

Design Snow Loads

Ground Snow Load (psf)	Solar Panel Angle (degrees) - measured to grade														
	0	5	10	15	20	25	30	35	40	50	55	60	65	70	
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
5	4.0	4.0	4.0	4.0	3.6	3.3	2.9	2.5	2.2	1.5	1.1	0.7	0.4	0.0	
10	8.0	8.0	8.0	8.0	7.3	6.5	5.8	5.1	4.4	2.9	2.2	1.5	0.7	0.0	
15	12.0	12.0	12.0	12.0	10.9	9.8	8.7	7.6	6.5	4.4	3.3	2.2	1.1	0.0	
20	16.0	16.0	16.0	16.0	14.5	13.1	11.6	10.2	8.7	5.8	4.4	2.9	1.5	0.0	
25	16.8	16.8	16.8	16.8	15.3	13.7	12.2	10.7	9.2	6.1	4.6	3.1	1.5	0.0	
30	20.2	20.2	20.2	20.2	18.3	16.5	14.7	12.8	11.0	7.3	5.5	3.7	1.8	0.0	
35	23.5	23.5	23.5	23.5	21.4	19.2	17.1	15.0	12.8	8.6	6.4	4.3	2.1	0.0	
40	26.9	26.9	26.9	26.9	24.4	22.0	19.5	17.1	14.7	9.8	7.3	4.9	2.4	0.0	
45	30.2	30.2	30.2	30.2	27.5	24.7	22.0	19.2	16.5	11.0	8.2	5.5	2.7	0.0	
50	33.6	33.6	33.6	33.6	30.5	27.5	24.4	21.4	18.3	12.2	9.2	6.1	3.1	0.0	
55	37.0	37.0	37.0	37.0	33.6	30.2	26.9	23.5	20.2	13.4	10.1	6.7	3.4	0.0	
60	40.3	40.3	40.3	40.3	36.7	33.0	29.3	25.7	22.0	14.7	11.0	7.3	3.7	0.0	
65	43.7	43.7	43.7	43.7	39.7	35.7	31.8	27.8	23.8	15.9	11.9	7.9	4.0	0.0	
70	47.0	47.0	47.0	47.0	42.8	38.5	34.2	29.9	25.7	17.1	12.8	8.6	4.3	0.0	
75	50.4	50.4	50.4	50.4	45.8	41.2	36.7	32.1	27.5	18.3	13.7	9.2	4.6	0.0	
80	53.8	53.8	53.8	53.8	48.9	44.0	39.1	34.2	29.3	19.5	14.7	9.8	4.9	0.0	
85	57.1	57.1	57.1	57.1	51.9	46.7	41.5	36.3	31.2	20.8	15.6	10.4	5.2	0.0	
90	60.5	60.5	60.5	60.5	55.0	49.5	44.0	38.5	33.0	22.0	16.5	11.0	5.5	0.0	
95	63.8	63.8	63.8	63.8	58.0	52.2	46.4	40.6	34.8	23.2	17.4	11.6	5.8	0.0	
100	67.2	67.2	67.2	67.2	61.1	55.0	48.9	42.8	36.7	24.4	18.3	12.2	6.1	0.0	

Notes:

1. Values to the left of the blue line are based upon "flat roof" snow loads, while those to the right are based upon "sloped roof" values
2. Snow load and panel angle combinations above the heavy red line are suitable for a rail support spacing of 4'-0".
3. Snow load and panel angle combinations between the heavy red and green lines require a maximum rail support spacing of 3'-0".
4. Snow load and panel angle combinations below the the heavy green line require a rail support spacing of 2'-8".
5. Snow load and panel angle combinations above and right of the the orange line are acceptable for a rail spacing of 5'-4".