



ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

WeatherSafe Panel

29 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	89.63	57.36	39.83	29.27	22.41	17.70	14.34
	LIVE LOAD/DEFLECTION - L/60	86.43	63.01	43.76	32.15	24.61	19.45	15.75
	LIVE LOAD/DEFLECTION - L/180	86.43	55.19	31.94	20.11	13.47	9.46	6.90
	LIVE LOAD/DEFLECTION - L/240	80.84	41.39	23.95	15.08	10.11	7.10	5.17
2-span	NEGATIVE WIND LOAD	87.64	58.31	41.41	30.86	23.85	18.96	15.43
	LIVE LOAD/DEFLECTION - L/60	53.12	42.49	35.41	28.28	21.82	17.34	14.10
	LIVE LOAD/DEFLECTION - L/180	53.12	42.49	35.41	28.28	21.82	17.34	14.10
	LIVE LOAD/DEFLECTION - L/240	53.12	42.49	35.41	28.28	21.82	17.34	14.10
3-span	NEGATIVE WIND LOAD	104.87	70.69	50.62	37.92	29.41	23.45	19.12
	LIVE LOAD/DEFLECTION - L/60	60.36	48.29	40.24	34.49	26.97	21.48	17.49
	LIVE LOAD/DEFLECTION - L/180	60.36	48.29	40.24	34.49	26.97	21.48	16.16
	LIVE LOAD/DEFLECTION - L/240	60.36	48.29	40.24	34.49	23.67	16.63	12.12
4-span	NEGATIVE WIND LOAD	99.36	66.68	47.61	35.60	27.58	21.97	17.90
	LIVE LOAD/DEFLECTION - L/60	58.10	46.48	38.73	32.69	25.28	20.11	16.37
	LIVE LOAD/DEFLECTION - L/180	58.10	46.48	38.73	32.69	25.28	20.11	16.37
	LIVE LOAD/DEFLECTION - L/240	58.10	46.48	38.73	32.69	25.28	17.82	12.99

26 Gauge thickness								
Span Type	Load Type	Support Spacing						
		2 Ft.	2.5 Ft.	3 Ft.	3.5 Ft.	4 Ft.	4.5 Ft.	5 Ft.
1-span	NEGATIVE WIND LOAD	130.57	83.56	58.03	42.63	32.64	25.79	20.89
	LIVE LOAD/DEFLECTION - L/60	156.54	107.62	74.74	54.91	42.04	33.22	26.91
	LIVE LOAD/DEFLECTION - L/180	156.54	87.33	50.54	31.83	21.32	14.97	10.92
	LIVE LOAD/DEFLECTION - L/240	127.92	65.50	37.90	23.87	15.99	11.23	8.19
2-span	NEGATIVE WIND LOAD	156.29	102.57	72.25	53.55	41.24	32.71	26.57
	LIVE LOAD/DEFLECTION - L/60	124.77	81.13	56.84	41.99	32.26	25.55	20.73
	LIVE LOAD/DEFLECTION - L/180	124.77	81.13	56.84	41.99	32.26	25.55	20.73
	LIVE LOAD/DEFLECTION - L/240	124.77	81.13	56.84	41.99	32.26	25.55	20.73
3-span	NEGATIVE WIND LOAD	189.76	125.71	89.04	66.23	51.00	40.30	32.64
	LIVE LOAD/DEFLECTION - L/60	153.07	100.16	70.43	52.14	40.12	31.81	25.83
	LIVE LOAD/DEFLECTION - L/180	153.07	100.16	70.43	52.14	40.12	31.40	22.89
	LIVE LOAD/DEFLECTION - L/240	153.07	100.16	70.43	50.05	33.53	23.55	17.17
4-span	NEGATIVE WIND LOAD	178.91	118.14	83.52	62.04	47.85	38.00	30.89
	LIVE LOAD/DEFLECTION - L/60	143.80	93.89	65.94	48.78	37.51	29.73	24.14
	LIVE LOAD/DEFLECTION - L/180	143.80	93.89	65.94	48.78	37.51	29.73	24.14
	LIVE LOAD/DEFLECTION - L/240	143.80	93.89	65.94	48.78	35.72	25.09	18.29

Notes:

- Strength calculations are based on the 2012 S100 AISI "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 capacities are for those loads that push the panel against its support. The applicable limit states are flexure, shear, combined shear and flexure, web crippling at end and interior supports, and the strength-level load deflection limit shown.
- Capacities for LIVE LOAD/DEFLECTION pressure loading are determined as the smaller of the LIVE LOAD/DEFLECTION - Strength and the required deflection limit values listed.
- NEGATIVE WIND LOAD capacities are for those loads that pull the panel away the support. 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 connection capacities need to be checked separately for the particular fasteners employed using tributary area-based connection loads.
- Effective yield strength has been determined in accordance with section A2.3.3 of the 2012 AISI S100 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.