

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 7-10 Sec 30.4.2
- Exposure Category B, C, or D
- Basic Wind Speed = 90 – 180 mph
- Level terrain. Topographic factor, $k_{zt} = 1.0$

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

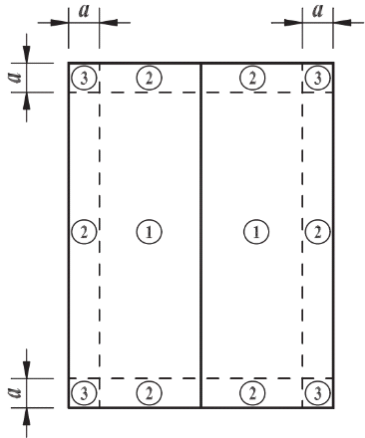
Seismic Design Assumptions

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

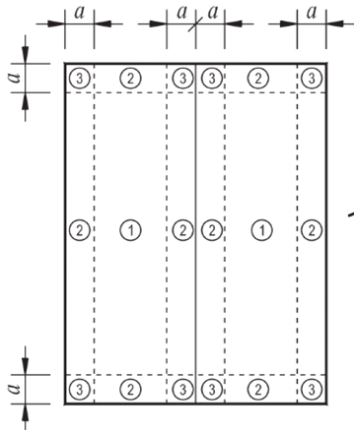
Array Assumptions

- 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.

Zone should be considered as per ASCE 7-10, Fig. 30.4-2A to 30.4-2D

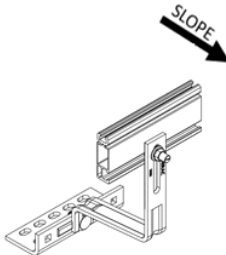


Gable Roofs $\theta \leq 7^\circ$



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

Rails can be installed in these possible orientations.

	*CT5
Y+	Alternate orientation not allowed
Y-	



ASCE 7-10
Design Standard

II
Risk Category

30 ft
Roof Height

Ss = 1.25
Seismic

18.66 sq.ft
Module Area

PORTRAIT
Orientation

CROSS-SLOPE
Rail Direction

SM
Rail Type

PRO SERIES
Clamp

Solarhooks CT5
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)	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						
0	B	0-7	87	87	87	87	87	87	87	87	74	87	87	63	87	87	55	87	86	48	87	76	42	87	61	36	87	50	31	82	42	26	71	37	23	62	32	20	54	29	27
		7-27	88	88	88	88	88	81	88	88	71	88	88	63	88	88	57	88	87	51	88	78	46	88	64	39	88	53	33	88	45	29	79	39	25	69	34	22	61	30	19
		27-45	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	84	84	84	78	78	78	68	68	59	59	59	52	52	46	46	46	41	41	41	37	37	37		
	C	0-7	87	87	61	87	87	51	87	79	44	87	69	39	87	61	36	87	54	32	87	48	30	77	40	25	65	34	21	56	30	19	48	26	25	42	23	22	37	20	19
		7-27	88	88	61	88	88	54	88	81	47	88	72	42	88	64	38	88	57	35	88	51	32	87	42	27	73	36	23	62	31	20	54	27	26	47	24	23	42	21	21
		27-45	90	90	90	87	87	80	80	80	73	73	67	67	67	62	62	62	58	58	58	50	50	50	43	43	38	38	38	34	34	34	30	30	30	27	27	27			
10	D	0-7	87	84	47	87	72	41	87	63	36	87	55	33	87	49	30	84	44	27	76	40	25	64	33	21	54	29	27	46	25	24	40	22	21	35	19	18	31	26	16
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		27-45	83	83	83	75	75	75	69	69	69	63	63	63	58	58	58	53	53	53	49	49	49	42	42	42	37	37	37	32	32	32	29	29	29	26	26	26	23	23	23
	B	0-7	62	62	62	62	62	62	62	62	62	62	62	62	62	55	62	62	48	62	62	42	62	61	36	62	50	31	62	42	26	62	37	23	62	32	20	54	29	27	
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		7-27	62	62	61	62	62	54	62	62	47	62	62	42	62	62	38	62	57	35	62	51	32	61	42	27	56	36	23	52	31	20	49	27	26	45	24	23	42	21	21
		27-45	76	76	76	76	76	76	76	76	76	76	73	73	73	67	67	67	62	62	62	58	58	58	50	50	50	43	43	43	38	38	38	34	34	34	30	30	30	27	27
	D	0-7	62	62	47	62	62	41	62	62	36	62	55	33	62	49	30	62	44	27	62	40	25	62	33	21	54	29	27	46	25	24	40	22	21	35	19	18	31	26	16
		7-27	62	62	50	62	62	44	62	62	39	62	58	35	62	52	32	62	46	29	61	42	27	56	35	23	52	30	19	47	26	25	44	23	22	39	20	20	35	27	17
		27-45	79	79	79	75	75	75	69	69	69	63	63	63	58	58	58	53	53	53	49	49	49	42	42	42	37	37	37	32	32	32	29	29	29	26	26	26	23	23	23
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		7-27	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	38	38	38	34	34	34	30	30	30	27	27	27
		27-45	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	53	53	53	48	48	48	43	43	43	38	38	38	34	34	34	30	30	27	27
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		7-27	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	39	43	43	33	43	43	29	41	39	25	39	34	22	38	30	19	
		27-45	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	38	38	38	35	35
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		27-45	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	40	40	40	36	36	36	32	32	32	29	29	29	26	26	26	23
60	B	0-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
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	C	0-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35												



• 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.

~~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.



