



ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

Rain Guard

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	58.71	37.58	26.09	18.04	12.09	8.49	6.19
	LIVE LOAD/DEFLECTION - L/60	85.23	54.55	37.82	23.82	15.95	11.21	8.17
	LIVE LOAD/DEFLECTION - L/180	42.54	21.78	12.61	7.94	5.32	3.74	2.72
	LIVE LOAD/DEFLECTION - L/240	31.91	16.34	9.45	5.95	3.99	2.80	2.04
2-span	NEGATIVE WIND LOAD	82.97	53.61	37.42	27.58	21.16	16.74	13.58
	LIVE LOAD/DEFLECTION - L/60	57.96	37.26	25.94	19.09	14.63	11.57	9.37
	LIVE LOAD/DEFLECTION - L/180	57.96	37.26	25.94	19.09	13.16	9.24	6.74
	LIVE LOAD/DEFLECTION - L/240	57.96	37.26	23.39	14.73	9.87	6.93	5.05
3-span	NEGATIVE WIND LOAD	91.74	58.71	40.77	29.96	22.93	17.53	12.78
	LIVE LOAD/DEFLECTION - L/60	72.04	46.41	32.35	23.82	18.26	14.44	11.71
	LIVE LOAD/DEFLECTION - L/180	72.04	41.90	24.25	15.27	10.23	7.18	5.24
	LIVE LOAD/DEFLECTION - L/240	61.37	31.42	18.18	11.45	7.67	5.39	3.93
4-span	NEGATIVE WIND LOAD	95.10	60.87	42.27	31.05	23.78	18.61	13.57
	LIVE LOAD/DEFLECTION - L/60	67.37	43.37	30.22	22.24	17.05	13.49	10.93
	LIVE LOAD/DEFLECTION - L/180	67.37	43.37	25.78	16.24	10.88	7.64	5.57
	LIVE LOAD/DEFLECTION - L/240	65.26	33.41	19.34	12.18	8.16	5.73	4.18

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	88.07	56.37	39.14	26.07	17.47	12.27	8.94
	LIVE LOAD/DEFLECTION - L/60	118.25	75.68	52.56	33.21	22.25	15.62	11.39
	LIVE LOAD/DEFLECTION - L/180	59.32	30.37	17.58	11.07	7.42	5.21	3.80
	LIVE LOAD/DEFLECTION - L/240	44.49	22.78	13.18	8.30	5.56	3.91	2.85
2-span	NEGATIVE WIND LOAD	115.07	74.36	51.91	38.26	29.36	23.23	18.84
	LIVE LOAD/DEFLECTION - L/60	86.73	55.81	38.88	28.61	21.93	17.34	14.06
	LIVE LOAD/DEFLECTION - L/180	86.73	55.81	38.88	27.52	18.44	12.95	9.44
	LIVE LOAD/DEFLECTION - L/240	86.73	55.81	32.78	20.64	13.83	9.71	7.08
3-span	NEGATIVE WIND LOAD	137.61	88.07	61.16	44.94	34.40	25.43	18.54
	LIVE LOAD/DEFLECTION - L/60	107.71	69.47	48.45	35.69	27.37	21.65	17.55
	LIVE LOAD/DEFLECTION - L/180	107.71	58.59	33.91	21.35	14.30	10.05	7.32
	LIVE LOAD/DEFLECTION - L/240	85.83	43.94	25.43	16.01	10.73	7.53	5.49
4-span	NEGATIVE WIND LOAD	133.24	86.33	60.36	44.53	34.18	27.06	19.82
	LIVE LOAD/DEFLECTION - L/60	100.76	64.94	45.27	33.33	25.56	20.22	16.39
	LIVE LOAD/DEFLECTION - L/180	100.76	62.36	36.09	22.73	15.22	10.69	7.79
	LIVE LOAD/DEFLECTION - L/240	91.35	46.77	27.07	17.04	11.42	8.02	5.85

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.