



RAIL SPAN IN INCHES - ROOF WIND ZONE 1
Gable Roof $\leq 45^\circ$ and Monoslope Roofs $< 3^\circ$

		Table 1A : Rail Span (Inches) for 1-5/8" Solar Strut										
		Wind Speed, 3-Second Gust (mph)										
		85	90	100	105	110	120	125	130	140	145	150
Roof Snow Load (psf)	0	65	62	57	55	53	49	48	46	44	43	42
	10	53	53	53	53	53	49	48	46	44	43	42
	20	45	45	45	45	45	45	45	45	44	43	42
	30	40	40	40	40	40	40	40	40	40	40	40
	40	37	37	37	37	37	37	37	37	37	37	37

		Table 1B : Rail Span (Inches) for 2-1/2" Solar Strut										
		Wind Speed, 3-Second Gust (mph)										
		85	90	100	105	110	120	125	130	140	145	150
Roof Snow Load (psf)	0	93	88	81	77	75	70	68	66	62	60	59
	10	75	75	75	75	75	70	68	66	62	60	59
	20	64	64	64	64	64	64	64	64	62	60	59
	30	57	57	57	57	57	57	57	57	57	57	57
	40	52	52	52	52	52	52	52	52	52	52	52

RAIL SPAN IN INCHES - ROOF WIND ZONE 1
Monoslope Roof $\leq 10^\circ$

		Table 1A : Rail Span (Inches) for 1-5/8" Solar Strut										
		Wind Speed, 3-Second Gust (mph)										
		85	90	100	105	110	120	125	130	140	145	150
Roof Snow Load (psf)	0	53	51	48	47	46	44	43	42	40	39	38
	10	53	51	48	47	46	44	43	42	40	39	38
	20	45	45	45	45	45	44	43	42	40	39	38
	30	40	40	40	40	40	40	40	40	40	39	38
	40	37	37	37	37	37	37	37	37	37	37	37

		Table 1B : Rail Span (Inches) for 2-1/2" Solar Strut										
		Wind Speed, 3-Second Gust (mph)										
		85	90	100	105	110	120	125	130	140	145	150
Roof Snow Load (psf)	0	75	73	69	67	65	62	60	59	56	55	54
	10	75	73	69	67	65	62	60	59	56	55	54
	20	64	64	64	64	64	62	60	59	56	55	54
	30	57	57	57	57	57	57	57	57	56	55	54
	40	52	52	52	52	52	52	52	52	52	52	52

Notes:

Max. Mean Roof Height 30 ft.

Wind Exposure B

Maximum Deflection Limit L/180

Seismic Design (max)

Seismic Design Category E with $a_p = 1.0$, $R_p = 2.5$, $I_p = 1.0$, $S_{DS} = 2.0g$

Occupancy Category II, Importance Factor 1.0

Topographic Factor 1.0



RAIL SPAN IN INCHES - ROOF WIND ZONE 1

Monoslope roof $10^\circ < \theta < 30^\circ$

		Table 1A : Rail Span (Inches) for 1-5/8" Solar Strut										
		Wind Speed, 3-Second Gust (mph)										
		85	90	100	105	110	120	125	130	140	145	150
Roof Snow Load (psf)	0	58	56	51	49	47	44	43	42	40	39	38
	10	53	53	51	49	47	44	43	42	40	39	38
	20	45	45	45	45	45	44	43	42	40	39	38
	30	40	40	40	40	40	40	40	40	40	39	38
	40	37	37	37	37	37	37	37	37	37	37	37

		Table 1B : Rail Span (Inches) for 2-1/2" Solar Strut										
		Wind Speed, 3-Second Gust (mph)										
		85	90	100	105	110	120	125	130	140	145	150
Roof Snow Load (psf)	0	83	79	73	70	67	63	61	59	56	55	54
	10	75	75	73	70	67	63	61	59	56	55	54
	20	64	64	64	64	64	63	61	59	56	55	54
	30	57	57	57	57	57	57	57	57	56	55	54
	40	52	52	52	52	52	52	52	52	52	52	52

Notes:

Max. Mean Roof Height 30 ft.

Wind Exposure B

Maximum Deflection Limit L/180

Seismic Design (max)

Seismic Design Category E with $a_p = 1.0$, $R_p = 2.5$, $I_p = 1.0$, $S_{DS} = 2.0g$

Occupancy Category II, Importance Factor 1.0

Topographic Factor 1.0