

TECHNICAL BULLETIN

Issue Date : August 5, 2015

No. 07-0402-15

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	0.6380	246.12	533.00	0.0613	0.0676	2.4277	0.0577	0.0575	2.0663

1. Section properties are calculated in accordance with the 2012 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	132	101	79	64	53	44	38	33	28	25	22	19	17	16	14	13
	Negative Wind	112	86	68	55	45	38	32	28	24	21	19	17	15	13	12	11
	Live	132	101	79	64	53	44	38	33	28	25	22	19	17	16	14	13
	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	104	81	65	53	44	37	31	27	24	21	18	16	15	13	12	11
	Negative Wind	120	94	75	61	51	43	37	32	28	24	22	19	17	15	14	13
	Live	104	81	65	53	44	37	31	27	24	21	18	16	15	13	12	11
	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	127	99	80	65	54	46	39	34	29	26	23	20	18	16	15	14
	Negative Wind	145	114	92	75	63	53	45	39	34	30	27	24	21	19	18	16
	Live	127	99	80	65	54	46	39	34	29	26	23	20	18	16	15	14
	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	120	93	75	61	51	43	37	32	27	24	21	19	17	15	14	13
	Negative Wind	137	107	86	71	59	50	43	37	32	28	25	22	20	18	16	15
	Live	120	93	75	61	51	43	37	32	27	24	21	19	17	15	14	13
	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. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has **NOT** been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.

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