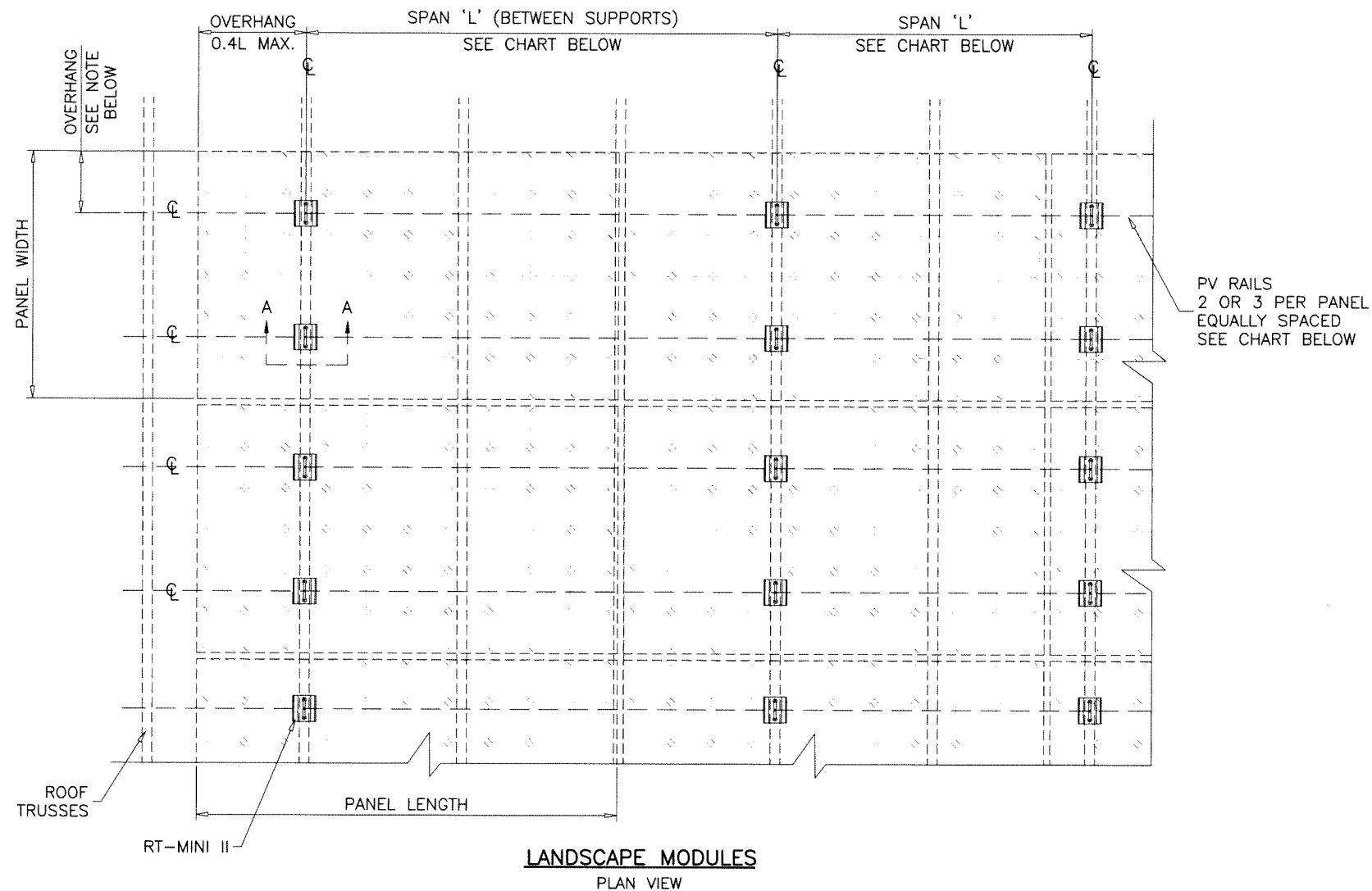




NOTE:
OVERHANG AS PER PANEL MANUFACTURER'S INSTRUCTIONS.
SHOULD BE EQUAL ON BOTH SIDES OF PANELS.

