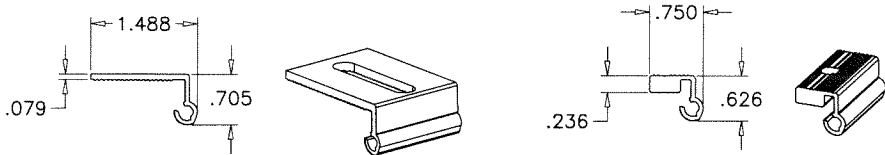
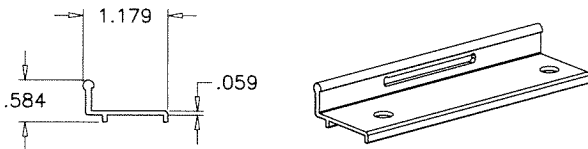


L-FOOT
-
6005-T5



HINGE ADJUSTABLE PLATFORM
-
6005-T5



HINGE BASE
-
6005-T5

ROOF TOP 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 ROOF MOUNT TYPE CAPACITY FOR LANDSCAPE OR PORTRAIT INSTALLATION USING CHARTS ON SHEET 3 WITH RATING MORE THAN DESIGN LOAD SPECIFIED IN STEP 1 ABOVE.
- STEP 3** THE LOWEST VALUE RESULTING FROM STEPS 1 AND 2 SHALL APPLY TO ENTIRE SYSTEM.

PV PANELS, RAILS AND PANEL CLAMPS 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.

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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.

