

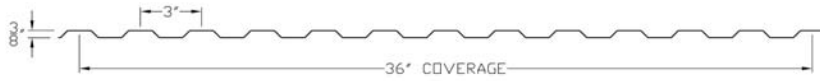


## TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-221-06

### 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.
26	80.0	0.87	0.9774	760.77	1091.33	0.0050	0.0241	0.8667	0.0050	0.0230	0.8267

- 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	577	369	256	188	144	114	92	76	64	47	36	28	23	19	16	13
	Negative Wind	551	352	244	179	137	108	88	72	61	44	34	27	22	18	15	13
	Live	577	369	256	188	144	114	92	76	64	47	36	28	23	19	16	13
	Deflection (L/180)	437	223	129	81	54	38	27	21	16	10	6	4	3	2	2	1
	Deflection (L/240)	327	167	97	61	40	28	20	15	12	7	5	3	2	1	1	1
2 Span	Positive Wind	519	339	238	176	135	107	87	72	60	44	34	27	21	18	15	13
	Negative Wind	541	354	249	184	142	112	91	75	63	46	35	28	23	19	16	13
	Live	519	339	238	176	135	107	87	72	60	44	34	27	21	18	15	13
	Deflection (L/180)	1052	539	311	196	131	92	67	50	38	24	16	11	8	6	4	3
	Deflection (L/240)	789	404	233	147	98	69	50	37	29	18	12	8	6	4	3	2
3 Span	Positive Wind	634	417	294	218	168	133	108	90	75	55	42	33	27	22	19	16
	Negative Wind	660	435	307	228	176	139	113	94	79	58	44	35	28	23	20	17
	Live	634	417	294	218	168	133	108	90	75	55	42	33	27	22	19	16
	Deflection (L/180)	824	422	244	153	103	72	52	39	30	19	12	9	6	4	3	3
	Deflection (L/240)	618	316	183	115	77	54	39	29	22	14	9	6	4	3	2	2
4 Span	Positive Wind	597	391	276	204	157	125	101	84	70	52	39	31	25	21	17	15
	Negative Wind	621	409	288	214	164	130	106	88	74	54	41	33	26	22	18	15
	Live	597	391	276	204	157	125	101	84	70	52	39	31	25	21	17	15
	Deflection (L/180)	875	448	259	163	109	76	56	42	32	20	13	9	7	5	4	3
	Deflection (L/240)	656	336	194	122	82	57	42	31	24	15	10	7	5	3	3	2

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.

CORPORATE OFFICE  
SHREVEPORT, LOUISIANA