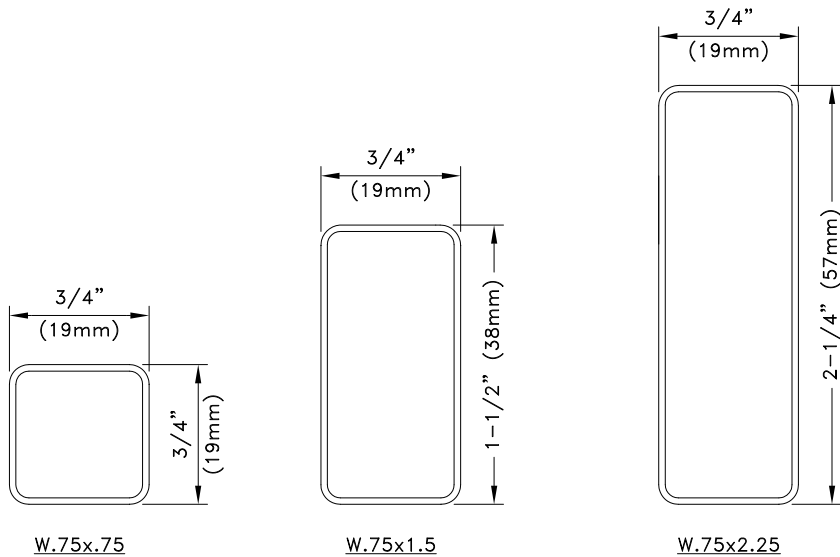


IMPERIAL WEB VALUES

SECTION NAME	GAUGE	DESIGN THICKNESS (in)	F _y (ksi)	F _u (ksi)	FULL SECTION PROPERTIES					FULLY BRACED ALLOWABLES			WEIGHT (lbs./ft.)
					A _g (in ²)	I _x (in ⁴)	S _x (in ³)	I _y (in ⁴)	S _y (in ³)	T _a (lbs.)	P _a (lbs.)	M _{ax} (in-lbs.)	
33W.75x.75	20	0.0350	45	55	0.0948	0.0078	0.0208	0.0078	0.0208	2,556	2,371	562	0.322
33W.75x1.5	20	0.0350	45	55	0.1473	0.0423	0.0564	0.0145	0.0388	3,970	3,541	1,519	0.501
33W.75x2.25	20	0.0350	45	55	0.1998	0.1182	0.1051	0.0213	0.0567	5,385	3,860	2,831	0.679

METRIC WEB VALUES

SECTION NAME	GAUGE	DESIGN THICKNESS (mm)	F _y (MPa)	F _u (MPa)	FULL SECTION PROPERTIES					FULLY BRACED ALLOWABLES			WEIGHT (kN/m)
					A _g (mm ²)	I _x (mm ⁴)	S _x (mm ³)	I _y (mm ⁴)	S _y (mm ³)	T _a (kN)	P _a (kN)	M _{ax} (kN-mm)	
33W.75x.75	20	0.8890	310	379	61	3,247	341	3,247	341	11.37	10.55	63.5	0.005
33W.75x1.5	20	0.8890	310	379	95	17,607	924	6,035	636	17.66	15.75	171.6	0.007
33W.75x2.25	20	0.8890	310	379	129	49,199	1722	8,866	929	23.95	17.17	319.9	0.010



General Notes:

1. All tubes to conform to ASTM A500 with G90 minimum galvanization or equal. Bare metal thickness is 95% of design thickness.
2. T_a = Allowable Tension, P_a = Allowable Compression, M_{ax} = Allowable Moment
3. The allowable values given in this table do not reflect any strength increase due to cold work of forming.
4. Properties determined according to the AISI 2016 "North American Specifications for the Design of Cold-Formed Steel Structural Members" (S100-16).



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TSC2.75 Tube
Web Properties

Alpine, a division of ITW Building Components Group, Inc. shall not be responsible for any performance failure in a connection due to a deviation from this detail. Any variation from this detail shall be approved in advance by Alpine, a division of ITW Building Components Group, Inc.

Standard Detail:

TS009

Date:

10/11/18

TrusSteel Detail Category:

Member Section Properties