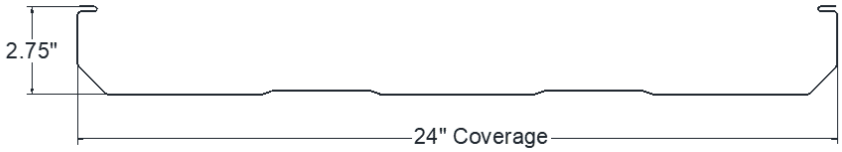
Trap Tee



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.)
24	50.0	1.30	0.8590	57.65	146.00	0.2040	0.0872	2.6090	0.1125	0.0819	2.0450

1. Section properties are calculated in accordance with the 2016 AISI North American Specification for the Design of Cold-Formed Steel Structural Members.
2. Va is the allowable shear.
3. Pa is the allowable load for web crippling on end & interior supports.
4. Ix is for deflection determination.
5. Se is for bending.
6. Ma is the allowable bending moment.
7. All values are for one foot of panel width.

Allowable Uniform Loads (PSF)

		Span in Feet															
Span Type	Load Type	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	434	278	193	141	108	85	69	57	48	41	35	30	27	24
	Live	500	500	434	278	193	141	108	85	69	57	48	41	35	30	27	24
	Deflection (L/180)	500	500	500	500	500	415	278	195	142	107	82	64	51	42	34	29
	Deflection (L/240)	500	500	500	500	495	311	208	146	106	80	61	48	38	31	26	21
2 Span	Positive Wind	500	500	305	202	143	107	82	65	53	44	37	31	27	24	21	18
	Live	500	500	305	202	143	107	82	65	53	44	37	31	27	24	21	18
	Deflection (L/180)	500	500	500	500	500	500	500	365	266	200	154	121	97	78	65	54
	Deflection (L/240)	500	500	500	500	500	500	390	274	199	150	115	90	72	59	48	40
3 Span	Positive Wind	500	500	366	246	176	131	102	81	66	55	46	39	34	29	26	23
	Live	500	500	366	246	176	131	102	81	66	55	46	39	34	29	26	23
	Deflection (L/180)	500	500	500	500	500	500	407	286	208	156	120	95	76	61	50	42
	Deflection (L/240)	500	500	500	500	500	456	305	214	156	117	90	71	57	46	38	31
4 Span (or more)	Positive Wind	500	500	346	232	165	123	95	76	62	51	43	37	32	27	24	21
	Live	500	500	346	232	165	123	95	76	62	51	43	37	32	27	24	21
	Deflection (L/180)	500	500	500	500	500	500	432	304	221	166	128	100	80	65	54	45
	Deflection (L/240)	500	500	500	500	500	484	324	228	166	124	96	75	60	49	40	33
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.