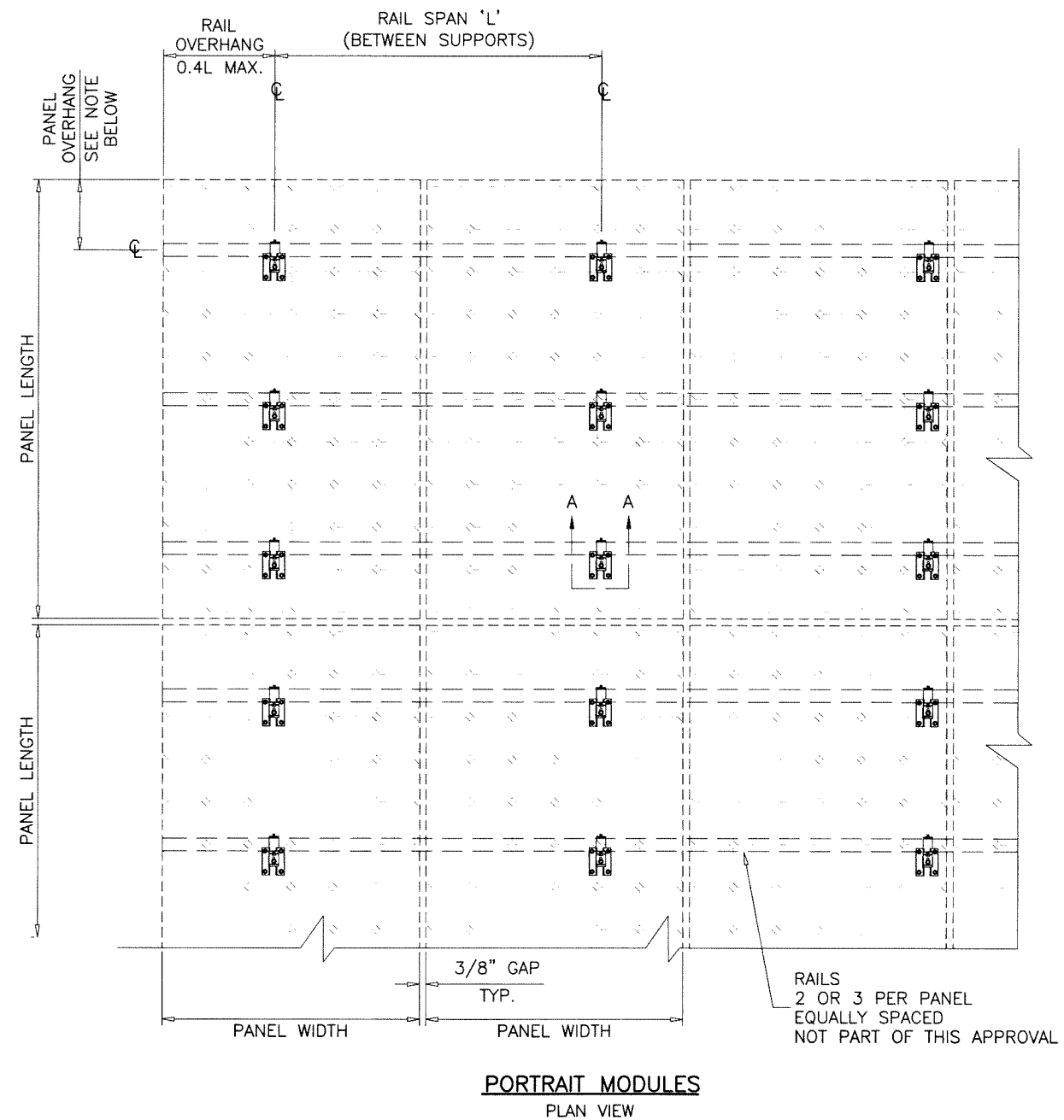
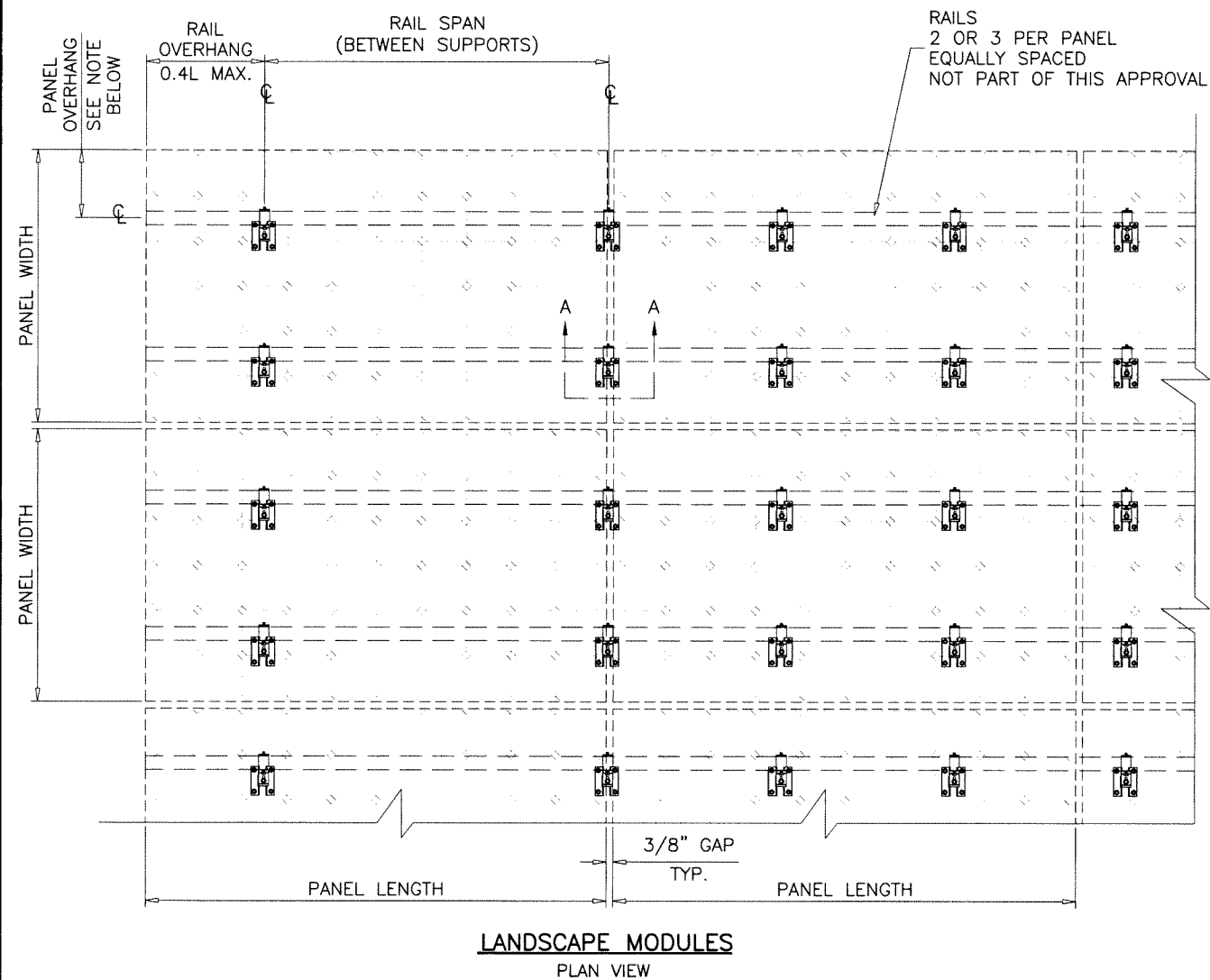


