

STANDING SEAM METAL ROOF PV MOUNTING SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2023 (8TH EDITION) FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

THIS PRODUCT APPROVAL IS FOR THE ROOF TOP PV MOUNTING SYSTEM AS SHOWN ON THESE DRAWINGS. ROOF DETAILS, UPLIFT, SLOPE, ROOF TRUSSES AND OTHER ELEMENTS SHALL BE DESIGNED BY A FLORIDA REGISTERED ENGINEER AND REVIEWED BY THE STRUCTURAL PLANS EXAMINER OF THE CORRESPONDING BUILDING DEPARTMENT. ENGINEER OF RECORD TO VERIFY THAT ROOF MEMBERS CAN SUPPORT THE PV MODULE ARRAY UNDER ALL CODE LEVEL LOADING CONDITIONS. INSTALLER TO MAINTAIN THE WATERPROOF INTEGRITY OF THE ROOF.

INSTALLATION OF PV PANEL ACCESSORIES SHALL BE DONE IN ACCORDANCE WITH THE CURRENT EDITION OF FLORIDA BUILDING CODE AND THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

ANCHORS SHALL BE CORROSION RESISTANT, SPACED AS SHOWN ON DETAILS AND INSTALLED PER MANUF'S INSTRUCTIONS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND ROOF COVERING.

DESIGN LOADS SHOWN ARE BASED ON 'ALLOWABLE STRESS DESIGN (ASD)'. SOLAR PANELS TO BE INSTALLED PARALLEL TO THE ROOF SURFACE WITH A TOLERANCE OF LESS THAN 2 DEGREES.

CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1

DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2

SELECT RAIL TYPE FOR REQUIRED LOADS FROM LANDSCAPE OR PORTRAIT RAIL CAPACITY CHARTS SHOWN ON SHEET 4.
- STEP 3

VERIFY CROSS CLAMP CAPACITY USING CHART ON SHEET 4.
- STEP 4

SELECT ROOF MOUNT TYPE CAPACITY FOR LANDSCAPE OR PORTRAIT INSTALLATION USING CHARTS ON SHEET 5 WITH RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 5

THE LOWEST VALUE RESULTING FROM STEPS 2, 3 AND 4 SHALL APPLY TO ENTIRE SYSTEM.

PV PANELS NOT PART OF THIS APPROVAL. FOR PANEL DETAILS, GENERAL NOTES, COMPONENT SIZES, FIRE AND ELECTRICAL SAFETY STANDARDS, PANEL CONNECTION TO MOUNTS AND INSTALLATION REQUIREMENTS/LIMITATIONS SEE CORRESPONDING FLA. APPROVAL DWGS.

Sealed: 6/25/2024

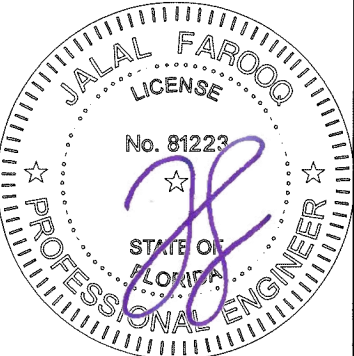
FL #46869

A- CONTRACTOR TO BE RESPONSIBLE FOR THE SELECTION, PURCHASE AND INSTALLATION OF THIS PRODUCT BASED ON THIS PRODUCT EVALUATION PROVIDED HE/SHE DOES NOT DEVIATE FROM THE CONDITIONS DETAILED ON THIS DOCUMENT.

B- THIS PRODUCT EVALUATION DOCUMENT WILL BE CONSIDERED INVALID IF ALTERED BY ANY MEANS.

C- SITE SPECIFIC PROJECTS SHALL BE PREPARED BY A FLORIDA REGISTERED ENGINEER OR ARCHITECT WHICH WILL BECOME THE ENGINEER OF RECORD (E.O.R.) FOR THE PROJECT AND WHO WILL BE RESPONSIBLE FOR THE PROPER USE OF THE P.E.D. ENGINEER OF RECORD, ACTING AS A DELEGATED ENGINEER TO THE P.E.D. ENGINEER SHALL SUBMIT TO THIS LATTER THE SITE SPECIFIC DRAWINGS FOR REVIEW.

D- THIS P.E.D. SHALL BEAR THE DATE AND ORIGINAL SEAL AND SIGNATURE OF THE PROFESSIONAL ENGINEER OF RECORD THAT PREPARED IT.

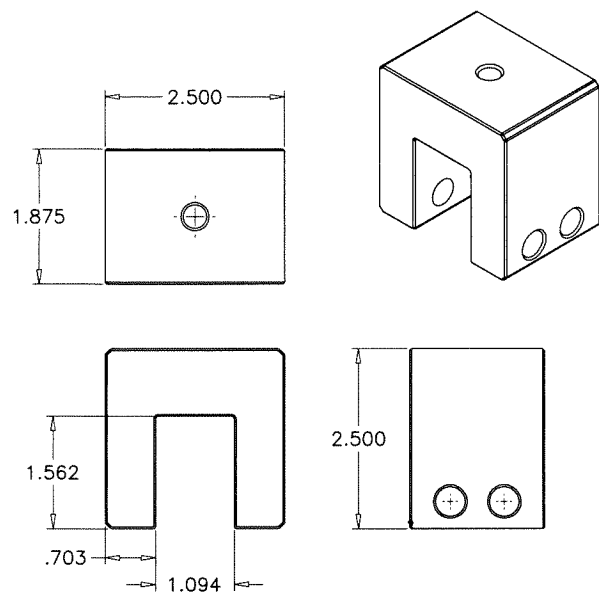


revisions:	no	date	by	description
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drawing no.				
24-27F				
sheet 1 of 8				

