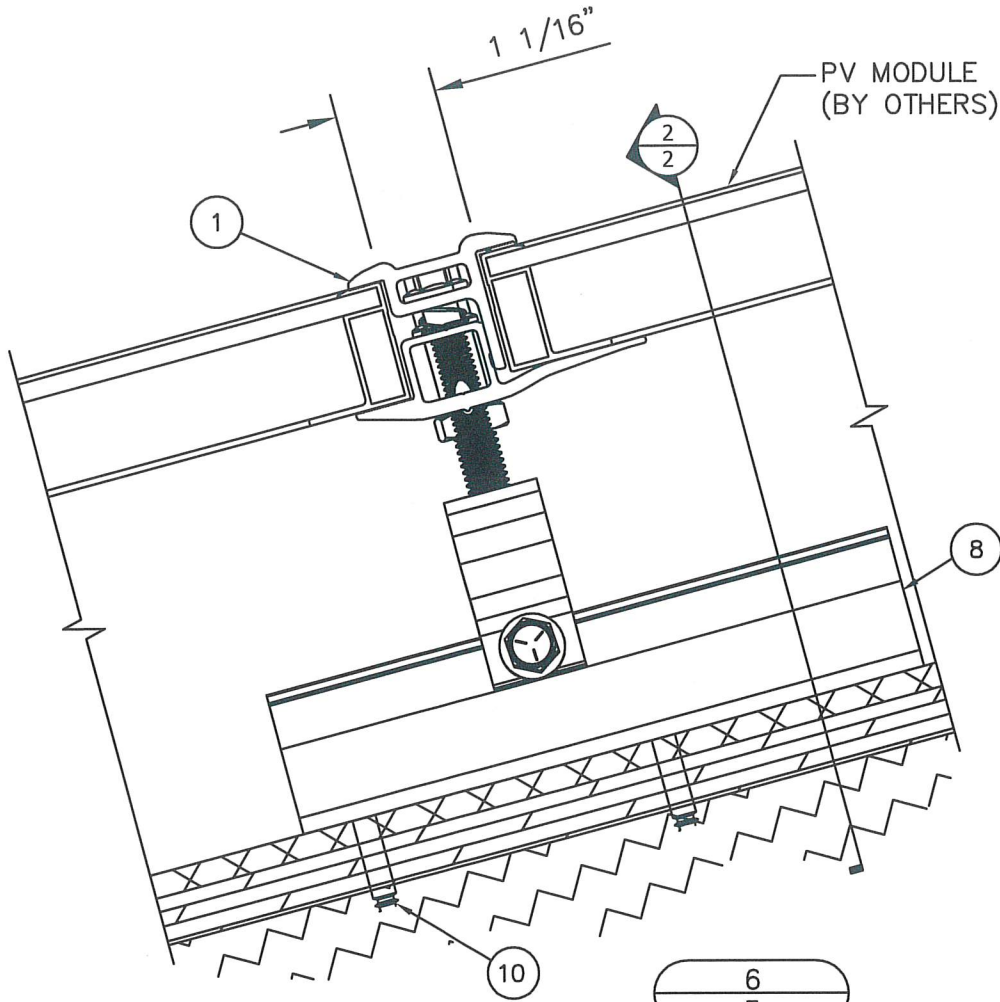
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REV.#	DATE	ISSUED FOR
1	4/24/25	1ST SUBMITTAL
2		PRINTS

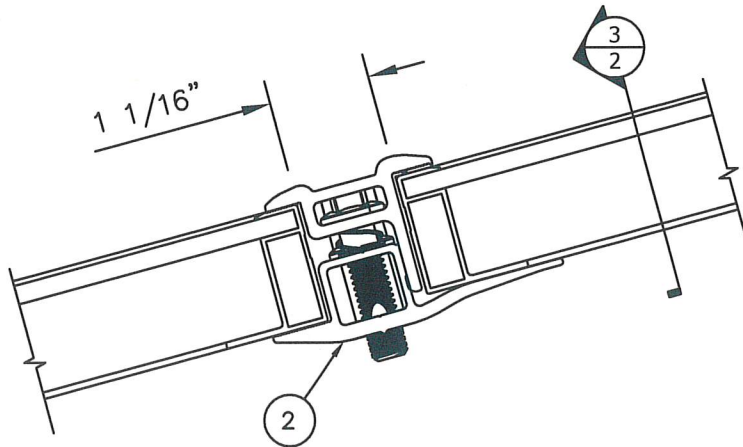
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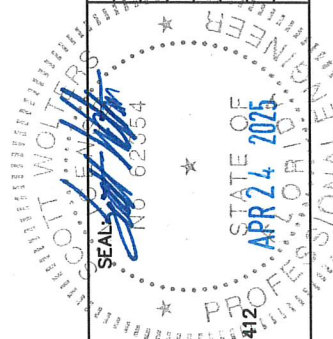
5/3
ROCKIT MOUNT
AND V5 SMART SLIDE