ASCE 7-10
Design Standard

II
Risk Category

30 ft
Roof Height

Ss = 1.25
Seismic

18.66 sq.ft
Module Area

LANDSCAPE
Orientation

CROSS-SLOPE
Rail Direction

SM
Rail Type

PRO SERIES
Clamp

Solarhooks CT5
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)	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				
0	B	0-7	144	144	144	144	144	144	144	144	144	144	144	142	144	144	135	144	144	111	144	139	81	144	127	60	142	95	52	135	75	45	124	62	39	107	55	34	93	48	31	
		7-27	145	145	143	145	145	137	145	145	132	145	145	116	145	145	102	145	142	90	145	137	80	145	123	65	145	97	56	140	79	48	134	66	42	121	58	37	105	51	33	
		27-45	149	149	149	149	149	149	149	149	149	149	149	149	149	149	149	144	144	144	133	133	133	115	115	101	101	101	88	88	88	78	78	78	69	69	62	62	62			
	C	0-7	144	144	140	144	144	132	144	141	88	144	135	67	144	126	60	144	105	55	141	90	50	132	68	42	113	58	36	96	50	31	83	44	41	72	38	37	63	34	33	
		7-27	145	145	112	145	145	96	145	139	83	145	134	73	145	122	65	145	106	59	145	93	54	138	73	46	129	61	39	109	53	34	93	46	45	81	41	39	71	36	35	
		27-45	149	149	149	149	149	149	149	136	136	136	125	125	115	115	106	106	98	98	98	84	84	84	73	73	73	63	63	63	56	56	56	50	50	50	45	45	45	45		
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		7-27	145	142	88	145	135	76	145	127	66	145	108	60	145	94	54	142	82	49	137	73	45	125	60	38	105	51	33	89	44	43	76	39	38	66	34	33	59	46	29	
		27-45	142	142	142	129	129	117	117	117	107	107	98	98	98	90	90	90	83	83	83	71	71	71	62	62	62	54	54	54	48	48	48	43	43	43	38	38	38			
	B	0-7	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102		
		7-27	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103	103		
		27-45	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123	123		
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		7-27	103	103	103	103	103	103	103	103	83	103	103	65	103	103	60	103	103	59	103	93	54	103	73	46	98	61	39	91	53	34	84	46	45	77	41	39	71	36	35	
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		27-45	127	127	127	127	127	117	117	107	107	98	98	98	90	90	90	83	83	83	71	71	71	62	62	62	54	54	54	48	48	48	43	43	43	38	38	38	38			
30	B	0-7	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72		
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		27-45	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
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		27-45	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67	67		
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		7-27	72	72	72	72	72	72	72	72	66	72	60	72	60	72	54	72	49	70	70	45	66	60	38	63	51	33	59	44	43	56	39	38	53	34	33	50	46	29		
		27-45	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72		
	B	0-7	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	
		7-27	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56		
		27-45	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	
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		7-27	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56	56		
		27-45	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53																							



11

30 ft
Roof Height

Ss = 1.25
Seismic

18.66 sq.ft

Module Area

LANDSCAPE

CROSS-SLOPE

SM
Rail Type

PRO SERIES

Solarhooks CT5

Attachment

SPAN TABLES

[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.

~~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.



• Cells with an asterisks 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.

16 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.



ASCE 7-10
Design Standard

II
Risk Category

30 ft
Roof Height

Ss = 1.25
Seismic

22.78 sq.ft
Module Area

LANDSCAPE
Orientation

CROSS-SLOPE
Rail Direction

SM
Rail Type

PRO SERIES
Clamp

Solarhooks CT5
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)	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				
0	B	0-7	141	141	141	141	141	141	141	141	141	141	141	141	141	141	134	141	141	101	141	138	77	141	122	59	141	92	50	134	72	44	121	61	38	104	53	34	91	47	45	
		7-27	141	141	141	141	141	136	141	141	130	141	141	113	141	141	99	141	141	88	141	136	78	141	119	63	141	94	54	139	77	47	133	64	41	118	56	36	103	50	49	
		27-45	146	146	146	146	146	146	146	146	146	146	146	146	146	146	146	140	140	140	130	130	130	113	113	113	98	98	98	86	86	86	76	76	76	67	67	67	60	60	60	
	C	0-7	141	141	139	141	141	131	141	140	83	141	134	65	141	121	59	141	101	53	140	87	49	131	66	41	111	56	35	94	49	46	81	43	41	70	37	36	62	50	32	
		7-27	141	141	108	141	141	93	141	138	81	141	132	71	141	118	63	141	103	58	141	90	53	137	71	45	125	59	38	106	51	50	91	45	44	79	40	39	69	35	34	
		27-45	146	146	146	146	146	146	133	133	133	122	122	112	112	112	103	103	103	95	95	95	82	82	82	71	71	71	62	62	62	55	55	55	49	49	49	44	44	44		
D	0-7	141	141	95	141	136	69	141	126	60	141	104	54	140	88	49	135	75	45	131	65	41	108	55	35	91	47	45	77	41	39	66	36	34	58	47	30	52	42	27		
	7-27	141	140	86	141	134	74	141	123	65	141	105	58	141	91	53	141	80	48	136	70	44	122	58	37	102	50	48	87	43	42	74	38	37	65	50	32	57	45	29		
	27-45	138	138	138	126	126	126	114	114	114	105	105	105	96	96	96	88	88	88	81	81	81	69	69	69	60	60	60	53	53	53	47	47	47	42	42	42	38	38	38		
10	B	0-7	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	77	100	100	59	100	92	50	100	72	44	100	61	38	100	53	34	91	47	45		
		7-27	101	101	101	101	101	101	101	101	101	101	101	101	101	101	99	101	101	88	101	101	78	101	101	63	101	94	54	101	77	47	99	64	41	93	56	36	87	50	49	
		27-45	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	113	113	113	98	98	98	86	86	86	76	76	76	67	67	67	60	60	60		
	C	0-7	100	100	100	100	100	100	100	83	100	100	65	100	100	59	100	100	53	100	87	49	100	66	41	100	56	35	94	49	46	81	43	41	70	37	36	62	50	32		
		7-27	101	101	101	101	101	93	101	101	101	101	101	101	101	101	101	101	58	101	90	53	101	71	45	96	59	38	88	51	50	82	45	44	75	40	39	69	35	34		
		27-45	120	120	120	120	120	120	120	120	120	120	120	120	120	112	112	112	103	103	103	95	95	95	82	82	82	71	71	71	62	62	62	55	55	55	49	49	49	44	44	44
D	0-7	100	100	95	100	100	69	100	100	60	100	54	100	88	49	100	75	45	100	65	41	100	55	35	91	47	45	77	41	39	66	36	34	58	47	30	52	42	27			
	7-27	101	101	86	101	101	74	101	101	65	101	58	101	91	53	101	80	48	101	70	44	95	58	37	87	50	48	79	43	42	73	38	37	65	50	32	57	45	29			
	27-45	124	124	124	124	124	114	114	114	105	105	105	96	96	96	88	88	88	81	81	81	69	69	69	60	60	60	53	53	53	47	47	47	42	42	42	38	38	38			
20	B	0-7	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	59	70	70	59	70	50	70	70	44	70	61	38	70	53	34	70	47	45				
		7-27	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	63	71	71	54	70	47	67	64	41	64	56	36	61	50	49		
		27-45	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	82	82	82	75	75	75	67	67	67	60	60	60		
	C	0-7	70	70	70	70	70	70	70	70	70	70	65	70	70	59	70	53	70	53	70	49	70	66	41	70	56	35	70	49	46	70	43	41	67	37	36	62	50	32		
		7-27	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	63	71	71	58	71	53	69	45	65	59	38	62	51	50	59	45	44	56	40	39	53	35	34		
		27-45	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	88	79	79	71	71	71	62	62	62	55	55	55	49	49	49	44	44	44	44			
D	0-7	70	70	70	70	70	69	70	70	60	70	54	70	70	49	70	45	70	65	41	70	55	35	70	47	45	69	41	39	66	36	34	58	47	30	52	42	27				
	7-27	71	71	71	71	71	71	71	65	71	71	58	71	71	53	71	71	48	69	69	44	65	58	37	61	50	48	58	43	42	55	38	37	52	50	32	49	45	29			
	27-45	94	94	94	94	94	94	94	94	94	94	91	91	85	85	85	80	80	80	69	69	69	69	60	60	60	53	53	53	47	47	47	42	42	42	38	38	38				
30	B	0-7	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	59	68	66	41	68	56	35	68	49	46	68	43	41	65	37	36	62	50	32			
		7-27	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	63	70	70	54	70	47	67	64	41	64	56	36	61	50	49				
		27-45	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65			
	C	0-7	68	68	68	68	68	68	68	68	68	68	65	68	68	68	68	68	68	68	49	68	66	41	68	56	35	68	49	46	68	43	41	65	37	36	62	50	32			
		7-27	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	63	70	70	58	70	53	69	45	65	59	38	62	51	50	59	45	44	56	40	39	53	35	34		
		27-45	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65	65		
D	0-7	70	70	70	70	70	69	70	70	60	70	54	70	70	49	70	45	70	65	41	70	55	35	70	47	45	69	41	39	66	36	34	58	47	30	52	42	27				
	7-27	71	71	71	71	71	71	71	65	71	71	58	71	71	53	71	71	48	69	69	44	65	58	37	61	50	48	58	43	42	55	38	37	52	50	32	49	45	29			
	27-45	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	65	65	65	59	59	59	53	53	53	47	47	47	42	42	42	38	38
40	B	0-7	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	44	57	57	38	57	53	34	57	47	45			
		7-27	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55		
		27-45	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52			



