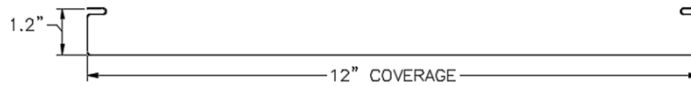




138T



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	1.25	0.7480	175.80	479.70	0.0534	0.0526	1.5750	0.0261	0.0398	0.9940

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	466	262	168	116	85	65	51	42	34	29	24	21	18	16
	Live	500	500	466	262	168	116	85	65	51	42	34	29	24	21	18	16
	Deflection (L/180)	500	500	500	500	298	172	108	72	51	37	28	21	16	13	11	9
	Deflection (L/240)	500	500	500	437	224	129	81	54	38	28	21	16	12	10	8	6
2 Span	Positive Wind	500	500	276	159	103	72	53	41	32	26	21	18	15	13	11	10
	Live	500	500	276	159	103	72	53	41	32	26	21	18	15	13	11	10
	Deflection (L/180)	500	500	500	500	500	309	195	130	91	66	50	38	30	24	19	16
	Deflection (L/240)	500	500	500	500	401	232	146	98	68	50	37	29	22	18	14	12
3 Span	Positive Wind	500	500	336	196	128	89	66	51	40	32	27	22	19	16	14	12
	Live	500	500	336	196	128	89	66	51	40	32	27	22	19	16	14	12
	Deflection (L/180)	500	500	500	500	419	242	152	102	71	52	39	30	23	19	15	12
	Deflection (L/240)	500	500	500	500	314	182	114	76	53	39	29	22	17	14	11	9
4 Span	Positive Wind	500	500	316	184	119	84	62	47	37	30	25	21	18	15	13	12
	Live	500	500	316	184	119	84	62	47	37	30	25	21	18	15	13	12
	Deflection (L/180)	500	500	500	500	445	257	162	108	76	55	41	32	25	20	16	13
	Deflection (L/240)	500	500	500	500	334	193	121	81	57	41	31	24	19	15	12	10
ASTM E1592 Uplift Testing		NO DATA AVAILABLE															

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 2. 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.