STANDING SEAM METAL ROOF PV MOUNTING SYSTEM

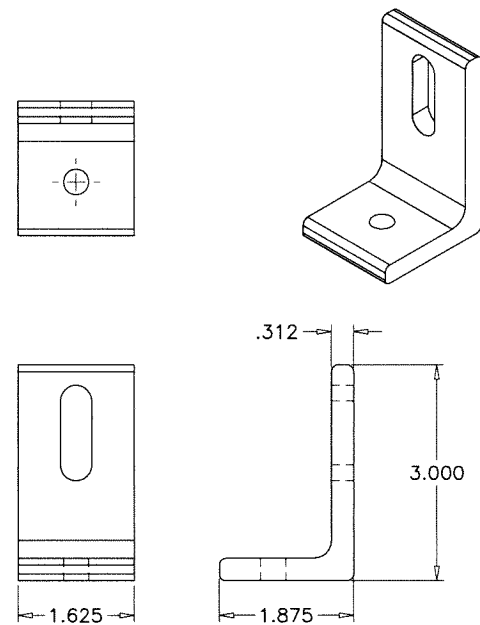
K2 Systems, LLC
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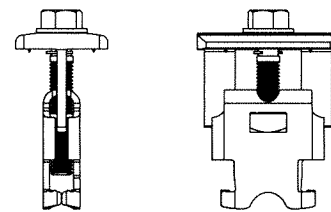
POWERCLAMP

6061-T6
(Fy MIN. = 35 KSI)
(Fu MIN. = 38 KSI)



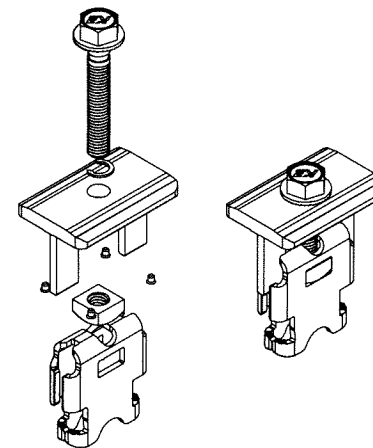
L-FOOT

6061-T6
(Fy MIN. = 35 KSI)
(Fu MIN. = 38 KSI)



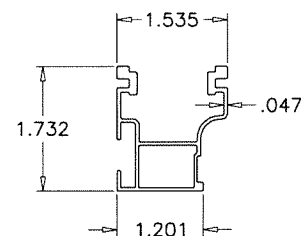
CROSS CLAMP BASE

ST. STEEL
(Fy MIN. = 31.2 KSI)
(Fu MIN. = 73.2 KSI)



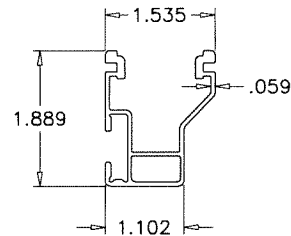
CROSS CLAMP M-E TOP

6063-T6
(Fy MIN. = 25 KSI)
(Fu MIN. = 30 KSI)



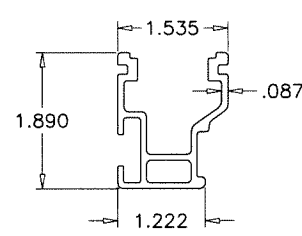
CROSSRAIL 44-X

6061-T6
(Fy MIN. = 35 KSI)
(Fu MIN. = 38 KSI)



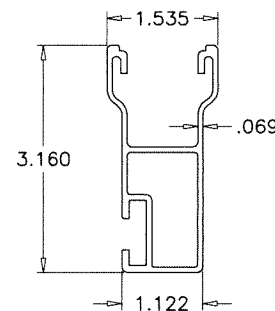
CROSSRAIL 48-X

6061-T6
(Fy MIN. = 35 KSI)
(Fu MIN. = 38 KSI)



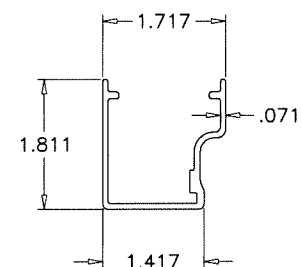
CROSSRAIL 48-XL

6061-T6
(Fy MIN. = 35 KSI)
(Fu MIN. = 38 KSI)



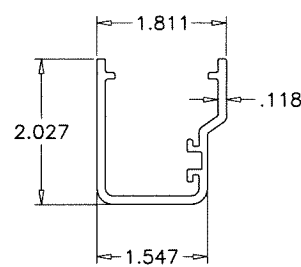
CROSSRAIL 80

6061-T6
(Fy MIN. = 35 KSI)
(Fu MIN. = 38 KSI)



**RAIL CONNECTOR 44-X
TOOL-LESS RAIL CONNECTOR 44X**

6005A-T5 OR BETTER
(Fy MIN. = 31 KSI)
(Fu MIN. = 38 KSI)

