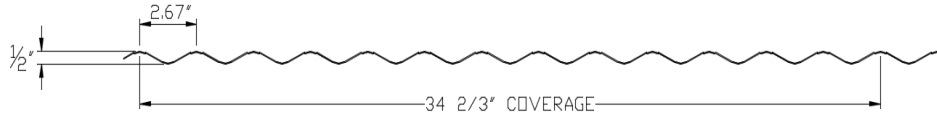




M-Cor

Bare & Painted



SECTION PROPERTIES				TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/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.
24	50.0	1.14	1.5277	0.0090	0.0340	0.8616	0.0090	0.0353	0.8512

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_a is the allowable shear.
3. I_x is for deflection determination.
4. S_e is for bending.
5. M_a 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	255	143	91	63	46	35	28	22	18	15	13	11	10	8	7	7
	Negative Wind	252	141	90	63	46	35	28	22	18	15	13	11	10	8	7	7
	Live	255	143	91	63	46	35	28	22	18	15	13	11	10	8	7	7
	Deflection (L/180)	232	98	50	29	18	12	8	6	4	3	2	2	1	1	1	1
	Deflection (L/240)	174	73	37	21	13	9	6	4	3	2	2	1	1	1	0	0
2 Span	Positive Wind	249	140	90	62	46	35	27	22	18	15	13	11	10	8	7	7
	Negative Wind	252	142	91	63	46	35	28	22	18	15	13	11	10	8	7	7
	Live	249	140	90	62	46	35	27	22	18	15	13	11	10	8	7	7
	Deflection (L/180)	500	236	121	70	44	29	20	15	11	8	6	5	4	3	3	2
	Deflection (L/240)	420	177	90	52	33	22	15	11	8	6	5	4	3	2	2	1
3 Span	Positive Wind	309	175	112	78	57	44	34	28	23	19	16	14	12	11	9	8
	Negative Wind	313	177	114	79	58	44	35	28	23	19	16	14	12	11	9	8
	Live	309	175	112	78	57	44	34	28	23	19	16	14	12	11	9	8
	Deflection (L/180)	439	185	94	54	34	23	16	11	8	6	5	4	3	2	2	2
	Deflection (L/240)	329	139	71	41	25	17	12	8	6	5	4	3	2	2	1	1
4 Span	Positive Wind	289	164	105	73	53	41	32	26	21	18	15	13	11	10	9	8
	Negative Wind	293	166	106	74	54	41	33	26	22	18	15	13	11	10	9	8
	Live	289	164	105	73	53	41	32	26	21	18	15	13	11	10	9	8
	Deflection (L/180)	466	196	100	58	36	24	17	12	9	7	5	4	3	3	2	2
	Deflection (L/240)	350	147	75	43	27	18	12	9	7	5	4	3	2	2	1	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.