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Category
II

30 ft
Roof Height

Ss = 3.00
Seismic

18.66 sq.ft

Portrait

CROSS-SLOPE
Rail Direction

SM
Rail Type

PRO SERIES
Clamp

Solarhooks CT5

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)	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			
60	B	0-7	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	27				
		7-27	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	19					
		27-45	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22				
	C	0-7	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	21	24	24	19	24	24	25	24	23	22	24	20	19		
		7-27	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	20	23	23	26	23	23	23	21	21			
		27-45	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22			
D	0-7	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	27	26	25	24	26	22	21	26	19	18	25	26	46	
	7-27	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	19	26	26	25	23	22	24	20	20	23	27	47			
	27-45	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	23	23	21	21	21				
70	B	0-7	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	27				
		7-27	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19					
		27-45	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19				
	C	0-7	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	19	21	21	25	21	21	22	21	20	19			
		7-27	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	21					
		27-45	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19				
D	0-7	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	27	23	23	24	23	22	21	23	19	18	23	26	46				
	7-27	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	19	22	22	25	22	22	21	20	21	27	47			
	27-45	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	20	20	20				
80	B	0-7	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	27			
		7-27	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18				
		27-45	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17				
	C	0-7	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	25	18	18	22	18	18	19	
		7-27	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	26	18	18	23	18	21			
		27-45	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17				
D	0-7	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	27	20	20	24	20	20	21	20	19	18	20	26	46		
	7-27	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19	20	20	25	20	20	22	20	20	19	27	47		
	27-45	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19				
90	B	0-7	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	24				
		7-27	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16				
		27-45	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23			
	C	0-7	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	24	16	22	16	19		
		7-27	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	24	16	16	23	16	21			
		27-45	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23			
D	0-7	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	27	18	18	24	18	18	21	18	18	18	26	46			
	7-27	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	25	18	18	22	18	18	20	18	27	47		
	27-45	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17				
100	B	0-7	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	22				
		7-27	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22				
		27-45	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21			
	C	0-7	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	22	14	22	14	19			
		7-27	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	21			
		27-45	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21			
D	0-7	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	1																			

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30 ft
Roof Height

Ss = 3.00
Seismic

18.66 sq.ft
Module Area

LANDSCAPE

CROSS-SLOPE

Rail Direction

SM
Rail Type

PRO SERIES

Solarhooks CT5

Attachment

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)			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												
0	B	0-7	144	144	144	144	144	144	144	144	144	144	144	144	142	144	144	135	144	144	111	144	139	81	144	127	60	142	95	52	135	75	45	124	62	39	107	55	34	93	48	31					
		7-27	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	116	90	116	116	80	116	116	65	116	97	56	116	79	48	116	66	42	116	58	37	105	51	33				
		27-45	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	101	101	101	88	88	88	78	78	69	69	67	62	62	62					
	C	0-7	144	144	140	144	144	132	144	141	88	144	135	67	144	126	60	144	105	55	141	90	50	132	68	42	113	58	36	96	50	31	83	44	41	72	38	37	63	34	33						
		7-27	116	116	112	116	116	116	96	116	83	116	116	73	116	116	65	116	106	59	116	93	54	116	73	46	116	61	39	109	53	34	93	46	45	81	41	39	71	36	35						
		27-45	108	108	108	108	108	108	108	108	108	108	108	108	108	108	108	106	106	98	98	98	84	84	84	73	73	73	63	63	63	63	56	56	56	50	50	50	45	45	45						
D	0-7	144	144	103	144	137	73	144	131	61	144	108	55	141	91	50	136	78	46	132	67	42	111	56	36	93	48	30	79	42	40	68	37	35	59	32	31	53	43	27							
	7-27	116	116	88	116	116	76	116	116	66	116	108	60	116	94	54	116	82	49	116	73	45	116	60	38	105	51	33	89	44	43	76	39	38	66	34	33	59	46	29							
	27-45	108	108	108	108	108	108	108	108	107	107	107	98	98	98	90	90	83	83	83	71	71	62	62	62	62	54	54	54	54	48	48	48	43	43	43	38	38	38								
10	B	0-7	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	102	95	52	102	75	45	102	62	39	102	55	34	93	48	31						
		7-27	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	97	56	101	79	48	101	66	42	96	58	37	89	51	33						
		27-45	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	88	88	88	78	78	69	69	62	62	62								
	C	0-7	102	102	102	102	102	102	102	102	102	88	102	102	67	102	102	60	102	102	55	102	90	50	102	68	42	102	58	36	96	50	31	83	44	41	72	38	37	63	34	33					
		7-27	101	101	101	101	101	96	101	101	83	101	101	73	101	101	65	101	101	59	101	93	54	101	73	46	98	61	39	91	53	34	84	46	45	77	41	39	71	36	35						
		27-45	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	88	88	88	78	78	69	69	62	62	62							
D	0-7	102	102	102	102	102	73	102	102	61	102	102	55	102	91	50	102	78	46	102	67	42	102	56	36	93	48	30	79	42	40	68	37	35	59	32	31	53	43	27							
	7-27	103	103	88	103	103	76	103	103	66	103	103	60	103	94	54	103	82	49	103	73	45	97	60	38	89	51	33	82	44	43	75	39	38	66	34	33	59	46	29							
	27-45	97	97	97	97	97	97	97	97	97	97	97	97	97	90	90	83	83	83	71	71	62	62	62	62	54	54	54	54	48	48	48	43	43	43	38	38	38									
20	B	0-7	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	52	72	45	72	62	39	72	55	34	72	48	31							
		7-27	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	56	72	48	69	66	42	65	58	37	63	51	33							
		27-45	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	69	69	62	62	62							
	C	0-7	72	72	72	72	72	72	72	72	72	72	72	67	72	72	60	72	72	55	72	72	50	72	68	42	72	58	36	72	50	31	72	44	41	69	38	37	63	34	33						
		7-27	72	72	72	72	72	72	72	72	72	72	72	72	72	65	72	72	59	72	72	54	71	71	46	67	61	39	63	53	34	60	46	45	57	41	39	54	36	35							
		27-45	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	74	73	73	73	63	63	63	56	56	50	50	45	45	45							
D	0-7	72	72	72	72	72	72	72	72	61	72	72	55	72	72	50	72	46	72	67	42	72	56	36	72	48	30	71	42	40	68	37	35	59	32	31	53	43	27								
	7-27	72	72	72	72	72	72	72	72	66	72	72	60	72	72	54	72	72	49	70	70	45	66	60	38	63	51	33	59	44	43	56	39	38	53	34	33	50	46	29							
	27-45	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	71	71	71	62	62	62	54	54	54	48	48	43	43	38	38							
30	B	0-7	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	52	70	45	70	62	39	70	55	34	70	48	31							
		7-27	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	51	33							
		27-45	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	58	58							
	C	0-7	70	70	70	70	70	70	70	70	70	70	70	67	70	70	60	70	55	70	70	50	70	68	42	70	58	36	70	50	31	70	44	41	67	38	37	63	34	33							
		7-27	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64						
		27-45	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61	61						
D	0-7	72	72	72	72	72	72	72	72	61	72	72	55	72	72	50	72	46	72	67	42	72	56	36	72	48	30	71	42	40	68	37	35	59	32	31	53	43	27								
	7-27	67	67	67	67	67	67	67	67	66	67	67	60	67	67	54	67	67	49	67	67	45	66	60	38	63	51	33	59	44	43	56	39	38	53	34	33	50	46	29							
	27-45	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	60	60	60	54	54	54	48	48	48	43	43	43	38	38							
40	B	0-7	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58						
		7-27	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54						
		27-45	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51	51					
	C	0-7	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58					
		7-27	54	54	54	54	54	54	54	54	54	54	54	54	54																																

