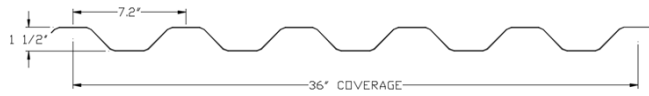




Mega-Rib

Bare & Painted



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (ksi)	WEIGHT (psf)	V _a (kip/ft.)	P _{a_end} (lbs/ft.)	P _{a_int} (lbs/ft.)	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a (kip-in./ft.)	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a (kip-in./ft.)
26	80.0	0.93	0.6927	244.73	294.63	0.0613	0.0676	2.0287	0.0577	0.0575	1.7257

1. Section properties are calculated in accordance with the 2016 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V_a is the allowable shear.
3. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

Span Type	Load Type	Span in Feet															
		3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00	9.50	10.00	10.50	11.00
Single	Positive Wind	110	84	66	54	44	37	32	27	24	21	18	16	14	13	12	11
	Negative Wind	93	71	56	46	38	31	27	23	20	17	15	14	12	11	10	9
	Live	110	84	66	54	44	37	32	27	24	21	18	16	14	13	12	11
	Deflection (L/180)	124	83	58	42	32	24	19	15	12	10	8	7	6	5	4	4
	Deflection (L/240)	93	62	44	32	24	18	14	11	9	7	6	5	4	4	3	3
2 Span	Positive Wind	90	69	55	45	37	31	26	23	20	17	15	14	12	11	10	9
	Negative Wind	104	80	64	52	43	36	31	27	23	20	18	16	14	13	12	11
	Live	90	69	55	45	37	31	26	23	20	17	15	14	12	11	10	9
	Deflection (L/180)	292	195	137	100	75	57	45	36	29	24	20	17	14	12	10	9
	Deflection (L/240)	219	146	103	75	56	43	34	27	22	18	15	12	10	9	8	7
3 Span	Positive Wind	110	85	68	55	46	39	33	28	25	22	19	17	15	14	12	11
	Negative Wind	127	99	79	64	54	45	39	33	29	25	23	20	18	16	15	13
	Live	110	85	68	55	46	39	33	28	25	22	19	17	15	14	12	11
	Deflection (L/180)	228	153	107	78	58	45	35	28	23	19	15	13	11	9	8	7
	Deflection (L/240)	171	115	80	58	44	34	26	21	17	14	11	10	8	7	6	5
4 Span	Positive Wind	103	80	64	52	43	36	31	27	23	20	18	16	14	13	12	11
	Negative Wind	119	93	74	60	50	42	36	31	27	24	21	19	17	15	14	12
	Live	103	80	64	52	43	36	31	27	23	20	18	16	14	13	12	11
	Deflection (L/180)	242	162	114	83	62	48	37	30	24	20	16	14	12	10	8	7
	Deflection (L/240)	182	122	85	62	46	36	28	22	18	15	12	10	9	7	6	5

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Live is the allowable live or snow load.
3. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
4. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
5. The weight of the panel has **NOT** been deducted from the allowable loads.
6. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. H2-1 of the AISI Specification.
7. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
8. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.