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SOLAR-RACK\24-30F-SMC

ROOF TOP PV MOUNTING SYSTEM

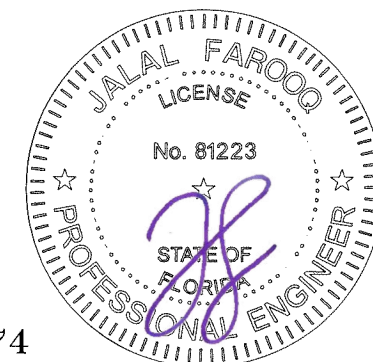
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drawing no.		24-30F	
sheet		1 of 5	



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.

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MRB MOUNT METAL ROOF ATTACHMENT

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24-30F
sheet 2 of 5

ROOF MOUNTS DESIGN LOAD CAPACITY – PSF (LANDSCAPE MODULES)												
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS		ROOF SLOPES UP TO 7°		ROOF SLOPES 8° TO 20°		ROOF SLOPES 21° TO 27°		ROOF SLOPES 28° TO 45°	
			ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'A'	ROOF TYPE 'B'
68"	2	12"	160.7	148.6	159.5	147.5	157.3	145.3	156.1	144.1	153.1	141.1
		24"	82.3	76.3	81.2	75.2	79.0	73.0	77.8	71.8	74.8	68.8
		36"	56.2	52.2	55.1	51.1	52.9	48.9	51.7	47.7	48.7	44.7
		48"	43.2	40.2	42.0	39.0	39.8	36.9	38.6	35.7	35.6	32.7
		60"	35.3	32.9	34.2	31.8	32.0	29.6	30.8	28.4	27.8	25.4
		72"	30.1	28.1	29.0	27.0	26.8	24.8	25.6	23.6	22.6	20.6
	3	12"	191.3	176.9	190.2	175.8	188.0	173.6	186.8	172.4	183.8	169.4
		24"	97.7	90.5	96.5	89.3	94.3	87.2	93.1	86.0	90.1	83.0
		36"	66.4	61.6	65.3	60.5	63.1	58.3	61.9	57.2	58.9	54.2
		48"	50.8	47.2	49.7	46.1	47.5	43.9	46.3	42.7	43.3	39.8
		60"	41.5	38.6	40.3	37.5	38.1	35.3	36.9	34.1	33.9	31.1
		72"	35.2	32.8	34.1	31.7	31.9	29.5	30.7	28.3	27.7	25.3