* Cells with an asterisks 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.

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.



30 ft
Roof Height

Ss = 3.00
Seismic

18.66 sq.ft

LANDSCAPE

CROSS-SLOPE

SM
Rail Type

PRO SERIES

Solarhooks CT5

SPAN TABLES

[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.

~~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.



Ground Snow Load (psf)	Wind Exposure Category	Roof Tilt Angle (deg)	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					
0	B	0-7	73	73	73	73	73	73	73	73	62	73	62	73	53	73	73	46	73	72	40	73	64	35	73	51	30	73	42	26	68	35	22	59	31	19	51	27	26	45	24	25	23
		7-27	62	62	62	62	62	62	62	62	62	62	53	62	62	47	62	62	43	62	62	38	62	53	32	62	44	28	62	38	24	62	32	21	58	29	18	51	25	25			
		27-45	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	57	57	57	49	49	44	44	44	39	39	39	34	34	31	31	31			
	C	0-7	73	73	51	73	73	43	73	66	37	73	58	33	73	51	30	73	45	27	73	40	25	65	33	21	54	29	18	47	25	23	40	22	21	35	19	16	31	25	16		
		7-27	62	62	51	62	62	45	62	62	40	62	60	35	62	53	32	62	48	29	62	43	27	62	35	23	61	30	19	52	26	25	45	23	22	39	20	19	35	27	17		
		27-45	58	58	58	58	58	58	58	58	58	58	58	58	58	56	56	52	52	48	48	48	48	41	41	41	36	36	36	32	32	32	28	28	25	25	22	22	22	22			
D	0-7	73	70	39	73	60	34	73	52	30	73	46	27	73	41	25	71	36	23	64	33	21	53	28	27	45	24	23	39	21	20	34	27	17	29	24	15	26	21	19			
	7-27	62	62	42	62	62	37	62	55	33	62	48	30	62	43	27	62	39	24	62	35	22	60	30	19	50	25	25	43	22	21	37	19	19	33	25	16	29	23	15			
	27-45	58	58	58	58	58	58	58	58	58	53	53	48	48	48	45	45	41	41	41	35	35	35	31	31	27	27	24	24	24	21	21	21	19	19	19	19	19					
10	B	0-7	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	51	30	52	42	26	52	35	22	52	31	19	51	27	26	45	24	23			
		7-27	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	42	28	52	38	24	49	32	21	46	29	18	43	25	25				
		27-45	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	44	44	44	39	39	39	34	34	31	31	31					
	C	0-7	52	52	51	52	52	43	52	52	37	52	52	33	52	51	30	52	45	27	52	40	25	52	33	21	52	29	18	47	25	23											

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



• Cells with an asterisks 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.

16 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.



