



TECHNICAL

WIND & SNOW LOADS

R-BLADE™



SNOW LOAD NOTES

- Spans are provided as a reference for initial sizing and pricing. Consult a licensed engineer for final design and certification of all systems.
- All spans are based on louver openings at the time of extreme snowfall.
- Local authorities have the right to override any reference snow loads provided. Please consult your local building official if you have any questions.
- Spans and loads shown are based on required roof snow load and do not consider drift and other snow elements that must be reviewed by a licensed engineer.
- All spans are based on the design of a simple rectangular system.

Ground Snow Load	Roof Snow Load	Design Load
0	0	25
5	10	25
10	15	25
15	20	25
20	25	30
25	25	30
30	30	35
35	35	40
40	40	45
45	45	50
50	50	55
55	55	60
60	60	65
65	65	70
70	70	75
75	75	80
80	80	85
85	85	90
90	90	95
95	95	100
100	100	105



ROOF SNOW LOAD (OPENED LOUVERS - IN PSF)



MAX BEAM LENGTH	MAX OPEN LOUVER LENGTHS												
	10'	10'6"	11'	11'6"	12'	12'6"	13'	13'6"	14'	14'6"	15'	15'6"	16'
10'	100	100	100	100	100	100	100	100	100	95	95	90	90
10'6"	100	100	100	100	100	100	100	95	95	90	90	85	85
11'	100	100	100	100	95	95	95	90	90	85	80	80	75
11'6"	100	100	100	95	90	90	90	85	85	80	75	75	70
12'	100	95	95	90	85	85	85	80	80	75	70	70	65
12'6"	95	90	90	85	80	80	80	75	75	70	65	65	60
13'	90	85	85	80	75	75	75	70	70	65	65	60	60
13'6"	85	80	80	75	70	70	70	65	65	60	60	55	55
14'	80	75	75	70	65	65	65	65	60	60	60	50	50
14'6"	75	70	70	65	65	60	60	60	55	55	55	50	50
15'	70	65	65	60	60	55	55	55	55	50	50	45	45
15'6"	70	65	60	60	60	55	50	50	50	50	50	45	40
16'	60	60	60	55	55	50	50	50	45	45	45	40	40
16'6"	60	55	60	55	50	50	45	45	45	45	45	35	35
17'	55	55	55	50	45	45	45	45	40	40	40	35	35
17'6"	50	50	50	45	45	40	40	40	40	40	40	30	30
18'	50	45	45	45	40	40	40	40	40	35	35	30	30
18'6"	50	45	45	40	40	40	35	35	35	35	35	25	25
19'	45	45	40	40	40	35	35	35	35	35	30	25	25
19'6"	45	40	40	40	35	35	35	35	35	30	30	25	25
20'	40	40	40	35	35	35	35	30	30	30	30	25	25
20'6"	40	40	35	35	35	30	30	30	30	30	25	25	25
21'	35	35	35	30	30	30	30	30	30	25	25	25	25
21'6"	35	35	35	30	30	30	30	30	25	25	25	25	N/A
22'	35	30	30	30	30	30	25	25	25	25	25	N/A	N/A
22'6"	30	30	30	30	25	25	25	25	25	25	N/A	N/A	N/A
22'10"	30	30	30	25	25	25	25	25	25	N/A	N/A	N/A	N/A

ROOF SNOW LOAD (CLOSED LOUVERS - IN PSF)



MAX BEAM LENGTH	MAX CLOSED LOUVER LENGTHS												
	10'	10'6"	11'	11'6"	12'	12'6"	13'	13'6"	14'	14'6"	15'	15'6"	16'
10'	55	50	45	40	35	35	30	30	25	25	25	25	25
10'6"	55	50	45	40	35	35	30	30	25	25	25	25	25
11'	55	50	45	40	35	35	30	30	25	25	25	25	25
11'6"	55	50	45	40	35	35	30	30	25	25	25	25	25
12'	55	50	45	40	35	35	30	30	25	25	25	25	25
12'6"	55	50	45	40	35	35	30	30	25	25	25	25	25
13'	55	50	45	40	35	35	30	30	25	25	25	25	25
13'6"	55	50	45	40	35	35	30	30	25	25	25	25	25
14'	55	50	45	40	35	35	30	30	25	25	25	25	25
14'6"	55	50	45	40	35	35	30	30	25	25	25	25	25
15'	55	50	45	40	35	35	30	30	25	25	25	25	25
15'6"	55	50	45	40	35	35	30	30	25	25	25	25	25
16'	55	50	45	40	35	35	30	30	25	25	25	25	25
16'6"	55	50	45	40	35	35	30	30	25	25	25	25	25
17'	55	50	45	40	35	35	30	30	25	25	25	25	25
17'6"	55	50	45	40	35	35	30	30	25	25	25	25	25
18'	55	50	45	40	35	35	30	30	25	25	25	25	25
18'6"	50	50	45	40	35	35	30	30	25	25	25	25	25
19'	50	45	45	40	35	35	30	30	25	25	25	25	25
19'6"	50	45	40	40	35	35	30	30	25	25	25	25	25
20'	50	40	40	35	35	35	30	30	25	25	25	25	25
20'6"	40	40	35	35	35	30	30	30	25	25	25	25	25
21'	40	35	35	35	30	30	30	30	25	25	25	25	25
21'6"	35	35	35	30	30	30	30	25	25	25	25	25	N/A
22'	35	35	30	30	30	30	25	25	25	25	25	N/A	N/A
22'6"	35	30	30	30	25	25	25	25	25	25	N/A	N/A	N/A
22'10"	30	30	30	30	25	25	25	25	25	N/A	N/A	N/A	N/A

