

Design Criteria for Span Tables:

Values in the maximum allowable rail span tables provided herein are subject to the following general criteria and additional criteria shown on individual span tables sheets. Values in span tables are based on the same engineering methodology and calculation algorithms used for U-Builder and are provided here for reference.

Building Assumptions

- Building Risk Category: II
- Mean Roof Height: 30 ft
- Roof Pitch: 0°-45°
- Site Elevation: 0 ft

Wind Design Assumptions

- Wind loads used are based on ASCE 7-22 Sec. 29.4.4
- Exposure Category B, C, or D
- Basic Wind Speed = 90 – 180 mph
- Level terrain. Topographic factor, $k_{zt} = 1.0$
- $\gamma_E = 1.0$ for 'Interior' spans, $\gamma_E = 1.5$ for 'Exposed' spans (ASCE 7-22, Fig. 29.4-7)

Snow Design Assumptions

- Ground Snow Load = 0-100 psf
- Exposure Factor coefficients of Partially Exposed condition
- Thermal Factor = 1.0
- Results based on uniform snow load

Seismic Design Assumptions

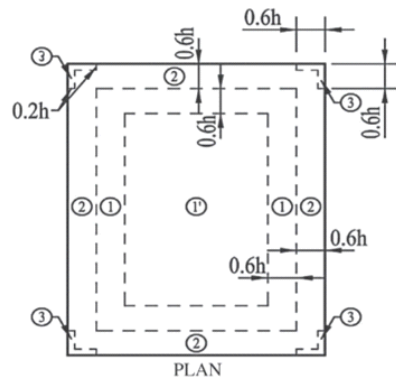
- 0.2-s Spectral Response Acceleration
- $S_s = 1.25$ and 3 with $S_d = 1, 2.4$ respectively per criteria shown on individual span tables sheets.
- $S_1 = 0.5$ & $S_{d1} = 0.6$
- Seismic site class D

Array Assumptions

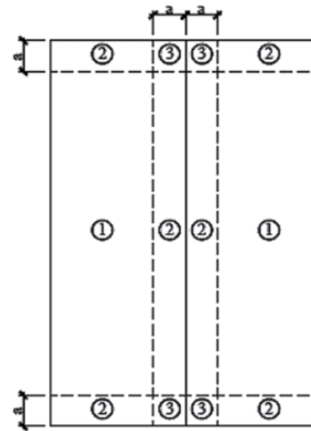
- Module orientation and Rail direction per criteria shown on individual span tables sheets.
- Maximum module dimensions of 40.1" x 67" (~19 sq.ft, 47.65 lbs) and 41" x 80" (~23 sq.ft, 58.6 lbs) per criteria shown on individual span tables sheets.
- Minimum distance between modules and roof edge is at least twice the module height above roof surface.
- Modules are parallel to roof surface and maximum height above roof surface is 5" to 10" depending on attachment type.
- Gaps between module rows and columns is 0.25" in to 1" depending on clamp type.
- The most restrictive of all roof zone spans shall be used when any part of the module is attributed to that span.
- 'Exposed' spans as defined in ASCE 7-22 sec. 29.4.4 shall be used when any part of an exposed module or panel as is attributed to that span.

Span Tables

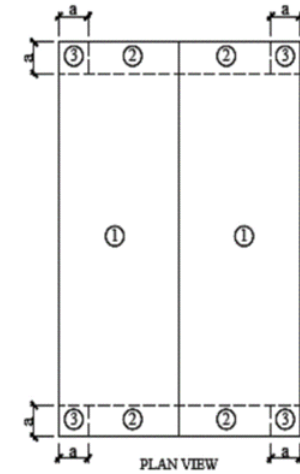
Zone should be considered as per ASCE 7-22, Fig. 30.3-2A to 30.3-2D



Gable Roofs $\theta \leq 7^\circ$



Gable Roofs $7^\circ < \theta \leq 27^\circ$



Gable Roofs $27^\circ < \theta \leq 45^\circ$

Rails can be installed in these possible orientations.

#N/A

* Cells with an astrisks indicates that the L-root must be oriented in the Y- direction as indicated in the image.

10 Highlighted cell indicate 3-rail system span. Contact Unirac Engineering Services for support.

40 Highlighted cell with strikethrough indicate 3-rail system span and module clamp allowable capacity exceeds with 3-rails. 4-Rail system required. Contact Unirac Engineering Services for support.