ROOF MOUNTS DESIGN LOAD CAPACITY – PSF (PORTRAIT MODULES)												
PANEL LENGTH	NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS		ROOF SLOPES UP TO 7°		ROOF SLOPES 8° TO 20°		ROOF SLOPES 21° TO 27°		ROOF SLOPES 28° TO 45°	
			ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'A'	ROOF TYPE 'B'	ROOF TYPE 'A'	ROOF TYPE 'B'
68"	2	12"	96.1	89.1	95.0	87.9	92.8	85.8	91.6	84.6	88.6	81.6
		24"	50.1	46.5	48.9	45.4	46.7	43.2	45.5	42.0	42.5	39.1
		36"	34.7	32.4	33.6	31.2	31.4	29.1	30.2	27.9	27.2	24.9
		48"	27.0	25.3	25.9	24.1	23.7	22.0	22.5	20.8	19.5	17.8
		60"	22.4	21.0	21.3	19.9	19.1	17.7	17.9	16.5	14.9	13.5
		72"	19.4	18.2	18.2	17.1	16.0	14.9	14.8	13.7	11.8	10.7
	3	12"	114.2	105.7	113.1	104.6	110.9	102.4	109.7	101.2	106.6	98.2
		24"	59.1	54.9	58.0	53.7	55.8	51.6	54.6	50.4	51.6	47.4
		36"	40.7	37.9	39.6	36.8	37.4	34.6	36.2	33.4	33.2	30.4
		48"	31.5	29.4	30.4	28.3	28.2	26.1	27.0	24.9	24.0	22.0
		60"	26.0	24.3	24.9	23.2	22.7	21.1	21.5	19.9	18.5	16.9
		72"	22.4	21.0	21.2	19.8	19.0	17.7	17.8	16.5	14.8	13.5
80"	2	12"	82.3	76.3	81.2	75.2	79.0	73.0	77.8	71.8	74.8	68.8
		24"	43.2	40.2	42.0	39.0	39.8	36.9	38.6	35.7	35.6	32.7
		36"	30.1	28.1	29.0	27.0	26.8	24.8	25.6	23.6	22.6	20.6
		48"	23.6	22.1	22.5	21.0	20.3	18.8	19.1	17.6	16.0	14.6
		60"	19.7	18.5	18.5	17.3	16.3	15.2	15.1	14.0	12.1	11.0
		72"	17.1	16.1	15.9	14.9	13.7	12.8	12.5	11.6	–	–
	3	12"	97.7	90.5	96.5	89.3	94.3	87.2	93.1	86.0	90.1	83.0
		24"	50.8	47.2	49.7	46.1	47.5	43.9	46.3	42.7	43.3	39.8
		36"	35.2	32.8	34.1	31.7	31.9	29.5	30.7	28.3	27.7	25.3
		48"	27.4	25.6	26.3	24.5	24.1	22.3	22.9	21.1	19.9	18.1
		60"	22.7	21.3	21.6	20.2	19.4	18.0	18.2	16.8	15.2	13.8
		72"	19.6	18.4	18.5	17.3	16.3	15.1	15.1	13.9	12.1	10.9

ROOF TYPE 'A': FLAT METAL ROOF PANELS (SEE SHEET 4)
ROOF TYPE 'B': BARREL OR TRAPEZOIDAL ROOF PANELS (SEE SHEET 5)

LOADS SHOWN IN CHARTS ABOVE ARE FOR 60 CELLS PANEL (40" X 68")
AND 72 CELLS PANEL (40" X 80").