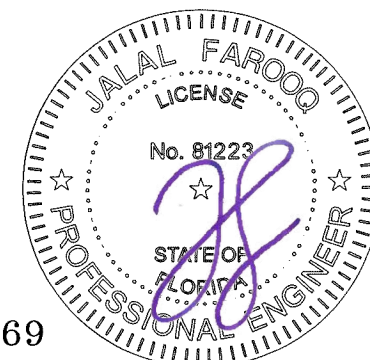


RAIL CONNECTOR 48-X, 48-XL

6005A-T5 OR BETTER
(Fy MIN. = 31 KSI)
(Fu MIN. = 38 KSI)

Sealed: 6/25/2024

FL #46869



STANDING SEAM METAL ROOF PV MOUNTING SYSTEM

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revisions:		date		by		description	
no	date	no	date	no	date	no	date

date: 05-07-24

scale: 3/8" = 1"

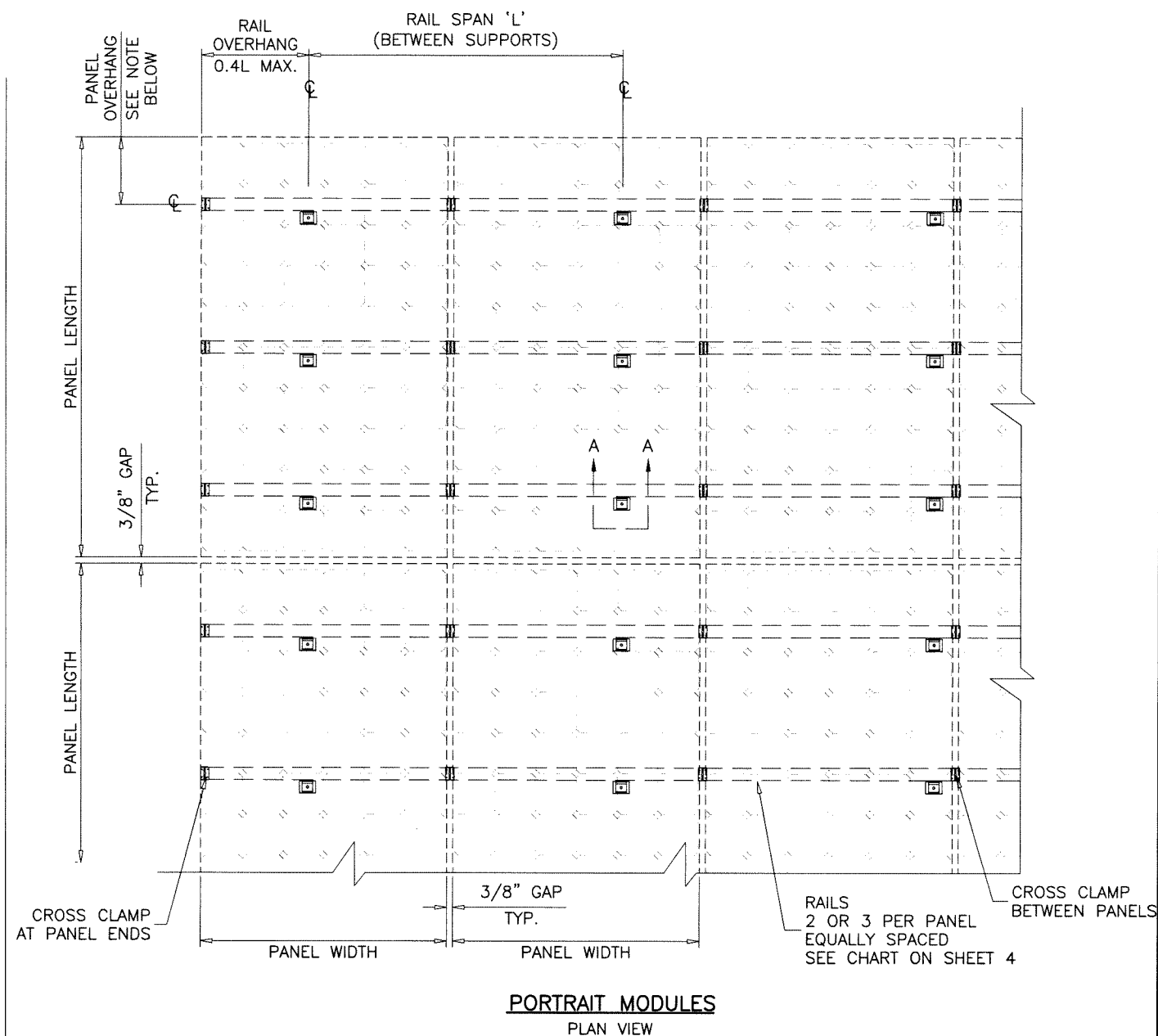
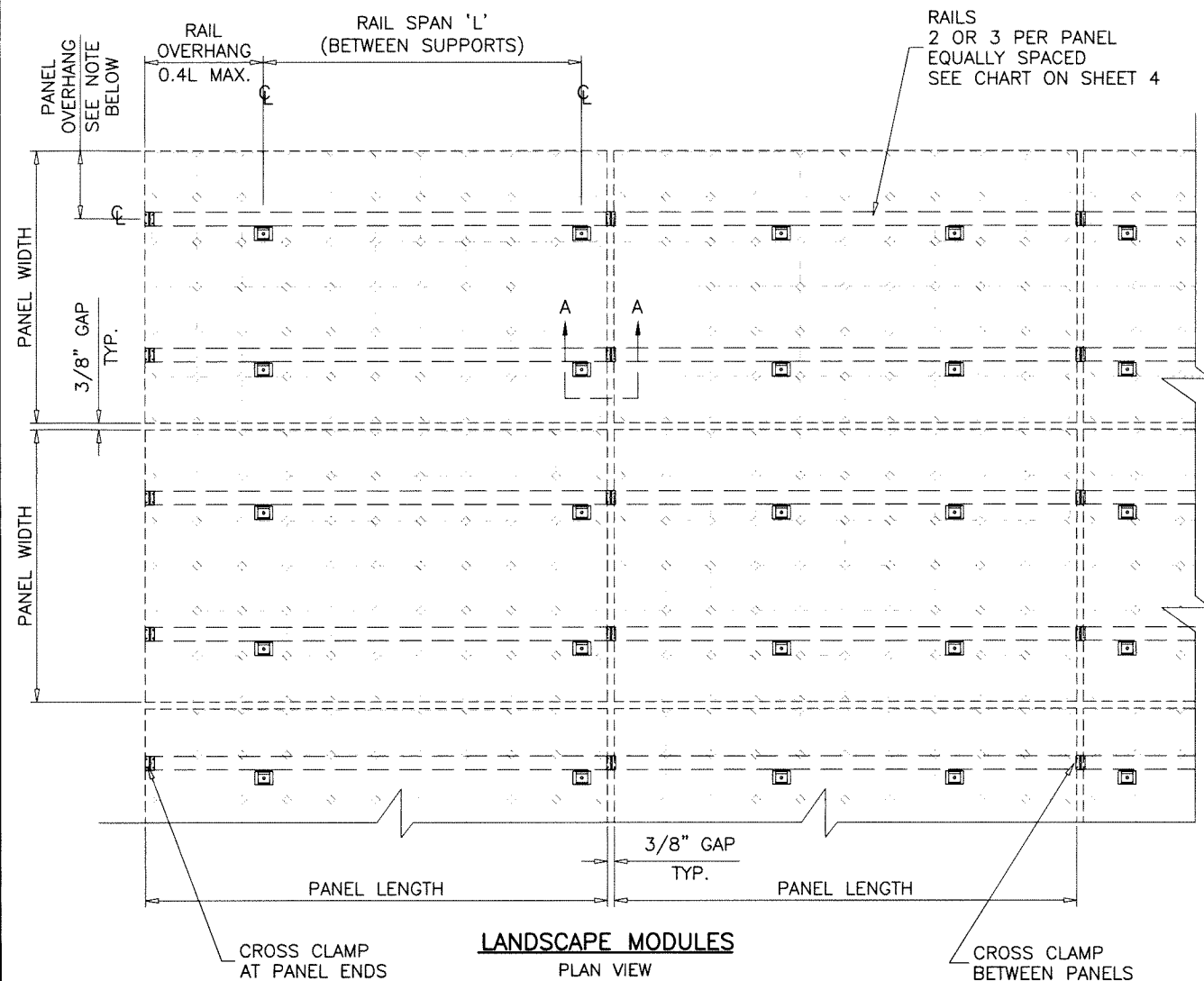
dr. by: TARIQ