Maximum Allowable Rail Spans for Rooftop Solar Panels Parallel to the Roof Surface (inches)

[illegible]

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Solarhooks CT2

Maximum Allowable Rail Spans for Rooftop Solar Panels Parallel to the Roof Surface (inches)

[illegible]

#N/A

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Maximum Allowable Rail Spans for Rooftop Solar Panels Parallel to the Roof Surface (inches)

Ground Snow Load (psf)	Wind Exposure Category	Roof Tilt Angle (deg)	Panel Exposure	Basic Wind Speed (mph)																																																																													
				90						95						100						105						110						115						120						130						140						150						160						170						180					
				Roof Wind Zone																																																																													
				1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3																																				
0	B	0-7	Interior	72	72	72	72	72	72	72	72	72	71	72	72	59	72	72	50	72	72	42	72	63	37	72	48	30	63	38	26	50	32	22	40	28	20	34	24	17	30	22	15																																						
			Exposed	72	72	49	72	70	41	72	59	35	72	50	31	72	43	28	61	37	26	53	33	23	41	28	20	33	24	17	29	21	15	25	18	13	22	16	11	19	14	10																																							
		7-20	Interior	73	73	73	73	73	73	73	73	73	61	73	73	49	73	73	41	73	62	35	73	51	32	71	37	27	51	31	23	38	27	20	32	23	17	28	21	15	25	18	13																																						
			Exposed	73	73	40	73	58	34	73	47	30	73	39	27	60	34	25	49	31	23	42	28	21	33	24	17	28	20	15	24	17	13	21	15	11	18	13	10	16	12	9																																							
		20-27	Interior	74	74	74	74	74	74	74	74	74	74	74	74	74	60	74	74	49	74	61	41	74	43	32	74	34	28	64	29	24	50	25	21	40	22	18	34	20	16																																								
			Exposed	74	74	60	74	71	47	74	56	38	74	45	33	74	37	30	74	33	27	69	30	25	51	26	21	39	22	18	33	19	16	28	17	14	25	15	12	22	13	11																																							
	27-45	Interior	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	68	75	75	57	75	62	42	63	47	33	46	37	29	36	32	25	31	28	22	28	25	20																																							
		Exposed	75	75	75	75	75	65	75	65	53	75	65	44	75	54	37	61	46	33	50	40	30	36	32	25	31	28	22	27	24	19	23	21	16	20	18	14	18	16	13																																								
	C	0-7	Interior	72	72	54	72	72	45	72	64	37	72	54	33	72	47	30	68	40	27	58	35	25	44	30	21	35	25	18	30	22	15	26	19	13	23	17	12	21	15	11																																							
			Exposed	72	46	30	65	39	27	54	34	24	46	30	21	39	28	19	35	25	18	32	23	16	27	19	14	23	17	12	20	14	10	17	12	9	15	11	8	13	10	10																																							
		7-20	Interior	73	73	45	73	66	36	73	53	32	73	43	29	68	36	26	55	33	24	46	30	22	34	25	18	29	21	16	25	18	14	22	16	12	19	14	10	17	13	9																																							
			Exposed	67	36	26	53	32	23	43	28	21	35	26	19	32	23	17	29	21	16	27	19	14	22	16	12	19	14	10	17	12	9	14	10	8	13	9	10	11	8	9																																							
20-27		Interior	74	74	68	74	74	53	74	63	42	74	50	35	74	42	32	74	35	29	74	32	26	56	27	22	43	23	19	34	20	17	30	17	14	26	15	13	23	14	11																																								
		Exposed	74	41	32	74	34	28	71	31	25	59	28	23	49	25	21	42	23	19	36	21	17	30	18	15	26	15	12	22	13	11	20	11	9	17	10	8	15	9	10	11																																							
27-45	Interior	75	75	75	75	73	75	73	75	58	75	58	75	72	48	75	60	40	69	51	35	57	44	32	40	34	27	32	29	23	28	25	20	25	22	17	22	19	15	19	17	14																																							
	Exposed	75	60	40	65	49	34	52	41	30	42	35	27	35	32	25	32	29	23	29	26	21	25	22	18	21	19	15	18	16	13	16	14	11	14	13	10	13	11	9																																									
D	0-7	Interior	72	69	40	72	57	34	72	48	30	68	41	27	58	35	25	50	32	23	43	29	21	34	25	17	29	21	15	25	18	13	22	16	11	19	14	10	17	12	9																																								
