



TECHNICAL BULLETIN

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No. 07-216-06

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	1.13	0.7985	246.12	533.00	0.0860	0.1024	3.6800	0.0860	0.0964	3.4600

- Section properties are calculated in accordance with the 2007 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V_a is the allowable shear.
- P_a is the allowable load for web crippling on end & interior supports.
- I_x is for deflection determination.
- S_e is for bending.
- M_a 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	200	153	121	98	81	68	58	50	43	38	33	30	27	24	22	20
	Negative Wind	188	144	113	92	76	64	54	47	41	36	31	28	25	23	20	19
	Live	200	153	121	98	81	68	58	50	43	38	33	30	27	24	22	20
	Deflection (L/180)	175	117	82	60	45	34	27	21	17	14	12	10	8	7	6	5
	Deflection (L/240)	131	88	61	45	33	26	20	16	13	11	9	7	6	5	4	4
2 Span	Positive Wind	167	131	105	86	72	61	52	45	39	35	31	27	25	22	20	18
	Negative Wind	175	138	111	91	76	64	55	48	42	37	33	29	26	24	21	19
	Live	167	131	105	86	72	61	52	45	39	35	31	27	25	22	20	18
	Deflection (L/180)	422	282	198	144	108	83	65	52	42	35	29	24	21	18	15	13
	Deflection (L/240)	316	212	149	108	81	62	49	39	32	26	22	18	15	13	11	10
3 Span	Positive Wind	200	158	128	105	88	75	64	56	49	43	38	34	31	28	25	23
	Negative Wind	209	166	134	111	93	79	68	59	52	46	40	36	33	29	27	24
	Live	200	158	128	105	88	75	64	56	49	43	38	34	31	28	25	23
	Deflection (L/180)	330	221	155	113	85	65	51	41	33	27	23	19	16	14	12	10
	Deflection (L/240)	248	166	116	85	63	49	38	31	25	20	17	14	12	10	9	7
4 Span	Positive Wind	189	149	120	99	83	70	60	52	46	40	36	32	29	26	23	21
	Negative Wind	198	157	127	104	87	74	64	55	48	43	38	34	30	27	25	23
	Live	189	149	120	99	83	70	60	52	46	40	36	32	29	26	23	21
	Deflection (L/180)	351	235	165	120	90	69	54	43	35	29	24	20	17	15	13	11
	Deflection (L/240)	263	176	123	90	67	52	41	32	26	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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