



ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

PBU Roof Panel

29 Gauge (0.0133"), Fy = 60 ksi, Fu = 61.5 ksi								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-span	NEGATIVE WIND LOAD	67.49	37.96	24.30	16.87	11.91	7.98	5.60
	LIVE LOAD/DEFLECTION	48.81	20.59	10.54	6.10	3.84	2.57	1.81
2-span	NEGATIVE WIND LOAD	78.35	44.67	28.77	20.05	14.76	11.32	8.95
	LIVE LOAD/DEFLECTION	66.02	37.49	24.10	16.78	11.80	7.91	5.55
3-span	NEGATIVE WIND LOAD	96.65	55.41	35.78	24.97	18.40	14.12	11.17
	LIVE LOAD/DEFLECTION	81.75	46.61	24.37	14.10	8.88	5.95	4.18
4-span	NEGATIVE WIND LOAD	90.63	51.85	33.46	23.34	17.19	13.19	10.43
	LIVE LOAD/DEFLECTION	76.56	43.59	26.23	15.18	9.56	6.40	4.50

26 Gauge (0.0181"), Fy = 60 ksi, Fu = 61.5 ksi								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-span	NEGATIVE WIND LOAD	106.10	59.68	38.20	26.52	17.48	11.71	8.22
	LIVE LOAD/DEFLECTION	75.46	31.84	16.30	9.43	5.94	3.98	2.79
2-span	NEGATIVE WIND LOAD	130.50	74.21	47.74	33.24	24.46	18.75	14.83
	LIVE LOAD/DEFLECTION	104.42	59.14	37.97	26.19	16.49	11.05	7.76
3-span	NEGATIVE WIND LOAD	161.40	92.19	59.43	41.44	30.45	23.31	17.07
	LIVE LOAD/DEFLECTION	129.63	68.21	34.92	20.21	12.73	8.53	5.99
4-span	NEGATIVE WIND LOAD	151.20	86.23	55.55	38.71	28.50	21.85	17.28
	LIVE LOAD/DEFLECTION	121.28	68.83	37.30	21.58	13.59	9.11	6.40

24 Gauge (0.0223"), Fy = 50 ksi, Fu = 60 ksi								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-span	NEGATIVE WIND LOAD	116.62	65.60	41.98	29.15	21.42	15.90	11.17
	LIVE LOAD/DEFLECTION	102.37	43.19	22.11	12.80	8.06	5.40	3.79
2-span	NEGATIVE WIND LOAD	124.52	70.69	45.44	31.63	23.27	17.84	14.10
	LIVE LOAD/DEFLECTION	114.52	64.93	41.71	29.02	20.38	13.65	9.59
3-span	NEGATIVE WIND LOAD	154.22	87.90	56.61	39.45	29.04	22.26	17.61
	LIVE LOAD/DEFLECTION	142.04	80.80	43.73	25.31	15.94	10.68	7.50
4-span	NEGATIVE WIND LOAD	144.41	82.20	52.90	36.85	27.12	20.79	16.44
	LIVE LOAD/DEFLECTION	132.94	75.53	46.46	26.89	16.93	11.34	7.97

22 Gauge (0.0286"), Fy = 50 ksi, Fu = 60 ksi								
SPAN TYPE	LOAD TYPE	SPAN IN FEET						
		3.0	4.0	5.0	6.0	7.0	8.0	9.0
1-span	NEGATIVE WIND LOAD	155.91	87.70	56.13	38.98	28.64	21.93	15.67
	LIVE LOAD/DEFLECTION	136.57	57.62	29.50	17.07	10.75	7.20	5.06
2-span	NEGATIVE WIND LOAD	167.07	94.95	61.06	42.51	31.28	23.98	18.96
	LIVE LOAD/DEFLECTION	152.86	86.72	55.73	38.78	26.14	17.51	12.30
3-span	NEGATIVE WIND LOAD	206.75	117.99	76.04	53.00	39.03	29.93	23.67
	LIVE LOAD/DEFLECTION	189.46	107.88	56.18	32.51	20.47	13.72	9.63
4-span	NEGATIVE WIND LOAD	193.65	110.35	71.06	49.52	36.45	27.95	22.10
	LIVE LOAD/DEFLECTION	177.36	100.86	59.64	34.52	21.74	14.56	10.23

Notes:

- Strength calculations based on the 2012 AISI Standard "North American Specification for the Design of Cold-formed Steel Structural Members."
- Allowable loads are applicable for uniform loading and spans without overhangs.
- LIVE LOAD/DEFLECTION load capacities are for those loads that push the panel against its supports. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and a deflection limit of L/180 under strength-level loads.
- NEGATIVE WIND LOAD capacities are for those loads that pull the panel away from its supports. The applicable limit states are flexure, shear, combined shear and flexure, and a deflection limit of L/60 under 10-year wind loading.
- Panel pullover and Screw pullout capacity must be checked separately using the screws employed for each particular application when utilizing this load chart.
- Effective yield strength has been determined in accordance with section A2.3.2 of the 2012 NAS specification.
- The use of any accessories other than those provided by the manufacturer may damage panels, void all warranties and will void all engineering data.
- This material is subject to change without notice. Please contact MBCI for most current data.

The Engineering data contained herein is for the expressed use of customers and design professionals. Along with this data, it is recommended that the design professional have a copy of the most current version of the *North American Specification for the Design of Cold-Formed Steel Structural Members* published by the American Iron and Steel Institute to facilitate design. This Specification contains the design criteria for cold-formed steel components. Along with the Specification, the designer should reference the most current building code applicable to the project jobsite in order to determine environmental loads. If further information or guidance regarding cold-formed design practices is desired, please contact the manufacturer.