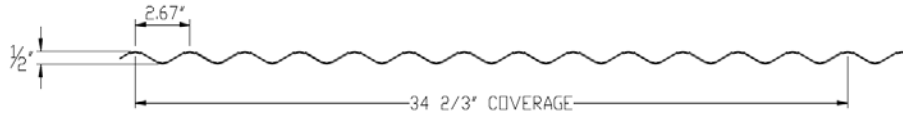




# M-Cor

Bare & Painted



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.
22	50.0	1.48	1.9907	0.0104	0.0439	1.0969	0.0104	0.0456	1.0969

1. Section properties are calculated in accordance with the 2016 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	325	182	117	81	59	45	36	29	24	20	17	14	13	11	10	9
	Negative Wind	325	182	117	81	59	45	36	29	24	20	17	14	13	11	10	9
	Live	325	182	117	81	59	45	36	29	24	20	17	14	13	11	10	9
	Deflection (L/180)	268	113	58	33	21	14	9	7	5	4	3	2	2	1	1	1
	Deflection (L/240)	201	85	43	25	15	10	7	5	4	3	2	1	1	1	1	0
2 Span	Positive Wind	321	181	116	81	59	45	36	29	24	20	17	14	12	11	10	9
	Negative Wind	321	181	116	81	59	45	36	29	24	20	17	14	12	11	10	9
	Live	321	181	116	81	59	45	36	29	24	20	17	14	12	11	10	9
	Deflection (L/180)	500	273	139	80	50	34	23	17	13	10	7	6	5	4	3	2
	Deflection (L/240)	485	204	104	60	38	25	17	13	9	7	5	4	3	3	2	2
3 Span	Positive Wind	399	226	145	101	74	56	45	36	30	25	21	18	16	14	12	11
	Negative Wind	399	226	145	101	74	56	45	36	30	25	21	18	16	14	12	11
	Live	399	226	145	101	74	56	45	36	30	25	21	18	16	14	12	11
	Deflection (L/180)	500	214	109	63	39	26	18	13	10	7	6	4	4	3	2	2
	Deflection (L/240)	380	160	82	47	29	20	14	10	7	5	4	3	3	2	2	1
4 Span	Positive Wind	373	211	135	94	69	53	42	34	28	23	20	17	15	13	11	10
	Negative Wind	373	211	135	94	69	53	42	34	28	23	20	17	15	13	11	10
	Live	373	211	135	94	69	53	42	34	28	23	20	17	15	13	11	10
	Deflection (L/180)	500	227	116	67	42	28	19	14	10	8	6	5	4	3	2	2
	Deflection (L/240)	403	170	87	50	31	21	14	10	8	6	4	3	3	2	2	1

Notes:

1. Allowable uniform loads are based upon equal span lengths.
2. Live is the allowable live or snow load.
3. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
4. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
5. The weight of the panel has **NOT** been deducted from the allowable loads.
6. Positive Wind, Negative Wind, and Live Load values are limited to combined shear & bending using Eq. H2-1 of the AISI Specification.
7. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
8. Load Tables are limited to a maximum allowable load of 500 psf.
9. Web crippling has not been checked for this panel.