

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 7-16 Sec 29.4.4 with Provisions from SEAOC PV2-2017
- 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 7-16, 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

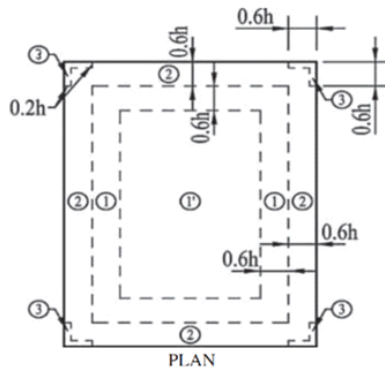
- 0.2-s Spectral Response Acceleration, $S_S \leq 3$
- $S_S = 1.25$ and 3 per criteria shown on individual span tables sheets.
- $S_1 = 0.5$
- Seismic site class D

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 7-16 sec. 29.4.4 shall be used when any part of an exposed module or panel as is attributed to that span.

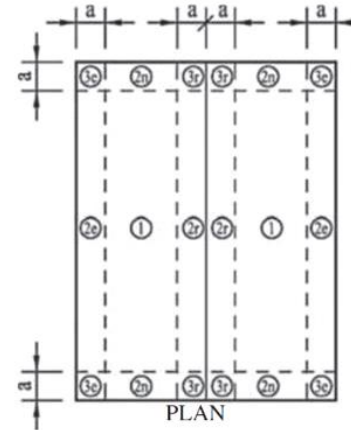
Span Tables

Zone should be considered as per ASCE 7-16, Fig. 30.3-2A to 30.3-2D



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

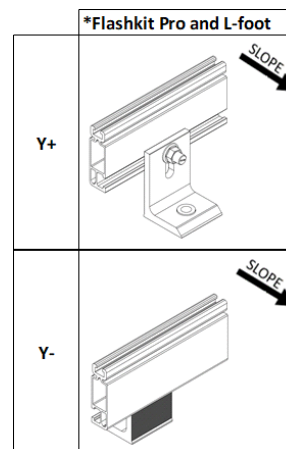
Rails can be installed in these possible orientations.



Gable Roofs $7^\circ < \theta \leq 45^\circ$

Grouping of ASCE 7-16 Roof Zones (Gable and Flat)

- **Roof Tilt 0° - 7°**
 - Roof Zone 1 = 1
 - Roof Zone 2 = 2
 - Roof Zone 3 = 3
- **Roof Tilt 7° - 27°**
 - Roof Zone 1 = 1, 2e
 - Roof Zone 2 = 2n, 2r, 3e
 - Roof Zone 3 = 3r
- **Roof Tilt 27° - 45°**
 - Roof Zone 1 = 1, 2e, 2r
 - Roof Zone 2 = 2n, 3r
 - Roof Zone 3 = 3e