6/3
ROCKIT MOUNT
AND V5 SMART SLIDE



7/3
ROCKIT V5 COUPLING
DETAIL



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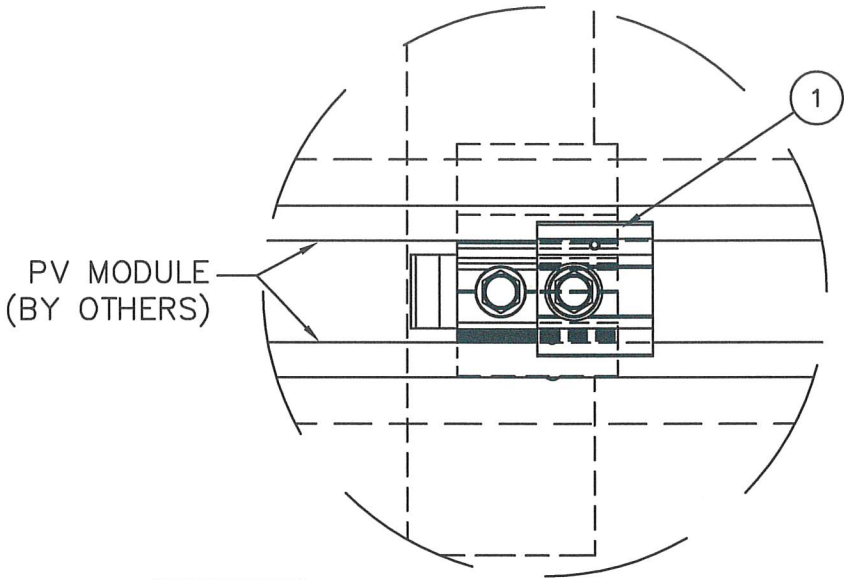


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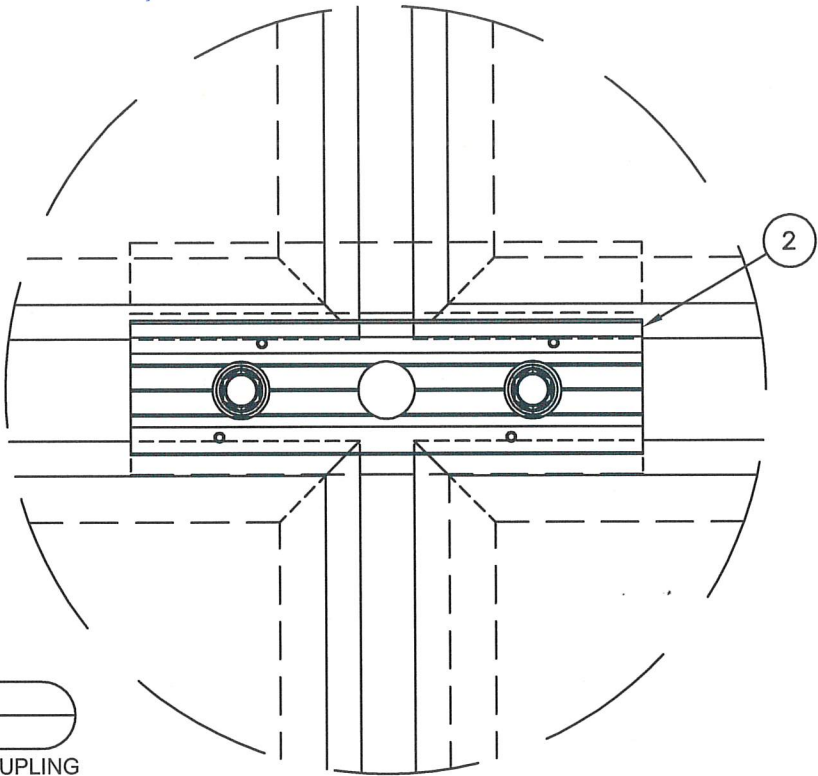
DWG:
ROCKIT-SSLV5
SHEET:

REV.#	DATE	PRINTS ISSUED FOR
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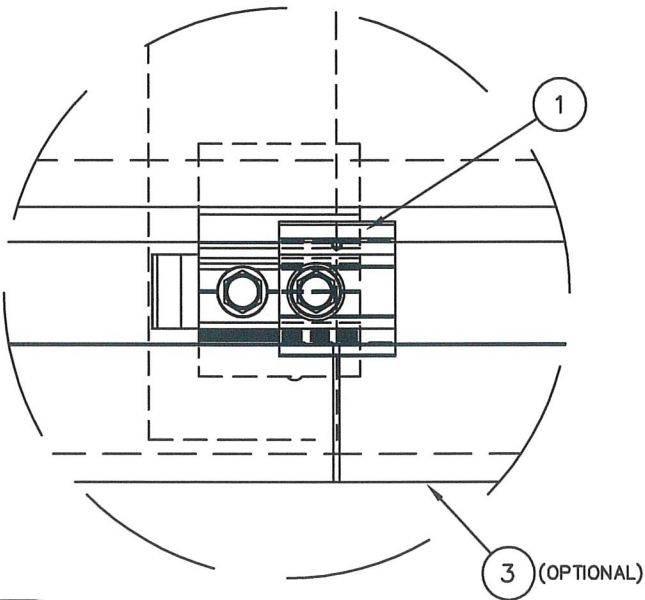
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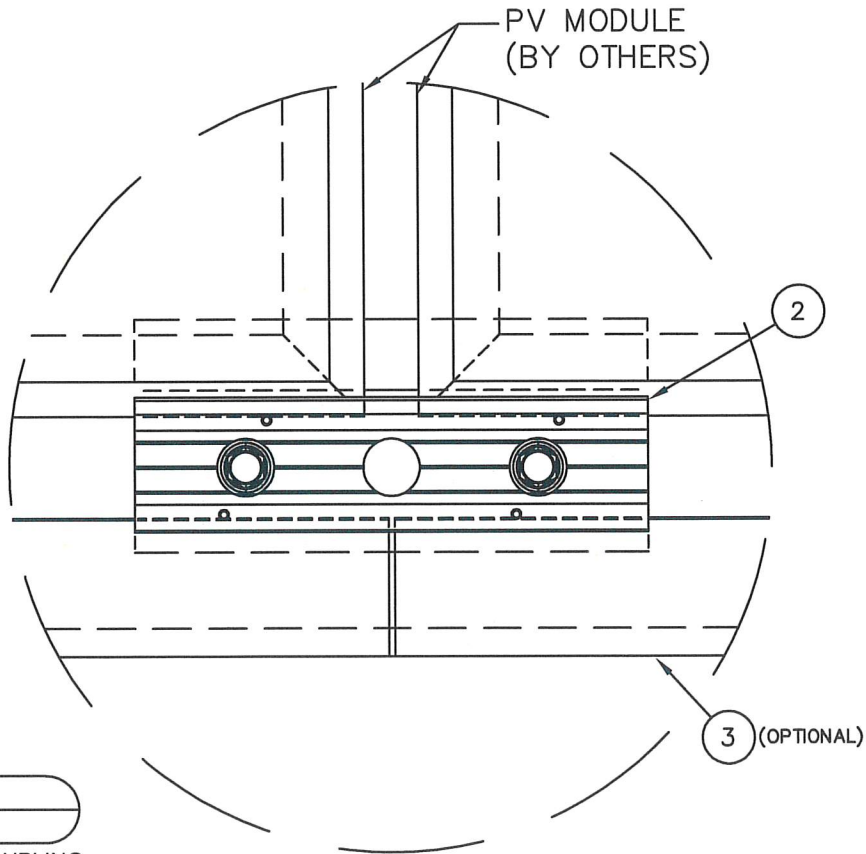
8
4
ROCKIT MOUNT
(TOP VIEW)



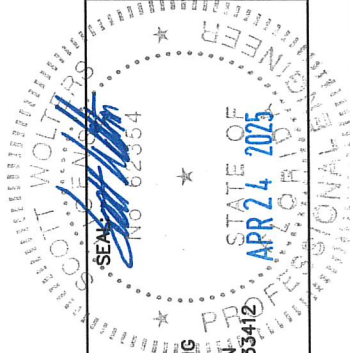
9
4
ROCKIT COUPLING
(TOP VIEW)



10
4
ROCKIT MOUNT
(TOP VIEW)



11
4
ROCKIT COUPLING
(TOP VIEW)