chk. by:

drawing no.

24-27F

sheet 2 of 8



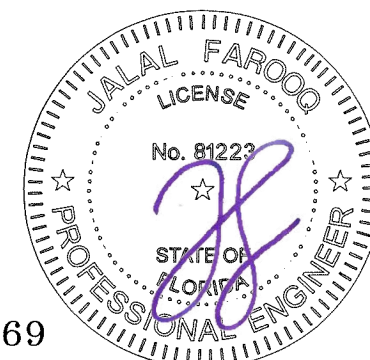
NOTES:
 PANEL OVERHANG AS PER PANEL MANUFACTURER'S INSTRUCTIONS.
 SHOULD BE EQUAL ON BOTH SIDES OF PANELS
 FOR 3 RAILS SUPPORTED PANELS, OVERHANGS TO BE
 BETWEEN 12-20% OF PANEL LENGTH OR WIDTH.

44X, 48X & 48XL RAILS CAN BE JOINED WITH 7" LONG CONNECTORS TO ACHIEVE REQUIRED LENGTHS.
 SPLICE JOINTS TO BE ANYWHERE ALONG THE RAIL EXCEPT NO PART OF THE
 SPLICE SHOULD BE WITHIN THE RAIL CANTILEVER.

STANDING SEAM METAL ROOF ATTACHMENT

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dr. by: TARIQ

chk. by:

drawing no.
24-27F

sheet **3** of **8**

CROSSRAILS '44X', '48X', '48XL' & '80'

