

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

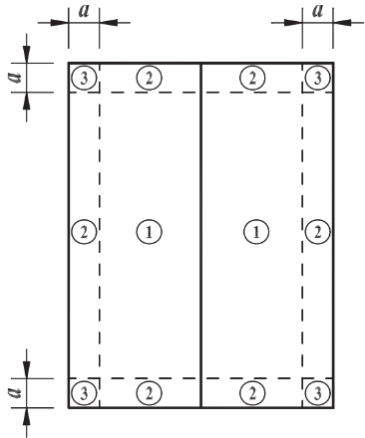
Seismic Design Assumptions

- 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

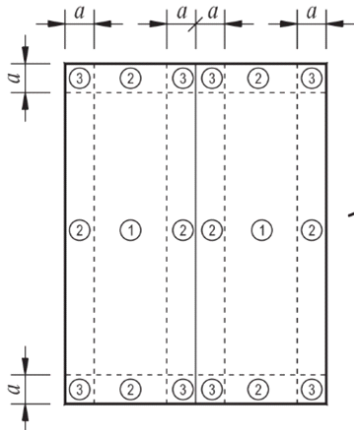
Array Assumptions

- 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.

*Flashloc DUO for OSB	
Y+	
Y-	Alternate orientation not allowed



11

30 ft
Roof Height

Ss = 1.25
Seismic

18.66 sq.ft
Module Area

LANDSCAPE

CROSS-SLOPE
Rail Direction

SM
Rail Type

PRO SERIES
Clamp

Flashloc DUO OSB

SPAN TABLES

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		
			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	56	56	41	56	56	36	56	52	32	56	47	29	56	42	26	56	38	24	56	35	22	56	29	18	48	25	16	41	22	13	35	19	12	31	16	10	27	15	9
		7-27	56	56	44	56	56	39	56	55	35	56	50	31	56	45	28	56	41	26	56	37	23	56	31	20	53	26	17	45	23	14	39	20	13	35	17	11	31	15	10
		27-45	58	58	58	58	58	58	58	58	58	58	58	58	58	56	56	56	52	52	49	49	49	43	43	43	38	38	38	33	33	33	30	28	27	25	24	22	22		
	C	0-7	56	45	28	56	40	25	56	36	22	56	32	20	56	29	18	51	27	17	46	24	15	39	20	13	33	17	11	28	15	9	25	13	12	22	11	11	19	10	10
		7-27	56	48	30	56	43	27	56	38	24	56	34	22	56	31	20	56	28	18	51	26	16	43	22	14	36	18	12	31	16	10	27	14	13	24	12	12	21	11	10
		27-45	58	58	58	54	54	54	50	50	50	46	46	46	43	43	43	39	39	39	37	37	37	32	31	31	28	26	26	24	23	23	22	20	19	17	17	15	15		
	D	0-7	56	38	23	56	34	21	56	30	19	52	27	17	46	24	15	42	22	14	38	20	13	32	17	11	27	15	9	24	13	12	20	11	10	18	10	9	16	13	8
		7-27	56	40	25	56	35	22	56	32	20	56	28	17	46	25	16	47	23	15	43	21	14	36	18	11	30	15	9	26	13	13	23	12	11	20	10	18	14	9	
		27-45	52	52	52	47	47	47	43	43	43	40	40	40	37	37	37	34	34	34	32	31	31	27	26	26	24	22	22	21	19	19	19	17	17	16	15	15	13	13	
10	B	0-7	40	40	40	40	40	36	40	40	32	40	40	29	40	26	40	38	24	40	35	22	40	29	18	40	25	16	40	22	13	35	19	12	31	16	10	27	15	9	
		7-27	40	40	40	40	40	39	40	40	35	40	40	31	40	28	40	26	40	37	23	40	31	20	40	26	17	39	23	14	37	20	13	35	17	11	31	15	10		
		27-45	56	56	56	56	56	56	56	56	56	56	56	55	55	52	52	52	49	49	49	43	43	43	38	38	38	33	33	33	30	28	27	25	24	22	22				
	C	0-7	40	40	28	40	40	25	40	36	22	40	32	20	40	29	18	40	27	17	40	24	15	39	20	13	33	17	11	28	15	9	25	13	12	22	11	11	19	10	10
		7-27																																							