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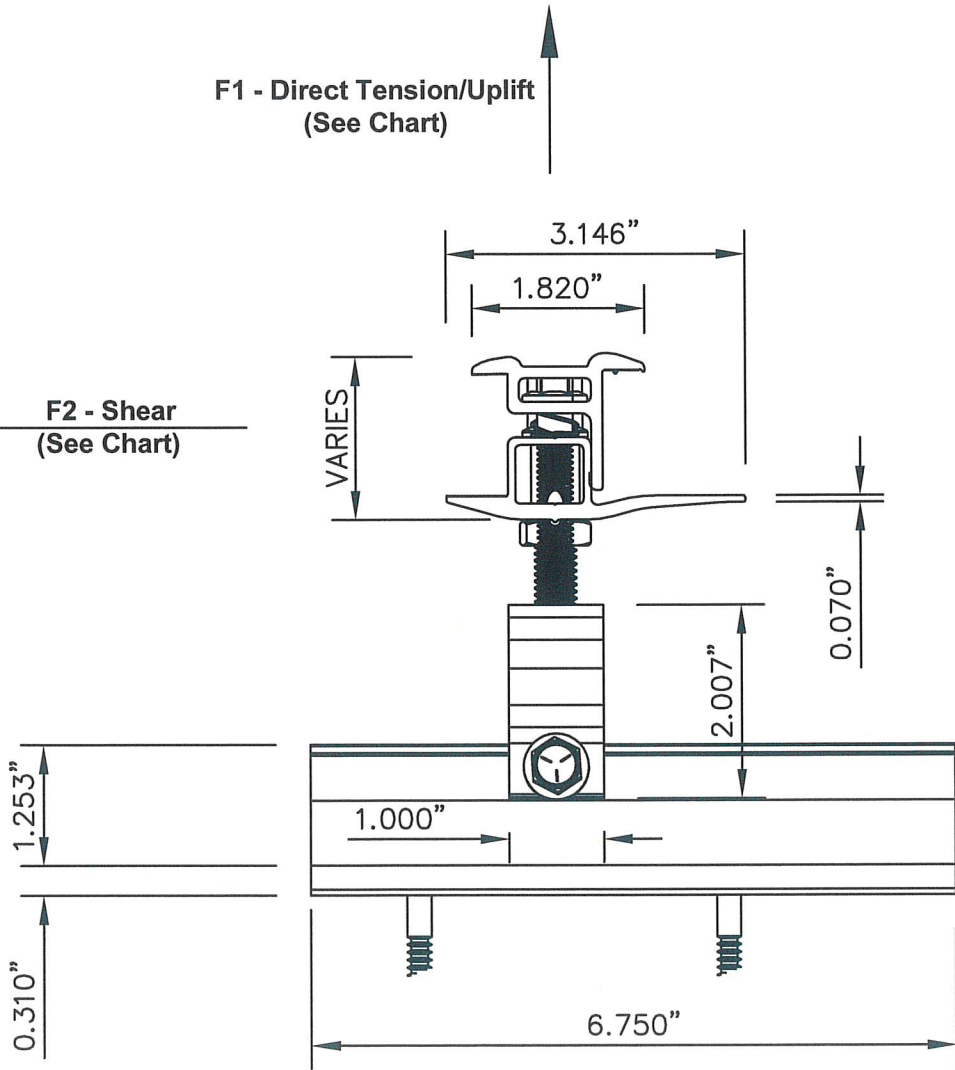
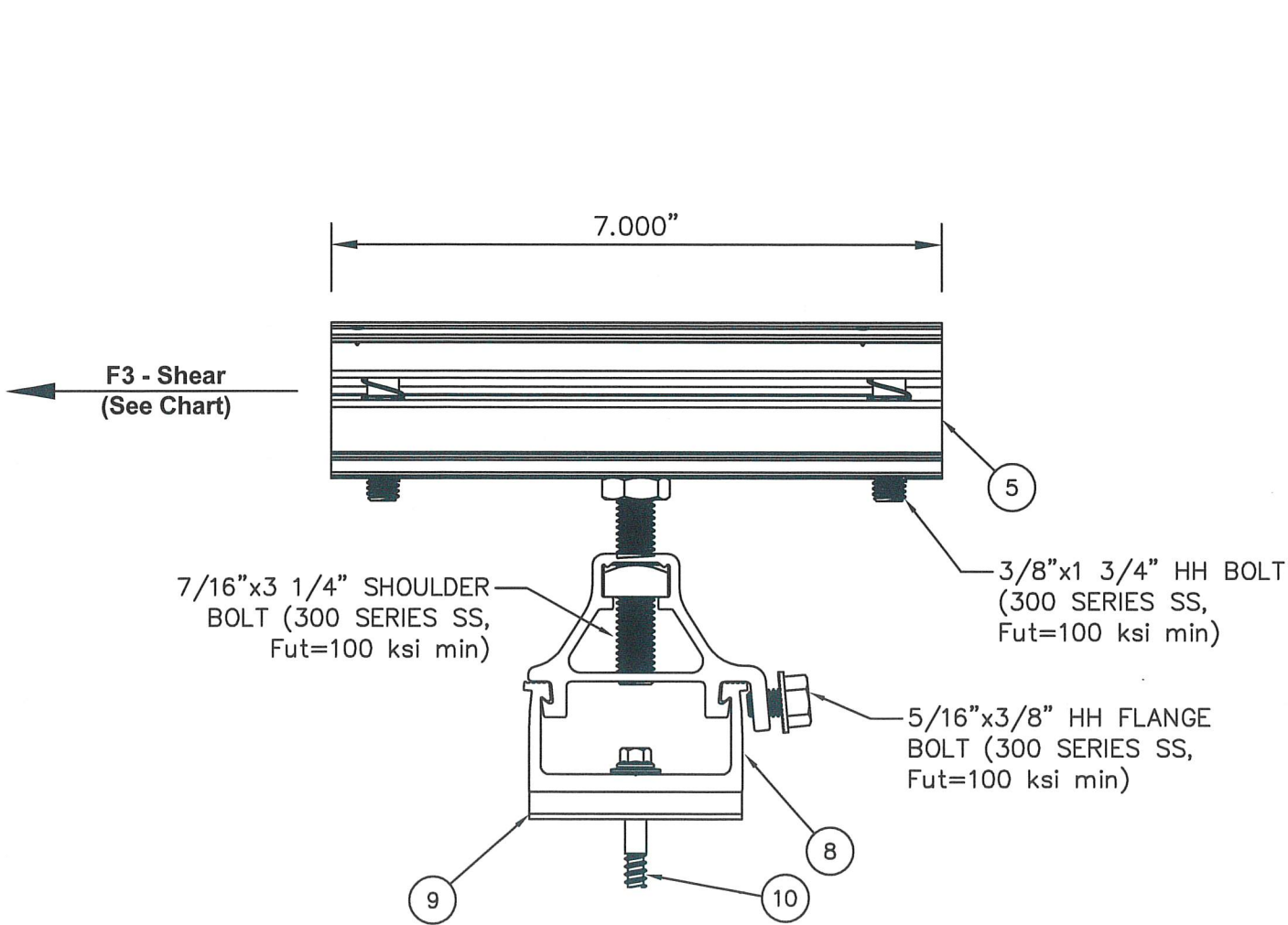
DWG:
ROCKIT-SSLV5
SHEET:

