

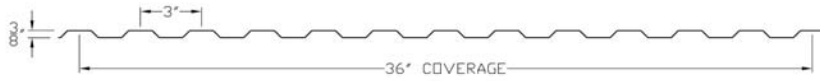


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-220-06

Mini-Rib



SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a_end} lbs/ft.	P _{a_int} lbs/ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
26	50.0	0.87	0.8145	633.97	909.45	0.0053	0.0253	0.7567	0.0053	0.0241	0.7200

- Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
- V_a is the allowable shear.
- P_a is the allowable load for web crippling on end & interior supports.
- I_x is for deflection determination.
- S_e is for bending.
- M_a 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	504	322	224	164	126	99	80	66	56	41	31	24	20	16	14	11
	Negative Wind	480	307	213	156	120	94	76	63	53	39	30	23	19	15	13	11
	Live	504	322	224	164	126	99	80	66	56	41	31	24	20	16	14	11
	Deflection (L/180)	463	237	137	86	57	40	29	22	17	10	7	5	3	2	2	1
	Deflection (L/240)	347	177	102	64	43	30	22	16	12	8	5	3	2	2	1	1
2 Span	Positive Wind	450	294	207	153	118	93	75	62	52	38	29	23	19	15	13	11
	Negative Wind	470	308	217	160	123	98	79	66	55	40	31	24	20	16	13	11
	Live	450	294	207	153	118	93	75	62	52	38	29	23	19	15	13	11
	Deflection (L/180)	1115	571	330	208	139	97	71	53	41	26	17	12	8	6	5	4
	Deflection (L/240)	836	428	247	156	104	73	53	40	30	19	13	9	6	5	3	3
3 Span	Positive Wind	548	362	255	189	146	116	94	78	65	48	37	29	23	19	16	14
	Negative Wind	571	378	267	199	153	121	99	82	69	51	39	30	25	20	17	14
	Live	548	362	255	189	146	116	94	78	65	48	37	29	23	19	16	14
	Deflection (L/180)	874	447	259	163	109	76	55	42	32	20	13	9	6	5	4	3
	Deflection (L/240)	655	335	194	122	81	57	41	31	24	15	10	7	5	3	3	2
4 Span	Positive Wind	516	339	239	177	137	108	88	73	61	45	34	27	22	18	15	13
	Negative Wind	538	355	251	186	143	114	92	76	64	47	36	28	23	19	16	13
	Live	516	339	239	177	137	108	88	73	61	45	34	27	22	18	15	13
	Deflection (L/180)	928	475	274	173	116	81	59	44	34	21	14	10	7	5	4	3
	Deflection (L/240)	696	356	206	129	87	61	44	33	25	16	10	7	5	4	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.

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