RAILS DESIGN LOAD CAPACITY – PSF (LANDSCAPE MODULES)																							
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS				ROOF SLOPES UP TO 7°				ROOF SLOPES 7° TO 20°				ROOF SLOPES 20° TO 27°				ROOF SLOPES 27° TO 45°				
			CROSSRAIL '44X'	CROSSRAIL '48X'	CROSSRAIL '48XL'	CROSSRAIL '80'	CROSSRAIL '44X'	CROSSRAIL '48X'	CROSSRAIL '48XL'	CROSSRAIL '80'	CROSSRAIL '44X'	CROSSRAIL '48X'	CROSSRAIL '48XL'	CROSSRAIL '80'	CROSSRAIL '44X'	CROSSRAIL '48X'	CROSSRAIL '48XL'	CROSSRAIL '80'	CROSSRAIL '44X'	CROSSRAIL '48X'	CROSSRAIL '48XL'	CROSSRAIL '80'	
66"	2	16"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0
		32"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0
		48"	69.6	90.0	114.5	129.0	69.1	89.3	113.9	129.0	68.0	88.1	112.7	129.0	67.3	87.4	112.0	129.0	65.6	85.4	110.1	129.0	129.0
		64"	40.9	52.3	66.1	125.6	40.4	51.7	65.6	124.6	39.3	50.5	64.4	122.7	38.6	49.8	63.7	121.6	36.9	47.8	61.8	119.0	119.0
	3	16"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0
		32"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0
		48"	82.4	106.8	129.0	129.0	81.9	106.2	129.0	129.0	80.8	104.9	129.0	129.0	80.2	104.2	129.0	129.0	78.4	102.2	129.0	129.0	129.0
		64"	48.1	61.8	78.3	129.0	47.6	61.2	77.7	129.0	46.5	59.9	76.5	129.0	45.9	59.2	75.8	129.0	44.1	57.3	74.0	129.0	129.0
79.1"	2	16"	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
		32"	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0
		48"	69.6	86.0	86.0	86.0	69.1	86.0	86.0	86.0	68.0	86.0	86.0	86.0	67.3	86.0	86.0	86.0	65.6	86.0	86.0	86.0	86.0
		64"	40.9	52.3	66.1	86.0	40.4	51.7	65.6	86.0	39.3	50.5	64.4	86.0	38.6	49.8	63.7	86.0	36.9	47.8	61.8	86.0	86.0
	3	16"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0
		32"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0
		48"	82.4	106.8	129.0	129.0	81.9	106.2	129.0	129.0	80.8	104.9	129.0	129.0	80.2	104.2	129.0	129.0	78.4	102.2	129.0	129.0	129.0
		64"	48.1	61.8	78.3	129.0	47.6	61.2	77.7	129.0	46.5	59.9	76.5	129.0	45.9	59.2	75.8	129.0	44.1	57.3	74.0	129.0	129.0

LIMIT MAXIMUM POSITIVE(+) LOADS TO 129.0 PSF

CROSSRAILS '44X', '48X', '48XL' & '80'

RAILS DESIGN LOAD CAPACITY – PSF (PORTRAIT MODULES)																							
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS				ROOF SLOPES UP TO 7°				ROOF SLOPES 7° TO 20°				ROOF SLOPES 20° TO 27°				ROOF SLOPES 27° TO 45°				
			CROSSRAIL '44X'	CROSSRAIL '48X'	CROSSRAIL '48XL'	CROSSRAIL '80'	CROSSRAIL '44X'	CROSSRAIL '48X'	CROSSRAIL '48XL'	CROSSRAIL '80'	CROSSRAIL '44X'	CROSSRAIL '48X'	CROSSRAIL '48XL'	CROSSRAIL '80'	CROSSRAIL '44X'	CROSSRAIL '48X'	CROSSRAIL '48XL'	CROSSRAIL '80'	CROSSRAIL '44X'	CROSSRAIL '48X'	CROSSRAIL '48XL'	CROSSRAIL '80'	
66"	2	16"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0
		32"	92.2	119.6	129.0	129.0	91.7	119.0	129.0	129.0	90.6	117.7	129.0	129.0	89.9	117.0	129.0	129.0	88.2	115.1	129.0	129.0	
		48"	43.2	55.4	70.0	129.0	42.7	54.8	69.5	129.0	41.6	53.5	68.3	129.0	41.0	52.8	67.6	129.0	39.2	50.9	65.7	126.6	
		64"	26.0	32.9	41.1	76.7	25.5	32.3	40.6	75.7	24.4	31.0	39.4	73.8	23.8	30.3	38.7	72.7	22.1	28.4	36.8	70.0	
	3	16"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	
		32"	109.4	129.0	129.0	129.0	108.9	129.0	129.0	129.0	107.8	129.0	129.0	129.0	107.2	129.0	129.0	129.0	105.5	129.0	129.0	129.0	
		48"	50.9	65.4	82.9	129.0	50.3	64.8	82.4	129.0	49.3	63.6	81.2	129.0	48.6	62.8	80.5	129.0	46.9	60.9	78.6	129.0	
		64"	30.4	38.6	48.4	90.9	29.8	37.9	47.8	89.9	28.8	36.7	46.6	88.0	28.1	36.0	45.9	87.0	26.4	34.0	44.1	84.3	
79.1"	2	16"	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	86.0	
		32"	77.6	86.0	86.0	86.0	77.1	86.0	86.0	86.0	76.0	86.0	86.0	86.0	75.4	86.0	86.0	86.0	73.6	86.0	86.0	86.0	
		48"	36.7	46.9	59.1	86.0	36.2	46.3	58.5	86.0	35.1	45.0	57.4	86.0	34.5	44.3	56.7	86.0	32.7	42.4	54.8	86.0	
		64"	22.4	28.1	35.0	64.7	21.9	27.5	34.4	63.7	20.8	26.3	33.2	61.8	20.2	25.5	32.5	60.7	18.4	23.6	30.7	58.0	
	3	16"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	
		32"	92.0	119.4	129.0	129.0	91.5	118.8	129.0	129.0	90.4	117.5	129.0	129.0	89.8	116.8	129.0	129.0	88.0	114.9	129.0	129.0	
		48"	43.1	55.3	69.9	129.0	42.6	54.7	69.3	129.0	41.5	53.4	68.1	129.0	40.9	52.7	67.4	129.0	39.1	50.8	65.6	126.3	
		64"	26.0	32.8	41.1	76.5	25.5	32.2	40.5	75.6	24.4	31.0	39.3	73.7	23.8	30.3	38.6	72.6	22.0	28.3	36.8	69.9	

