



TECHNICAL BULLETIN

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No. 07-222-06

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.
29	80.0	0.70	0.7909	495.33	717.50	0.0037	0.0175	0.6267	0.0037	0.0167	0.6000

- 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	417	267	185	136	104	82	66	55	46	34	26	20	16	13	11	9	
	Negative Wind	400	256	177	130	100	79	64	52	44	32	25	19	16	13	11	9	
	Live	417	267	185	136	104	82	66	55	46	34	26	20	16	13	11	9	
	Deflection (L/180)	323	165	95	60	40	28	20	15	11	7	5	3	2	1	1	1	1
	Deflection (L/240)	242	124	71	45	30	21	15	11	8	5	3	2	1	1	1	1	0
2 Span	Positive Wind	381	248	173	128	98	78	63	52	44	32	24	19	15	13	11	9	
	Negative Wind	396	258	181	134	103	81	66	54	46	33	26	20	16	13	11	9	
	Live	381	248	173	128	98	78	63	52	44	32	24	19	15	13	11	9	
	Deflection (L/180)	779	398	230	145	97	68	49	37	28	18	12	8	6	4	3	2	
	Deflection (L/240)	584	299	173	109	73	51	37	28	21	13	9	6	4	3	2	2	
3 Span	Positive Wind	467	306	215	159	122	97	79	65	55	40	31	24	19	16	13	11	
	Negative Wind	485	318	224	166	128	101	82	68	57	42	32	25	20	17	14	12	
	Live	467	306	215	159	122	97	79	65	55	40	31	24	19	16	13	11	
	Deflection (L/180)	610	312	180	113	76	53	39	29	22	14	9	6	4	3	2	2	
	Deflection (L/240)	457	234	135	85	57	40	29	22	16	10	7	5	3	2	2	1	
4 Span	Positive Wind	439	287	201	149	114	91	73	61	51	37	29	22	18	15	12	11	
	Negative Wind	456	298	210	155	119	94	77	63	53	39	30	23	19	16	13	11	
	Live	439	287	201	149	114	91	73	61	51	37	29	22	18	15	12	11	
	Deflection (L/180)	647	331	191	120	80	56	41	31	23	15	10	7	5	3	2	2	
	Deflection (L/240)	485	248	143	90	60	42	31	23	17	11	7	5	3	2	2	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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