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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

S_s = 1.25
Seismic

22.78 sq.ft
Module Area

ORIENTATION

CROSS-SLOPE
Rail Direction

SM
Rail Type

PRO SERIES
Clamp

Flashloc DUO OSB

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Category
II

30 ft

Roof Height

Ss = 1.25

22.78 sq.ft

ORIENTATION

CROSS-SLOPE
Rail Direction

SM
Rail Type

PRO SERIES
Clamp

Flashloc DUO OSB

SPAN TABLES

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

[illegible]

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30 ft
Roof Height

Ss = 3.00
Seismic

18.66 sq.ft

ORIENTATION

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Rail Direction

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Rail Type

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SPAN TABLES

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0	B	0-7	34	34	24	34	34	21	34	31	19	34	28	17	34	25	15	34	23	14	34	21	13	33	17	11	28	15	9	24	13	8	21	11	7	18	10	6	16	9	8																					
		7-27	34	34	26	34	34	23	34	33	20	34	29	18	34	26	17	34	24	15	34	22	14	34	18	12	31	16	10	27	13	8	23	12	7	20	10	6	18	9	6																					
		27-45	35	35	35	35	35	35	35	35	35	35	35	35	35	34	34	32	32	29	29	29	26	26	22	22	22	22	20	27	13	8	23	12	7	17	16	15	14	13	13																					
	C	0-7	34	27	16	34	24	15	34	21	13	34	19	12	33	17	11	30	16	10	27	14	9	23	12	7	19	10	6	17	9	5	14	8	7	13	7	6	11	6	6																					
		7-27	34	28	18	34	25	16	34	22	14	34	20	13	34	18	11	33	17	10	30	15	10	25	13	8	22	11	7	19	9	6	16	8	8	14	7	7	12	6	6																					
		27-45	35	35	35	33	33	33	30	30	30	28	28	28	26	26	26	24	24	24	22	22	22	19	18	18	17	16	16	15	13	13	13	12	12	11	10	10	9	9																						
D	0-7	34	22	14	34	20	12	34	18	11	30	16	10	27	14	9	25	13	8	23	12	7	19	10	6	16	8	8	14	7	7	12	6	6	11	6	5	9	8	5																						
	7-27	34	24	15	34	21	13	34	19	12	34	17	11	30	15	10	28	14	9	25	13	8	21	11	7	18	9	6	15	8	7	13	7	7	12	6	6	10	8	5																						
	27-45	31	31	31	28	28	28	26	26	26	24	24	24	22	22	22	20	20	19	18	18	16	15	15	14	13	13	12	11	11	11	10	10	10	9	9	8	8	8																							
10	B	0-7	24	24	24	24	24	21	24	24	19	24	24	17	24	15	24	23	14	24	21	13	24	17	11	24	15	9	24	13	8	21	11	7	18	10	6	16	9	8																						
		7-27	24	24	24	24	24	23	24	24	20	24	24	18	24	17	24	24	15	24	22	14	24	18	12	24	16	10	23	13	8	22	12	7	20	10	6	18	9	6																						
		27-45	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	33	33	31	31	29	29	26	26	22	22	22	20	19	19	18	17	17	16	15	15	14	13	13																					
	C	0-7	24	24	16	24	24	15	24	21	13	24	19	12	24	17	11	24	16	10	24	14	9	23	12	7	19	10	6	17	9</																															

