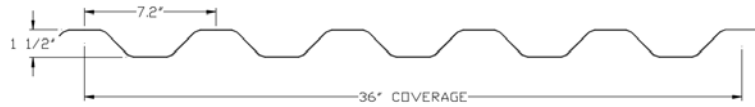




# Mega-Rib

Bare & Painted



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (ksi)	WEIGHT (psf)	V <sub>a</sub> (kip/ft.)	P <sub>a_end</sub> (lbs/ft.)	P <sub>a_int</sub> (lbs/ft.)	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> (kip-in./ft.)	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> (kip-in./ft.)
29	80.0	0.74	0.3543	129.86	152.93	0.0423	0.0434	1.3033	0.0387	0.0360	1.0797

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<sub>a</sub> is the allowable shear.
3. P<sub>a</sub> is the allowable load for web crippling on end & interior supports.
4. I<sub>x</sub> is for deflection determination.
5. S<sub>e</sub> is for bending.
6. M<sub>a</sub> is the allowable bending moment.
7. All values are for one foot of panel width.

## Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	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	70	54	42	34	28	24	20	17	15	13	12	10	9	8	7	7
	Negative Wind	58	44	35	28	23	19	17	14	12	11	9	8	7	7	6	5
	Live	70	54	42	34	28	24	20	17	15	13	12	10	9	8	7	7
	Deflection (L/180)	86	57	40	29	22	17	13	10	8	7	6	5	4	3	3	2
	Deflection (L/240)	64	43	30	22	16	12	10	8	6	5	4	3	3	2	2	2
2 Span	Positive Wind	49	42	34	27	23	19	16	14	12	11	9	8	7	7	6	5
	Negative Wind	64	50	40	33	27	23	20	17	15	13	11	10	9	8	7	7
	Live	49	42	34	27	23	19	16	14	12	11	9	8	7	7	6	5
	Deflection (L/180)	198	133	93	68	51	39	31	24	20	16	13	11	9	8	7	6
	Deflection (L/240)	149	99	70	51	38	29	23	18	15	12	10	8	7	6	5	4
3 Span	Positive Wind	55	48	42	34	28	24	20	17	15	13	12	10	9	8	8	7
	Negative Wind	78	61	49	40	34	28	24	21	18	16	14	13	11	10	9	8
	Live	55	48	42	34	28	24	20	17	15	13	12	10	9	8	8	7
	Deflection (L/180)	155	104	73	53	40	30	24	19	15	13	10	9	7	6	5	5
	Deflection (L/240)	116	78	54	40	30	23	18	14	11	9	8	6	5	5	4	3
4 Span	Positive Wind	53	47	39	32	26	22	19	16	14	12	11	10	9	8	7	6
	Negative Wind	74	58	46	38	31	27	23	20	17	15	13	12	11	9	9	8
	Live	53	47	39	32	26	22	19	16	14	12	11	10	9	8	7	6
	Deflection (L/180)	165	110	77	56	42	32	25	20	16	13	11	9	8	7	6	5
	Deflection (L/240)	124	83	58	42	31	24	19	15	12	10	8	7	6	5	4	3

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.
9. Load Tables are limited to a maximum allowable load of 500 psf.
10. Web crippling values are the more conservative value whether from analytical calculation or testing.