

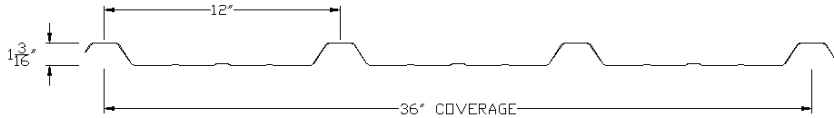


TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-231-06

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.
22	50.0	1.49	1.1949	394.05	651.12	0.0733	0.0825	2.4700	0.0467	0.0780	2.2833

- 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	731	411	263	182	134	102	81	65	54	45	38	33	29	25	22	20
	Negative Wind	676	380	243	169	124	95	75	60	50	42	36	31	27	23	21	18
	Live	731	411	263	182	134	102	81	65	54	45	38	33	29	25	22	20
	Deflection (L/180)	1898	800	410	237	149	100	70	51	38	29	23	18	15	12	10	8
	Deflection (L/240)	1423	600	307	177	112	75	52	38	28	22	17	14	11	9	7	6
2 Span	Positive Wind	597	353	232	163	121	93	74	60	49	41	35	30	26	23	20	18
	Negative Wind	634	378	249	175	130	100	79	64	53	45	38	33	29	25	22	20
	Live	597	353	232	163	121	93	74	60	49	41	35	30	26	23	20	18
	Deflection (L/180)	3743	1579	808	467	294	197	138	101	75	58	46	36	29	24	20	17
	Deflection (L/240)	2807	1184	606	350	220	148	103	75	56	43	34	27	22	18	15	12
3 Span	Positive Wind	713	429	284	201	149	115	91	74	61	52	44	38	33	29	26	23
	Negative Wind	753	457	304	216	161	124	99	80	66	56	48	41	36	31	28	25
	Live	713	429	284	201	149	115	91	74	61	52	44	38	33	29	26	23
	Deflection (L/180)	2932	1237	633	366	230	154	108	79	59	45	36	28	23	19	16	13
	Deflection (L/240)	2199	927	475	274	173	115	81	59	44	34	27	21	17	14	12	10
4 Span	Positive Wind	676	404	267	188	140	108	85	69	57	48	41	35	31	27	24	21
	Negative Wind	715	431	286	202	151	116	92	75	62	52	44	38	33	29	26	23
	Live	676	404	267	188	140	108	85	69	57	48	41	35	31	27	24	21
	Deflection (L/180)	3112	1313	672	389	245	164	115	84	63	48	38	30	24	20	17	14
	Deflection (L/240)	2334	984	504	291	183	123	86	63	47	36	28	22	18	15	12	10

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