ECOFASTEN ROCKIT RAIL-LESS PHOTOVOLTAIC PANEL RACKING SYSTEM
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BILL OF MATERIALS- ROCKIT V5 SYSTEM		
#	DESCRIPTION	MATERIALS/NOTES
1	ROCKIT MOUNT V5 ASSEMBLY	6000 SERIES ALUMINUM & 300 SERIES STAINLESS
2	ROCKIT COUPLING V5 ASSEMBLY	6000 SERIES ALUMINUM & 300 SERIES STAINLESS
3	SKIRT	6000 SERIES ALUMINUM
4	SKIRT END CAP	POLYMERIC
5	ROCKIT HYBRID MOUNT V5 ASSEMBLY	6000 SERIES ALUMINUM & 300 SERIES STAINLESS

- ANCHOR NOTES:
1. CAPACITIES APPLY TO RAFTER SIZE OF 2x4 OR GREATER, DECK THICKNESS OF 7/16" OR GREATER, AND LAG BOLTS SECURED WITHIN THE CENTER 1/3 OF RAFTER WITH 2 1/2" MIN. END DISTANCE.
 2. SEE SHEET 2 FOR FASTENER PATTERNS.

ALLOWABLE LOADS				
ROCKIT MOUNT WITH V5 SMART SLIDE				
LOAD DIRECTION	FASTENER PATTERN #1	FASTENER PATTERN #2	FASTENER PATTERN #3	
	(lb)	(lb)	7/16" OSB (lb)	19/32" OSB (lb)
F1 - UPLIFT	475	675	112	156
F2 - SHEAR	414	414	261	261
F3 - SHEAR	147	147	124	124