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ROOF TOP PV MOUNTING SYSTEM

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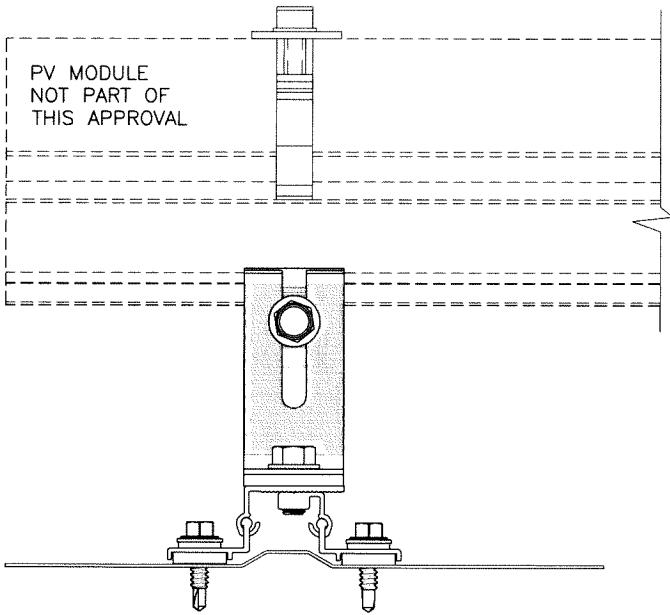
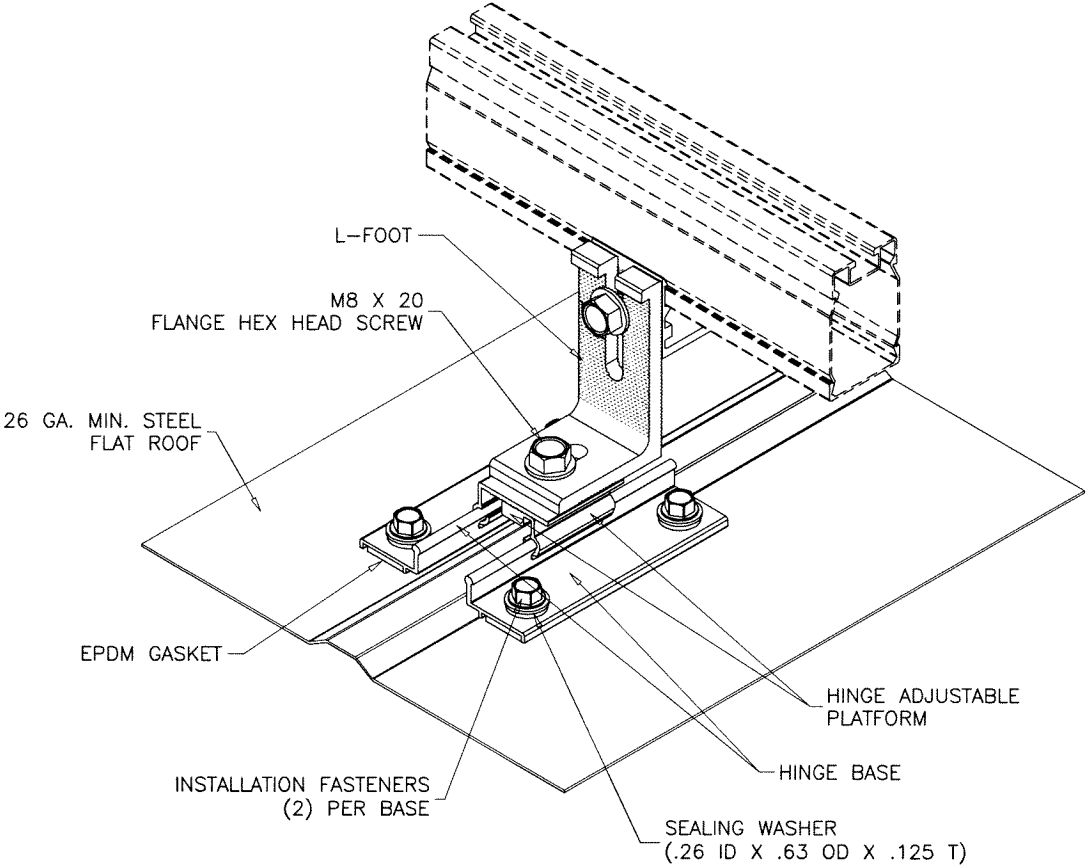