DESIGN LOAD CAPACITY - PSF (LANDSCAPE MODULES) UP TO 80" PANEL LENGTHS											
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°	
		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'
2	16"	230.3	247.8	229.6	247.2	228.2	245.8	227.3	245.0	225.2	243.0
	24"	154.9	166.6	154.2	165.9	152.7	164.5	151.9	163.8	149.7	161.7
	32"	117.2	125.9	116.5	125.3	115.0	123.9	114.2	123.1	112.0	121.1
	48"	79.4	85.3	78.7	84.6	77.3	83.3	76.5	82.5	74.3	80.4
	64"	60.6	65.0	59.9	64.3	58.4	62.9	57.6	62.2	55.4	60.1
3	72"	54.3	58.2	53.6	57.5	52.1	56.2	51.3	55.4	49.1	53.3
	16"	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0	250.0
	24"	209.3	225.2	208.6	224.5	207.1	223.1	206.3	222.4	204.1	220.3
	32"	158.0	169.9	157.3	169.2	155.8	167.9	155.0	167.1	152.8	165.0
	48"	106.6	114.6	105.9	113.9	104.5	112.6	103.7	111.8	101.5	109.7
	64"	81.0	86.9	80.3	86.3	78.8	84.9	78.0	84.1	75.8	82.1
	72"	72.4	77.7	71.7	77.1	70.3	75.7	69.4	74.9	67.3	72.9

LOADS SHOWN IN CHARTS ABOVE ARE FOR PANEL WIDTHS UP TO 40"
FOR WIDER PANEL WIDTHS (41" TO 48"), DETERMINE DESIGN LOADS AS FOLLOWS

$$\text{DESIGN LOAD} = \frac{\text{LOAD FROM CHART} \times 40}{\text{NEW PANEL WIDTH}}$$

RT-MINI II ROOF TOP PV MOUNTING SYSTEM

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE 2020 (7TH EDITION)/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.

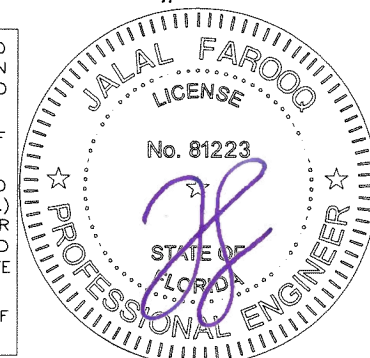
CONDITIONS NOT SHOWN IN THIS DRAWING ARE TO BE ANALYZED SEPARATELY, AND TO BE REVIEWED BY BUILDING OFFICIAL.

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

- 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.

