



TECHNICAL BULLETIN

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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.)
24	50.0	1.17	1.2160	214.67	576.44	0.0970	0.1215	3.6370	0.0970	0.1126	3.3700

- 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	197	151	119	96	80	67	57	49	43	37	33	29	26	24	21	20
	Negative Wind	183	140	110	89	74	62	53	45	39	35	31	27	24	22	20	18
	Live	197	151	119	96	80	67	57	49	43	37	33	29	26	24	21	20
	Deflection (L/180)	197	132	93	67	50	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
2 Span	Positive Wind	174	134	107	87	72	61	52	45	39	34	30	27	24	22	20	18
	Negative Wind	186	144	115	94	78	65	56	48	42	37	33	29	26	24	21	19
	Live	174	134	107	87	72	61	52	45	39	34	30	27	24	22	20	18
	Deflection (L/180)	476	319	224	163	122	94	74	59	48	39	33	28	23	20	17	15
	Deflection (L/240)	357	239	168	122	92	70	55	44	36	29	24	21	17	15	13	11
3 Span	Positive Wind	213	165	132	108	90	76	65	56	49	43	38	34	30	27	25	23
	Negative Wind	227	177	142	116	96	81	69	60	52	46	41	36	33	29	27	24
	Live	213	165	132	108	90	76	65	56	49	43	38	34	30	27	25	23
	Deflection (L/180)	373	249	175	127	96	74	58	46	37	31	26	21	18	15	13	12
	Deflection (L/240)	279	187	131	95	72	55	43	34	28	23	19	16	13	11	10	9
4 Span	Positive Wind	200	155	124	101	84	71	60	52	45	40	35	32	28	25	23	21
	Negative Wind	214	166	133	108	90	76	65	56	49	43	38	34	31	28	25	23
	Live	200	155	124	101	84	71	60	52	45	40	35	32	28	25	23	21
	Deflection (L/180)	396	265	186	135	102	78	61	49	40	33	27	23	19	16	14	12
	Deflection (L/240)	297	199	139	101	76	58	46	37	30	24	20	17	14	12	11	9

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.
- Load Tables are limited to a maximum allowable load of 500 psf.

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