



## TECHNICAL BULLETIN

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### Mini-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	1.10	1.2160	1185.12	1694.58	0.0067	0.0338	1.2167	0.0067	0.0324	1.1633

- 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															
		1.00	1.25	1.50	1.75	2.00	2.25	2.50	2.75	3.00	3.50	4.00	4.50	5.00	5.50	6.00	6.50
Single	Positive Wind	811	519	360	264	202	160	129	107	90	66	50	40	32	26	22	19
	Negative Wind	775	496	344	253	193	153	124	102	86	63	48	38	31	25	21	18
	Live	811	519	360	264	202	160	129	107	90	66	50	40	32	26	22	19
	Deflection (L/180)	585	299	173	109	73	51	37	28	21	13	9	6	4	3	2	2
	Deflection (L/240)	439	224	130	81	54	38	28	21	16	10	6	4	3	2	2	1
2 Span	Positive Wind	720	472	333	246	190	150	122	101	85	62	48	38	30	25	21	18
	Negative Wind	748	492	347	257	198	157	128	106	89	65	50	39	32	26	22	19
	Live	720	472	333	246	190	150	122	101	85	62	48	38	30	25	21	18
	Deflection (L/180)	1410	722	417	263	176	123	90	67	52	32	22	15	11	8	6	5
	Deflection (L/240)	1058	541	313	197	132	92	67	50	39	24	16	11	8	6	4	3
3 Span	Positive Wind	874	579	410	305	235	187	152	126	106	78	60	47	38	31	26	22
	Negative Wind	906	602	427	318	245	195	159	131	111	81	62	49	40	33	28	23
	Live	874	579	410	305	235	187	152	126	106	78	60	47	38	31	26	22
	Deflection (L/180)	1105	565	327	206	138	97	70	53	40	25	17	12	8	6	5	4
	Deflection (L/240)	828	424	245	154	103	72	53	39	30	19	12	9	6	4	3	3
4 Span	Positive Wind	824	544	385	286	220	175	142	118	99	73	56	44	36	29	25	21
	Negative Wind	855	566	401	298	230	182	148	123	103	76	58	46	37	31	26	22
	Live	824	544	385	286	220	175	142	118	99	73	56	44	36	29	25	21
	Deflection (L/180)	1173	600	347	218	146	102	75	56	43	27	18	12	9	7	5	4
	Deflection (L/240)	879	450	260	164	109	77	56	42	32	20	13	9	7	5	4	3

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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