LIMIT MAXIMUM POSITIVE(+) LOADS TO 129.0 PSF

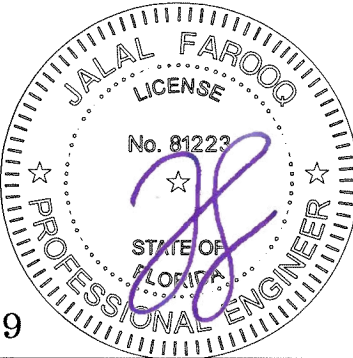
PANEL CLAMP

CROSS CLAMP DESIGN LOAD CAPACITY – PSF (LANDSCAPE & PORTRAIT MODULES)							
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS	ROOF SLOPES UP TO 7°	ROOF SLOPES 7° TO 20°	ROOF SLOPES 20° TO 27°	ROOF SLOPES 27° TO 45°
66"	2	16" TO 64"	107.5	106.4	104.1	102.9	99.8
	3	16" TO 64"	127.8	126.6	124.4	123.1	120.1
79.1"	2	16" TO 64"	90.4	89.3	87.0	85.8	82.7
	3	16" TO 64"	107.3	106.2	103.9	102.7	99.6

LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (39.5" X 66") AND 72 CELLS PANEL (39.5" X 79.1").

Sealed: 6/25/2024

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afC
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sheet **4** of **8**

ROOF MOUNTS DESIGN LOAD CAPACITY – PSF (LANDSCAPE MODULES)																	
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS			ROOF SLOPES UP TO 7°			ROOF SLOPES 7° TO 20°			ROOF SLOPES 20° TO 27°			ROOF SLOPES 27° TO 45°		
			ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'C'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'C'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'C'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'C'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'C'
66"	2	16"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0
		32"	111.7	69.6	81.8	110.7	69.0	81.1	108.6	67.8	79.6	107.5	67.1	78.8	104.7	65.2	76.6
		48"	75.8	47.7	55.9	74.8	47.2	55.2	72.7	45.9	53.7	71.6	45.2	52.9	68.7	43.3	50.7
		64"	57.9	36.8	42.9	56.8	36.2	42.2	54.8	35.0	40.7	53.6	34.3	39.9	50.8	32.4	37.7
	3	16"	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0	129.0
		32"	129.0	82.4	97.0	129.0	81.9	96.3	129.0	80.6	94.9	128.6	79.9	94.0	125.7	78.0	91.8
		48"	89.9	56.3	66.0	88.8	55.7	65.3	86.8	54.5	63.8	85.6	53.8	63.0	82.8	51.9	60.8
		64"	68.4	43.2	50.5	67.4	42.6	49.8	65.3	41.4	48.3	64.2	40.7	47.5	61.3	38.8	45.3

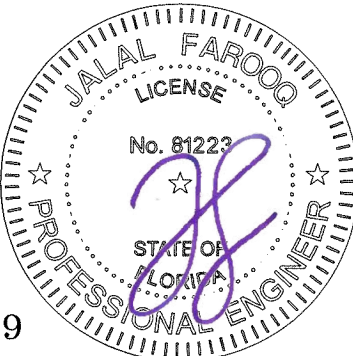
ROOF MOUNTS DESIGN LOAD CAPACITY – PSF (PORTRAIT MODULES)																	
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS			ROOF SLOPES UP TO 7°			ROOF SLOPES 7° TO 20°			ROOF SLOPES 20° TO 27°			ROOF SLOPES 27° TO 45°		
			ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'C'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'C'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'C'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'C'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'C'
66"	2	16"	129.0	82.4	97.0	129.0	81.8	96.3	129.0	80.6	94.8	128.6	79.9	94.0	125.7	78.0	91.8
		32"	68.4	43.2	50.5	67.3	42.6	49.8	65.3	41.4	48.3	64.2	40.7	47.5	61.3	38.8	45.3
		48"	46.9	30.1	35.0	45.9	29.6	34.3	43.8	28.3	32.8	42.7	27.6	32.0	39.9	25.7	29.8
		64"	36.2	23.6	27.3	35.2	23.0	26.5	33.1	21.8	25.1	32.0	21.1	24.2	29.1	19.2	22.1
	3	16"	129.0	97.8	115.2	129.0	97.2	114.5	129.0	96.0	113.0	129.0	95.3	112.2	129.0	93.4	110.0
		32"	81.0	50.9	59.6	79.9	50.3	58.9	77.9	49.1	57.4	76.8	48.4	56.6	73.9	46.5	54.4
		48"	55.3	35.3	41.1	54.3	34.7	40.4	52.2	33.4	38.9	51.1	32.7	38.1	48.3	30.8	35.9
		64"	42.5	27.4	31.8	41.4	26.9	31.1	39.4	25.6	29.6	38.3	24.9	28.8	35.4	23.0	26.6
79.1"	2	16"	86.0	69.5	81.7	86.0	68.9	80.9	86.0	67.7	79.5	86.0	67.0	78.6	86.0	65.1	76.5
		32"	57.8	36.7	42.8	56.7	36.1	42.1	54.7	34.9	40.6	53.5	34.2	39.8	50.7	32.3	37.6
		48"	39.8	25.8	29.9	38.8	25.2	29.2	36.7	24.0	27.7	35.6	23.3	26.9	32.8	21.4	24.7
		64"	30.9	20.4	23.4	29.8	19.8	22.7	27.8	18.6	21.2	26.7	17.9	20.4	23.8	16.0	18.2
	3	16"	129.0	82.3	96.8	129.0	81.7	96.1	129.0	80.5	94.7	128.3	79.8	93.8	125.5	77.9	91.7
		32"	68.3	43.1	50.4	67.2	42.6	49.7	65.2	41.3	48.2	64.0	40.6	47.4	61.2	38.7	45.2
		48"	46.9	30.1	34.9	45.8	29.5	34.2	43.8	28.3	32.8	42.6	27.6	31.9	39.8	25.7	29.8
		64"	36.1	23.6	27.2	35.1	23.0	26.5	33.0	21.8	25.0	31.9	21.1	24.2	29.1	19.2	22.0

