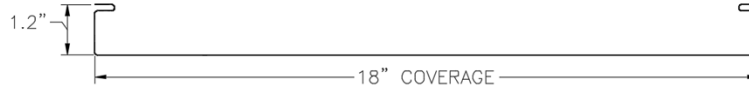




138T



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.
22	50.0	1.49	0.6487	188.93	520.20	0.0527	0.0491	1.4720	0.0253	0.0407	1.0160

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	436	245	157	109	80	61	48	39	32	27	23	20	17	15
	Live	500	500	436	245	157	109	80	61	48	39	32	27	23	20	17	15
	Deflection (L/180)	500	500	500	500	294	170	107	71	50	36	27	21	16	13	10	8
	Deflection (L/240)	500	500	500	431	220	127	80	53	37	27	20	15	12	10	8	6
2 Span	Positive Wind	500	500	276	160	104	73	54	41	33	26	22	18	15	13	11	10
	Live	500	500	276	160	104	73	54	41	33	26	22	18	15	13	11	10
	Deflection (L/180)	500	500	500	500	500	304	191	128	90	65	49	38	29	23	19	16
	Deflection (L/240)	500	500	500	500	394	228	143	96	67	49	37	28	22	17	14	12
3 Span	Positive Wind	500	500	333	197	129	91	67	51	41	33	27	23	19	17	14	13
	Live	500	500	333	197	129	91	67	51	41	33	27	23	19	17	14	13
	Deflection (L/180)	500	500	500	500	411	238	150	100	70	51	38	29	23	18	15	12
	Deflection (L/240)	500	500	500	500	308	178	112	75	52	38	28	22	17	14	11	9
4 Span	Positive Wind	500	500	315	185	121	85	63	48	38	31	25	21	18	16	13	12
	Live	500	500	315	185	121	85	63	48	38	31	25	21	18	16	13	12
	Deflection (L/180)	500	500	500	500	437	252	159	106	74	54	41	31	24	19	16	13
	Deflection (L/240)	500	500	500	500	327	189	119	80	56	40	30	23	18	14	12	10
ASTM E1592 Wind 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 2.0. 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.