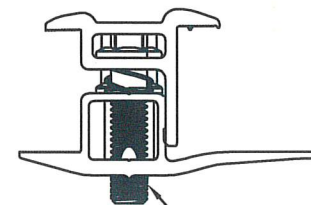
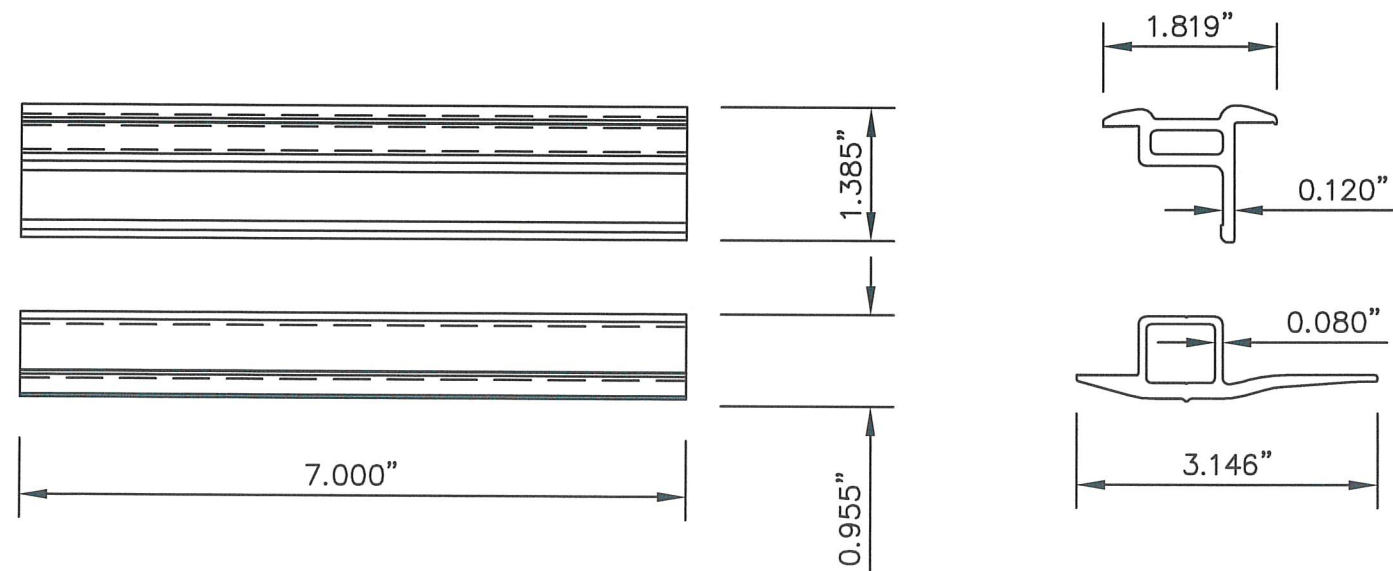
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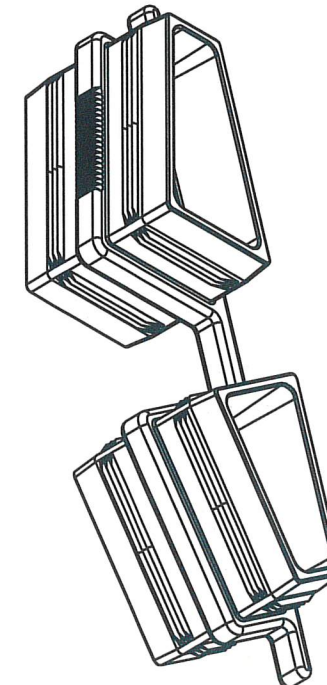
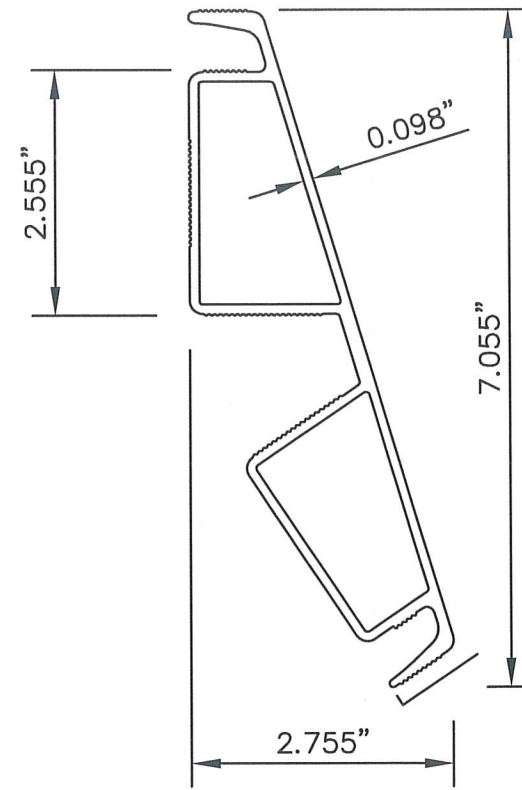
DWG: ROCKIT-SSLV5
SHEET: 5/7

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— 3/8"x1 3/4" HH BOLT
(300 SERIES SS,
Fut=100 ksi min)