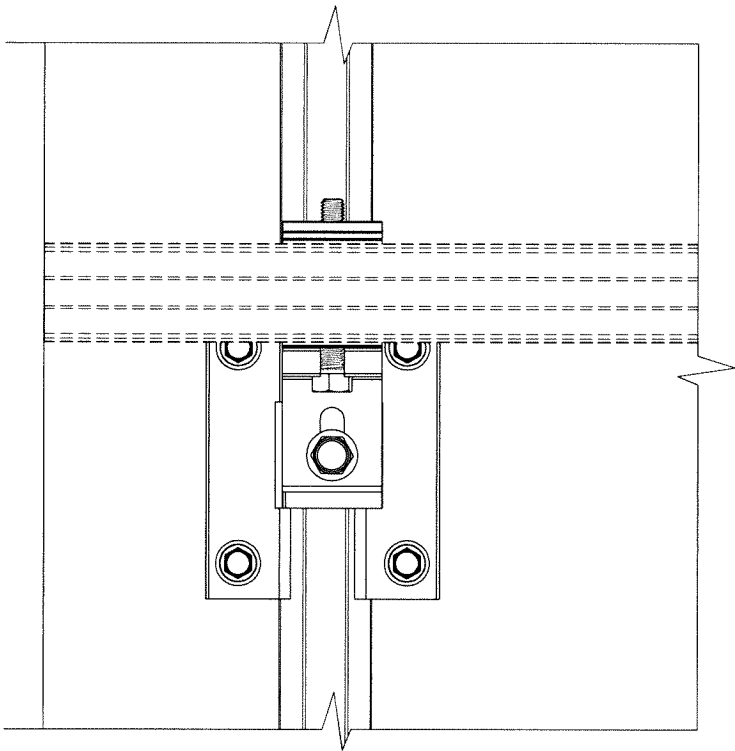
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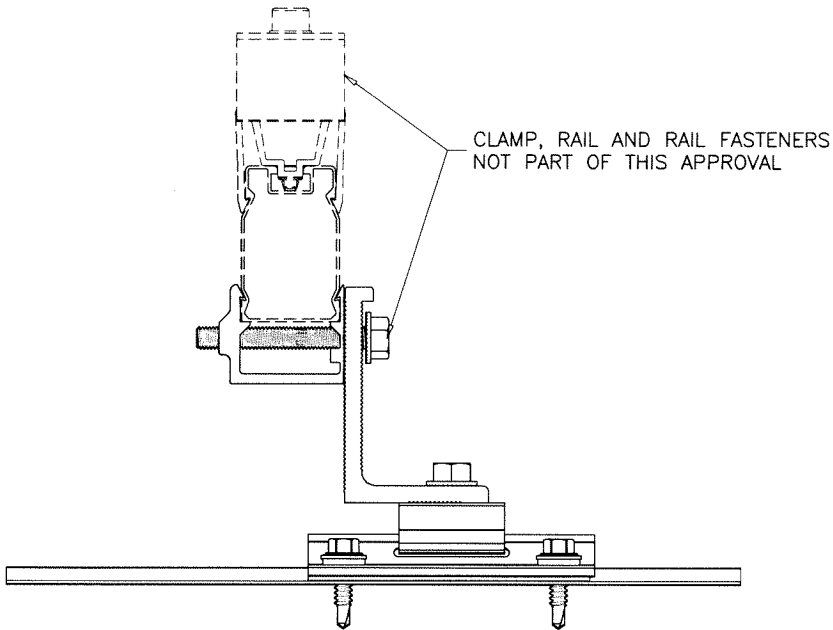
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sheet 3 of 5

