

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 INSTALLATION USING CHARTS ON SHEET 5 AND PORTRAIT INSTALLATION USING CHARTS ON SHEET 6 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.

Sealed: 8/20/2024

FL #46074

- 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.

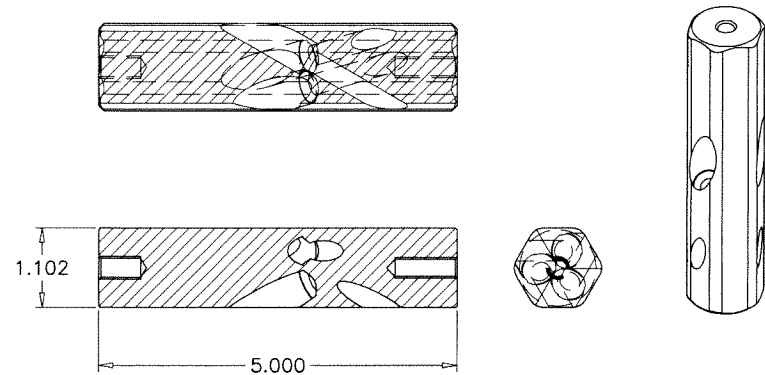


ROOF TOP PV MOUNTING SYSTEM	
SunModo Corp. 14800 N.E. 65th Street Vancouver, WA. 98682 Phone: (360) 844-0048	
sunmodo.com	
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no	date
by	description
date:	12-06-23
scale:	1/2"=1'-0"
dr. by:	TARIQ
chk. by:	
drawing no.	
23-58F	
sheet 1 of 10	

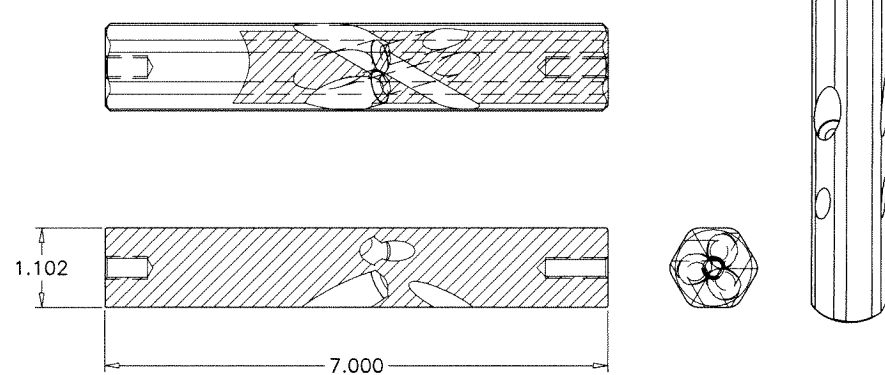
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AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
9360 SUNSET DRIVE, SUITE 220
MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
FBPE #3538