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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)																																															
				Roof Wind Zone																																															
				90			95			100			105			110			115			120			130			140			150			160			170			180											
				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	120	120	120	120	120	120	120	120	120	120	120	120	120	120	113	120	106	120	114	95	120	104	87	115	95	79	107	88	73	99	81	63	92	76	53													
			Exposed	120	120	117	120	120	111	120	120	103	120	115	97	120	110	91	120	103	86	117	98	81	108	88	73	98	80	62	89	74	50	82	65	41	76	55	52	71	46	46									
		7-20	Interior	120	120	120	120	120	120	120	120	120	120	120	120	120	120	117	120	120	112	120	116	105	120	105	93	120	95	84	112	86	76	99	79	69	89	72	55	81	62	45									
			Exposed	120	120	117	120	120	110	120	114	102	120	107	95	120	100	89	120	94	83	115	88	78	100	79	70	88	72	54	78	58	42	71	46	52	61	57	46	53	49	41									
		20-27	Interior	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	116	110	120	121	106	99	119	96	89	112	88	81	103	81	75	95	75	67										
			Exposed	121	121	121	121	121	121	121	121	118	121	117	112	121	112	105	121	105	98	121	99	92	113	89	82	102	80	74	93	73	62	85	62	48	79	51	58	73	42	49									
	27-45	Interior	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	114	112	121	121	121	121	121	117	103	121	108	94	115	99	86	105	92	80	97	85	74					
		Exposed	121	121	121	121	121	121	121	121	121	120	121	121	115	121	121	109	121	116	103	121	112	97	115	100	87	104	91	79	94	83	72	86	76	61	79	70	50	73	59	42									
	C	0-7	Interior	120	120	120	120	120	115	120	108	120	119	101	120	114	95	120	108	90	120	102	85	113	92	77	102	84	69	93	77	55	86	71	45	80	60	57	74	51	49										
			Exposed	120	114	95	120	106	88	119	99	83	114	93	78	107	88	73	101	83	67	96	79	59	86	71	46	79	59	55	72	48	62	60	42	52	52	37	44	46	39										
		7-20	Interior	120	120	120	120	120	114	120	118	107	120	112	99	120	105	93	120	98	87	119	93	82	107	83	74	93	75	61	83	65	47	75	52	57	67	42	49	58	53	44									
			Exposed	120	105	93	120	97	86	117	90	80	109	84	75	100	79	70	92	74	59	86	70	51	75	53	58	66	41	48	55	51	42	47	44	37	40	39	32	53	35	29									
20-27		Interior	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121									
		Exposed	121	116	110	121	108	101	121	101	94	117	94	87	112	88	82	106	83	77	100	78	72	90	71	56	81	55	42	74	44	51	67	53	43	58	47	36	50	42	34										
27-45	Interior	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	121	120	107	121	115	101	119	105	91	109	95	82	99	87	75	90	80	68	83	74	56	76	66	46											
	Exposed	121	121	114	121	118	106	121	113	99	120	106	92	115	100	87	108	94	82	102	89	77	91	80	69	82	73	54	74	61	43	64	50	53	51	41	46	41	53	40											
D	0-7	Interior	120	120	112	120	120	104	120	115	97	120	109	91	120	103	85	117	97	80	112	92	76	101	83	66	92	75	53	84	68	43	77	56	53	72	47	47	62	60	42										
		Exposed	120	102	85	116	95	79	109	89	74	102	84	69	96	79	59	91	75	52	86	71	45	78	57	54	71	46	46	59	57	40	49	49	36	41	43	34	53	39	27										
	7-20	Interior	120	120	110	120	114	102	120	107	94	120	99	88	120	93	83	114	87	78	106	82	73	92	74	59	81	62	45	72	48	54	63	59	47	54	50	41	47	44	37										
		Exposed	119	93	82	112	86	76	102	80	71	93	75	61	86	70	52	80	60	44	75	52	57	64	60	47	53	49	41	45	43	35	57	37	34	50	33	27	44	29	24										
	20-27	Interior	121	121	121	121	121	118	121	117	112	121	111	104	121	104	97	120	98	91	116	92	85	105	83	76	95	75	66	87	65	51	80	52	40	74	43	50	67	54	43										
		Exposed	121	104	97	119	96	89	114	90	83	107	84	77	100	79	73	94	74	65	89	70	55	80	53	41	73	42	49	64	51	41	54	45	34	47	40	29	40	35	25										
27-45	Interior	121	121	121	121	121	120	121	121	115	121	121	108	121	116	102	121	110	96	118	104	90	108	94	81	97	85	74	88	78	64	80	71	51	74	60	42	64	50	53											
	Exposed	121	115	101	121	109	94	116	101	88	110	95	83	102	89	78	96	84	73	90	68	81	72	52	73	58	41	59	47	51	47	58	43	57	50	37	49	44	32												
10	B	0-7	Interior	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	95	104	104	87	104	95	79	104	88	73	99	81	63	92	76	53												
			Exposed	104	104	104	104	104	104	104	104	103	104	104	97	104	104	91	104	103	86	104	98	81	104	88	73	98	80	62	89	74	50	82	65	41	76	55	52	71	46	46									
		7-20	Interior	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	93	104	95	84	104	86	76	99	79	69	89	72	55	81	62	45								
			Exposed	104	104	104	104	104	104	104	104	102	104	104	95	104	100	89	104	94	83	104	88	78	100	79	70	88	72	54	78	58	42	71	46	52	61	57	46	53	49	41									
		20-27	Interior	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	116*	110*	117*	106*	99	117*	96	89	112*	88	81	103	81	75	95	75	67											
			Exposed	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	112*	105*	117*	105*	98	117*	99	92	113*	89	82	102	80	74	93	73	62	85	62	48	79	51	58	73	42	49												
	27-45	Interior	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	117*	103*	119*	108*	94	115*	99*	86	105*	92	80	97*	85	74											
		Exposed	119*	119*	119*	119*	119*	119*	119*	119*	119*	119*	115*	119*	109*	119*	116*	103*	119*	112*	97*	115*	100*	87	104*	91	79	94	83	72	86	76	61	79	70	50	73	59	42												
	C	0-7	Interior	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	95	104	104	87	104	95	79	104	88	73	99	81	63	92	76	53												
			Exposed	104	104	95	104	104	88	104	99	83	104	93	78	104	88	73	101	83	67	96	79	59	86	71	46	79	59	55	72	48	62	60	42	52	52	37	44	46	39										
		7-20	Interior	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	104	93	104	95	84	104	86	76	99	79	69	89	72	55	81	62	45								
			Exposed	104	104	93	104	97	86	104	90	80	104	84	75	100	79	70	92	74	59	86	70	51	75	53	58	66	41	48	55	51	42	47	44	37	40	39	32	53	35	29									
20-27		Interior	117*	117*	117*	117*	117*	117*	117*	117*	117*	117*	116*	117*	116*	110*	117*	110*	103	117*	104	97	116*	93	86	107*	84	77	97	76	70	89	70	55	82	57	44	76	47	54											