ASCE 7-10
Design Standard

II
Risk Category

30 ft
Roof Height

Ss = 3.00
Seismic

22.78 sq.ft
Module Area

LANDSCAPE
Orientation

CROSS-SLOPE
Rail Direction

SM
Rail Type

PRO SERIES
Clamp

Solarhooks CT5
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)	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			
0	B	0-7	141	141	141	141	141	141	141	141	141	141	141	141	141	134	141	141	101	141	138	77	141	122	59	141	92	50	134	72	44	121	61	38	104	53	34	91	47	45	
		7-27	113	113	113	113	113	113	113	113	113	113	113	113	113	99	113	113	88	113	113	78	113	113	63	113	94	54	113	77	47	113	64	41	113	56	36	103	50	49	
		27-45	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	98	98	98	86	86	86	76	76	76	67	67	67	60	60	60		
	C	0-7	141	141	139	141	141	131	141	140	83	141	134	65	141	121	59	141	101	53	140	87	49	131	66	41	111	56	35	94	49	46	81	43	41	70	37	36	62	50	92
		7-27	113	113	108	113	113	93	113	113	81	113	113	71	113	113	63	113	103	58	113	90	53	113	71	45	113	59	38	106	51	50	91	45	44	79	40	39	69	35	94
		27-45	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	103	103	103	95	95	95	82	82	82	71	71	71	62	62	62	55	55	55	49	49	49	44	44	44
D	0-7	141	141	95	141	136	69	141	126	60	141	104	54	140	88	49	135	75	45	131	65	41	108	55	35	91	47	45	77	41	39	66	36	34	58	47	90	52	42	27	
	7-27	113	113	86	113	113	74	113	113	65	113	105	58	113	91	53	113	80	48	113	70	44	113	58	37	102	50	48	87	43	42	74	38	37	65	50	92	57	45	29	
	27-45	105	105	105	105	105	105	105	105	105	105	105	105	96	96	96	88	88	88	81	81	69	69	69	60	60	60	53	53	53	47	47	47	42	42	42	38	38	38		
10	B	0-7	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	77	100	100	59	100	92	50	100	72	44	100	61	38	100	53	34	91	47	45		
		7-27	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	78	98	98	63	98	94	54	98	77	47	98	64	41	93	56	36	87	50	49		
		27-45	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	86	86	86	76	76	76	67	67	67	60	60	60	
	C	0-7	100	100	100	100	100	100	100	83	100	65	100	100	59	100	100	53	100	87	49	100	66	41	100	56	35	94	49	46	81	43	41	70	37	36	62	50	92		
		7-27	98	98	98	98	98	98	98	81	98	98	71	98	98	63	98	58	98	90	53	98	71	45	96	59	38	88	51	50	82	45	44	75	40	39	69	35	94		
		27-45	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	86	86	86	76	76	76	67	67	67	60	60	60	
D	0-7	100	100	95	100	100	69	100	100	60	100	100	54	100	88	49	100	75	45	100	65	41	100	55	35	91	47	45	77	41	39	66	36	34	58	47	90	52	42	27	
	7-27	101	101	86	101	101	74	101	101	65	101	101	58	101	91	53	101	80	48	101	70	44	95	58	37	87	50	48	79	43	42	73	38	37	65	50	92	57	45	29	
	27-45	95	95	95	95	95	95	95	95	95	95	95	95	95	95	88	88	88	81	81	69	69	69	60	60	60	53	53	53	47	47	47	42	42	42	38	38	38			
20	B	0-7	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	59	70	70	50	70	70	44	70	61	38	70	53	34	70	47	45			
		7-27	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	63	71	71	54	70	70	47	67	64	41	64	56	36	61	50	49			
		27-45	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	67	67	60	60	60	
	C	0-7	70	70	70	70	70	70	70	70	70	65	70	70	59	70	53	70	70	49	70	66	41	70	56	35	70	49	46	70	43	41	67	37	36	62	50	92			
		7-27	71	71	71	71	71	71	71	71	71	71	71	71	71	71	58	71	71	53	71	69	45	65	59	38	62	51	50	59	45	44	56	40	39	53	35	94			
		27-45	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	71	71	62	62	62	55	55	55	49	49	49	44	44	44	
D	0-7	70	70	70	70	70	69	70	70	60	70	70	54	70	70	49	70	45	70	65	41	70	55	35	70	47	45	69	41	39	66	36	34	58	47	90	52	42	27		
	7-27	71	71	71	71	71	71	71	71	65	71	71	58	71	71	53	71	71	48	69	69	44	65	58	37	61	50	48	58	43	42	55	38	37	52	50	92	49	45	29	
	27-45	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	69	69	69	60	60	60	53	53	53	47	47	47	42	42	42	38	38	38				
30	B	0-7	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	59	68	68	50	68	68	49	68	43	41	65	37	36	62	50	92				
		7-27	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	54	62	62	47	62	62	41	62	56	36	61	50	49		
		27-45	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	57	57	57		
	C	0-7	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	66	68	66	41	68	56	35	68	49	46	68	43	41	65	37	36	62	50	92	
		7-27	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	54	62	62	47	62	62	41	62	56	36	61	50	49	
		27-45	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	57	57	57	
D	0-7	70	70	70	70	70	69	70	70	60	70	70	54	70	70	49	70	45	70	65	41	70	55	35	70	47	45	69	41	39	66	36	34	58	47	90	52	42	27		
	7-27	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66		
	27-45	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	59	59	59	53	53	53	47	47	47	42	42	42	38	38	38
40	B	0-7	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	50	57	57	44	57	37	57	53	34	57	47	45			
		7-27	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	47	53	53	36	53	50	49				
		27-45	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50		
	C	0-7	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57																			



11

30 ft

Roof Height

$S_s = 3.0$
Seismic

22.78 sq.ft

LANDSCAPE

CROSS-SLOPE
Rail Direction

SM
Rail Type

PRO SERIES
Clamp

Solarhooks CT5

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

[illegible]

• Cells with an asterisks 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.

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.