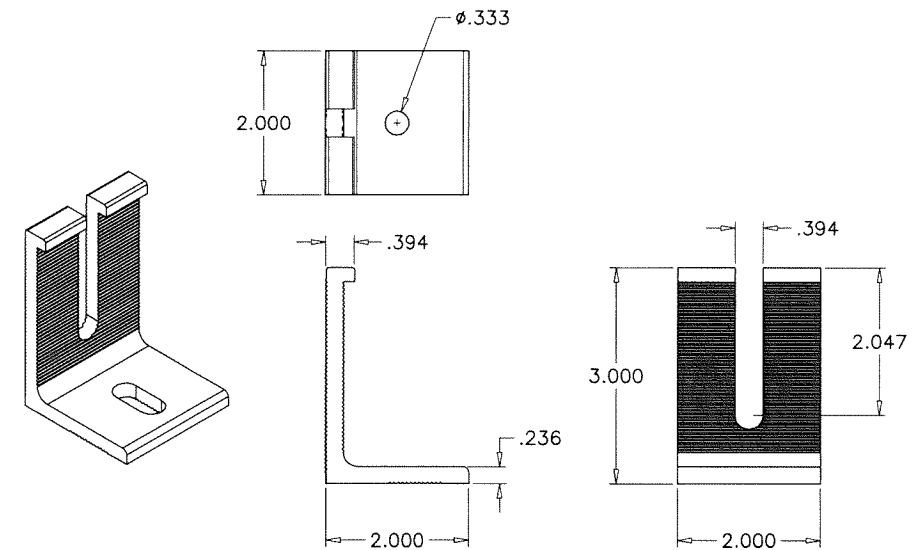
SOLAR-RACK\23-58F-SMC



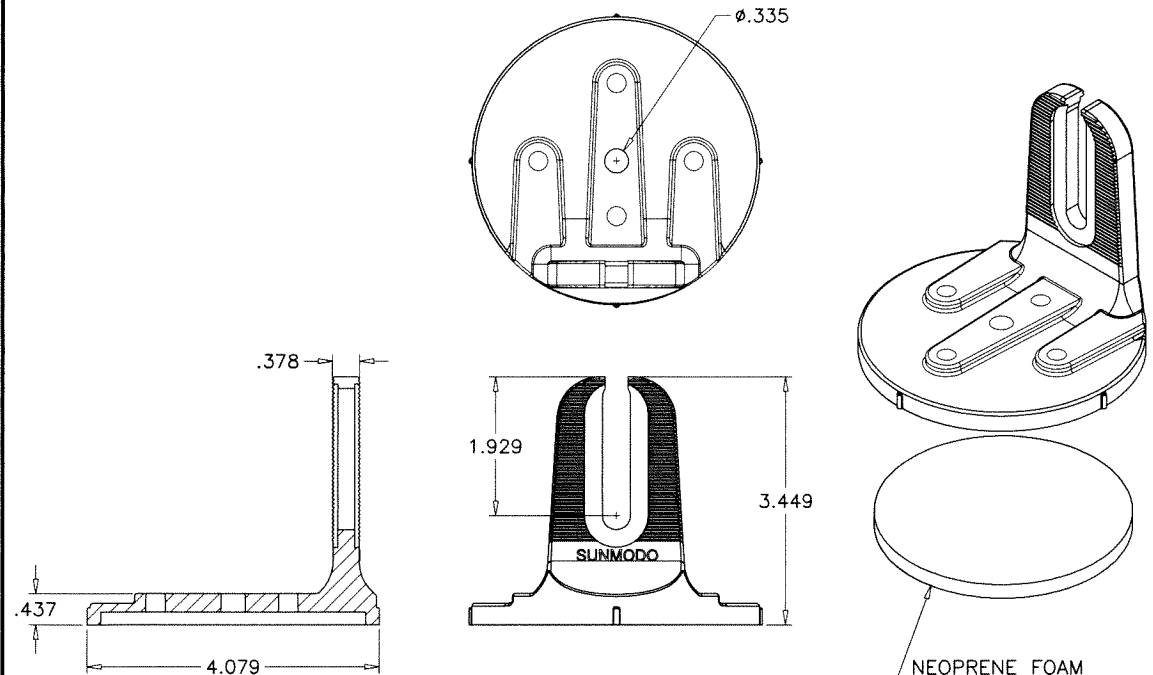
TopTile 5"
A20452-005
6005-T5



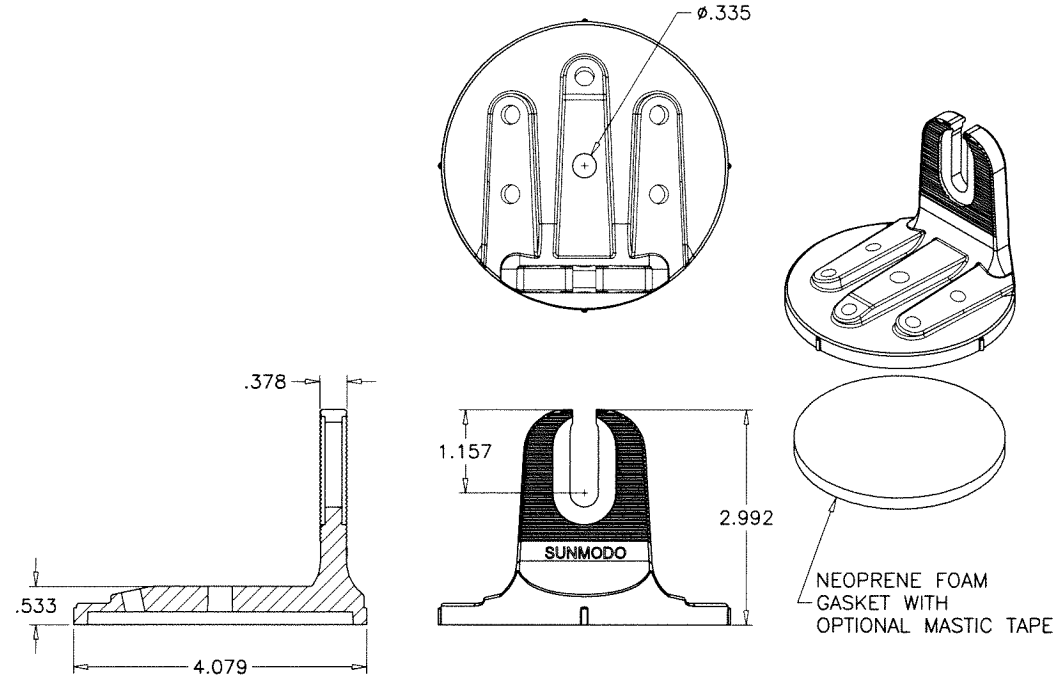
TopTile 7"
A20452-007
6005-T5



L-foot
A50223
6005-T5

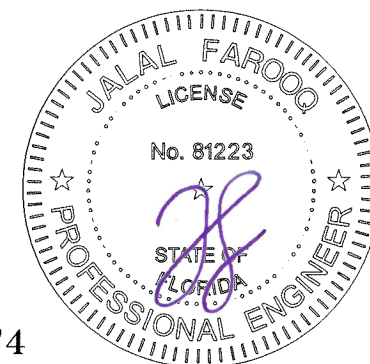


NanoMount (3.45" TALL)
A50263
6005-T5



NanoPlus (2.99" TALL)
A50259
6005-T5

Sealed: 8/20/2024



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afc

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ROOF TOP PV MOUNTING SYSTEM

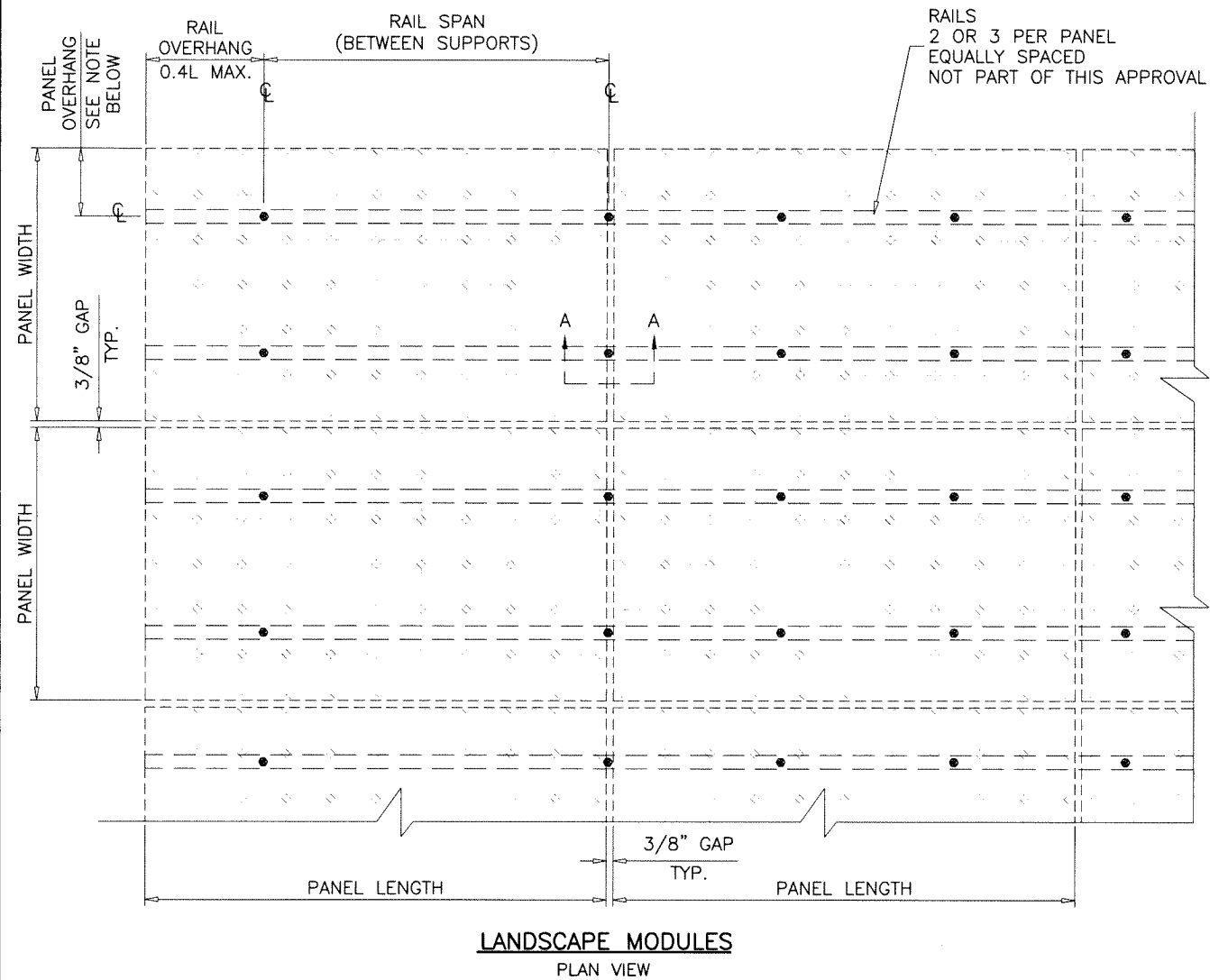
SunModo Corp.
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Phone: (360) 844-0048

sunmodo.com

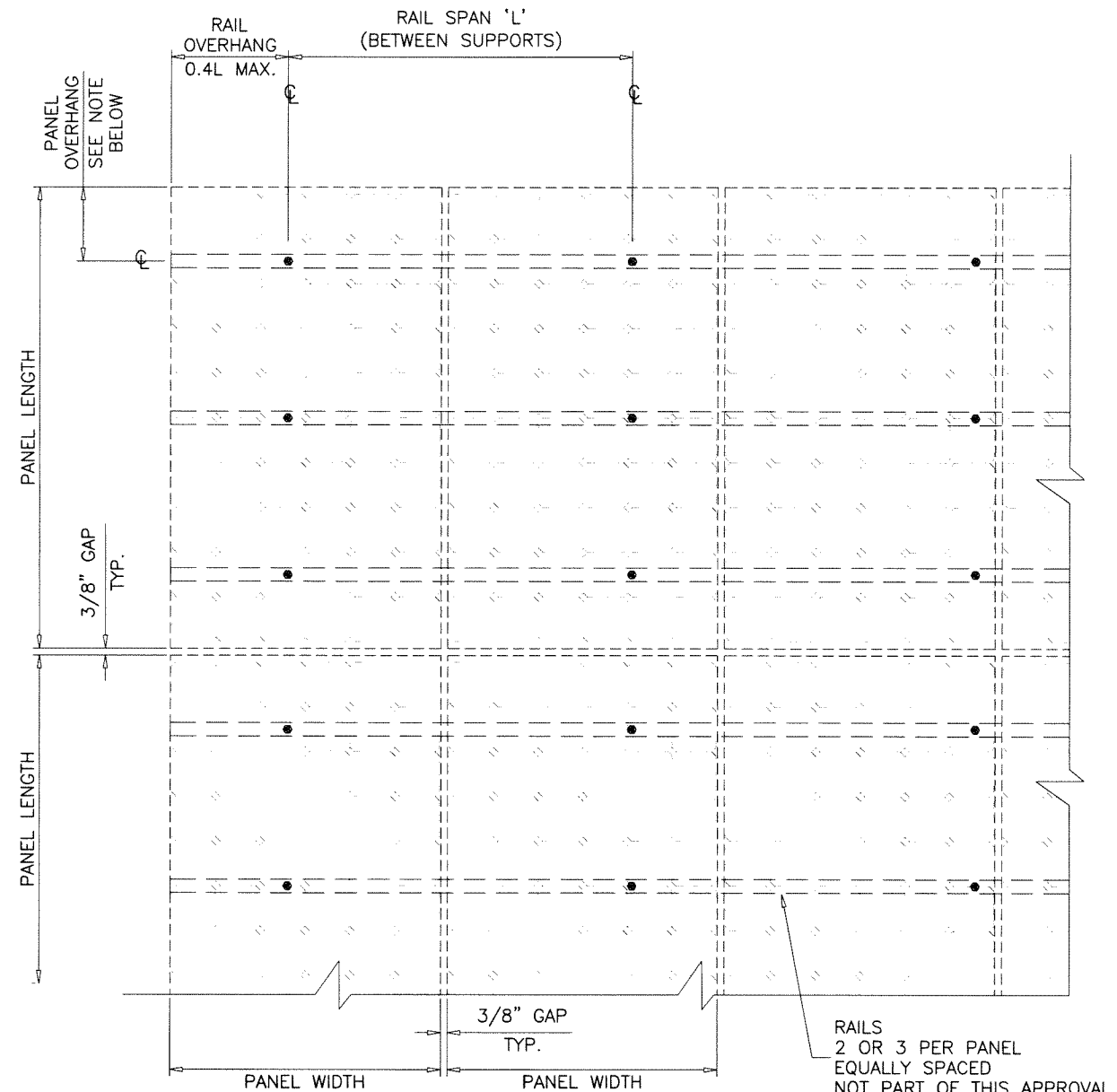
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dr. by: TARIQ
chk. by:

drawing no.
23-58F
sheet 2 of 10



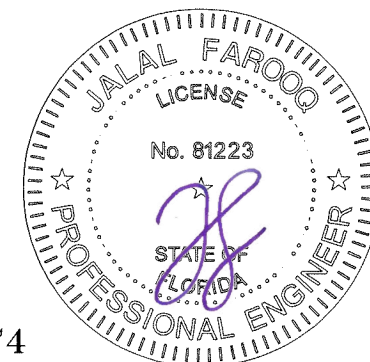
LANDSCAPE MODULES
PLAN VIEW



PORTRAIT MODULES
PLAN VIEW

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.

Sealed: 8/20/2024



TopTile 5", TopTile 7"

FL #46074

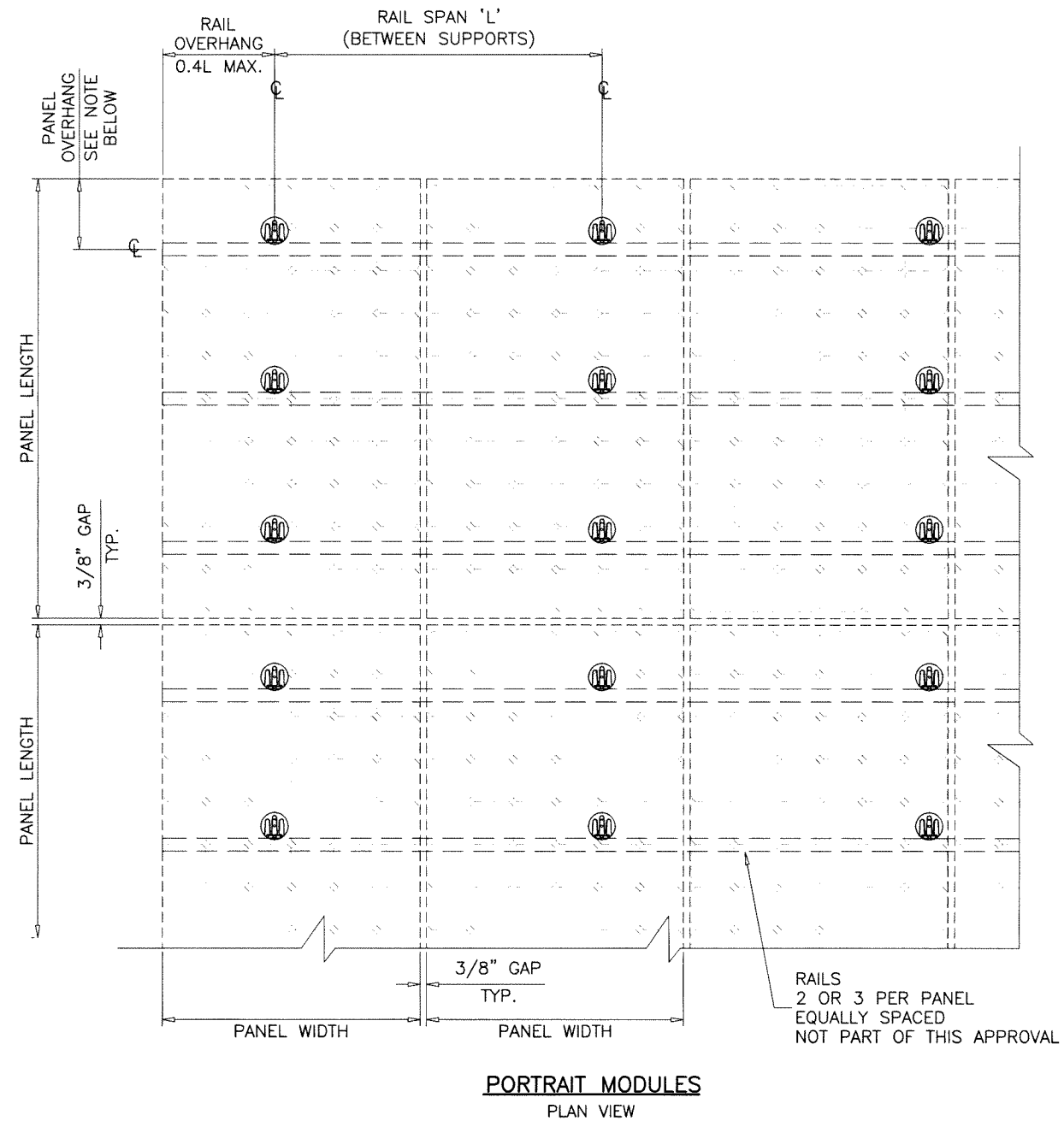
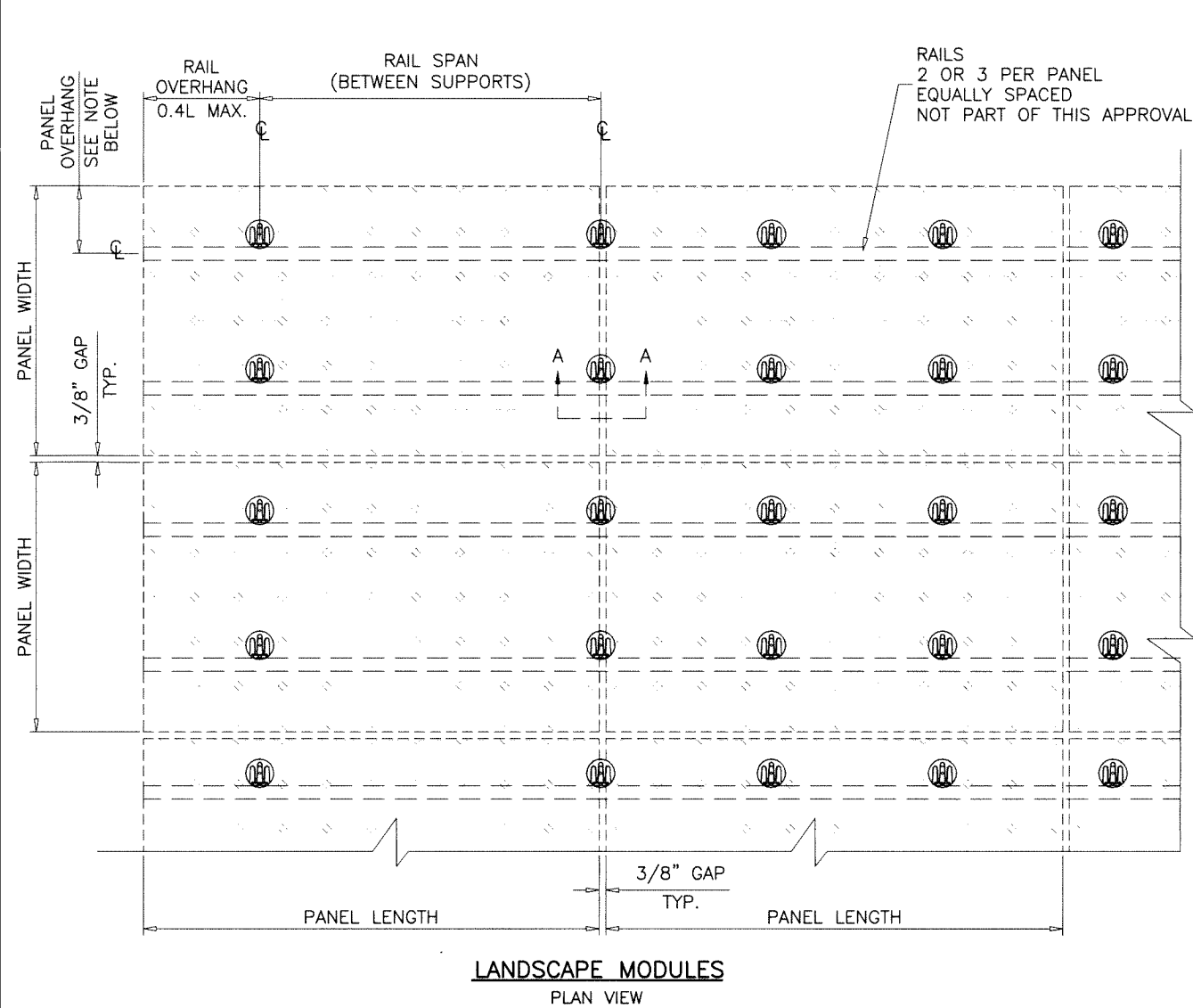
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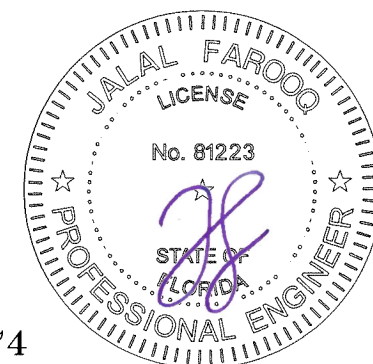
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dr. by:	TARIQ	chk. by:	