		Exposed	58	35	25	48	31	22	41	28	20	35	25	18	32	23	16	29	21	15	26	19	13	22	16	11	19	14	10	16	12	8	14	10	11	13	9	10	11	8	9																																								
	7-20	Interior	73	57	33	73	45	30	71	37	27	56	33	24	46	30	22	39	27	20	34	25	18	29	21	15	24	18	13	21	15	11	18	13	10	16	12	9	14	10	8																																								
		Exposed	46	30	22	37	26	19	32	24	17	29	21	16	27	19	14	24	18	13	22	16	12	19	14	10	16	12	9	14	10	11	12	9	10	11	8	9	10	11	8	9																																							
	20-27	Interior	74	68	46	74	53	37	74	43	32	74	35	29	74	32	26	64	29	24	55	27	22	41	23	19	33	19	16	29	17	14	25	15	12	22	13	11	19	11	9																																								
		Exposed	74	32	26	61	28	23	51	26	21	43	23	19	36	21	17	33	19	16	30	17	14	25	15	12	22	13	10	19	11	9	16	9	8	14	8	10	13	11	9																																								
27-45	Interior	75	75	63	75	75	51	75	62	42	71	52	35	57	44	32	47	37	29	39	33	26	32	28	22	27	24	19	23	21	17	20	18	14	18	16	13	16	14	11																																									
	Exposed	56	43	32	44	36	28	36	32	25	32	29	23	29	26	21	27	24	19	24	22	17	21	18	15	18	16	12	15	14	11	13	12	9	12	10	8	10	9	11																																									
10	B	0-7	Interior	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	42	59	59	37	59	48	30	59	38	26	50	32	22	40	28	20	34	24	17	30	22	15																																							
			Exposed	59	49	49	59	59	41	59	59	35	59	50	31	59	43	28	59	37	26	53	33	23	41	28	20	33	24	17	29	21	15	25	18	13	22	16	11	19	14	10																																							
		7-20	Interior	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	51	59	51	32	59	37	27	51	31	23	38	27	20	32	23	17	28	21	15	25	18	13																																						
			Exposed	59	40	40	59	58	34	59	47	30	59	39	27	59	34	25	49	31	23	42	28	21	33	24	17	28	20	15	24	17	13	21	15	11	18	13	10	16	12	9																																							
		20-27	Interior	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	61	68	43	32	68	34	28	64	29	24	50	25	21	40	22	18	34	20	16																																									
			Exposed	68	68	60	68	68	47	68	56	38	68	45	33	68	37	30	68	33	27	68	30	25	51	26	21	39	22	18	33	19	16	28	17	14	25	15	12	22	13	11																																							
	27-45	Interior	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	68	73	73	57	73	62	42	63	47	33	46	37	29	36	32	25	31	28	22	28	25	20																																							
		Exposed	73	73	73	73	73	65	73	73	53	73	65	44	73	54	37	61	46	33	50	40	30	36	32	25	31	28	22	27	24	19	23	21	16	20	18	14	18	16	13																																								
	C	0-7	Interior	59	59	54	59	59	45	59	59	37	59	54	33	59	47	30	59	40	27	58	35	25	44	30	21	35	25	18	30	22	15	26	19	13	23	17	12	21	15	11																																							
			Exposed	59	46	30	59	39	27	54	34	24	46	30	21	39	28	19	35	25	18	32	23	16	27	19	14	23	17	12	20	14	10	17	12	9	15	11	8	13	10	10																																							
		7-20	Interior	59	59	45	59	59	36	59	53	32	59	43	29	59	36	26	55	33	24	46	30	22	34	25	18	29	21	16	25	18	14	22	16	12	19	14	10	17	13	9																																							
			Exposed	59	36	26	53	32	23	43	28	21	35	26	19	32	23	17	29	21	16	27	19	14	22	16	12	19	14	10	17	12	9	14	10	8	13	9	10	11	8	9																																							
20-27		Interior	68	68	68	68	68	53	68	63	42	68	50	35	68	42	32	68	35	29	68	32	26	56	27	22	43	23	19	34	20	17	30	17	14	26	15	13	23	14	11																																								
		Exposed	68	41	32	68	34	28	68	31	25	59	28	23	49	25	21	42	23	19	36	21	17	30	18	15	26	15	12	22	13	11	20	11	9	17	10	8	15	9	10	11																																							
27-45	Interior	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	68	73	73	57	73	62	42	63	47	33	46	37	2																																																	

