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TECHNICAL BULLETIN

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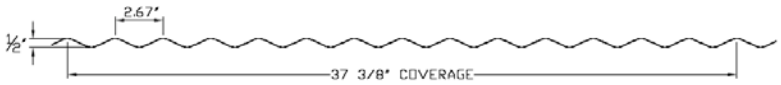
M-Cor



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.
29	80.0	0.70	0.9208	0.0055	0.0205	0.7361	0.0055	0.0205	0.7361

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. Ix is for deflection determination.
4. Se is for bending.
5. Ma is the allowable bending moment.
6. 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	218	122	78	54	40	30	24	19	16	13	11	10	8	7	6	6
	Negative Wind	218	122	78	54	40	30	24	19	16	13	11	10	8	7	6	6
	Live	218	122	78	54	40	30	24	19	16	13	11	10	8	7	6	6
	Deflection (L/180)	142	60	30	17	11	7	5	3	2	2	1	1	1	0	0	0
	Deflection (L/240)	106	45	23	13	8	5	3	2	2	1	1	1	0	0	0	0
2 Span	Positive Wind	212	121	77	54	39	30	24	19	16	13	11	10	8	7	6	6
	Negative Wind	212	121	77	54	39	30	24	19	16	13	11	10	8	7	6	6
	Live	212	121	77	54	39	30	24	19	16	13	11	10	8	7	6	6
	Deflection (L/180)	343	144	74	42	27	18	12	9	6	5	4	3	2	2	1	1
	Deflection (L/240)	257	108	55	32	20	13	9	6	5	4	3	2	2	1	1	1
3 Span	Positive Wind	263	150	96	67	49	38	30	24	20	17	14	12	10	9	8	7
	Negative Wind	263	150	96	67	49	38	30	24	20	17	14	12	10	9	8	7
	Live	263	150	96	67	49	38	30	24	20	17	14	12	10	9	8	7
	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
4 Span	Positive Wind	246	140	90	63	46	35	28	22	18	15	13	11	10	8	7	7
	Negative Wind	246	140	90	63	46	35	28	22	18	15	13	11	10	8	7	7
	Live	246	140	90	63	46	35	28	22	18	15	13	11	10	8	7	7
	Deflection (L/180)	285	120	61	35	22	15	10	7	5	4	3	2	2	1	1	1
	Deflection (L/240)	214	90	46	26	16	11	7	5	4	3	2	2	1	1	1	0

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.