



TECHNICAL BULLETIN

Issue Date : June 1, 2006

Revised : August 29, 2011

No. 07-212-06

Mega-Rib 7.2 Rib

Bare & Painted



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (ksi)	WEIGHT (psf)	Va (kip/ft.)	Pa_end (lbs/ft.)	Pa_int (lbs/ft.)	Ix (in.4/ft.)	Se (in.3/ft.)	Ma (kip-in./ft.)	Ix (in.4/ft.)	Se (in.3/ft.)	Ma (kip-in./ft.)
22	50.0	1.52	2.0810	525.35	1006.93	0.1330	0.1715	5.1330	0.1370	0.1602	4.7970

- Section properties are calculated in accordance with the 2007 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- Va is the allowable shear.
- Pa is the allowable load for web crippling on end & interior supports.
- Ix is for deflection determination.
- Se is for bending.
- Ma 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	279	213	168	136	113	95	80	69	60	53	47	42	37	34	31	28
	Negative Wind	261	199	157	127	105	88	75	65	56	49	44	39	35	31	29	26
	Live	279	213	168	136	113	95	80	69	60	53	47	42	37	34	31	28
	Deflection (L/180)	271	181	127	93	69	53	42	33	27	22	18	15	13	11	10	8
	Deflection (L/240)	203	136	95	69	52	40	31	25	20	17	14	11	10	8	7	6
2 Span	Positive Wind	251	194	154	125	104	87	74	64	56	49	43	39	35	31	28	26
	Negative Wind	268	207	164	134	111	93	80	69	60	53	47	41	37	34	30	28
	Live	251	194	154	125	104	87	74	64	56	49	43	39	35	31	28	26
	Deflection (L/180)	500	444	311	227	170	131	103	82	67	55	46	38	33	28	24	21
	Deflection (L/240)	497	333	233	170	128	98	77	62	50	41	34	29	24	21	18	16
3 Span	Positive Wind	309	240	191	155	129	109	93	80	70	61	54	48	43	39	36	32
	Negative Wind	329	255	203	166	137	116	99	85	75	66	58	52	47	42	38	35
	Live	309	240	191	155	129	109	93	80	70	61	54	48	43	39	36	32
	Deflection (L/180)	500	347	244	178	133	103	81	64	52	43	36	30	25	22	19	16
	Deflection (L/240)	389	260	183	133	100	77	60	48	39	32	27	22	19	16	14	12
4 Span	Positive Wind	290	225	179	145	120	101	87	75	65	57	51	45	41	37	33	30
	Negative Wind	309	239	190	155	129	108	93	80	70	61	54	48	43	39	35	32
	Live	290	225	179	145	120	101	87	75	65	57	51	45	41	37	33	30
	Deflection (L/180)	500	369	259	189	142	109	86	68	56	46	38	32	27	23	20	17
	Deflection (L/240)	413	277	194	141	106	82	64	51	42	34	28	24	20	17	15	13

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.