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Category
II

30 ft

Roof Height

Ss = 3.00

18.66 sq.ft

Module Area

ORIENTATION

CROSS-SLOPE

SM
Rail Type

PRO SERIES

Flashloc DUO OSB

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)																																						
			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						
60	B	0-7	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	9	9	7	9	9	6	9	9	8			
		7-27	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	8	10	10	7	10	10	6	9	9	6			
		27-45	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	15	15	15	15	15	15	15	14	14	13	13	12	12	12	12	11	11	10	10	10	10			
	C	0-7	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	6	9	9	5	9	8	7	6	9	6	6			
		7-27	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	7	10	9	6	9	7	7	9	6	6			
		27-45	16	16	16	15	15	15	15	15	15	14	14	14	14	14	13	13	13	13	13	12	12	12	11	11	11	11	11	10	10	10	9	9	9	9	9	9			
	D	0-7	10	10	10	10	10	10	10	10	10	10	10	10	10	10	9	10	10	8	10	7	10	10	6	10	8	7	10	8	7	7	10	6	5	9	8	5			
		7-27	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	9	11	11	8	11	11	7	10	9	6	10	8	7	7	9	6	6	9	8	5				
		27-45	16	16	16	16	16	16	15	15	14	14	14	14	14	13	13	13	13	13	13	12	12	12	11	11	11	10	10	10	9	9	9	9	9	8	8	8			
70	B	0-7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	6	8	8			
		7-27	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	6	8	6			
		27-45	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	13	13	13	13	13	12	12	12	11	11	11	11	11	10	10	10	10	10	10			
	C	0-7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	6	8	8	5	8	8	7	8	7	6	8	6	6		
		7-27	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	7	8	8	6	8	7	7	8	6	6				
		27-45	14	14	14	14	14	14	13	13	13	13	13	13	13	13	13	12	12	12	12	12	12	11	11	11</															

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30 ft
Roof Height

Ss = 3.00
Seismic

22.78 sq.ft

ORIENTATION

CROSS-SLOPE
Rail Direction

SM
Rail Type

PRO SERIES

Flashloc DUO OSB

SPAN TABLES

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Category

30 ft

Roof Height

Ss = 3.00
Seismic

22.78 sq.ft

ORIENTATION

CROSS-SLOP

Rail Direction

SM
Rail Type

PRO SERIES

Flashloc DUO OSB
Attachment

SPAN TABLES

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

[illegible]

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

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Category
II

30 ft

Roof Height

$S_s = 1.25$
Seismic

18.66 sq.ft

ORIENTATION

CROSS-SLOPE

Rail Direction

SM
Rail Type

UAF

Clamp

Flashloc DUO OSB
Attachment

SPAN TABLES

[illegible]

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II	sk Category
----	-------------