WIND LOAD NOTES

- Spans are provided as a reference for initial sizing and pricing. Consult a licensed engineer for final design and certification of all systems.
- All spans are based on louver openings at the time of extreme wind event.
- Local authorities have the right to override any reference wind loads provided. Please consult your local building official if you have any questions.
- Spans and loads shown are based on required wind load only. Loads due to snow, earthquake or other factors may be critical in your jurisdiction. Consult a licensed engineer for final design and certification of all systems.
- Loads are based on exposure C wind classification for system's installed at grade. For systems with wind exposure D (on water) or installed above grade, consult a licensed engineer.
- All spans are based on the design of a simple rectangular system.

WIND LOAD (OPENED LOUVERS - IN MPH)



MAX BEAM LENGTH	MAX CLOSED LOUVER LENGTHS												
FT	10'	10'6"	11'	11'6"	12'	12'6"	13'	13'6"	14'	14'6"	15'	15'6"	16'
10'	190	190	190	190	190	190	190	190	190	190	190	190	190
10'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
11'	190	190	190	190	190	190	190	190	190	190	190	190	190
11'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
12'	190	190	190	190	190	190	190	190	190	190	190	190	190
12'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
13'	190	190	190	190	190	190	190	190	190	190	190	190	190
13'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
14'	190	190	190	190	190	190	190	190	190	190	190	190	190
14'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
15'	190	190	190	190	190	190	190	190	190	190	190	190	190
15'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
16'	190	190	190	190	190	190	190	190	190	190	190	190	190
16'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
17'	190	190	190	190	190	190	190	190	190	190	190	190	190
17'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
18'	190	190	190	190	190	190	190	190	190	190	190	190	190
18'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
19'	190	190	190	190	190	190	190	190	190	190	190	190	190
19'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
20'	190	190	190	190	190	190	190	190	190	190	190	190	190
20'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
21'	190	190	190	190	190	190	190	190	190	190	190	190	190
21'6"	190	190	190	190	190	190	190	190	190	190	190	190	190
22'	190	190	190	190	190	190	190	190	190	190	190	190	180
22'6"	190	190	190	190	190	190	190	190	190	190	180	175	170
22'10"	190	190	190	190	190	190	190	190	190	180	175	165	160

WIND LOAD (CLOSED LOUVERS - IN MPH)



MAX BEAM LENGTH	MAX CLOSED LOUVER LENGTHS												
FT	10'	10'6"	11'	11'6"	12'	12'6"	13'	13'6"	14'	14'6"	15'	15'6"	16'
10'	190	190	190	190	175	165	155	140	130	120	115	115	95
10'6"	190	190	190	190	175	165	155	140	130	120	115	115	95
11'	190	190	190	190	175	165	155	140	130	120	115	115	95
11'6"	190	190	190	190	175	165	155	140	130	120	115	115	95
12'	190	190	190	190	175	165	155	140	130	120	115	115	95
12'6"	190	190	190	190	175	165	155	140	130	120	115	115	95
13'	190	190	190	190	175	165	155	140	130	120	115	115	95
13'6"	190	190	190	190	175	165	155	140	130	120	115	115	95
14'	190	190	190	190	175	165	155	140	130	120	115	115	95
14'6"	190	190	190	190	175	165	155	140	130	120	115	115	95
15'	190	190	190	190	175	165	155	140	130	120	115	115	95
15'6"	190	190	190	190	175	165	155	140	130	120	115	115	95
16'	190	190	190	190	175	165	155	140	130	120	115	115	95
16'6"	190	190	190	190	175	165	155	140	130	120	115	115	95
17'	190	190	190	190	175	165	155	140	130	120	115	115	95
17'6"	190	190	190	190	175	165	155	140	130	120	115	115	95
18'	190	190	190	190	175	165	155	140	130	120	115	115	95
18'6"	190	190	190	190	175	165	155	140	130	120	115	115	95
19'	190	190	190	190	175	165	155	140	130	120	115	115	95
19'6"	190	190	190	190	175	165	155	140	130	120	115	115	95
20'	190	190	185	180	175	165	155	140	130	120	115	115	95
20'6"	190	185	170	170	165	160	155	140	130	120	115	115	95
21'	180	175	170	165	155	150	145	140	130	120	115	115	95
21'6"	175	165	160	155	150	145	140	135	125	120	115	115	95
22'	165	160	155	145	140	135	130	125	120	115	115	115	95
22'6"	160	150	145	140	135	125	120	115	115	115	115	115	95
22'10"	155	145	140	135	125	120	115	115	115	115	115	115	95



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