McELROY METAL
CORPORATE OFFICE • P.O. BOX 1148 • SHREVEPORT, LA 71163-1148 • (318) 747-8000 • FAX (318) 747-8029

TECHNICAL BULLETIN

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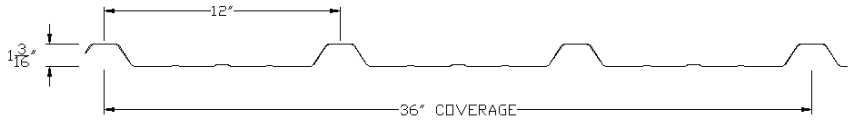
Multi-Rib



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	50.0	0.90	0.6378	134.53	235.01	0.0387	0.0422	1.2643	0.0247	0.0402	1.2023

1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. Va is the allowable shear.
3. Pa is the allowable load for web crippling on end & interior supports.
4. Ix is for deflection determination.
5. Se is for bending.
6. Ma is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	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	374	210	134	93	68	52	41	33	27	23	19	17	14	13	11	10
	Negative Wind	356	200	128	89	65	50	39	32	26	22	18	16	14	12	11	9
	Live	374	210	134	93	68	52	41	33	27	23	19	17	14	13	11	10
	Deflection (L/180)	1002	422	216	125	78	52	37	27	20	15	12	9	8	6	5	4
	Deflection (L/240)	751	317	162	93	59	39	27	20	15	11	9	7	6	4	4	3
2 Span	Positive Wind	315	186	122	86	63	49	38	31	26	22	18	16	14	12	11	9
	Negative Wind	328	194	128	90	66	51	40	33	27	23	19	17	14	13	11	10
	Live	315	186	122	86	63	49	38	31	26	22	18	16	14	12	11	9
	Deflection (L/180)	1977	834	427	247	155	104	73	53	40	30	24	19	15	13	10	9
	Deflection (L/240)	1483	625	320	185	116	78	54	40	30	23	18	14	11	9	8	6
3 Span	Positive Wind	377	226	150	106	78	60	48	39	32	27	23	20	17	15	13	12
	Negative Wind	390	236	156	111	82	63	50	41	34	28	24	21	18	16	14	12
	Live	377	226	150	106	78	60	48	39	32	27	23	20	17	15	13	12
	Deflection (L/180)	1549	653	334	193	121	81	57	41	31	24	19	15	12	10	8	7
	Deflection (L/240)	1161	490	250	145	91	61	43	31	23	18	14	11	9	7	6	5
4 Span	Positive Wind	357	213	140	99	73	57	45	36	30	25	21	18	16	14	12	11
	Negative Wind	370	222	147	104	77	59	47	38	32	26	23	19	17	15	13	12
	Live	357	213	140	99	73	57	45	36	30	25	21	18	16	14	12	11
	Deflection (L/180)	1644	693	355	205	129	86	60	44	33	25	20	16	13	10	9	7
	Deflection (L/240)	1233	520	266	154	97	65	45	33	25	19	15	12	9	8	6	5

Notes:
1. Allowable uniform loads are based upon equal span lengths.
2. Positive Wind is wind pressure and is **NOT** increased by 33 1/3 %.
3. Negative Wind is wind suction or uplift and is **NOT** increased by 33 1/3%.
4. Live is the allowable live or snow load.
5. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
6. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
7. The weight of the panel has **NOT** been deducted from the allowable loads.
8. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. C3.3.1-1 of the AISI Specification.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.