Sealed: 7/28/2023

FL #38617

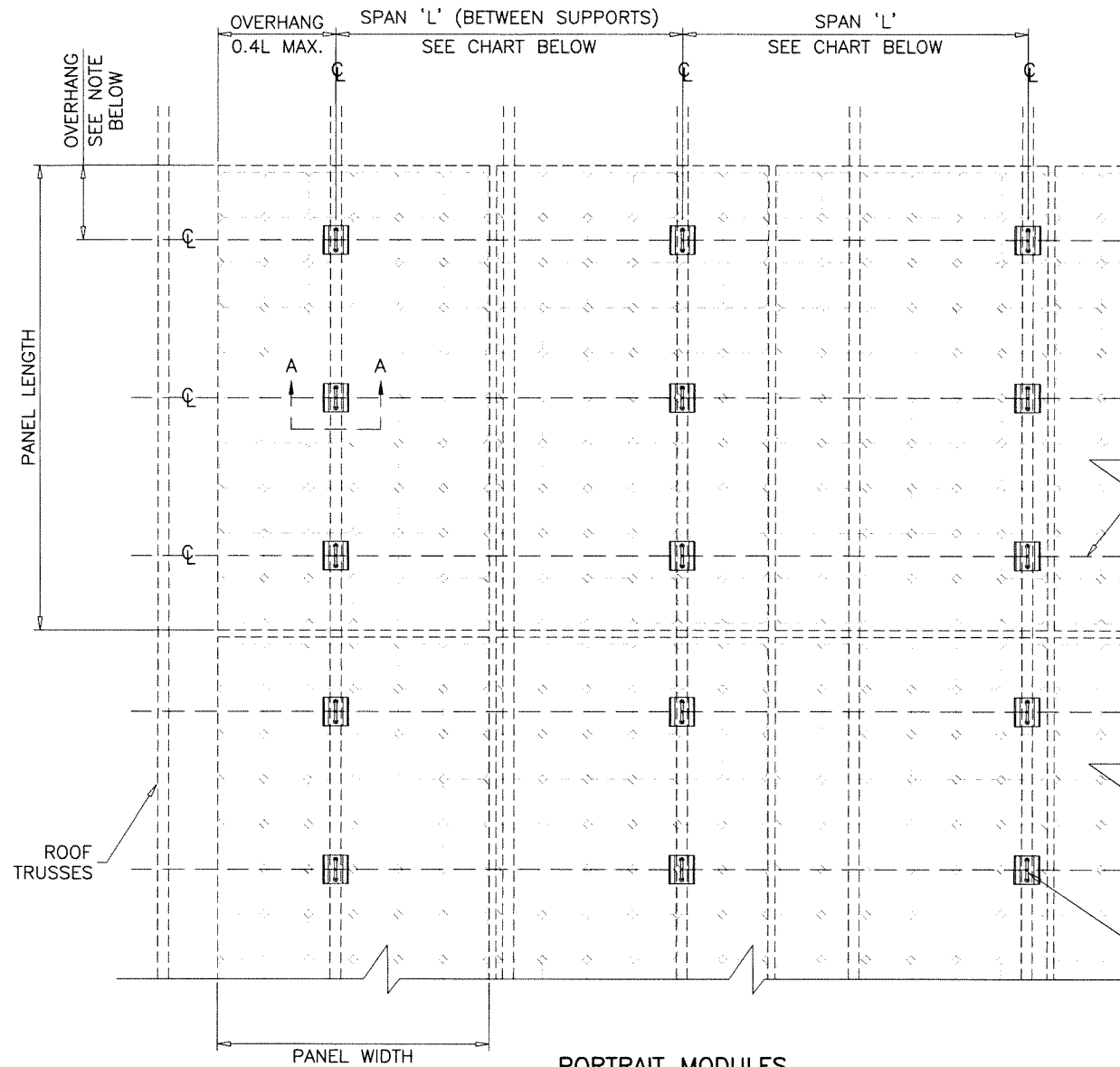


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RT-MINI II ROOF TOP PV MOUNTING SYSTEM

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Phone: (858) 935-6064 Fax:

revisions:		no.	date	by	description
		A	07.25.23		UPDATED TO 2023 FBC
date:	03-23-21	scale:	1/2"=1'-0"	dr. by:	TARIO
				chk. by:	
drawing no.		21-27F			
sheet		1 of 3			



NOTE:
OVERHANG AS PER PANEL MANUFACTURER'S INSTRUCTIONS.
SHOULD BE EQUAL ON BOTH SIDES OF PANELS.

