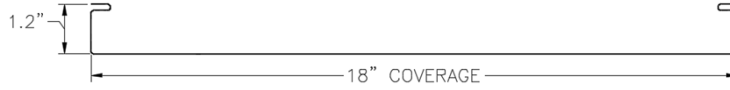




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SECTION PROPERTIES						TOP IN COMPRESSION			BOTTOM IN COMPRESSION		
GAUGE	FY (KSI)	WEIGHT (PSF)	V _a kip/ft.	P _{a_end} lbs/ft.	P _{a_int} lbs/ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.	I _x (in. ⁴ /ft.)	S _e (in. ³ /ft.)	M _a kip-in./ft.
24	50.0	1.15	0.4987	117.20	319.80	0.0380	0.0356	1.0666	0.0173	0.0266	0.6653

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 Type	Load Type	Span in Feet															
		0.50	1.00	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
Single	Positive Wind	500	500	316	177	113	79	58	44	35	28	23	19	16	14	12	11
	Live	500	500	316	177	113	79	58	44	35	28	23	19	16	14	12	11
	Deflection (L/180)	500	500	500	415	212	123	77	51	36	26	19	15	12	9	7	6
	Deflection (L/240)	500	500	500	311	159	92	58	38	27	19	14	11	9	7	5	4
2 Span	Positive Wind	500	387	184	106	69	48	35	27	21	17	14	12	10	9	7	6
	Live	500	387	184	106	69	48	35	27	21	17	14	12	10	9	7	6
	Deflection (L/180)	500	500	500	500	372	215	135	91	63	46	35	26	21	16	13	11
	Deflection (L/240)	500	500	500	500	279	161	101	68	47	34	26	20	15	12	10	8
3 Span	Positive Wind	500	461	225	131	85	60	44	34	27	21	18	15	13	11	9	8
	Live	500	461	225	131	85	60	44	34	27	21	18	15	13	11	9	8
	Deflection (L/180)	500	500	500	500	292	169	106	71	50	36	27	21	16	13	10	8
	Deflection (L/240)	500	500	500	427	219	126	79	53	37	27	20	15	12	9	8	6
4 Span	Positive Wind	500	437	212	123	80	56	41	31	25	20	16	14	12	10	9	8
	Live	500	437	212	123	80	56	41	31	25	20	16	14	12	10	9	8
	Deflection (L/180)	500	500	500	500	310	179	112	75	53	38	29	22	17	14	11	9
	Deflection (L/240)	500	500	500	454	232	134	84	56	39	29	21	16	13	10	8	7
ASTM E1592 Uplift Testing			148.9	120.7	92.5	82.5	72.4	62.3	52.3	42.2	32.1						

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. Live is the allowable live or snow load.
4. Deflection (L/180) is the allowable load that limits the panel's deflection to L/180 while under positive or live load.
5. Deflection (L/240) is the allowable load that limits the panel's deflection to L/240 while under positive or live load.
6. The weight of the panel has **NOT** been deducted from the allowable loads.
7. Positive wind and Live load values are limited to combined shear & bending using Eq. F2.1-2 of the AISI Specification.
8. Values of ASTM E1592 Wind Uplift Testing include a factor of safety of 1.67. Shaded areas are outside of test range. Contact McElroy Metal for more information.
9. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
10. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
11. Load Tables are limited to a maximum allowable load of 500 psf.