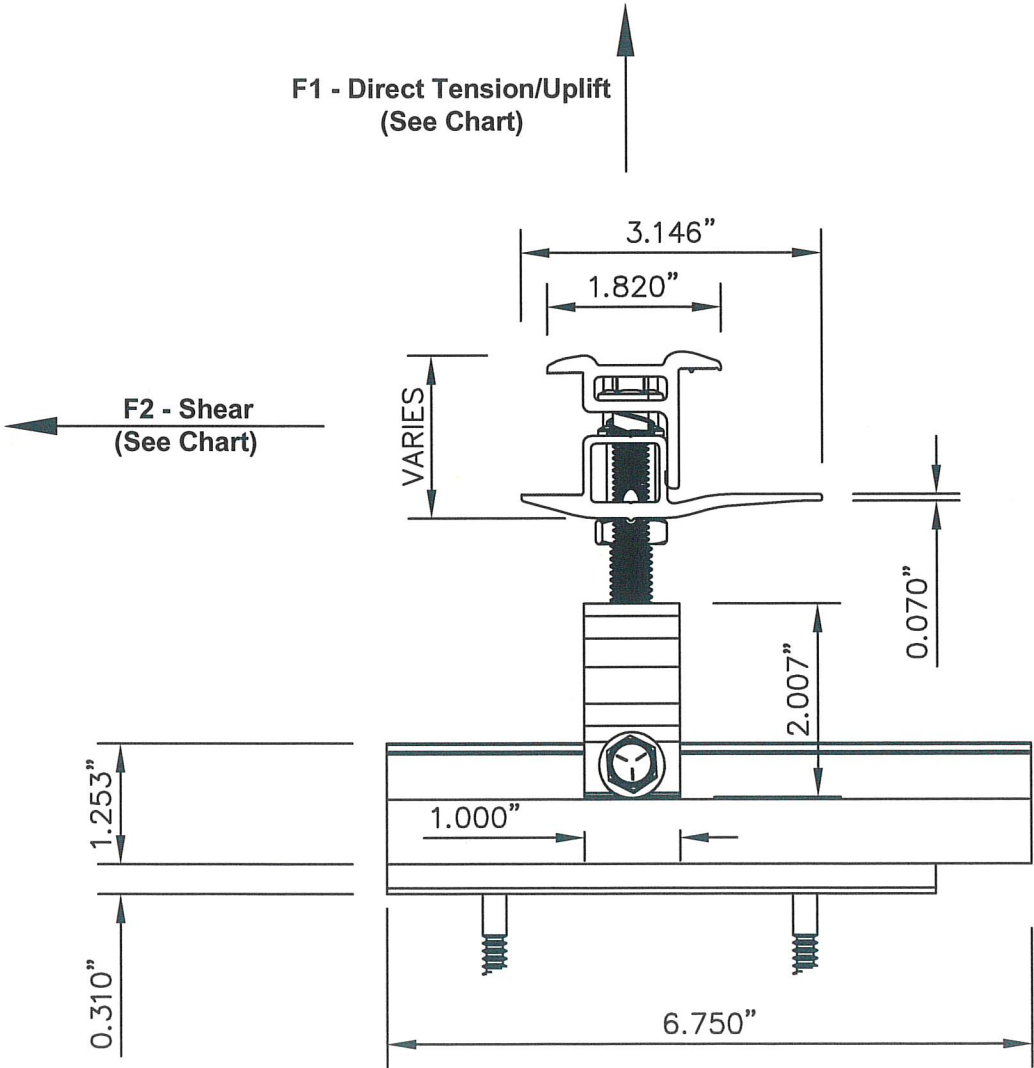
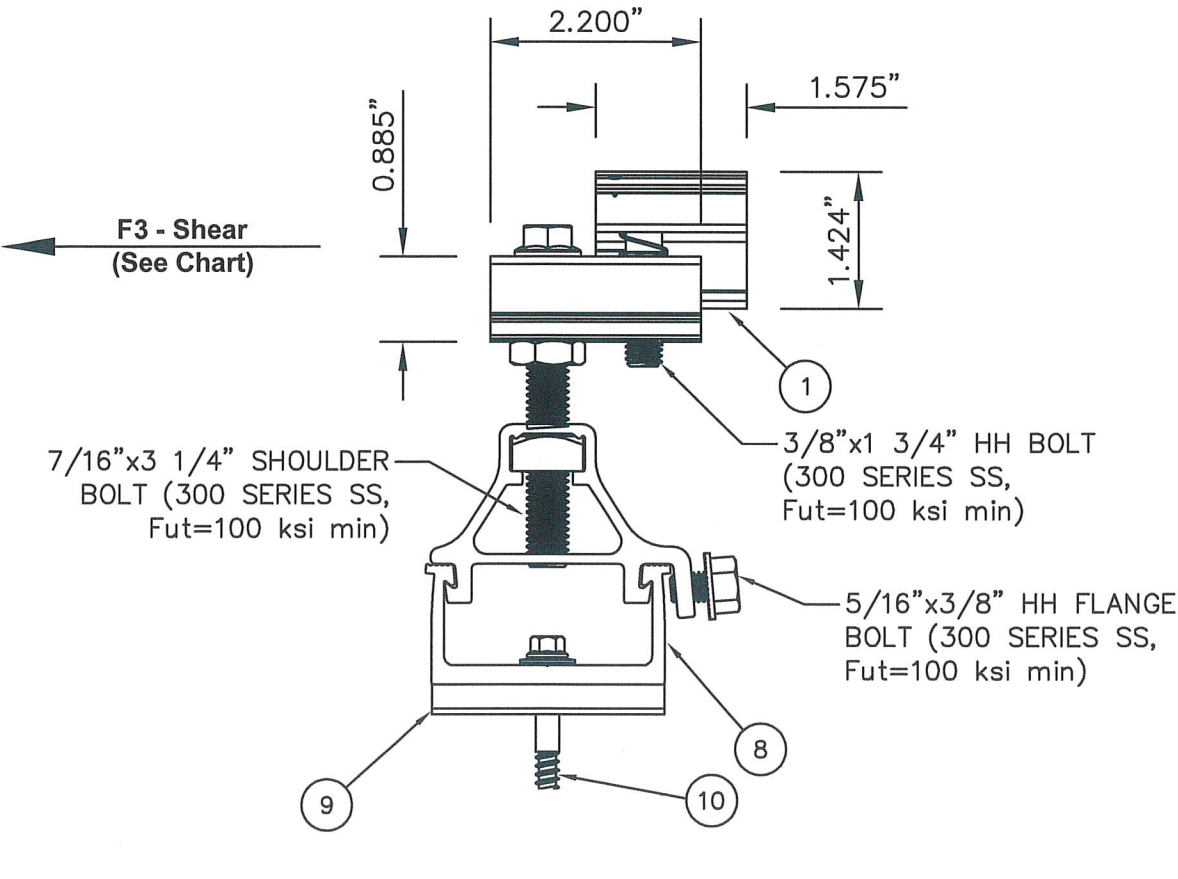
 EcoFasten® An Esdec Solar Group Company	4141 W VAN BUREN ST, SUITE 2 PHOENIX, AZ 85009 PHONE (877) 859-3947 info@ecofastensolar.com		DWG: ROCKIT-SSLV5
	SHEET:		6/7
	SCOTT WOLTERS FL PE# 62354		SEAL: 
	WOLTERS ENGINEERING (COA# 27194) 15211 97TH ROAD N WEST PALM BEACH, FL 33412 (561) 225-1982		TST SUBMITTAL
	PRINTS ISSUED FOR		REV.# DATE

