

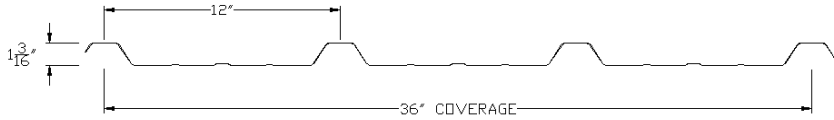


## TECHNICAL BULLETIN

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### 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	80.0	1.14	1.0863	268.00	452.99	0.0510	0.0559	2.0100	0.0317	0.0521	1.8700

- 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	595	335	214	148	109	83	66	53	44	37	31	27	23	20	18	16
	Negative Wind	554	311	199	138	101	77	61	49	41	34	29	25	22	19	17	15
	Live	595	335	214	148	109	83	66	53	44	37	31	27	23	20	18	16
	Deflection (L/180)	1320	557	285	165	103	69	48	35	26	20	16	12	10	8	7	6
	Deflection (L/240)	990	417	213	123	77	52	36	26	20	15	12	9	7	6	5	4
2 Span	Positive Wind	499	293	191	134	99	76	60	49	40	34	29	25	22	19	17	15
	Negative Wind	529	312	204	144	106	82	65	52	43	36	31	27	23	20	18	16
	Live	499	293	191	134	99	76	60	49	40	34	29	25	22	19	17	15
	Deflection (L/180)	2579	1088	557	322	203	136	95	69	52	40	31	25	20	17	14	11
	Deflection (L/240)	1934	816	417	241	152	102	71	52	39	30	23	19	15	12	10	8
3 Span	Positive Wind	600	357	235	166	123	95	75	61	50	42	36	31	27	24	21	19
	Negative Wind	633	380	251	177	132	101	81	65	54	45	39	33	29	25	23	20
	Live	600	357	235	166	123	95	75	61	50	42	36	31	27	24	21	19
	Deflection (L/180)	2020	852	436	252	159	106	74	54	40	31	24	19	16	13	11	9
	Deflection (L/240)	1515	639	327	189	119	79	56	40	30	23	18	14	12	9	8	7
4 Span	Positive Wind	568	336	221	155	115	89	70	57	47	40	34	29	25	22	20	17
	Negative Wind	600	358	236	166	123	95	75	61	51	42	36	31	27	24	21	19
	Live	568	336	221	155	115	89	70	57	47	40	34	29	25	22	20	17
	Deflection (L/180)	2145	905	463	268	168	113	79	57	43	33	26	21	17	14	11	9
	Deflection (L/240)	1608	678	347	201	126	84	59	43	32	25	19	15	12	10	8	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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