30 ft
Roof Height

Ss = 1.25
Seismic

18.66 sq.ft
Module Area

ORIENTATION

CROSS-SLOPE
Rail Direction

SM
Rail Type

UAF

Clamp

Solarhooks CT5

Attachment

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)			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												
0	B	0-7	87	87	87	87	87	87	87	87	74	87	87	63	87	87	55	87	86	48	87	76	42	87	61	36	87	50	31	82	42	26	71	37	23	62	32	20	54	29	18						
		7-27	88	88	88	88	88	81	88	88	71	88	88	63	88	88	57	88	87	51	88	78	46	88	64	39	88	53	33	88	45	29	79	39	25	69	34	22	61	30	19						
		27-45	90	90	90	90	90	90	90	90	90	90	90	90	90	90	84	84	84	84	78	78	78	68	68	68	59	59	59	52	52	46	46	46	41	41	41	37	37	37							
	C	0-7	87	87	61	87	87	51	87	79	44	87	69	39	87	61	36	87	54	32	87	48	30	77	40	25	65	34	21	56	30	19	48	26	16	42	23	22	37	20	19						
		7-27	88	88	61	88	88	54	88	81	47	88	72	42	88	64	38	88	57	35	88	51	32	87	42	27	73	36	23	62	31	20	54	27	17	47	24	23	42	21	21						
		27-45	90	90	90	87	87	87	80	80	80	73	73	73	67	67	67	62	62	62	58	58	58	50	50	50	43	43	43	38	38	38	34	34	34	30	30	30	27	27	27						
D	0-7	87	84	47	87	72	41	87	63	36	87	55	33	87	49	30	84	44	27	76	40	25	64	33	21	54	29	18	46	25	16	40	22	21	35	19	18	31	17	16							
	7-27	88	86	50	88	75	44	88	65	39	88	58	35	88	52	32	88	46	29	86	42	27	71	35	23	60	30	19	52	26	17	45	23	22	39	20	20	35	18	17							
	27-45	83	83	83	75	75	75	69	69	69	63	63	63	58	58	58	53	53	53	49	49	49	42	42	42	42	43	43	43	38	38	38	34	34	30	26	26	23	23	23							
10	B	0-7	62	62	62	62	62	62	62	62	62	62	62	62	62	55	62	62	42	62	62	42	62	61	36	62	50	31	62	42	26	62	37	23	62	32	20	54	29	18							
		7-27	62	62	62	62	62	62	62	62	62	62	62	62	62	62	57	62	62	46	62	62	46	62	62	39	62	53	33	62	45	29	59	39	25	55	34	22	52	30	19						
		27-45	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	68	68	68	59	59	59	52	52	46	46	46	41	41	41	37	37	37							
	C	0-7	62	62	61	62	62	51	62	62	44	62	62	39	62	61	36	62	54	32	62	48	30	62	40	25	62	34	21	56	30	19	48	26	16	42	23	22	37	20	19						
		7-27	62	62	61	62	62	54	62	62	47	62	62	42	62	62	38	62	57	35	62	51	32	61	42	27	56	36	23	52	31	20	49	27	17	45	24	23	42	21	21						
		27-45	76	76	76	76	76	76	76	76	76	76	73	73	73	67	67	67	62	62	62	58	58	58	50	50	50	43	43	43	38	38	38	34	34	30	30	30	27	27	27						
D	0-7	62	62	47	62	62	41	62	62	36	62	55	33	62	49	30	62	44	27	62	40	25	62	33	21	54	29	18	46	25	16	40	22	21	35	19	18	31	17	16							
	7-27	62	62	50	62	62	44	62	62	39	62	58	35	62	52	32	62	46	29	61	42	27	56	35	23	52	30	19	47	26	17	44	23	22	39	20	20	35	18	17							
	27-45	79	79	79	75	75	75	69	69	69	63	63	63	58	58	58	53	53	53	49	49	49	42	42	42	42	43	43	43	37	37	37	32	32	29	29	26	26	23	23	23						
20	B	0-7	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	42	43	43	36	43	31	43	42	26	43	37	23	43	32	20	43	29	18								
		7-27	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	39	43	43	33	43	29	41	39	25	39	34	22	38	30	19							
		27-45	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	54	54	54	50	50	45	45	45	41	41	41	37	37	37							
	C	0-7	43	43	43	43	43	43	43	43	43	43	43	39	43	43	36	43	43	32	43	43	30	43	40	25	43	34	21	43	30	19	43	26	16	41	23	22	37	20	19						
		7-27	43	43	43	43	43	43	43	43	43	43	43	42	43	43	38	43	43	35	43	43	35	43	32	42	42	27	40	36	23	38	31	20	36	27	17	34	24	23	32	21	21				
		27-45	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	55	53	53	53	48	48	48	43	43	38	38	38	34	34	30	30	27	27	27							
D	0-7	43	43	43	43	43	41	43	43	36	43	43	33	43	43	30	43	43	27	43	40	25	43	33	21	43	29	18	42	25	16	40	22	21	35	19	18	31	17	16							
	7-27	43	43	43	43	43	43	43	43	39	43	43	35	43	43	32	43	43	29	42	42	27	40	35	23	37	30	19	35	26	17	33	23	22	39	20	20	30	18	17							
	27-45	59	59	59	59	59	59	59	59	58	58	58	55	55	55	52	52	52	49	49	49	42	42	42	42	43	43	43	37	37	37	32	32	29	29	26	26	23	23	23							
30	B	0-7	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	36	42	31	42	42	26	42	37	23	42	32	20	42	29	18								
		7-27	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	39	43	43	33	43	29	41	39	25	39	34	22	38	30	19							
		27-45	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	38	38	35	35	35								
	C	0-7	42	42	42	42	42	42	42	42	42	42	42	39	42	42	36	42	42	32	42	42	30	42	40	25	42	34	21	42	30	19	42	26	16	40	23	22	37	20	19						
		7-27	43	43	43	43	43	43	43	43	43	43	43	42	43	43	38	43	43	35	43	43	35	43	32	42	42	27	40	36	23	38	31	20	36	27	17	34	24	23	32	21	21				
		27-45	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	39	39	36	36	33	33	30	27	27	27		
D	0-7	43	43	43	43	43	41	43	43	36	43	43	33	43	43	30	43	43	27	43	40	25	43	33	21	43	29	18	42	25	16	40	22	21	35	19	18	31	17	16							
	7-27	43	43	43	43	43	43	43	43	39	43	43	35	43	43	32	43	43	29	42	42	27	40	35	23	37	30	19	35	26	17	33	23	22	39	20	20	30	18	17							
	27-45	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	40	40	40	40	36	36	36	32	32	29	29	26	26	26	23	23	23						
40	B	0-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35						
		7-27	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34					
		27-45	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32					
	C	0-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	34	21	35	30	19	34	26	16	33	23	22	32	20	19					
		7-27	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34					
		27-45	32	3																																											

* Cells with an astrisks 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.

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.



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

[illegible]

* Cells with an astrisks 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.

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.



• Cells with an asterisks 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.

16 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.



• 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.

~~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.



