



ALLOWABLE UNIFORM LOADS IN POUNDS PER SQUARE FOOT

Rugged Rib 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	72.19	46.20	32.08	23.57	18.05	14.26	10.66
	LIVE LOAD/DEFLECTION - L/60	77.18	49.40	34.30	25.20	19.30	14.40	10.50
	LIVE LOAD/DEFLECTION - L/180	54.67	27.99	16.20	10.20	6.83	4.80	3.50
	LIVE LOAD/DEFLECTION - L/240	41.00	20.99	12.15	7.65	5.12	3.60	2.62
2-span	NEGATIVE WIND LOAD	73.64	47.91	33.58	24.81	19.06	15.10	12.25
	LIVE LOAD/DEFLECTION - L/60	69.26	44.98	31.49	23.25	17.86	14.14	11.47
	LIVE LOAD/DEFLECTION - L/180	69.26	44.98	31.49	23.25	17.86	14.14	11.05
	LIVE LOAD/DEFLECTION - L/240	69.26	44.98	31.49	23.25	16.18	11.36	8.28
3-span	NEGATIVE WIND LOAD	90.29	59.12	41.59	30.80	23.70	18.80	15.26
	LIVE LOAD/DEFLECTION - L/60	85.11	55.58	39.04	28.88	22.22	17.61	14.30
	LIVE LOAD/DEFLECTION - L/180	85.11	55.58	36.82	23.18	15.53	10.91	7.95
	LIVE LOAD/DEFLECTION - L/240	85.11	47.71	27.61	17.39	11.65	8.18	5.96
4-span	NEGATIVE WIND LOAD	84.84	55.43	38.94	28.81	22.16	17.57	14.26
	LIVE LOAD/DEFLECTION - L/60	79.91	52.09	36.54	27.02	20.77	16.46	13.36
	LIVE LOAD/DEFLECTION - L/180	79.91	52.09	36.54	25.30	16.95	11.90	8.68
	LIVE LOAD/DEFLECTION - L/240	79.91	52.06	30.13	18.97	12.71	8.93	6.51

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	112.17	71.79	49.85	36.63	28.04	21.37	15.58
	LIVE LOAD/DEFLECTION - L/60	123.81	79.24	55.03	40.43	30.95	22.23	16.21
	LIVE LOAD/DEFLECTION - L/180	84.41	43.22	25.01	15.75	10.55	7.41	5.40
	LIVE LOAD/DEFLECTION - L/240	63.31	32.41	18.76	11.81	7.91	5.56	4.05
2-span	NEGATIVE WIND LOAD	116.23	76.03	53.45	39.57	30.45	24.14	19.60
	LIVE LOAD/DEFLECTION - L/60	106.44	69.38	48.67	35.98	27.66	21.92	17.79
	LIVE LOAD/DEFLECTION - L/180	106.44	69.38	48.67	35.98	27.66	21.92	16.49
	LIVE LOAD/DEFLECTION - L/240	106.44	69.38	48.67	35.98	24.15	16.96	12.36
3-span	NEGATIVE WIND LOAD	141.63	93.42	66.00	49.01	37.79	30.00	24.39
	LIVE LOAD/DEFLECTION - L/60	130.23	85.49	60.22	44.64	34.38	27.27	22.15
	LIVE LOAD/DEFLECTION - L/180	130.23	85.49	56.90	35.83	24.00	16.86	12.29
	LIVE LOAD/DEFLECTION - L/240	130.23	73.74	42.68	26.87	18.00	12.64	9.22
4-span	NEGATIVE WIND LOAD	133.37	87.72	61.86	45.89	35.36	28.06	22.80
	LIVE LOAD/DEFLECTION - L/60	122.46	80.19	56.41	41.77	32.15	25.49	20.70
	LIVE LOAD/DEFLECTION - L/180	122.46	80.19	56.41	38.71	25.94	18.21	13.28
	LIVE LOAD/DEFLECTION - L/240	122.46	79.67	46.11	29.04	19.45	13.66	9.96

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 ABC 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.