ROOF TYPE 'A': BERRIDGE DOUBLE ZEE-LOCK 24 GA. & 22 GA. STEEL STANDING SEAM ROOF PANELS (SEE SHEET 6)
ROOF TYPE 'B': FIRESTONE SNAP LOCK .032" & .040" THK. ALUMINUM STANDING SEAM PANELS (SEE SHEET 7)
ROOF TYPE 'C': PETERSEN SNAP LOCK 24 GA. & 22 GA. STEEL STANDING SEAM PANELS (SEE SHEET 8)

LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (39.5" X 66")
AND 72 CELLS PANEL (39.5" X 79.1").

Sealed: 6/25/2024

FL #46869



af c

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

STANDING SEAM METAL ROOF PV MOUNTING SYSTEM

K2 Systems, LLC
4665 North Avenue, Suite 1
Oceanside CA. 92056
Phone: 760-301-5300
www.k2-systems.com

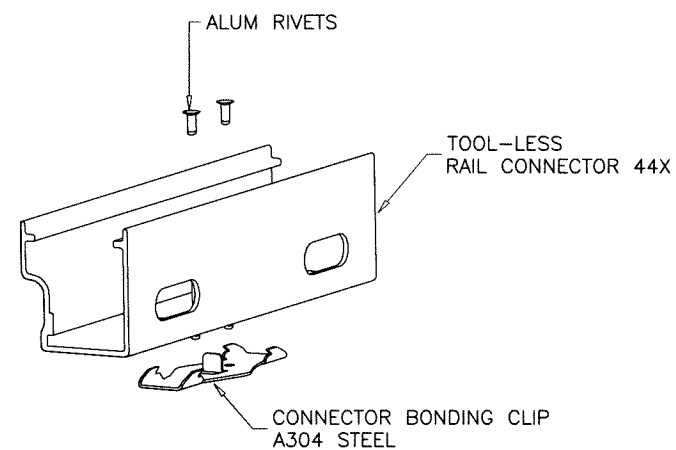
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drawing no.
24-27F

sheet 5 of 8

BERRIDGE DOUBLE ZEE-LOCK 24 GA. & 22 GA. STANDING SEAM METAL ROOF ATTACHMENT

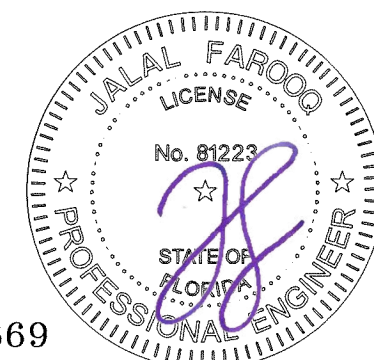


ALTERNATE OPTION

TOOL-LESS RAIL CONNECTOR 44X WITHOUT BOLTS

Sealed: 6/25/2024

FL #46869



STANDING SEAM METAL ROOF PV MOUNTING SYSTEM

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FBPE #3538
SOLAR-RACK\24-

FBPE #3538

1000

SOLAR-

--RACK\24--

-27F-K2S

date: 05-07-24	revisions:	
scale: 3/8" = 1"	no	date by description
dr. by: TARIQ		
chk. by:		

drawing no.
24-27F

sheet 6 of 8

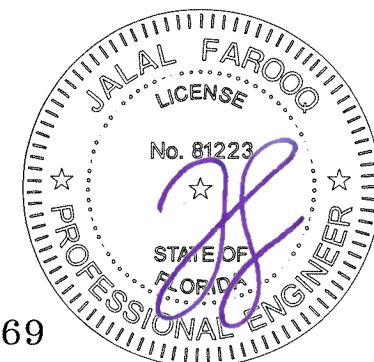
FIRESTONE SNAP LOCK .032" & .040" THK. STANDING SEAM METAL ROOF ATTACHMENT



TOOL-LESS RAIL CONNECTOR 44X WITHOUT BOLTS

Sealed: 6/25/2024

FL #46869



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TEL. (305) 264-8100
FBBF #2520