ROOF TYPE 'A'
FLAT METAL ROOF ATTACHMENT



SECTION A-A

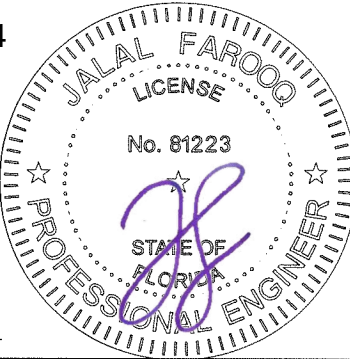


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MRB MOUNT FASTENERS:

1/4" X 1" TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 313.3 Lbs MAX.
SHEAR RESISTANCE = 139.0 Lbs MAX.



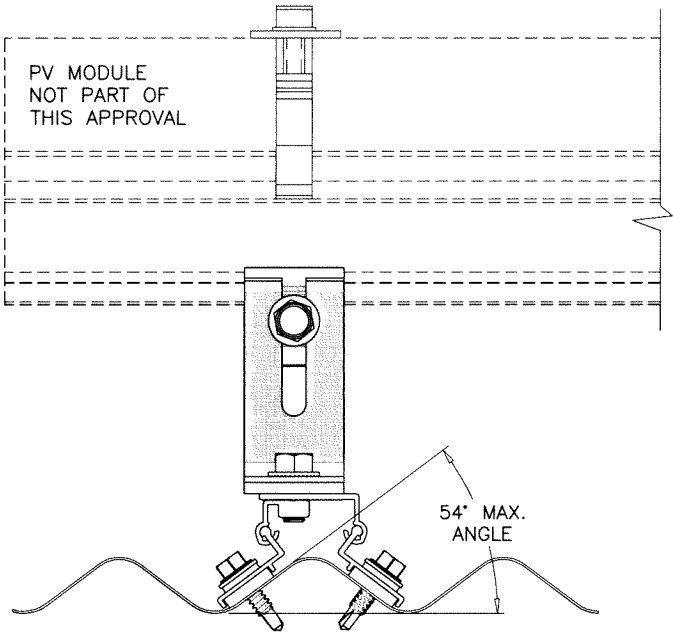
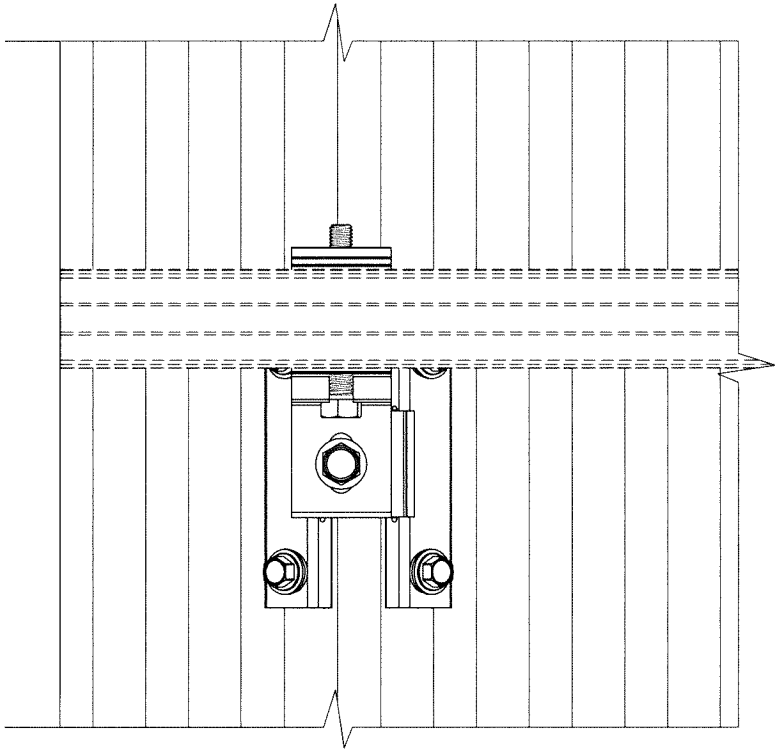
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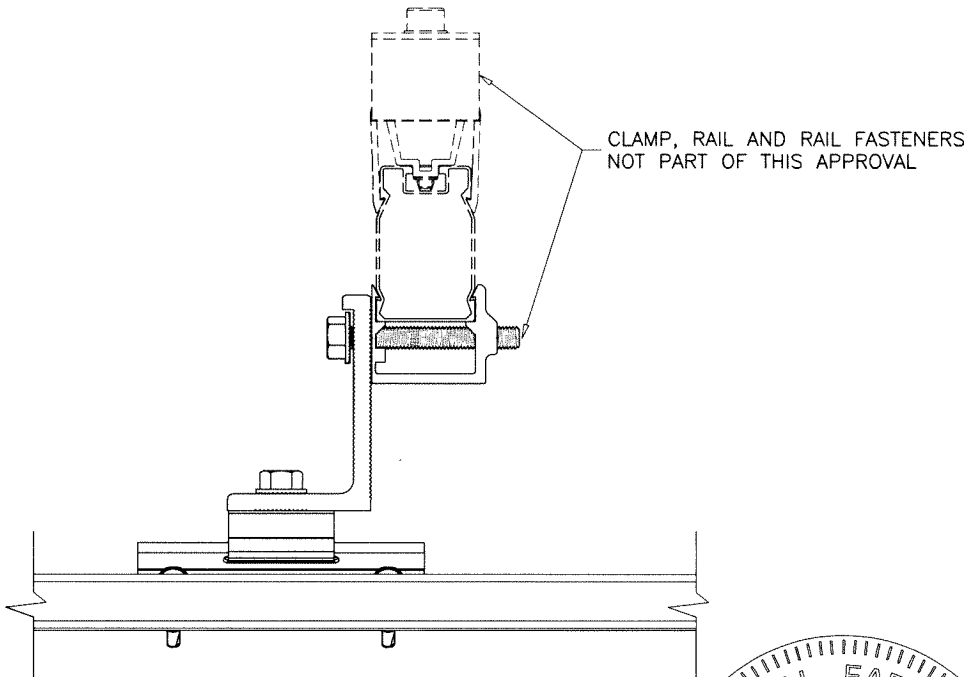
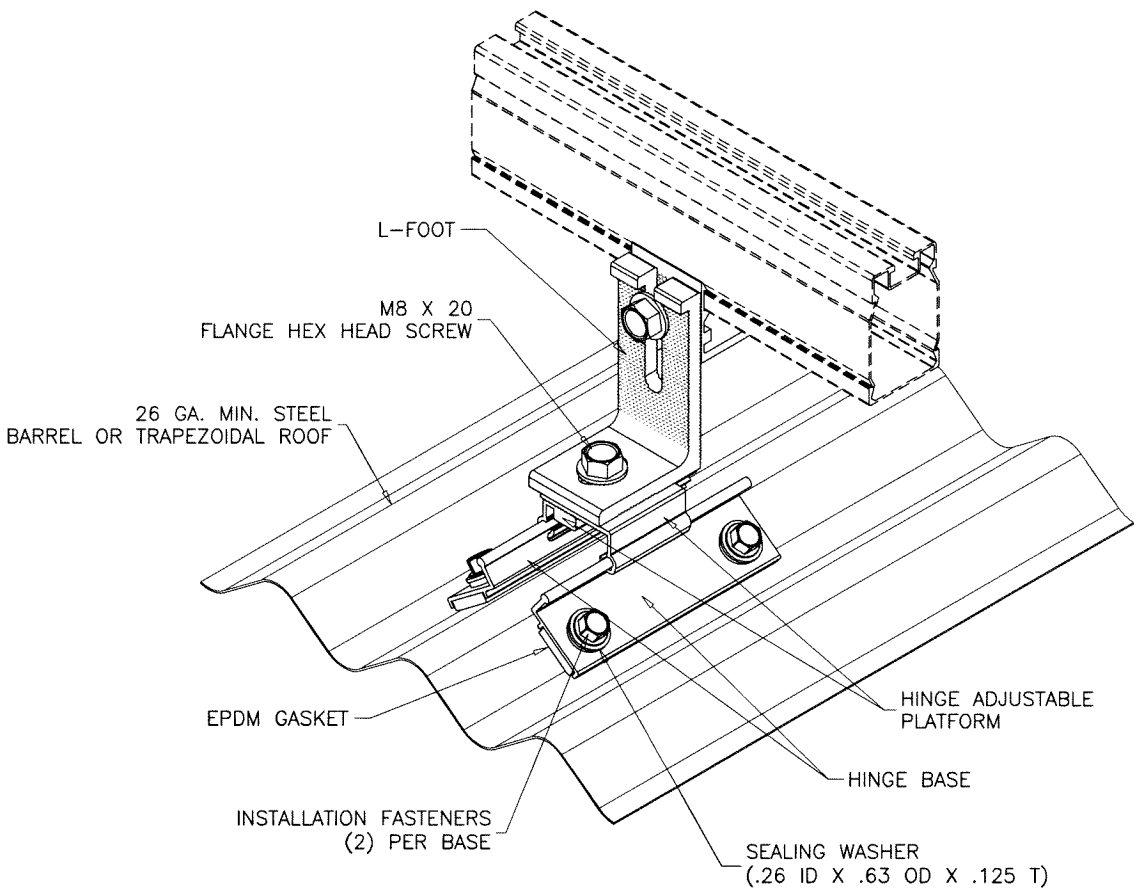
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ROOF TYPE 'B'
BARREL OR TRAPEZOIDAL METAL ROOF ATTACHMENT



SECTION A-A

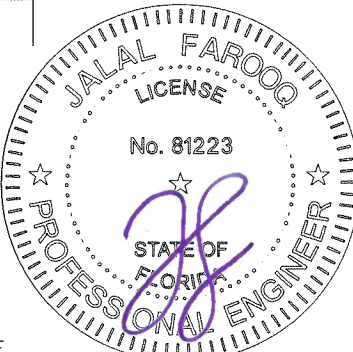


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MRB MOUNT FASTENERS:

1/4" X 1" TEKS OR SELF-DRILLING SCREWS (GRADE 5 CRS)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 289.2 Lbs MAX.
SHEAR RESISTANCE = 129.7 Lbs MAX.



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chk. by:

drawing no.
24-30F

sheet 5 of 5