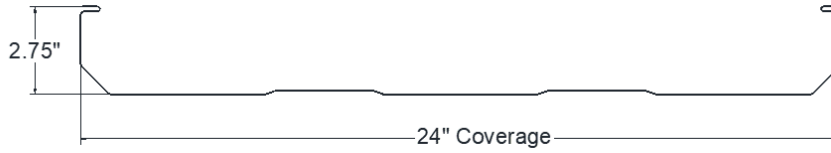




Trap Tee



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	1.69	1.2285	93.90	243.10	0.2900	0.1256	3.7605	0.1595	0.1228	2.7390

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															
		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	8.50
Single	Positive Wind	500	500	500	401	278	204	156	123	100	82	69	59	51	44	39	34
	Live	500	500	500	401	278	204	156	123	100	82	69	59	51	44	39	34
	Deflection (L/180)	500	500	500	500	500	500	396	278	202	152	117	92	73	60	49	41
	Deflection (L/240)	500	500	500	500	500	443	297	208	152	114	88	69	55	45	37	30
2 Span	Positive Wind	500	500	414	273	193	144	111	88	71	59	50	42	36	32	28	25
	Live	500	500	414	273	193	144	111	88	71	59	50	42	36	32	28	25
	Deflection (L/180)	500	500	500	500	500	500	500	378	284	219	172	137	112	92	77	
	Deflection (L/240)	500	500	500	500	500	500	500	389	283	213	164	129	103	84	69	57
3 Span	Positive Wind	500	500	498	333	237	177	137	109	89	73	62	53	46	40	35	31
	Live	500	500	498	333	237	177	137	109	89	73	62	53	46	40	35	31
	Deflection (L/180)	500	500	500	500	500	500	500	406	296	222	171	134	108	87	72	60
	Deflection (L/240)	500	500	500	500	500	500	434	305	222	167	128	101	81	65	54	45
4 Span (or more)	Positive Wind	500	500	471	314	223	166	128	102	83	69	58	49	42	37	33	29
	Live	500	500	471	314	223	166	128	102	83	69	58	49	42	37	33	29
	Deflection (L/180)	500	500	500	500	500	500	500	431	314	236	182	143	114	93	76	64
	Deflection (L/240)	500	500	500	500	500	500	461	323	236	177	136	107	86	69	57	48
ASTM E1592 Wind Uplift Testing																	

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. C3.3.1-1 of the AISI Specification.
8. Uplift values have not been updated, as testing is continuing. 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.