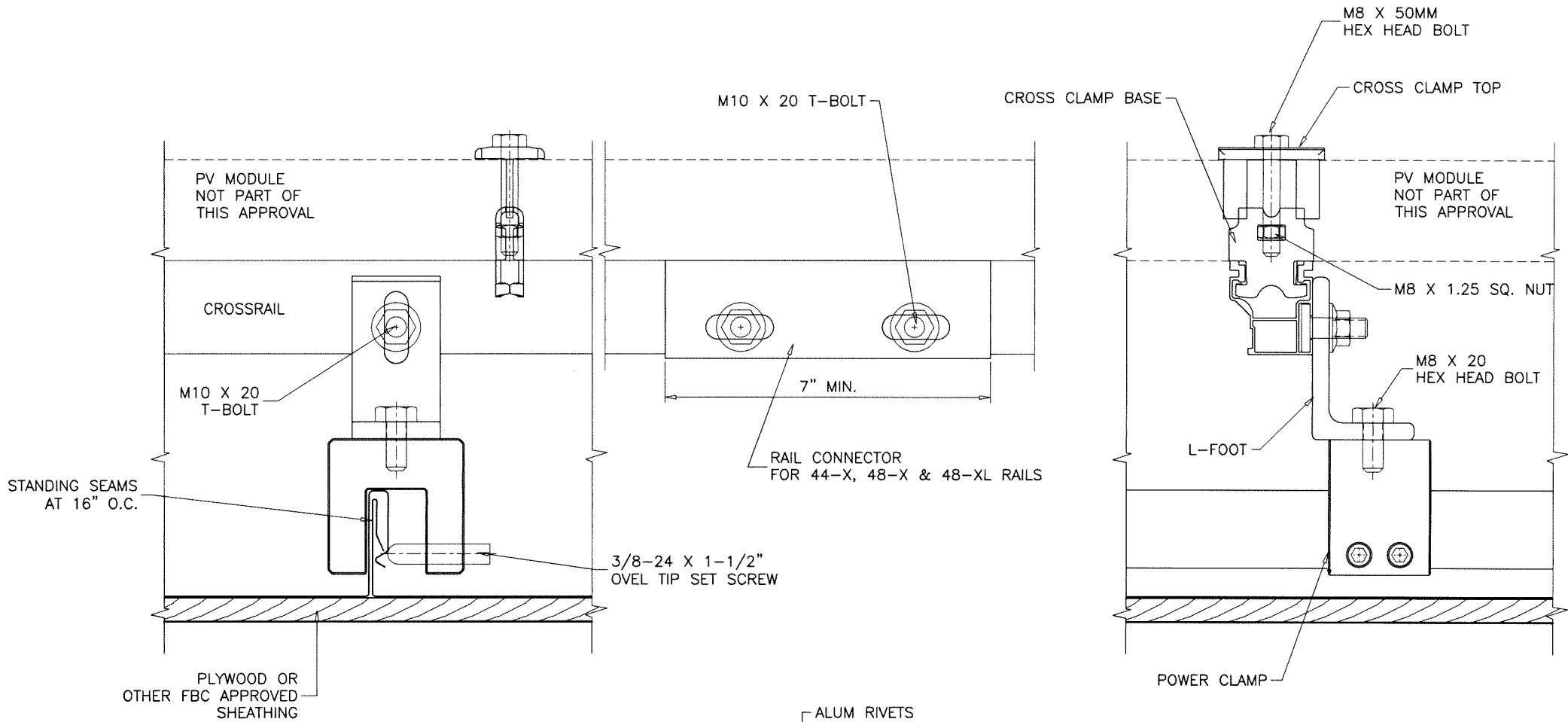
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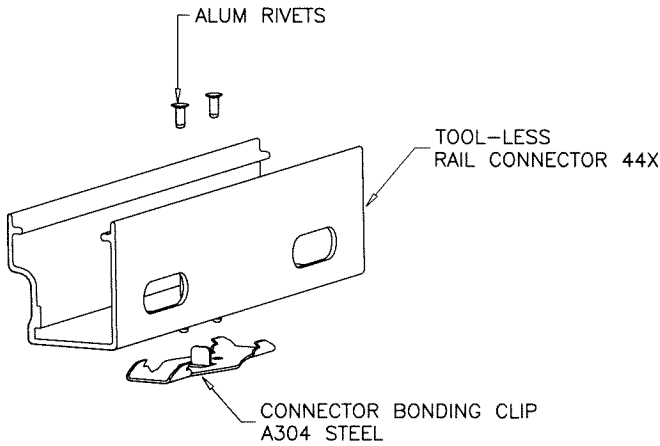
SOLAR-RACK\24--27F-K2S

ROOF TYPE 'C'

PETERSEN SNAP LOCK 24 GA. & 22 GA. STANDING SEAM METAL ROOF ATTACHMENT



SECTION A-A



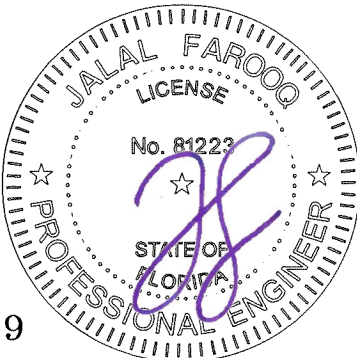
ALTERNATE OPTION

TOOL-LESS RAIL CONNECTOR 44X WITHOUT BOLTS

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 409.3 Lbs MAX.
SHEAR RESISTANCE = 288.3 Lbs MAX.

Sealed: 6/25/2024

FL #46869



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chk. by:

drawing no.
24-27F

sheet **8** of **8**