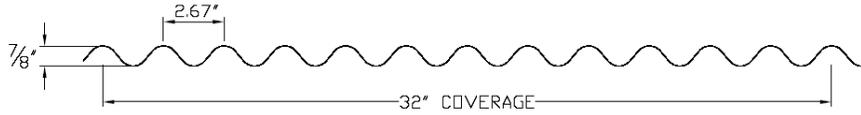




Multi-Cor

Bare & Painted



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.)
22	50.0	1.60	2.0667	1317.87	1503.41	0.0449	0.0936	2.3408	0.0449	0.0981	2.3408

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. P_a is the allowable load for web crippling on end & interior supports.
4. I_x is for deflection determination.
5. S_e is for bending.
6. M_a 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	500	390	249	173	127	97	77	62	51	43	36	31	27	24	21	19
	Negative Wind	500	390	249	173	127	97	77	62	51	43	36	31	27	24	21	19
	Live	500	390	249	173	127	97	77	62	51	43	36	31	27	24	21	19
	Deflection (L/180)	500	491	251	145	91	61	43	31	23	18	14	11	9	7	6	5
	Deflection (L/240)	500	368	188	109	68	46	32	23	17	13	10	8	6	5	4	4
2 Span	Positive Wind	500	379	245	171	126	96	76	62	51	43	36	31	27	24	21	19
	Negative Wind	500	379	245	171	126	96	76	62	51	43	36	31	27	24	21	19
	Live	500	379	245	171	126	96	76	62	51	43	36	31	27	24	21	19
	Deflection (L/180)	500	500	500	350	220	147	103	75	56	43	34	27	22	18	15	12
	Deflection (L/240)	500	500	454	262	165	110	77	56	42	32	25	20	16	13	11	9
3 Span	Positive Wind	500	469	304	212	157	120	95	77	64	53	45	39	34	30	26	24
	Negative Wind	500	469	304	212	157	120	95	77	64	53	45	39	34	30	26	24
	Live	500	469	304	212	157	120	95	77	64	53	45	39	34	30	26	24
	Deflection (L/180)	500	500	474	274	172	115	81	59	44	34	26	21	17	14	12	10
	Deflection (L/240)	500	500	355	205	129	86	61	44	33	25	20	16	13	10	9	7
4 Span	Positive Wind	500	439	284	199	146	112	89	72	59	50	42	37	32	28	25	22
	Negative Wind	500	439	284	199	146	112	89	72	59	50	42	37	32	28	25	22
	Live	500	439	284	199	146	112	89	72	59	50	42	37	32	28	25	22
	Deflection (L/180)	500	500	500	291	183	122	86	62	47	36	28	22	18	15	12	10
	Deflection (L/240)	500	500	377	218	137	92	64	47	35	27	21	17	13	11	9	8

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. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
9. Load Tables are limited to a maximum allowable load of 500 psf.