



## TECHNICAL BULLETIN

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No. 07-217-06

### 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	0.72	0.2810	122.72	263.93	0.0500	0.0573	2.0600	0.0470	0.0483	1.7360

- Section properties are calculated in accordance with the 2007 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V<sub>a</sub> is the allowable shear.
- P<sub>a</sub> is the allowable load for web crippling on end & interior supports.
- I<sub>x</sub> is for deflection determination.
- S<sub>e</sub> is for bending.
- M<sub>a</sub> is the allowable bending moment.
- 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	112	85	67	54	45	38	32	28	24	21	19	16	15	13	12	11
	Negative Wind	94	72	57	46	38	32	27	23	20	18	16	14	12	11	10	9
	Live	112	85	67	54	45	38	32	28	24	21	19	16	15	13	12	11
	Deflection (L/180)	101	68	47	34	26	20	15	12	10	8	7	5	5	4	3	3
	Deflection (L/240)	76	51	35	26	19	15	11	9	7	6	5	4	3	3	2	2
2 Span	Positive Wind	76	60	49	41	34	29	25	22	19	17	15	13	12	11	10	9
	Negative Wind	84	68	56	46	39	33	29	25	22	20	17	16	14	13	11	10
	Live	76	60	49	41	34	29	25	22	19	17	15	13	12	11	10	9
	Deflection (L/180)	238	159	112	81	61	47	37	29	24	19	16	14	11	10	8	7
	Deflection (L/240)	178	119	84	61	46	35	27	22	18	14	12	10	8	7	6	5
3 Span	Positive Wind	88	71	58	49	41	35	30	27	23	21	18	16	15	13	12	11
	Negative Wind	96	79	65	55	47	40	35	31	27	24	21	19	17	16	14	13
	Live	88	71	58	49	41	35	30	27	23	21	18	16	15	13	12	11
	Deflection (L/180)	186	124	87	63	48	37	29	23	18	15	13	10	9	7	6	6
	Deflection (L/240)	139	93	65	47	36	27	21	17	14	11	9	8	6	5	5	4
4 Span	Positive Wind	84	68	55	46	39	33	29	25	22	19	17	15	14	12	11	10
	Negative Wind	92	75	62	52	44	38	33	29	25	22	20	18	16	15	13	12
	Live	84	68	55	46	39	33	29	25	22	19	17	15	14	12	11	10
	Deflection (L/180)	198	132	93	67	51	39	30	24	20	16	13	11	9	8	7	6
	Deflection (L/240)	148	99	69	50	38	29	23	18	15	12	10	8	7	6	5	4

Notes:

- Allowable uniform loads are based upon equal span lengths.
- Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
- Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
- Live is the allowable live or snow load.
- Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
- Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
- The weight of the panel has **NOT** been deducted from the allowable loads.
- Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
- Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
- Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.

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