drawing no.
23-58F
sheet 3 of 10



NOTES:
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 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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NanoMount 3.45", NanoPlus 2.99"

FL #46074

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 chk. by:

drawing no.
23-58F

sheet 4 of 10

TopTile 5", TopTile 7", NanoMount 3.45", NanoPlus 2.99"

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°			
			TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"
68"	2	16"	191.1	191.1	189.8	188.6	186.1	185.8	188.7	188.3	176.7	176.1	186.5	187.6	171.9	171.0	185.3	187.1	160.7	159.3	182.3	185.8
		24"	128.8	128.8	127.9	127.1	123.7	123.4	126.7	126.8	114.4	113.7	124.6	126.1	109.6	108.7	123.4	125.6	98.4	97.0	120.4	124.3
		32"	97.6	97.6	96.9	96.3	92.5	92.3	95.8	96.0	83.2	82.5	93.6	95.3	78.4	77.5	92.4	94.8	67.2	65.8	89.4	93.5
		48"	66.4	66.4	65.9	65.5	61.3	61.1	64.8	65.2	52.0	51.3	62.6	64.5	47.2	46.3	61.4	64.1	36.0	34.6	58.4	62.8
		64"	50.8	50.8	50.4	50.2	45.7	45.5	49.3	49.8	36.4	35.7	47.1	49.1	31.6	30.7	45.9	48.7	20.4	19.0	43.0	47.4
		72"	45.6	45.6	45.3	45.0	40.5	40.3	44.2	44.7	31.2	30.5	42.0	44.0	26.4	25.5	40.8	43.6	15.2	–	37.8	42.3
	3	16"	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	197.4	196.0	200.0	200.0
		24"	153.2	153.2	152.1	151.2	148.1	147.9	151.0	150.9	138.8	138.1	148.8	150.2	134.0	133.1	147.6	149.7	122.8	121.4	144.6	148.4
		32"	115.9	115.9	115.1	114.4	110.8	110.6	114.0	114.1	101.5	100.8	111.8	113.4	96.7	95.8	110.6	112.9	85.5	84.1	107.6	111.6
		48"	78.6	78.6	78.1	77.6	73.5	73.3	76.9	77.3	64.2	63.5	74.8	76.6	59.4	58.5	73.6	76.1	48.2	46.8	70.6	74.8
		64"	59.9	59.9	59.5	59.2	54.9	54.6	58.4	58.9	45.6	44.9	56.2	58.2	40.7	39.9	55.0	57.7	29.6	28.2	52.0	56.4
		72"	53.7	53.7	53.4	53.1	48.7	48.4	52.2	52.8	39.4	38.7	50.1	52.0	34.5	33.6	48.9	51.6	23.3	21.9	45.9	50.3
80"	2	16"	191.1	191.1	189.8	188.6	186.1	185.8	188.7	188.3	176.7	176.1	186.5	187.6	171.9	171.0	185.3	187.1	160.7	159.3	182.3	185.8
		24"	128.8	128.8	127.9	127.1	123.7	123.4	126.7	126.8	114.4	113.7	124.6	126.1	109.6	108.7	123.4	125.6	98.4	97.0	120.4	124.3
		32"	97.6	97.6	96.9	96.3	92.5	92.3	95.8	96.0	83.2	82.5	93.6	95.3	78.4	77.5	92.4	94.8	67.2	65.8	89.4	93.5
		48"	66.4	66.4	65.9	65.5	61.3	61.1	64.8	65.2	52.0	51.3	62.6	64.5	47.2	46.3	61.4	64.1	36.0	34.6	58.4	62.8
		64"	50.8	50.8	50.4	50.2	45.7	45.5	49.3	49.8	36.4	35.7	47.1	49.1	31.6	30.7	45.9	48.7	20.4	19.0	43.0	47.4
		72"	45.6	45.6	45.3	45.0	40.5	40.3	44.2	44.7	31.2	30.5	42.0	44.0	26.4	25.5	40.8	43.6	15.2	–	37.8	42.3
	3	16"	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	200.0	197.4	196.0	200.0	200.0
		24"	153.2	153.2	152.1	151.2	148.1	147.9	151.0	150.9	138.8	138.1	148.8	150.2	134.0	133.1	147.6	149.7	122.8	121.4	144.6	148.4
		32"	115.9	115.9	115.1	114.4	110.8	110.6	114.0	114.1	101.5	100.8	111.8	113.4	96.7	95.8	110.6	112.9	85.5	84.1	107.6	111.6
		48"	78.6	78.6	78.1	77.6	73.5	73.3	76.9	77.3	64.2	63.5	74.8	76.6	59.4	58.5	73.6	76.1	48.2	46.8	70.6	74.8
		64"	59.9	59.9	59.5	59.2	54.9	54.6	58.4	58.9	45.6	44.9	56.2	58.2	40.7	39.9	55.0	57.7	29.6	28.2	52.0	56.4
		72"	53.7	53.7	53.4	53.1	48.7	48.4	52.2	52.8	39.4	38.7	50.1	52.0	34.5	33.6	48.9	51.6	23.3	21.9	45.9	50.3

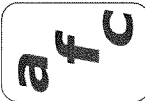
SEE SHEET 7 FOR TopTile 5" INSTALLATION
SEE SHEET 8 FOR TopTile 7" INSTALLATION
SEE SHEET 9 FOR NanoMount INSTALLATION
SEE SHEET 10 FOR NanoPlus INSTALLATION

