

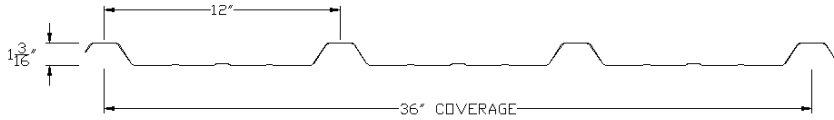


## TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-232-06

### Multi-Rib



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.
24	50.0	1.14	0.9053	223.34	377.49	0.0523	0.0576	1.7233	0.0327	0.0543	1.6267

- Section properties are calculated in accordance with the 2001 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.
- 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															
		1.50	2.00	2.50	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50	7.00	7.50	8.00	8.50	9.00
Single	Positive Wind	510	287	183	127	93	71	56	45	37	31	27	23	20	17	15	14
	Negative Wind	481	271	173	120	88	67	53	43	35	30	25	22	19	16	15	13
	Live	510	287	183	127	93	71	56	45	37	31	27	23	20	17	15	14
	Deflection (L/180)	1354	571	292	169	106	71	50	36	27	21	16	13	10	8	7	6
	Deflection (L/240)	1015	428	219	126	79	53	37	27	20	15	12	9	8	6	5	4
2 Span	Positive Wind	431	253	166	116	86	66	52	42	35	29	25	22	19	16	14	13
	Negative Wind	451	266	175	123	91	70	55	45	37	31	26	23	20	17	15	14
	Live	431	253	166	116	86	66	52	42	35	29	25	22	19	16	14	13
	Deflection (L/180)	2651	1118	572	331	208	139	98	71	53	41	32	26	21	17	14	12
	Deflection (L/240)	1988	838	429	248	156	104	73	53	40	31	24	19	15	13	10	9
3 Span	Positive Wind	516	309	204	144	107	82	65	53	44	37	31	27	23	21	18	16
	Negative Wind	538	324	214	152	113	87	69	56	46	39	33	29	25	22	19	17
	Live	516	309	204	144	107	82	65	53	44	37	31	27	23	21	18	16
	Deflection (L/180)	2077	876	448	259	163	109	76	56	42	32	25	20	16	13	11	9
	Deflection (L/240)	1557	657	336	194	122	82	57	42	31	24	19	15	12	10	8	7
4 Span	Positive Wind	489	291	191	135	100	77	61	49	41	34	29	25	22	19	17	15
	Negative Wind	510	305	201	142	105	81	64	52	43	36	31	27	23	20	18	16
	Live	489	291	191	135	100	77	61	49	41	34	29	25	22	19	17	15
	Deflection (L/180)	2204	930	476	275	173	116	81	59	44	34	27	21	17	14	12	10
	Deflection (L/240)	1653	697	357	206	130	87	61	44	33	25	20	16	13	10	9	7

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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