



238T



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	1.62	1.2053	172.80	520.00	0.2220	0.1105	3.3093	0.1080	0.0957	2.2207

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	500	500	352	245	180	137	108	88	72	61	52	45	39	34
	Live	500	500	500	500	352	245	180	137	108	88	72	61	52	45	39	34
	Deflection (L/180)	500	500	500	500	500	500	452	303	212	155	116	89	70	56	45	37
	Deflection (L/240)	500	500	500	500	500	500	339	227	159	116	87	67	52	42	34	28
2 Span	Positive Wind	500	500	500	345	226	159	118	90	72	58	48	40	34	30	26	23
	Live	500	500	500	345	226	159	118	90	72	58	48	40	34	30	26	23
	Deflection (L/180)	500	500	500	500	500	500	500	500	381	277	208	160	126	101	82	67
	Deflection (L/240)	500	500	500	500	500	500	500	407	285	208	156	120	94	75	61	50
3 Span	Positive Wind	500	500	500	420	277	196	146	112	89	72	60	50	43	37	32	28
	Live	500	500	500	420	277	196	146	112	89	72	60	50	43	37	32	28
	Deflection (L/180)	500	500	500	500	500	500	500	425	298	217	163	125	99	79	64	53
	Deflection (L/240)	500	500	500	500	500	500	476	318	223	163	122	94	74	59	48	39
4 Span	Positive Wind	500	500	500	395	261	184	136	105	83	68	56	47	40	34	30	26
	Live	500	500	500	395	261	184	136	105	83	68	56	47	40	34	30	26
	Deflection (L/180)	500	500	500	500	500	500	500	451	317	231	173	133	105	84	68	56
	Deflection (L/240)	500	500	500	500	500	500	500	338	237	173	130	100	78	63	51	42
ASTM E1592 Uplift Testing ¹¹												55.7					
ASTM E1592 Uplift Testing ¹²												106.5					
ASTM E1592 Uplift Testing ¹³												130.0					

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 and Live load values are limited to combined shear & bending using Eq. H2-1 of the AISI Specification.
7. 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.
8. Positive Wind and Live Load values are limited by web crippling using a bearing length of 2".
9. Web crippling values are determined using a ratio of the uniform load **actually** supported by the top flanges of the section.
10. Load Tables are limited to a maximum allowable load of 500 psf.
11. With standard 6" long clip
12. With 24 Ga multispan clip
13. With 22 Ga multispan clip