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.

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Basic Wind Speed (mph)

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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	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	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	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	109	120	120	103	120	111	92	120	101	83	113	92	76	104	85	70	95	78	57	89	73	47																																								
			Exposed	120	120	115	120	120	107	120	120	120	120	118	100	120	113	93	120	106	88	119	100	83	115	94	78	104	85	70	94	77	55	86	71	44	79	59	36	73	49	48	66	42	43																																						
		Exposed	120	120	114	120	120	117	106	120	111	98	120	103	91	120	96	85	117	90	80	111	85	75	95	76	63	84	66	47	105	73	66	41	48	56	34	42	49	46	46	38																																									
		Exposed	121	121	121	121	121	121	121	121	120	115	121	115	108	121	108	101	121	101	94	119	95	88	109	85	79	98	77	71	89	70	54	82	55	42	76	45	34	70	37	44																																									
		Exposed	121	121	121	121	121	121	121	121	121	118	121	121	112	121	118	105	121	114	99	121	121	108	93	112	97	84	100	87	76	90	80	68	82	73	54	76	64	44	69	53	37																																								
		Exposed	120	111	92	120	103	85	116	96	80	111	90	75	104	85	70	98	80	61	93	99	76																																																												

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				Roof Wind Zone									Roof Wind Zone									Roof Wind Zone									Roof Wind Zone									Roof Wind Zone									Roof Wind Zone									Roof Wind Zone									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	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*	120*																								
			Exposed	120*	120*	115*	120*	120*	120*	120*	118*	100	120*	113*	93	120*	106*	88	119*	100	83	119*	120*	103	120*	111*	92	120*	101	83	113*	92	76	104*	85	70	95	78	57	89	67	43	73	47	43	43	43	43	43	43	43	43	43																						
		7-20	Interior	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*																							
			Exposed	115*	115*	114*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*	115*																								
		20-27	Interior	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*																						
			Exposed	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*	109*																					
	27-45	Interior	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*																					
		Exposed	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*	104*																						
	C	0-7	Interior	120*	120*	118*	120*	120*	113*	120*	105*	120*	116*	98	120*	111*	92	120*	105*	87	119*	99	82	109*	89	74	99																																																

10 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.

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

[illegible]

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