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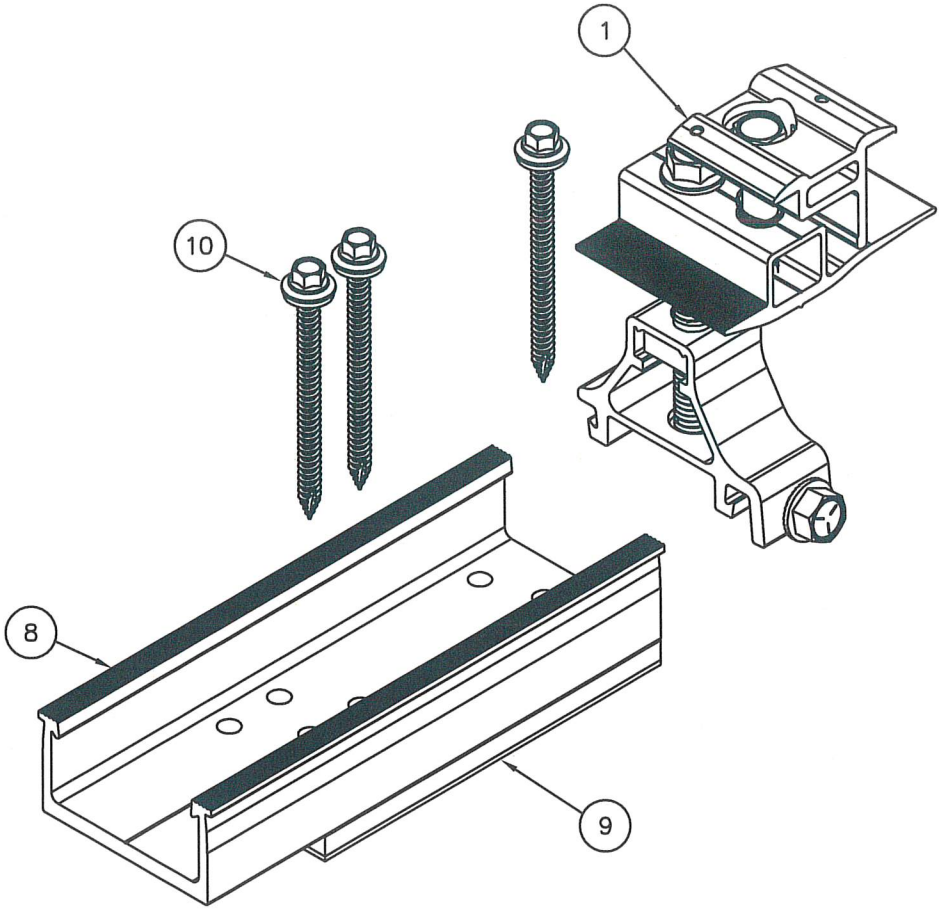
BILL OF MATERIALS- ROCKIT SMART SLIDE V5		
#	DESCRIPTION	MATERIALS/NOTES
8	ROCKIT SMART SLIDE V5 ASSEMBLY	6000 SERIES ALUMINUM & FLEXIBLE FLASHING SYSTEM
9	ULTRAGRIP FLASHING	PROPRIETARY FLASHING TECHNOLOGY
10	SCREW, #14 X 3" WITH EPDM BACKED WASHER	300 SERIES STAINLESS & EPDM

ALLOWABLE LOADS				
ROCKIT MOUNT WITH V5 SMART SLIDE				
LOAD DIRECTION	FASTENER PATTERN #1 (lb)	FASTENER PATTERN #2 (lb)	FASTENER PATTERN #3	
			7/16" OSB (lb)	19/32" OSB (lb)
F1 - UPLIFT	475	675	112	156
F2 - SHEAR	414	414	261	261
F3 - SHEAR	147	147	124	124

- ANCHOR NOTES:
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 - SEE SHEET 2 FOR FASTENER PATTERNS.



F1 - Direct Tension/Uplift
(See Chart)



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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