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

Sealed: 8/20/2024



FL #46074



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revisions:

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date: 12-06-23	scale: –	dr. by: TARIQ	chk. by:
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drawing no. 23–58F	sheet 5 of 10
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TopTile 5", TopTile 7", NanoMount 3.45", NanoPlus 2.99"

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°			
			TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"	TopTile 5"	TopTile 7"	NanoMount 3.45"	NanoPlus 2.99"
68"	2	16"	114.1	114.1	113.3	112.6	109.0	108.8	112.2	112.3	99.7	99.0	110.0	111.6	94.9	94.0	108.8	111.1	83.7	82.3	105.8	109.8
		24"	77.4	77.4	76.9	76.4	72.3	72.1	75.7	76.1	63.0	62.3	73.6	75.4	58.2	57.3	72.4	74.9	47.0	45.6	69.4	73.6
		32"	59.0	59.0	58.6	58.3	54.0	53.7	57.5	58.0	44.7	44.0	55.3	57.3	39.8	38.9	54.1	56.8	28.6	27.2	51.1	55.5
		48"	40.7	40.7	40.4	40.2	35.6	35.4	39.3	39.9	26.3	25.6	37.1	39.2	21.5	20.6	35.9	38.7	–	–	32.9	37.4
		64"	31.5	31.5	31.3	31.1	26.5	26.2	30.2	30.8	17.1	16.5	28.0	30.1	–	–	26.8	29.7	–	–	23.8	28.4
		72"	28.5	28.5	28.3	28.1	23.4	23.2	27.2	27.8	–	–	25.0	27.1	–	–	23.8	26.7	–	–	20.8	25.4
	3	16"	135.6	135.6	134.7	133.9	130.6	130.3	133.6	133.6	121.3	120.6	131.4	132.8	116.4	115.5	130.2	132.4	105.2	103.8	127.2	131.1
		24"	91.8	91.8	91.1	90.6	86.7	86.4	90.0	90.3	77.4	76.7	87.8	89.6	72.6	71.7	86.6	89.1	61.4	60.0	83.6	87.8
		32"	69.8	69.8	69.3	68.9	64.7	64.5	68.2	68.6	55.4	54.8	66.0	67.9	50.6	49.7	64.8	67.5	39.4	38.0	61.8	66.2
		48"	47.9	47.9	47.6	47.3	42.8	42.6	46.4	47.0	33.5	32.8	44.3	46.3	28.7	27.8	43.1	45.8	17.5	16.1	40.1	44.5
		64"	36.9	36.9	36.7	36.5	31.8	31.6	35.6	36.2	22.5	21.9	33.4	35.4	17.7	16.8	32.2	35.0	–	–	29.2	33.7
		72"	33.3	33.3	33.0	32.9	28.2	27.9	31.9	32.6	18.9	18.2	29.7	31.8	–	–	28.5	31.4	–	–	25.5	30.1
80"	2	16"	97.6	97.6	96.9	96.3	92.5	92.3	95.8	96.0	83.2	82.5	93.6	95.3	78.4	77.5	92.4	94.8	67.2	65.8	89.4	93.5
		24"	66.4	66.4	65.9	65.5	61.3	61.1	64.8	65.2	52.0	51.3	62.6	64.5	47.2	46.3	61.4	64.1	36.0	34.6	58.4	62.8
		32"	50.8	50.8	50.4	50.2	45.7	45.5	49.3	49.8	36.4	35.7	47.1	49.1	31.6	30.7	45.9	48.7	20.4	19.0	43.0	47.4
		48"	35.2	35.2	35.0	34.8	30.1	29.9	33.8	34.5	20.8	20.1	31.7	33.8	16.0	15.1	30.5	33.3	–	–	27.5	32.0
		64"	27.4	27.4	27.2	27.1	22.3	22.1	26.1	26.8	–	–	23.9	26.1	–	–	22.7	25.6	–	–	19.7	24.3
		72"	24.8	24.8	24.6	24.5	19.7	19.5	23.5	24.2	–	–	21.3	23.5	–	–	20.1	23.0	–	–	17.1	21.7
	3	16"	115.9	115.9	115.1	114.4	110.8	110.6	114.0	114.1	101.5	100.8	111.8	113.4	96.7	95.8	110.6	112.9	85.5	84.1	107.6	111.6
		24"	78.6	78.6	78.1	77.6	73.5	73.3	76.9	77.3	64.2	63.5	74.8	76.6	59.4	58.5	73.6	76.1	48.2	46.8	70.6	74.8
		32"	59.9	59.9	59.5	59.2	54.9	54.6	58.4	58.9	45.6	44.9	56.2	58.2	40.7	39.9	55.0	57.7	29.6	28.2	52.0	56.4
		48"	41.3	41.3	41.0	40.8	36.2	36.0	39.9	40.5	26.9	26.2	37.7	39.8	22.1	21.2	36.5	39.3	–	–	33.5	38.0
		64"	32.0	32.0	31.8	31.6	26.9	26.7	30.7	31.3	17.6	16.9	28.5	30.6	–	–	27.3	30.1	–	–	24.3	28.8
		72"	28.9	28.9	28.7	28.5	23.8	23.6	27.6	28.2	–	–	25.4	27.5	–	–	24.2	27.1	–	–	21.2	25.8

SEE SHEET 7 FOR TopTile 5" INSTALLATION
SEE SHEET 8 FOR TopTile 7" INSTALLATION
SEE SHEET 9 FOR NanoMount INSTALLATION
SEE SHEET 10 FOR NanoPlus INSTALLATION

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

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ENGINEERS & PRODUCT DEVELOPMENT
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MIAMI, FLORIDA 33173
TEL. (305) 264-8100
WWW.AFCENG.COM
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ROOF TOP PV MOUNTING SYSTEM

SunModo Corp.
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Vancouver, WA. 98682
Phone: (360) 844-0048
sunmodo.com

