



## TECHNICAL BULLETIN

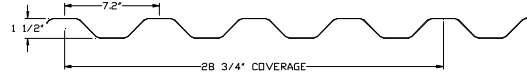
Issue Date : June 1, 2006

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No. 07-215-06

### 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.)
26	50.0	1.13	0.7985	238.26	290.85	0.0880	0.1053	3.1520	0.0880	0.1021	3.0550

- 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 **MUST BE VERIFIED BY TESTS**
- 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 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	171	131	103	84	69	58	49	42	37	32	29	25	23	21	19	17
	Negative Wind	166	127	100	81	67	56	48	41	36	31	28	25	22	20	18	16
	Live	171	131	103	84	69	58	49	42	37	32	29	25	23	21	19	17
	Deflection (L/180)	179	120	84	61	46	35	28	22	18	15	12	10	8	7	6	5
	Deflection (L/240)	134	90	63	46	34	26	21	16	13	11	9	7	6	5	4	4
2 Span	Positive Wind	151	118	94	77	64	54	46	40	35	31	27	24	22	20	18	16
	Negative Wind	155	121	97	79	66	56	48	41	36	32	28	25	22	20	18	17
	Live	151	118	94	77	64	54	46	40	35	31	27	24	22	20	18	16
	Deflection (L/180)	432	289	203	148	111	85	67	54	43	36	30	25	21	18	16	13
	Deflection (L/240)	324	217	152	111	83	64	50	40	32	27	22	19	16	13	12	10
3 Span	Positive Wind	182	143	115	95	79	67	57	50	43	38	34	30	27	25	22	20
	Negative Wind	186	147	118	97	81	69	59	51	45	39	35	31	28	25	23	21
	Live	182	143	115	95	79	67	57	50	43	38	34	30	27	25	22	20
	Deflection (L/180)	338	226	159	116	87	67	52	42	34	28	23	19	16	14	12	10
	Deflection (L/240)	253	170	119	87	65	50	39	31	25	21	17	14	12	10	9	8
4 Span	Positive Wind	172	135	108	89	74	63	54	46	41	36	32	28	25	23	21	19
	Negative Wind	176	138	111	91	76	65	55	48	42	37	33	29	26	24	21	19
	Live	172	135	108	89	74	63	54	46	41	36	32	28	25	23	21	19
	Deflection (L/180)	359	240	169	123	92	71	56	44	36	30	25	21	17	15	13	11
	Deflection (L/240)	269	180	126	92	69	53	42	33	27	22	18	15	13	11	9	8

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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