

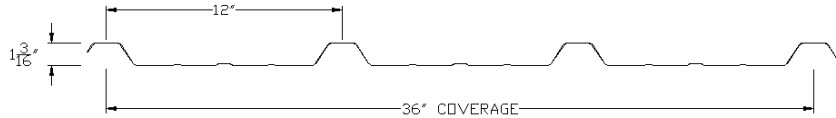


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-235-06

Multi-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	80.0	0.90	0.6987	161.44	282.01	0.0373	0.0405	1.4537	0.0240	0.0386	1.3857

- 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															
		1.50	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	430	242	155	107	79	60	47	38	32	26	22	19	17	15	13	11
	Negative Wind	410	230	147	102	75	57	45	36	30	25	21	18	16	14	12	11
	Live	430	242	155	107	79	60	47	38	32	26	22	19	17	15	13	11
	Deflection (L/180)	966	407	208	120	76	50	35	26	19	15	11	9	7	6	5	4
	Deflection (L/240)	724	305	156	90	57	38	26	19	14	11	8	7	5	4	3	3
2 Span	Positive Wind	359	213	140	98	73	56	44	36	30	25	21	18	16	14	12	11
	Negative Wind	372	222	146	103	76	59	46	38	31	26	22	19	17	15	13	11
	Live	359	213	140	98	73	56	44	36	30	25	21	18	16	14	12	11
	Deflection (L/180)	1912	806	413	239	150	100	70	51	38	29	23	18	15	12	10	8
	Deflection (L/240)	1434	605	309	179	112	75	53	38	29	22	17	14	11	9	7	6
3 Span	Positive Wind	428	258	171	121	90	70	55	45	37	31	27	23	20	17	15	14
	Negative Wind	442	268	178	127	94	73	58	47	39	33	28	24	21	18	16	14
	Live	428	258	171	121	90	70	55	45	37	31	27	23	20	17	15	14
	Deflection (L/180)	1497	631	323	187	117	78	55	40	30	23	18	14	11	9	8	6
	Deflection (L/240)	1123	473	242	140	88	59	41	30	22	17	13	11	8	7	6	5
4 Span	Positive Wind	406	244	161	114	84	65	52	42	35	29	25	21	19	16	14	13
	Negative Wind	420	253	168	119	88	68	54	44	36	30	26	22	19	17	15	13
	Live	406	244	161	114	84	65	52	42	35	29	25	21	19	16	14	13
	Deflection (L/180)	1590	670	343	198	125	83	58	42	32	24	19	15	12	10	8	7
	Deflection (L/240)	1192	503	257	149	93	62	44	32	24	18	14	11	9	7	6	5

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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