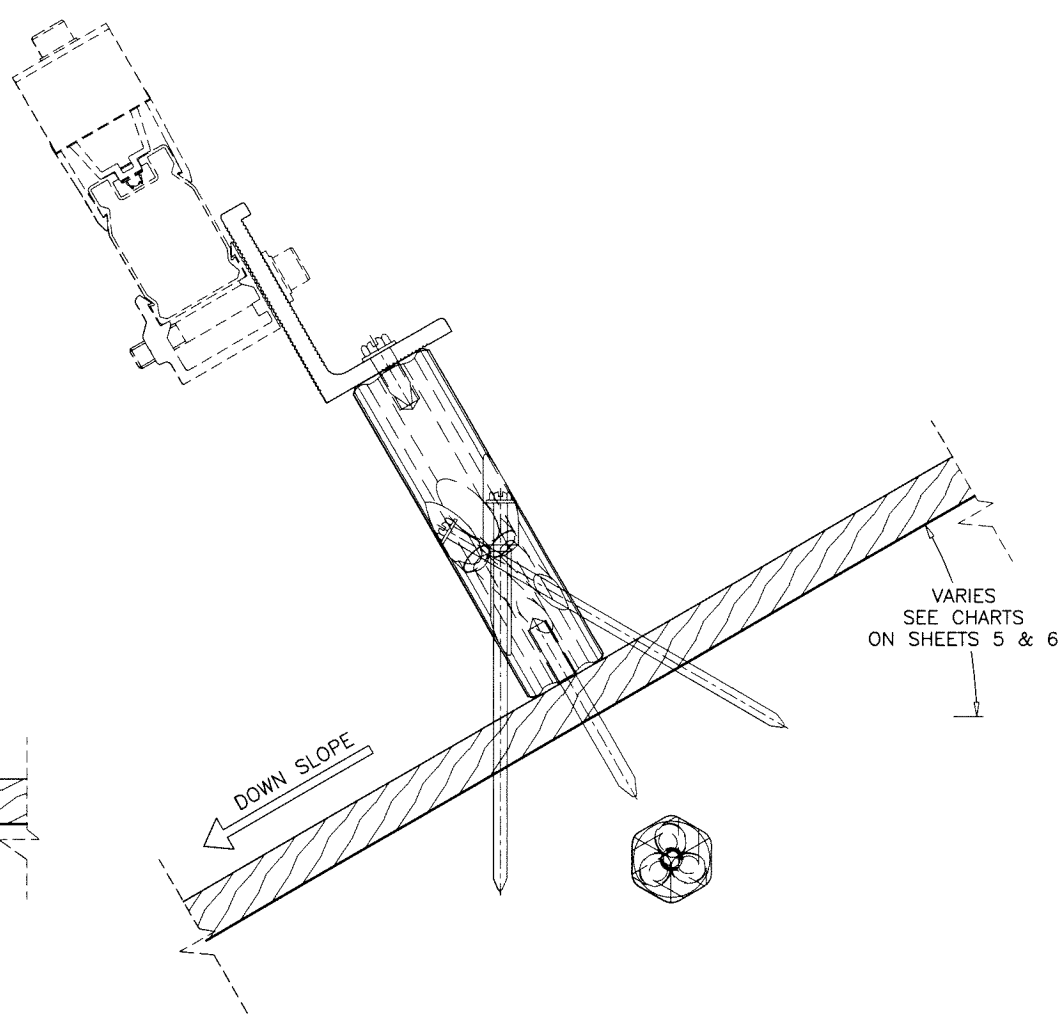
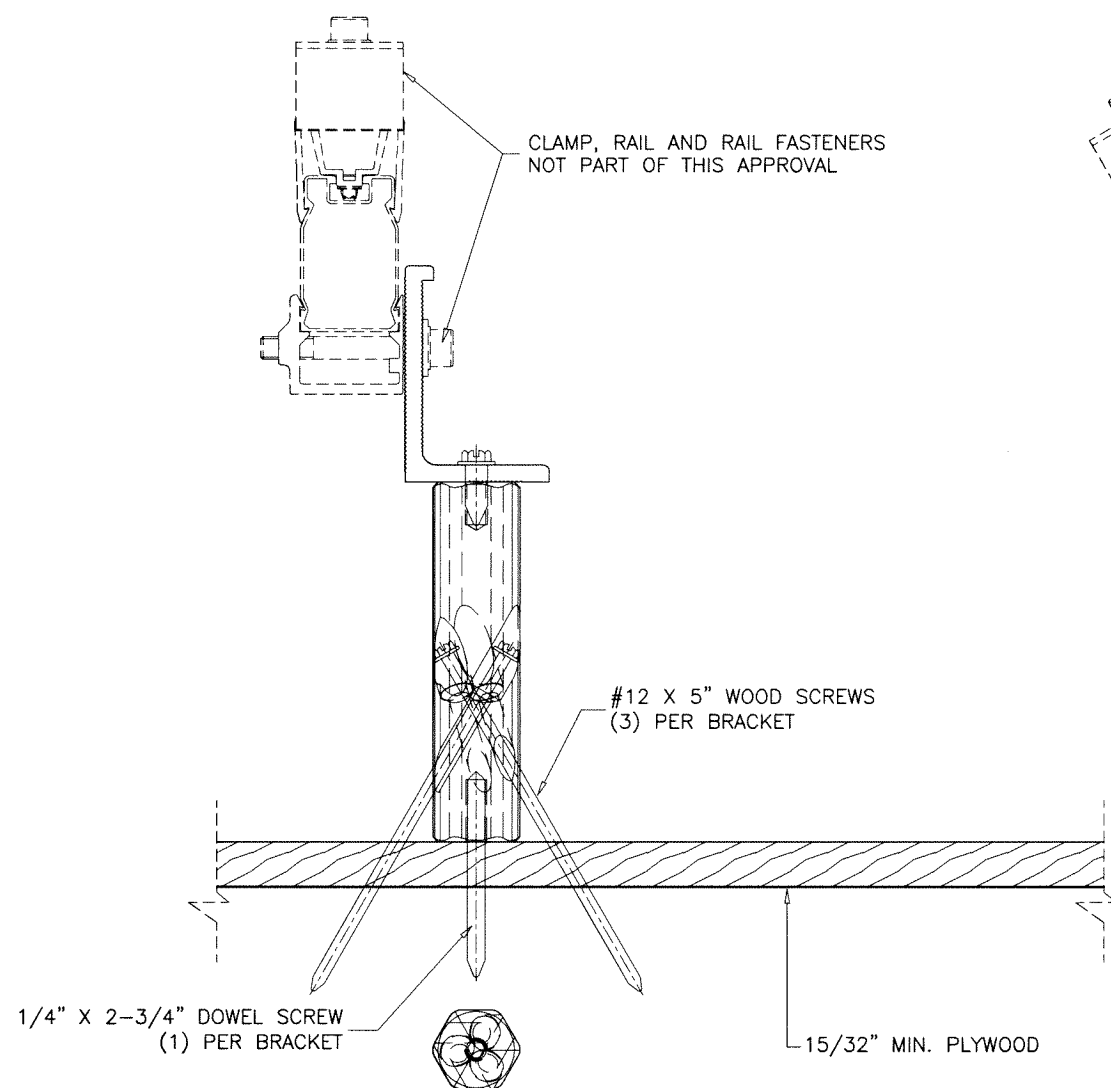
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chk. by:

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23-58F
sheet 6 of 10

TopTile 5"



SECTION A-A

TopTile 5" FASTENERS:

1/4" X 2-3/4" ST/ST DOWEL SCREWS (Fy = 65 KSI MIN.)

#12 X 5" (17 POINT) WOOD SCREWS (Fy = 65 KSI MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 499.0 Lbs MAX.
SHEAR RESISTANCE = 48.3 Lbs MAX.

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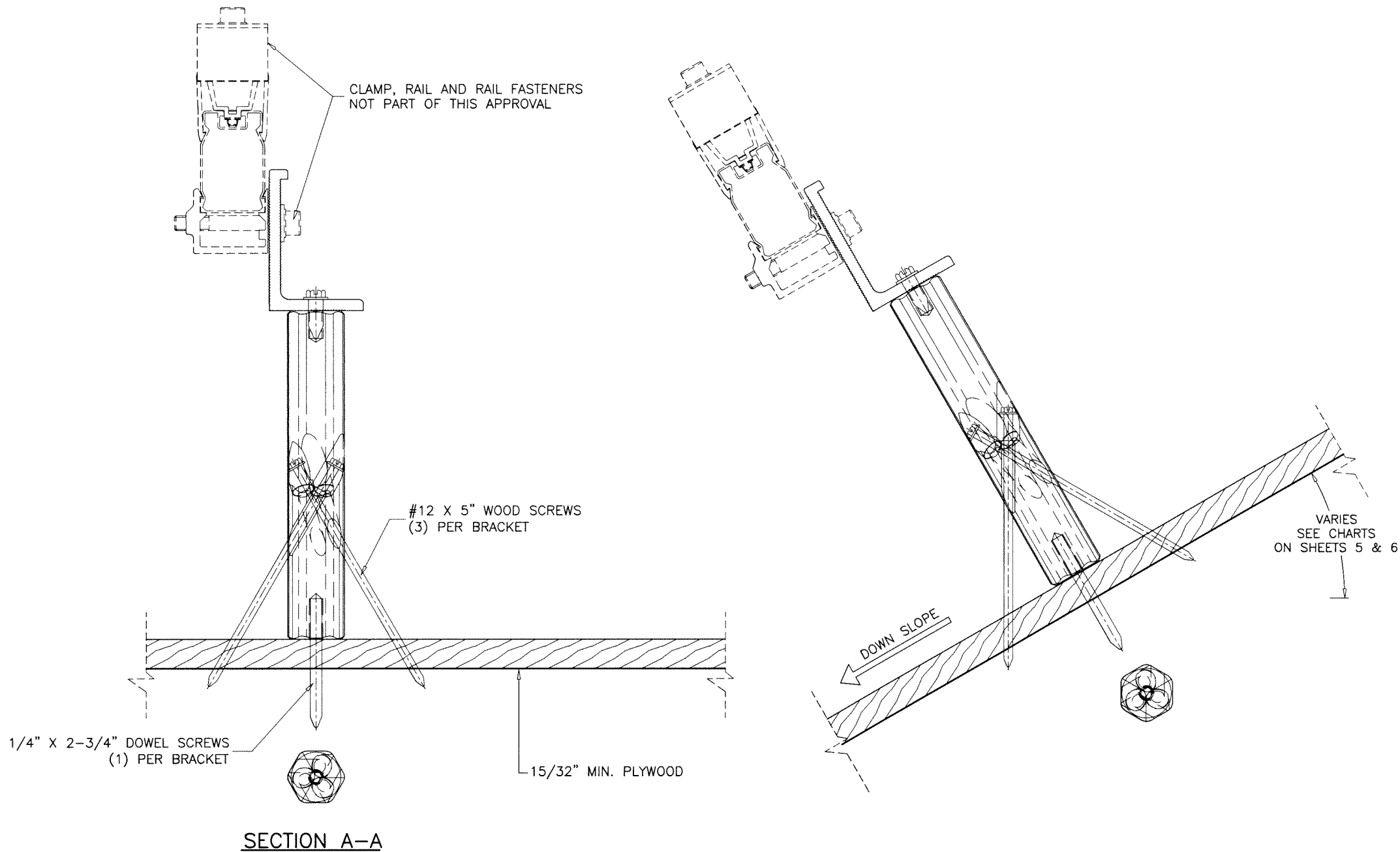
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23-58F

