

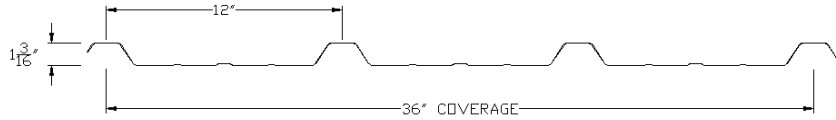


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-236-06

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.
29	80.0	0.73	0.4333	97.38	178.14	0.0263	0.0280	1.0060	0.0183	0.0291	1.0463

- 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	298	167	107	74	54	41	33	26	22	18	15	13	11	10	9	8
	Negative Wind	310	174	111	77	56	43	34	27	23	19	16	14	12	10	9	8
	Live	298	167	107	74	54	41	33	26	22	18	15	13	11	10	9	8
	Deflection (L/180)	681	287	147	85	53	35	25	18	13	10	8	6	5	4	3	3
	Deflection (L/240)	510	215	110	63	40	26	18	13	10	7	6	5	4	3	2	2
2 Span	Positive Wind	257	155	103	73	54	42	33	27	22	19	16	14	12	10	9	8
	Negative Wind	250	150	100	70	52	40	32	26	21	18	15	13	11	10	9	8
	Live	257	155	103	73	54	42	33	27	22	19	16	14	12	10	9	8
	Deflection (L/180)	1391	586	300	173	109	73	51	37	28	21	17	13	11	9	7	6
	Deflection (L/240)	1043	440	225	130	82	55	38	28	21	16	12	10	8	6	5	4
3 Span	Positive Wind	301	186	125	89	67	52	41	33	28	23	20	17	15	13	11	10
	Negative Wind	294	181	121	86	64	50	40	32	27	22	19	16	14	12	11	10
	Live	301	186	125	89	67	52	41	33	28	23	20	17	15	13	11	10
	Deflection (L/180)	1089	459	235	136	85	57	40	29	22	17	13	10	8	7	5	5
	Deflection (L/240)	817	344	176	102	64	43	30	22	16	12	10	8	6	5	4	3
4 Span	Positive Wind	287	176	118	84	63	48	38	31	26	22	18	16	14	12	11	9
	Negative Wind	280	171	114	81	60	47	37	30	25	21	18	15	13	12	10	9
	Live	287	176	118	84	63	48	38	31	26	22	18	16	14	12	11	9
	Deflection (L/180)	1156	488	249	144	91	61	42	31	23	18	14	11	9	7	6	5
	Deflection (L/240)	867	366	187	108	68	45	32	23	17	13	10	8	6	5	4	4

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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