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				90			95			100			105			110			115			120			130			140			150			160			170			180		
				Roof Wind Zone																																						
				1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3	1	2	3			
0	B	0-7	Interior	72	72	72	72	72	72	72	72	71	72	72	59	72	72	50	72	42	72	63	37	72	48	30	63	38	26	50	32	22	40	28	20	34	24	17	30	22	15	
			Exposed	72	72	49	72	70	41	72	59	35	72	50	31	72	43	28	61	37	26	53	53	23	41	48	20	33	24	17	29	21	15	25	18	13	22	16	11	19	14	10
		7-20	Interior	73	73	73	73	73	73	73	61	73	73	49	73	73	41	73	62	35	73	51	32	71	37	27	51	31	23	38	27	20	32	23	17	28	21	15	25	18	13	
			Exposed	73	73	40	73	58	34	73	47	30	73	39	27	60	34	25	49	31	23	42	28	21	33	24	17	28	20	15	24	17	13	21	15	11	18	13	10	16	12	9
		20-27	Interior	74	74	74	74	74	74	74	74	74	74	74	74	74	74	60	74	74	49	74	61	41	74	43	32	74	34	28	64	29	24	50	25	21	40	22	18	34	20	16
			Exposed	74	74	60	74	74	71	47	74	56	38	74	45	33	74	37	30	74	33	27	69	30	25	51	26	21	39	22	18	33	29	16	28	17	14	25	15	12	22	13
	C	0-7	Interior	75	75	75	75	75	75	75	75	75	75	75	75	75	75	75	68	75	75	57	75	68	75	62	42	63	47	33	46	37	29	36	32	25	31	28	22	28	25	20
			Exposed	75	75	75	75	75	75	65	75	75	53	75	65	44	75	54	37	61	46	33	50	40	30	36	32	25	31	28	22	27	24	19	23	21	16	20	18	14	18	16
		7-20	Interior	72	72	54	72	72	45	72	64	37	72	54	33	72	47	30	68	40	27	58	35	25	44	30	21	35	25	18	30	22	15	26	19	13	23	17	12	21	15	11
			Exposed	72	46	30	65	39	27	54	34	24	46	30	21	39	28	19	35	25	18	32	23	16	27	19	14	23	17	12	20	14	10	17	12	9	15	11	8	13	10	10
		20-27	Interior	73	73	45	73	66	36	73	53	32	73	43	29	68	36	26	55	33	24	46	30	22	34	25	18	29	21	16	25	18	14	22	16	12	19	14	10	17	13	9
			Exposed	67	36	26	53	32	23	43	28	21	35	26	19	32	23	17	29	21	16	27	19	14	22	16	12	19	14	10	17	12	9	14	10	8	13	9	10	11	8	9
D	0-7	Interior	74	74	68	74	74	53	74	63	42	74	50	35	74	42	32	74	35	29	7																					

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ASCE 7-22
Design Standard

II
Risk Category

30 ft
Roof Height

Ss = 1.25
Seismic

23 sq.ft
Module Area

LANDSCAPE
Orientation

CROSS-SLOPE
Rail Direction

NXT HD
Rail Type

NXT COMBO
Clamp

Solarhooks CT2
Attachment

SPAN TABLES

Maximum Allowable Rail Spans for Rooftop Solar Panels Parallel to the Roof Surface (inches)

Ground Snow Load (psf)	Wind Exposure Category	Roof Tilt Angle (deg)	Panel Exposure	Basic Wind Speed (mph)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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[illegible]

* Cells with an astrisks indicates that the L-foot must be oriented in the Y- direction as indicated in the image.

[illegible]

* Cells with an asterisk indicates that the L-foot must be oriented in the Y- direction as indicated in the image.

10	Highlighted cell indicate 3-rail system span. Contact Unirac Engineering Services for support.
48	Highlighted cell with strikethrough indicate 3-rail system span and module clamp allowable capacity exceeds with 3-rails. 4-Rail system required. Contact Unirac Engineering Services for support.

[illegible]

* Cells with an asterisks indicates that the L-foot must be oriented in the Y- direction as indicated in the image.

[illegible]

10 Highlighted cell indicate 3-rail system span. Contact Unirac Engineering Services for support.

[illegible]

* Cells with an astrisks indicates that the L-foot must be oriented in the Y- direction as indicated in the image.

[illegible]

* Cells with an asterisk indicates that the L-root must be oriented in the Y- direction as indicated in the image.