sheet 7 of 10

TopTile 7"

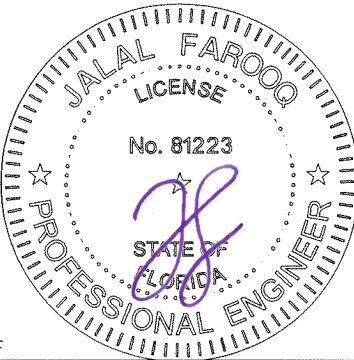


TopTile 7" FASTENERS:

- 1/4" X 2-3/4" ST/ST DOWEL SCREWS (Fy = 65 KSI MIN.)
- #12 X 5" (17 POINT) WOOD SCREWS (Fy = 65 KSI MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 499.0 Lbs MAX.
SHEAR RESISTANCE = 46.1 Lbs MAX.

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WWW.AFCENG.COM
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Vancouver, WA. 98682
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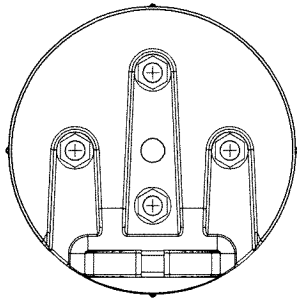
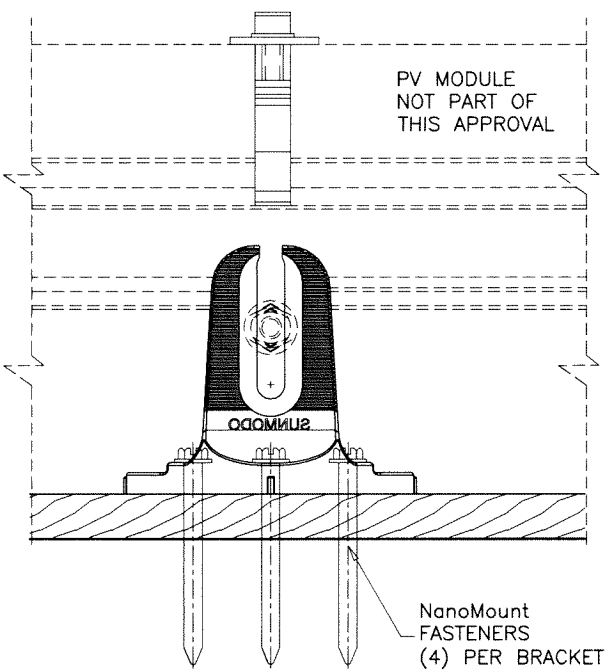
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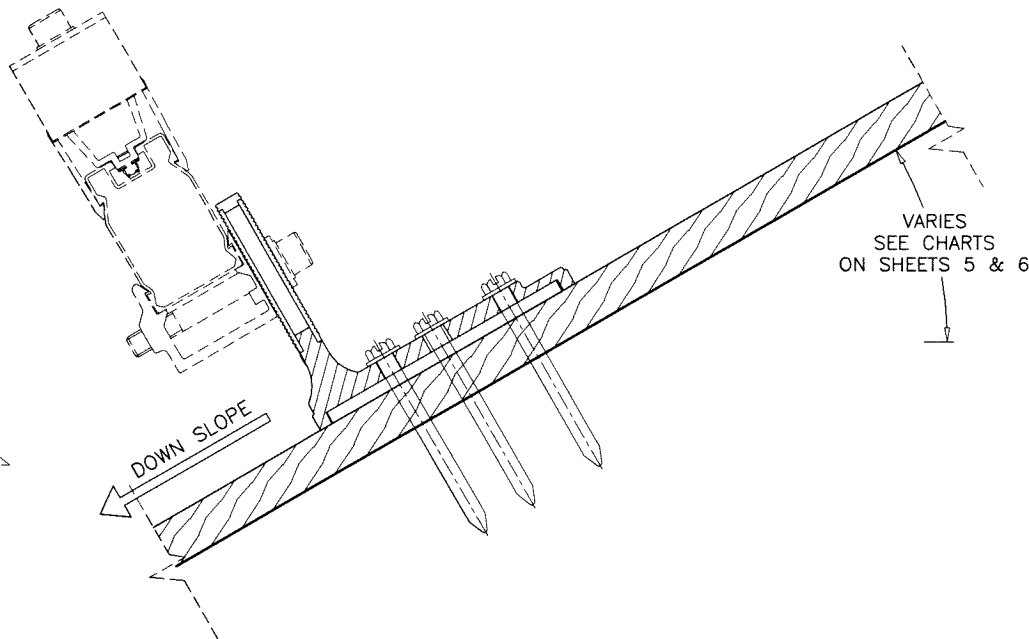
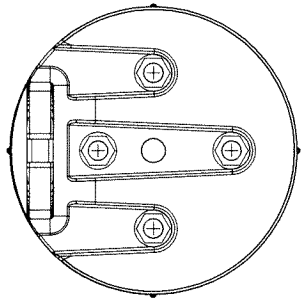
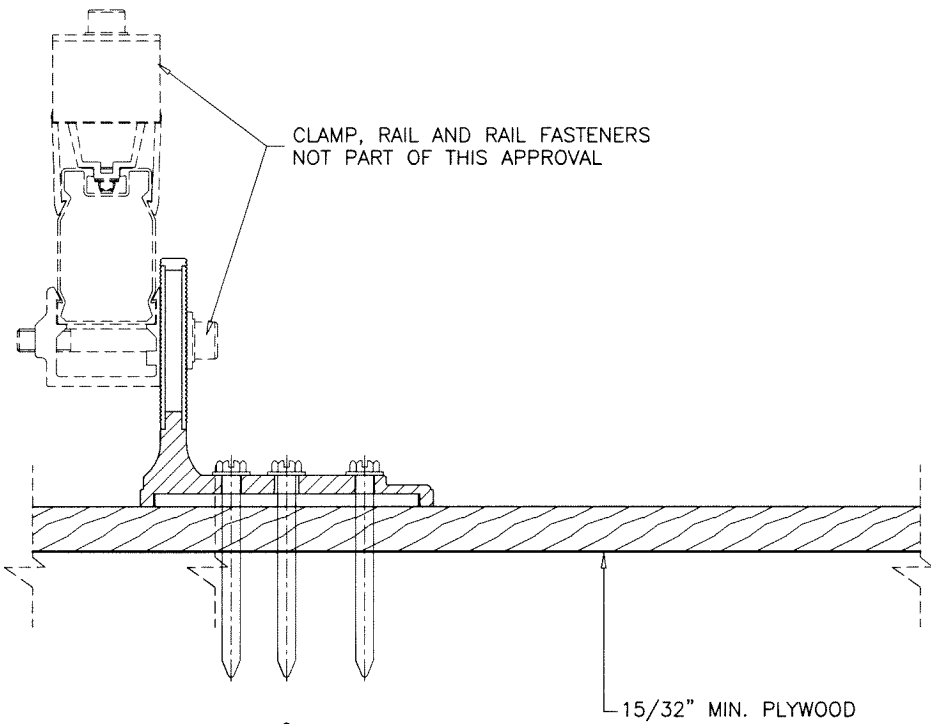
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sheet 8 of 10

NanoMount



SECTION A-A



NanoMount FASTENERS:

1/4" X 3" (A POINT) WOOD SCREWS (Fy = 65 KSI MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 495.4 Lbs MAX.
SHEAR RESISTANCE = 221.7 Lbs MAX.