30 ft
Roof Height

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Seismic

18.66 sq.ft
Module Area

LANDSCAPE

CROSS-SLOPE
Rail Direction

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SPAN TABLES

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			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	56	56	41	56	56	36	56	52	32	56	47	29	56	42	26	56	38	24	56	35	22	56	29	18	48	25	16	41	22	13	35	19	12	31	16	10	27	15	9
		7-27	56	56	44	56	56	39	56	55	35	56	50	31	56	45	28	56	41	26	56	37	23	56	31	20	53	26	17	45	23	14	39	20	13	35	17	11	31	15	10
		27-45	58	58	58	58	58	58	58	58	58	58	58	58	58	56	56	56	52	52	49	49	49	43	43	43	38	38	38	33	33	33	30	28	28	27	25	25	24	22	22
	C	0-7	56	45	28	56	40	25	56	36	22	56	32	20	56	29	18	51	27	17	46	24	15	39	20	13	33	17	11	28	15	9	25	13	8	22	11	11	19	10	10
		7-27	56	48	30	56	43	27	56	38	24	56	34	22	56	31	20	56	28	18	51	26	16	43	22	14	36	18	12	31	16	10	27	14	9	24	12	8	21	11	10
		27-45	58	58	58	54	54	54	50	50	50	46	46	46	43	43	43	39	39	39	37	37	37	32	31	31	28	26	26	24	23	23	22	20	20	19	17	17	17	15	15
	D	0-7	56	38	23	56	34	21	56	30	19	52	27	17	46	24	15	42	22	14	38	20	13	32	17	11	27	15	9	24	13	8	20	11	10	18	10	9	16	8	8
		7-27	56	40	25	56	35	22	56	32	20	56	28	17	46	25	16	47	23	15	43	21	14	36	18	11	30	15	10	26	13	8	23	12	11	20	10	10	18	9	9
		27-45	52	52	52	47	47	47	43	43	43	40	40	40	37	37	37	34	34	34	32	31	31	27	26	26	24	22	22	21	19	19	19	17	17	16	15	15	15	13	13
10	B	0-7	40	40	40	40	40	36	40	40	32	40	40	29	40	40	26	40	38	24	40	35	22	40	29	18	40	25	16	40	22	13	35	19	12	31	16	10	27	15	9
		7-27	40	40	40	40	40	39	40	40	35	40	40	31	40	40	28	40	40	26	40	37	23	40	31	20	40	26	17	39	23	14	37	20	13	35	17	11	31	15	10
		27-45	56	56	56	56	56	56	56	56	56	56	56	56	55	55	52	52	52	49	49	49	43	43	43	38	38	38	33	33	33	30	28	28	27	25	25	24	22	22	
	C	0-7	40	40	28	40	40	25	40	36	22	40	32	20	40	29	18	40	27	17	40	24	15	39	20	13	33	17	11												

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0	B	0-7	34	34	24	34	34	21	34	31	19	34	28	17	34	25	15	34	23	14	34	21	13	33	17	11	28	15	9	24	13	8	21	11	7	18	10	6	16	9	5
		7-27	34	34	26	34	34	23	34	33	20	34	29	18	34	26	17	34	24	15	34	22	14	34	18	12	31	16	10	27	13	8	23	12	7	20	10	6	18	9	6
		27-45	35	35	35	35	35	35	35	35	35	35	35	35	35	34	34	32	32	29	29	29	26	26	22	22	22	22	20	27	19	19	18	17	17	16	15	15	14	13	13
	C	0-7	34	27	16	34	24	15	34	21	13	34	19	12	33	17	11	30	16	10	27	14	9	23	12	7	19	10	6	17	9	5	14	8	5	13	7	6	11	6	6
		7-27	34	28	18	34	25	16	34	22	14	34	20	13	34	18	11	33	17	10	30	15	10	25	13	8	22	11	7	19	9	6	16	8	5	14	7	7	12	6	6
		27-45	35	35	35	33	33	33	30	30	30	28	28	28	26	26	26	24	24	24	22	22	22	19	18	18	17	16	16	15	13	13	13	12	12	11	10	10	9	9	
	D	0-7	34	22	14	34	20	12	34	18	11	30	16	10	27	14	9	25	13	8	23	12	7	19	10	6	16	8	5	14	7	4	12	6	6	11	6	5	9	5	5
		7-27	34	24	15	34	21	13	34	19	12	34	17	11	30	15	10	28	14	9	25	13	8	21	11	7	18	9	6	15	8	5	13	7	7	12	6	6	10	5	5
		27-45	31	31	31	28	28	28	26	26	26	24	24	24	22	22	22	20	20	19	18	18	16	15	15	14	13	13	12	11	11	11	10	10	10	9	9	9	8	8	
10	B	0-7	24	24	24	24	24	21	24	24	19	24	24	17	24	15	24	23	14	24	21	13	24	17	11	24	15	9	24	13	8	21	11	7	18	10	6	16	9	5	
		7-27	24	24	24	24	24	23	24	24	20	24	24	18	24	17	24	24	15	24	22	14	24	18	12	24	16	10	23	13	8	22	12	7	20	10	6	18	9	6	
		27-45	34	34	34	34	34	34	34	34	34	34	34	34	33	33	31	31	31	29	29	26	26	22	22	22	22	20	23	19	19	18	17	17	16	15	15	14	13	13	
	C	0-7	24	24	16	24	24	15	24	21	13	24	19	12	24	17	11	24	16	10	24	14	9	23	12	7	19	10	6	17	9	5	14	8	5	13	7	6	11	6	6

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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.



