

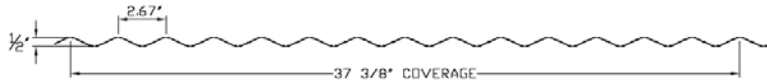


## TECHNICAL BULLETIN

Issue Date : June 1, 2006

No. 07-199-06

### M-Cor



SECTION PROPERTIES				TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V <sub>a</sub> kip/ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.	I <sub>x</sub> (in. <sup>4</sup> /ft.)	S <sub>e</sub> (in. <sup>3</sup> /ft.)	M <sub>a</sub> kip-in./ft.
24	50.0	1.10	1.4757	0.0096	0.0334	0.9996	0.0096	0.0334	0.9996

1. Section properties are calculated in accordance with the 2001 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. V<sub>a</sub> is the allowable shear.
3. I<sub>x</sub> is for deflection determination.
4. S<sub>e</sub> is for bending.
5. M<sub>a</sub> is the allowable bending moment.
6. 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	296	166	106	74	54	41	32	26	22	18	15	13	11	10	9	8
	Negative Wind	296	166	106	74	54	41	32	26	22	18	15	13	11	10	9	8
	Live	296	166	106	74	54	41	32	26	22	18	15	13	11	10	9	8
	Deflection (L/180)	248	104	53	31	19	13	9	6	5	3	3	2	1	1	1	1
	Deflection (L/240)	186	78	40	23	14	9	6	5	3	2	2	1	1	1	1	0
2 Span	Positive Wind	291	164	105	73	54	41	32	26	22	18	15	13	11	10	9	8
	Negative Wind	291	164	105	73	54	41	32	26	22	18	15	13	11	10	9	8
	Live	291	164	105	73	54	41	32	26	22	18	15	13	11	10	9	8
	Deflection (L/180)	598	252	129	74	47	31	22	16	12	9	7	5	4	3	3	2
	Deflection (L/240)	449	189	97	56	35	23	16	12	9	7	5	4	3	2	2	2
3 Span	Positive Wind	361	205	132	91	67	51	41	33	27	23	19	16	14	13	11	10
	Negative Wind	361	205	132	91	67	51	41	33	27	23	19	16	14	13	11	10
	Live	361	205	132	91	67	51	41	33	27	23	19	16	14	13	11	10
	Deflection (L/180)	469	197	101	58	36	24	17	12	9	7	5	4	3	3	2	2
	Deflection (L/240)	351	148	76	43	27	18	13	9	7	5	4	3	2	2	1	1
4 Span	Positive Wind	337	191	123	85	63	48	38	31	25	21	18	15	13	12	10	9
	Negative Wind	337	191	123	85	63	48	38	31	25	21	18	15	13	12	10	9
	Live	337	191	123	85	63	48	38	31	25	21	18	15	13	12	10	9
	Deflection (L/180)	498	210	107	62	39	26	18	13	10	7	6	4	3	3	2	2
	Deflection (L/240)	373	157	80	46	29	19	13	10	7	5	4	3	2	2	2	1

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. Web crippling has not been checked for this panel.

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