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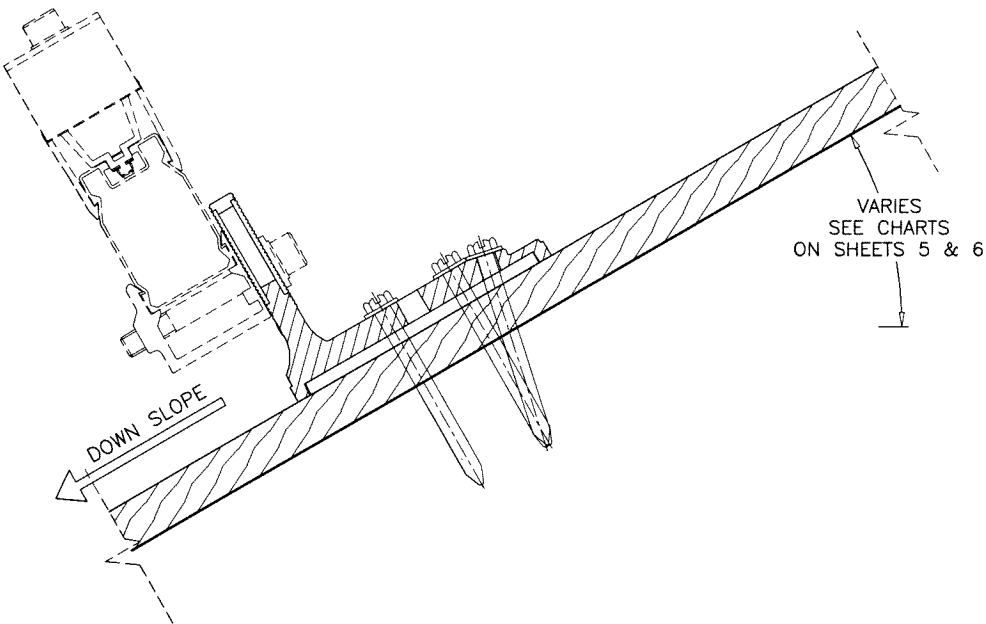
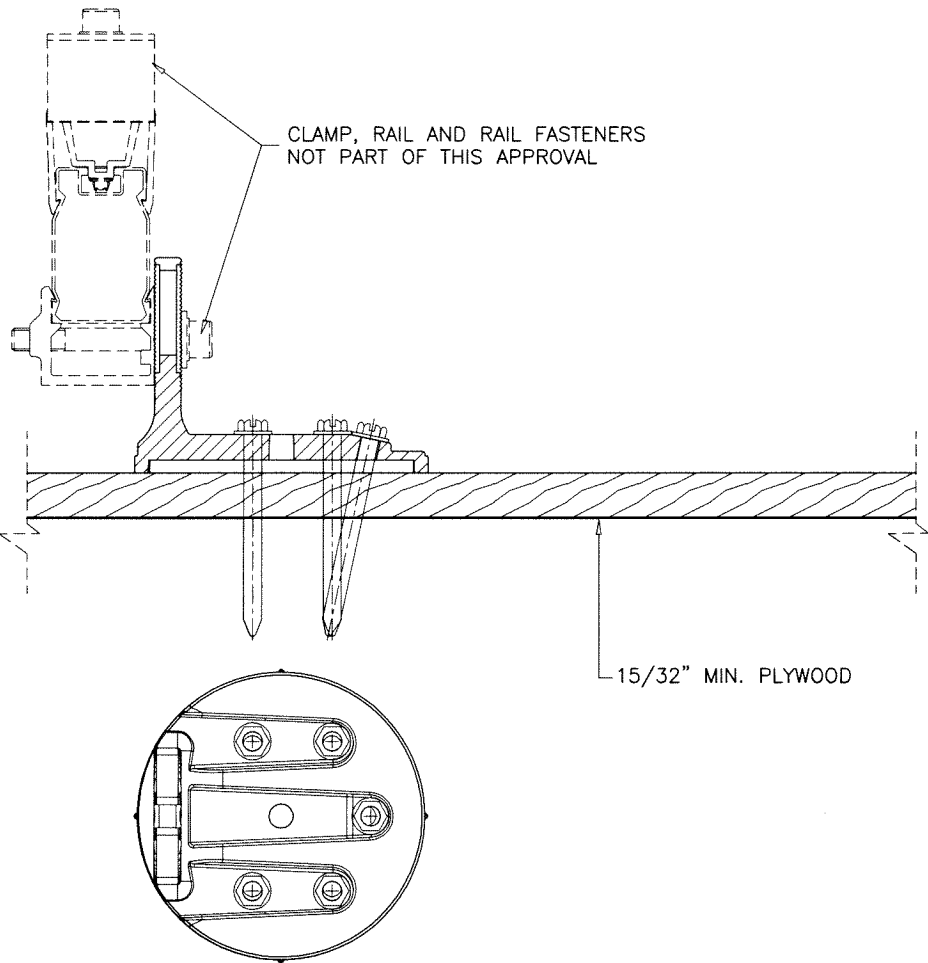
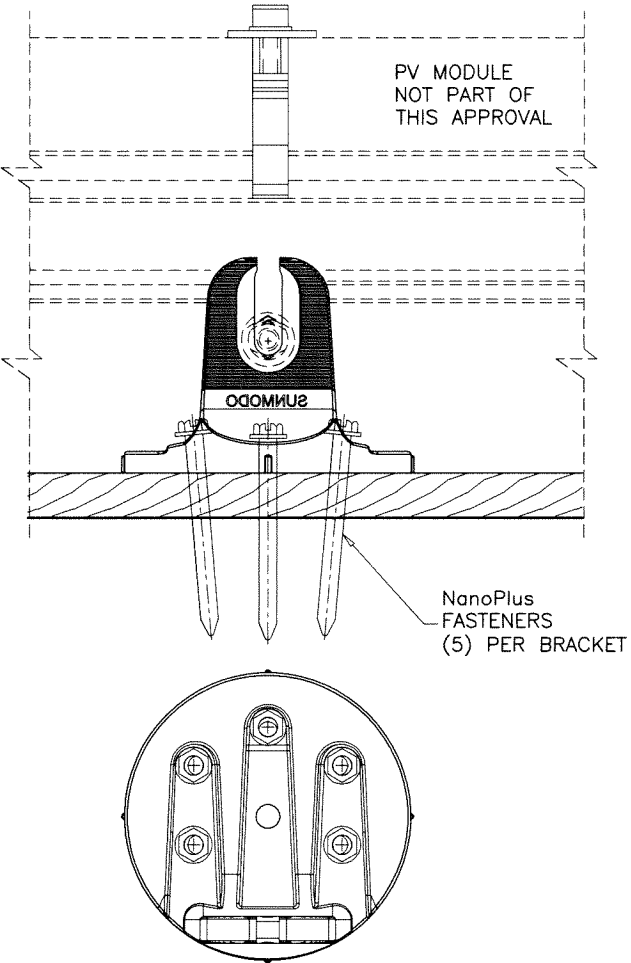
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23-58F
sheet 9 of 10

NanoPlus



NanoPlus FASTENERS:
1/4" X 3" (A POINT) WOOD SCREWS (Fy = 65 KSI MIN.)

WIND LOAD UPLIFT RESISTANCE (PERPENDICULAR TO ROOF) = 492.3 Lbs MAX.
SHEAR RESISTANCE = 869.4 Lbs MAX.

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								sheet 10 of 10	