ASCE 7-10
Design Standard

II
Risk Category

30 ft
Roof Height

Ss = 3.00
Seismic

18.66 sq.ft
Module Area

PORTRAIT
Orientation

CROSS-SLOPE
Rail Direction

SM
Rail Type

UAF
Clamp

Solarhooks CT5
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)	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											
0	B	0-7	87	87	87	87	87	87	87	87	74	87	63	87	87	55	87	86	48	87	76	42	87	61	36	87	50	31	82	42	26	71	37	23	62	32	20	54	29	18						
		7-27	74	74	74	74	74	74	74	71	74	74	63	74	74	57	74	74	51	74	74	46	74	64	39	74	53	33	74	45	29	74	39	25	69	34	22	61	30	19						
		27-45	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	59	59	59	52	52	46	46	46	41	41	41	37	37	37								
	C	0-7	87	87	61	87	87	51	87	79	44	87	69	39	87	61	36	87	54	32	87	48	30	77	40	25	65	34	21	56	30	19	48	26	16	42	23	22	37	20	19					
		7-27	74	74	61	74	74	54	74	47	74	72	42	74	64	38	74	57	35	74	51	32	74	42	27	73	36	23	62	31	20	54	27	17	47	24	23	42	21	21						
		27-45	68	68	68	68	68	68	68	68	68	68	68	68	67	67	62	62	62	62	58	58	50	50	50	43	43	43	38	38	38	34	34	34	30	30	30	27	27	27						
10	D	0-7	87	84	47	87	72	41	87	63	36	87	55	33	87	49	30	84	44	27	76	40	25	64	33	21	54	29	18	46	25	16	40	22	21	35	19	18	31	17	16					
		7-27	74	74	50	74	74	44	74	65	39	74	58	35	74	52	32	74	46	29	74	42	27	71	35	23	60	30	19	52	26	17	45	23	22	39	20	20	35	18	17					
		27-45	68	68	68	68	68	68	68	68	68	63	63	63	58	58	58	53	53	49	49	49	42	42	42	37	37	37	32	32	32	29	29	29	26	26	26	23	23	23						
	B	0-7	62	62	62	62	62	62	62	62	62	62	62	62	55	62	62	48	62	62	42	62	61	36	62	50	31	62	42	26	62	37	23	62	32	20	54	29	18							
		7-27	62	62	62	62	62	62	62	62	62	62	62	62	57	62	62	51	62	62	46	62	62	39	62	53	33	62	45	29	59	39	25	55	34	22	52	30	19							
		27-45	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	52	52	46	46	46	41	41	41	37	37	37							
20	C	0-7	62	62	61	62	62	51	62	62	44	62	62	39	62	61	36	62	54	32	62	48	30	62	40	25	62	34	21	56	30	19	48	26	16	42	23	22	37	20	19					
		7-27	62	62	61	62	62	54	62	62	47	62	62	42	62	62	38	62	57	35	62	51	32	61	42	27	56	36	23	52	31	20	49	27	17	45	24	23	42	21	21					
		27-45	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	58	58	58	50	50	50	43	43	43	38	38	38	34	34	34	30	30	30	27	27	27			
	D	0-7	62	62	47	62	62	41	62	62	36	62	55	33	62	49	30	62	44	27	62	40	25	62	33	21	54	29	18	46	25	16	40	22	21	35	19	18	31	17	16					
		7-27	62	62	50	62	62	44	62	62	39	62	58	35	62	52	32	62	46	29	61	42	27	56	35	23	52	30	19	47	26	17	44	23	22	39	20	20	35	18	17					
		27-45	60	60	60	60	60	60	60	60	60	60	60	60	58	58	58	53	53	49	49	49	42	42	42	37	37	37	32	32	32	29	29	29	26	26	26	23	23	23						
30	B	0-7	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	42	43	43	36	43	43	31	43	42	26	43	37	23	43	32	20	43	29	18						
		7-27	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	39	43	43	33	43	43	29	41	39	25	39	34	22	38	30	19						
		27-45	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	45	45	45	41	41	41	37	37	37					
	C	0-7	43	43	43	43	43	43	43	43	43	43	39	43	43	36	43	43	32	43	43	30	43	40	25	43	34	21	43	30	19	43	26	16	41	23	22	37	20	19						
		7-27	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43					
		27-45	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46	46					
40	D	0-7	43	43	43	43	43	41	43	36	43	33	43	33	43	30	43	43	27	43	40	25	43	33	21	43	29	18	42	25	16	40	22	21	35	19	18	31	17	16						
		7-27	43	43	43	43	43	43	43	43	43	43	39	43	33	43	35	43	32	43	43	32	43	35	43	43	35	43	32	42	27	40	36	23	38	31	20	36	27	17	34	24	23	32	21	21
		27-45	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48	48			
	B	0-7	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	36	42	42	31	42	42	26	42	37	23	42	32	20	42	29	18						
		7-27	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39				
		27-45	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37				
50	C	0-7	42	42	42	42	42	42	42	42	42	42	42	42	42	36	42	42	32	42	42	30	42	40	25	42	34	21	42	30	19	42	26	16	40	22	21	35	19	18						
		7-27	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39				
		27-45	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37				
	D	0-7	43	43	43	43	43	41	43	36	43	33	43	33	43	30	43	43	27	43	40	25	43	33	21	43	29	18	42	25	16	40	22	21	35	19	18	31	17	16						
		7-27	41	41	41	41	41	41	41	41	41	41	35	41	32	41	32	41	29	41	41	27	40	35	23	37	30	19	35	26	17	33	23	22	32	20	20	30	18	17						
		27-45	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39				



• Cells with an asterisks 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.

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.



30 ft
Roof Height

Ss = 3.00

18.66 sq.ft

Module Area

LANDSCAPE

Orientation

CROSS-SLOPE

SM
Rail Type

UAF

Solarhooks CT5

Attachment

SPAN TABLES

[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.

~~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.



ASCE 7-10
Design Standard

II
Risk Category

30 ft
Roof Height

Ss = 3.00
Seismic

22.78 sq.ft
Module Area

PORTRAIT
Orientation

CROSS-SLOPE
Rail Direction

SM
Rail Type

UAF
Clamp

Solarhooks CT5
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)	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			
0	B	0-7	73	73	73	73	73	73	73	73	62	73	73	53	73	73	46	73	72	40	73	64	35	73	51	30	73	42	26	68	35	22	59	31	19	51	27	17	45	24	23
		7-27	62	62	62	62	62	62	62	62	60	62	62	53	62	62	47	62	62	43	62	62	38	62	53	32	62	44	28	62	38	24	62	32	21	58	29	18	51	25	16
		27-45	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	57	57	57	49	49	44	28	62	38	24	62	32	21	58	29	18	51	25
	C	0-7	73	73	51	73	73	43	73	66	37	73	58	33	73	51	30	73	45	27	73	40	25	65	33	21	54	29	18	47	25	15	40	22	21	35	19	18	31	17	16
		7-27	62	62	51	62	62	45	62	62	40	62	60	35	62	53	32	62	48	29	62	43	27	62	35	23	61	30	19	52	26	17	45	23	22	39	20	19	35	18	17
		27-45	58	58	58	58	58	58	58	58	58	58	58	58	58	58	56	56	52	52	48	48	48	41	41	41	36	36	36	32	32	28	28	28	25	25	22	22	22	22	
D	0-7	73	70	39	73	60	34	73	52	30	73	46	27	73	41	25	71	36	23	64	33	21	53	28	18	45	24	23	39	21	20	34	18	17	29	16	15	26	21	19	
	7-27	62	62	42	62	62	37	62	55	33	62	48	30	62	43	27	62	39	24	62	35	22	60	30	19	50	25	16	43	22	21	37	19	19	33	17	16	29	23	16	
	27-45	58	58	58	58	58	58	58	58	58	58	53	53	48	48	48	45	45	41	41	41	35	35	35	31	31	31	27	27	27	24	24	24	21	21	21	19	19	19		
10	B	0-7	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	
		7-27	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	52	
		27-45	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	
	C	0-7	52	52	51	52	52	43	52	52	37	52	52	33	52	51	30	52	45	27	52	40	25	52	33	21	52	29	18	47	25	15	40	22	21	35	19	18	31	17	16
		7-27	52	52	51	52	52	45	52	52	40	52	52	35	52	32	32	52	48	29	52	43	27	51	35	23	47	30	19	44	26	17	41	23	22	38	20	19	35	18	17
		27-45	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49	49
D	0-7	52	52	39	52	52	34	52	52	30	52	46	27	52	41	25	52	36	23	52	33	21	52	28	18	45	24	23	39	21	20	34	18	17	29	16	15	26	21	19	
	7-27	52	52	42	52	52	37	52	52	33	52	48	30	52	43	27	52	39	24	51	35	22	47	30	19	43	25	16	40	22	21	37	19	19	33	17	16	29	23	16	
	27-45	51	51	51	51	51	51	51	51	51	51	51	51	51	48	48	45	45	41	41	41	35	35	35	31	31	31	27	27	27	24	24	24	21	21	21	19	19	19		
20	B	0-7	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
		7-27	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
		27-45	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
	C	0-7	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
		7-27	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
		27-45	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
D	0-7	36	36	36	36	36	34	36	36	30	36	36	27	36	36	25	36	36	23	36	33	21	36	28	18	36	24	23	35	21	20	34	18	17	29	16	15	26	21	19	
	7-27	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
	27-45	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
30	B	0-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
		7-27	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
		27-45	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	
	C	0-7	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	
		7-27	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
		27-45	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	
D	0-7	36	36	36	36	36	34	36	36	30	36	36	27	36	36	25	36	36	23	36	33	21	36	28	18	36	24	23	35	21	20	34	18	17	29	16	15	26	21	19	
	7-27	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35		
	27-45	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33		
40	B	0-7	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	
		7-27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27		
		27-45	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	
	C	0-7	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29															