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Risk Category
II

30 ft
Roof Height

Ss = 3.00
Seismic

18.66 sq.ft

LANDSCAPE

CROSS-SLOPE
Rail Direction

SM
Rail Type

UAF

Flashloc DUO OSB

Attachment

SPAN TABLES

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		
			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	56	56	41	56	56	36	56	52	32	56	47	29	56	42	26	56	38	24	56	35	22	56	29	18	48	25	16	41	22	13	35	19	12	31	16	10	27	15	9
		7-27	56	56	44	56	56	39	56	55	35	56	50	31	56	45	28	56	41	26	56	37	23	56	31	20	53	26	17	45	23	14	39	20	13	35	17	11	31	15	10
		27-45	58	58	58	58	58	58	58	58	58	58	58	58	58	56	56	56	52	52	49	49	49	43	43	43	38	38	38	33	33	33	30	28	28	27	25	25	24	22	22
	C	0-7	56	45	28	56	40	25	56	36	22	56	32	20	56	29	18	51	27	17	46	24	15	39	20	13	33	17	11	28	15	9	25	13	8	22	11	11	19	10	10
		7-27	56	48	30	56	43	27	56	38	24	56	34	22	56	31	20	56	28	18	51	26	16	43	22	14	36	18	12	31	16	10	27	14	9	24	12	8	21	11	10
27-45		58	58	58	54	54	54	50	50	50	46	46	46	43	43	43	39	39	39	37	37	37	32	31	31	28	26	26	24	23	23	22	20	20	19	17	17	17	15	15	
D	0-7	56	38	23	56	34	21	56	30	19	52	27	17	46	24	15	42	22	14	38	20	13	32	17	11	27	15	9	24	13	8	20	11	10	18	10	9	16	8	8	
	7-27	56	40	25	56	35	22	56	32	20	56	28	17	46	25	16	47	23	15	43	21	14	36	18	11	30	15	10	26	13	8	23	12	11	20	10	10	18	9	9	
	27-45	52	52	52	47	47	47	43	43	43	40	40	40	37	37	37	34	34	34	32	31	31	27	26	26	24	22	22	21	19	19	19	17	17	16	15	15	15	13	13	
10	B	0-7	40	40	40	40	40	36	40	40	32	40	40	29	40	40	26	40	38	24	40	35	22	40	29	18	40	25	16	40	22	13	35	19	12	31	16	10	27	15	9
		7-27	40	40	40	40	40	39	40	40	35	40	40	31	40	40	28	40	40	26	40	37	23	40	31	20	40	26	17	39	23	14	37	20	13	35	17	11	31	15	10
		27-45	56	56	56	56	56	56	56	56	56	56	56	56	55	55	52	52	52	49	49	49	43	43	43	38	38	38	33	33	33	30	28	28	27	25	25	24	22	22	
	C	0-7	40	40	28	40	40	25	40	36	22	40	32	20	40	29	18	40	27	17	40	24	15	39	20	13	33	17	11												

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Category
II

30 ft

Roof Height

Ss = 3.00
Seismic

18.66 sq.ft

LANDSCAPE

CROSS-SLOPE

SM

UAF

Clamp

Phloc DUO OSB

SPAN TABLES

[illegible]

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11

30 ft
Roof Height

Ss = 3.00

22.78 sq.ft

LANDSCAPE

CROSS-SLOPE
Rail Direction

SM
Rail Type

UAF

Flashloc DUO OSB

SPAN TABLES

[illegible]

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