

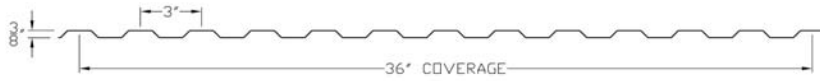


## TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-218-06

### 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	50.0	1.10	1.0133	987.60	1412.15	0.0067	0.0354	1.0600	0.0067	0.0338	1.0133

- 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	314	176	113	78	57	44	34	28	23	19	16	14	12	11	9	8
	Negative Wind	300	168	108	75	55	42	33	27	22	18	15	13	12	10	9	8
	Live	314	176	113	78	57	44	34	28	23	19	16	14	12	11	9	8
	Deflection (L/180)	173	73	37	21	13	9	6	4	3	2	2	1	1	1	0	0
	Deflection (L/240)	130	54	28	16	10	6	4	3	2	2	1	1	1	0	0	0
2 Span	Positive Wind	289	165	106	74	54	41	33	26	22	18	15	13	11	10	9	8
	Negative Wind	301	172	111	77	57	43	34	28	23	19	16	14	12	11	9	8
	Live	289	165	106	74	54	41	33	26	22	18	15	13	11	10	9	8
	Deflection (L/180)	417	176	90	52	32	22	15	11	8	6	5	4	3	2	2	1
	Deflection (L/240)	313	132	67	39	24	16	11	8	6	4	3	3	2	2	1	1
3 Span	Positive Wind	356	204	132	92	68	52	41	33	27	23	19	17	14	13	11	10
	Negative Wind	370	213	138	96	71	54	43	35	29	24	20	17	15	13	12	10
	Live	356	204	132	92	68	52	41	33	27	23	19	17	14	13	11	10
	Deflection (L/180)	327	138	70	40	25	17	12	8	6	5	4	3	2	2	1	1
	Deflection (L/240)	245	103	53	30	19	12	9	6	4	3	3	2	1	1	1	1
4 Span	Positive Wind	334	191	123	86	63	48	38	31	25	21	18	16	13	12	10	9
	Negative Wind	348	200	129	90	66	51	40	32	27	22	19	16	14	12	11	10
	Live	334	191	123	86	63	48	38	31	25	21	18	16	13	12	10	9
	Deflection (L/180)	347	146	75	43	27	18	12	9	7	5	4	3	2	2	1	1
	Deflection (L/240)	260	109	56	32	20	13	9	7	5	4	3	2	2	1	1	1

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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