30 ft
Roof Height

Ss = 3.00
Seismic

22.78 sq.ft

LANDSCAPE

CROSS-SLOPE
Rail Direction

SM
Rail Type

UAF

Solarhooks CT5

Attachment

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)	Basic Wind Speed (mph)																																															
			Roof Wind Zone																																				Roof Edge 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	1	2	3												
0	B	0-7	141	141	141	141	141	141	141	141	141	141	141	141	141	134	141	141	101	141	138	77	141	122	59	141	92	50	134	72	44	121	61	38	104	53	34	91	47	30										
		7-27	113	113	113	113	113	113	113	113	113	113	113	113	113	99	113	113	88	113	113	78	113	113	63	113	94	54	113	77	47	113	64	41	113	56	36	103	50	32										
		27-45	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	98	98	86	86	86	76	76	67	67	67	60	60	60	60											
	C	0-7	141	141	139	141	141	131	141	140	83	141	134	65	141	121	59	141	101	53	140	87	49	131	66	41	111	56	35	94	49	31	81	43	41	70	37	36	62	33	32									
		7-27	113	113	108	113	113	93	113	113	81	113	113	71	113	113	63	113	103	58	113	90	53	113	71	45	113	59	38	106	51	33	91	45	44	79	40	39	69	35	34									
		27-45	105	105	105	105	105	93	105	105	105	105	105	105	105	105	105	103	103	103	95	95	95	82	82	82	71	71	71	62	62	62	55	55	55	49	49	49	44	44	44									
	D	0-7	141	141	95	141	136	69	141	126	60	141	104	54	140	88	49	135	75	45	131	65	41	108	55	35	91	47	30	77	41	39	66	36	34	58	31	30	52	42	27									
		7-27	113	113	86	113	113	74	113	113	65	113	105	58	113	91	53	113	80	48	113	70	44	113	58	37	102	50	32	87	43	42	74	38	37	65	33	32	57	45	29									
		27-45	105	105	105	105	105	105	105	105	105	105	105	105	105	105	96	96	88	88	81	81	81	69	69	69	60	60	60	53	53	53	47	47	47	42	42	42	38	38	38									
10	B	0-7	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	77	100	100	59	100	92	50	100	72	44	100	61	38	100	53	34	91	47	30											
		7-27	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	98	78	98	98	63	98	94	54	98	77	47	98	64	41	93	56	36	87	50	32											
		27-45	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	86	86	86	76	76	67	67	67	60	60	60											
	C	0-7	100	100	100	100	100	100	100	100	83	100	100	65	100	100	59	100	100	53	100	87	49	100	66	41	100	56	35	94	49	31	81	43	41	70	37	36	62	33	32									
		7-27	98	98	98	98	98	93	98	98	81	98	98	71	98	98	63	98	98	58	98	90	53	98	71	45	96	59	38	88	51	33	82	45	44	75	40	39	69	35	34									
		27-45	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	92	82	82	82	71	71	71	62	62	62	55	55	55	49	49	44	44	44					
	D	0-7	100	100	95	100	100	69	100	100	60	100	100	54	100	88	49	100	75	45	100	65	41	100	55	35	91	47	30	77	41	39	66	36	34	58	31	30	52	42	27									
		7-27	101	101	86	101	101	74	101	101	65	101	101	58	101	91	53	101	80	48	101	70	44	95	58	37	87	50	32	79	43	42	73	38	37	65	33	32	57	45	29									
		27-45	95	95	95	95	95	95	95	95	95	95	95	95	95	95	88	88	88	81	81	81	69	69	69	60	60	60	53	53	53	47	47	47	42	42	42	38	38	38										
20	B	0-7	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	70	59	70	70	50	70	72	44	70	61	38	70	53	34	70	47	30												
		7-27	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	63	71	71	54	70	70	47	67	64	41	64	56	36	61	50	32											
		27-45	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	67	67	60	60	60										
	C	0-7	70	70	70	70	70	70	70	70	70	70	65	70	70	59	70	53	70	70	49	70	66	41	70	56	35	70	49	31	70	43	41	67	37	36	62	33	32											
		7-27	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71							
		27-45	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72	72							
	D	0-7	70	70	70	70	70	69	70	70	60	70	70	54	70	70	49	70	45	70	65	41	70	55	35	70	47	30	69	41	39	66	36	34	58	31	30	52	42	27										
		7-27	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71	71							
		27-45	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76	76							
30	B	0-7	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	59	68	68	50	68	68	44	68	61	38	68	53	34	68	47	30												
		7-27	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62								
		27-45	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59							
	C	0-7	68	68	68	68	68	68	68	68	68	68	68	65	68	68	59	68	58	68	68	49	68	66	41	68	56	35	68	49	31	68	43	41	65	37	36	62	33	32										
		7-27	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62	62								
		27-45	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59							
	D	0-7	70	70	70	70	70	69	70	70	60	70	70	54	70	70	49	70	45	70	65	41	70	55	35	70	47	30	69	41	39	66	36	34	58	31	30	52	42	27										
		7-27	66	66	66	66	66	66	66	66	66	66	66	65	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66	66							
		27-45	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63	63							
40	B	0-7	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57								
		7-27	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53								
		27-45	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50							
	C	0-7	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	57	49	57	57	41	57	56	35	57	49	31	56	43	41	55	37	36	53	33	32										
		7-27	53	53	53	53	53	53	53	53	53																																							

* Cells with an asterisks 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.

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.



Category
II

30 ft

Roof Height

Ss = 3.00
Seismic

22.78 sq.ft

LANDSCAPE

CROSS-SLOPE
Rail Direction

SM
Rail Type

UAF

Clamp

Solarhooks CT5

SPAN TABLES

[illegible]

• Cells with an asterisks 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.

16 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.