PORTRAIT MODULES
PLAN VIEW

DESIGN LOAD CAPACITY - PSF (PORTRAIT MODULES) UP TO 68" PANEL LENGTHS											
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°	
		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'
2	16"	137.1	147.4	136.4	146.8	135.0	145.4	134.1	144.6	132.0	142.6
	24"	92.8	99.6	92.0	99.0	90.6	97.6	89.8	96.8	87.6	94.8
	32"	70.6	75.7	69.9	75.1	68.4	73.7	67.6	72.9	65.4	70.9
	48"	48.4	51.8	47.7	51.1	46.2	49.8	45.4	49.0	43.2	47.0
	64"	37.3	39.9	36.6	39.2	35.1	37.8	34.3	37.1	32.1	35.0
	72"	33.6	35.9	32.9	35.2	31.4	33.8	30.6	33.1	28.4	31.0
3	16"	175.5	188.7	174.8	188.1	173.3	186.7	172.5	185.9	170.3	183.9
	24"	118.3	127.2	117.6	126.5	116.1	125.1	115.3	124.3	113.2	122.3
	32"	89.7	96.4	89.0	95.7	87.6	94.3	86.7	93.6	84.6	91.5
	48"	61.2	65.6	60.4	64.9	59.0	63.6	58.2	62.8	56.0	60.7
	64"	46.9	50.2	46.2	49.5	44.7	48.2	43.9	47.4	41.7	45.3
	72"	42.1	45.1	41.4	44.4	39.9	43.0	39.1	42.2	36.9	40.2

LOADS SHOWN IN CHARTS ABOVE ARE FOR PANEL LENGTHS UP TO 68"
FOR SHORTER PANEL LENGTHS, DETERMINE DESIGN LOADS AS FOLLOWS

$$\text{DESIGN LOAD} = \frac{\text{LOAD FROM CHART X 68}}{\text{NEW PANEL LENGTH}}$$

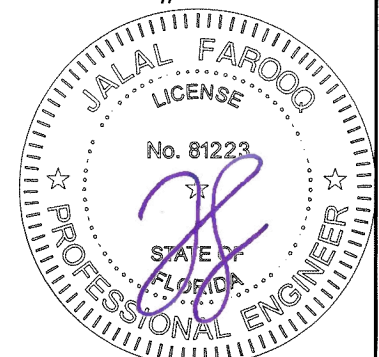
DESIGN LOAD CAPACITY - PSF (PORTRAIT MODULES) UP TO 80" PANEL LENGTHS											
NUMBER OF RAILS	SPAN 'L'	FLAT ROOFS		ROOF SLOPES UP TO 7°		ROOF SLOPES 8° TO 20°		ROOF SLOPES 21° TO 27°		ROOF SLOPES 28° TO 45°	
		ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'	ANCHOR TYPE 'A'	ANCHOR TYPE 'B'
2	16"	117.2	125.9	116.5	125.3	115.0	123.9	114.2	123.1	112.0	121.1
	24"	79.4	85.3	78.7	84.6	77.3	83.3	76.5	82.5	74.3	80.4
	32"	60.6	65.0	59.9	64.3	58.4	62.9	57.6	62.2	55.4	60.1
	48"	41.7	44.6	41.0	44.0	39.6	42.6	38.7	41.8	36.6	39.8
	64"	32.3	34.5	31.6	33.8	30.1	32.5	29.3	31.7	27.1	29.6
	72"	29.1	31.1	28.4	30.4	27.0	29.1	26.2	28.3	24.0	26.2
3	16"	134.1	144.1	133.4	143.5	131.9	142.1	131.1	141.3	128.9	139.3
	24"	90.7	97.4	90.0	96.8	88.6	95.4	87.7	94.6	85.6	92.6
	32"	69.0	74.1	68.3	73.4	66.9	72.0	66.0	71.3	63.9	69.2
	48"	47.4	50.7	46.6	50.0	45.2	48.7	44.4	47.9	42.2	45.9
	64"	36.5	39.0	35.8	38.4	34.4	37.0	33.5	36.2	31.4	34.2
	72"	32.9	35.1	32.2	34.5	30.7	33.1	29.9	32.3	27.8	30.3

LOADS SHOWN IN CHARTS ABOVE ARE FOR PANEL LENGTHS UP TO 80"
FOR SHORTER PANEL LENGTHS (68" TO 80"), DETERMINE DESIGN LOADS AS FOLLOWS

$$\text{DESIGN LOAD} = \frac{\text{LOAD FROM CHART X 80}}{\text{NEW PANEL LENGTH}}$$

Sealed: 7/28/2023

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