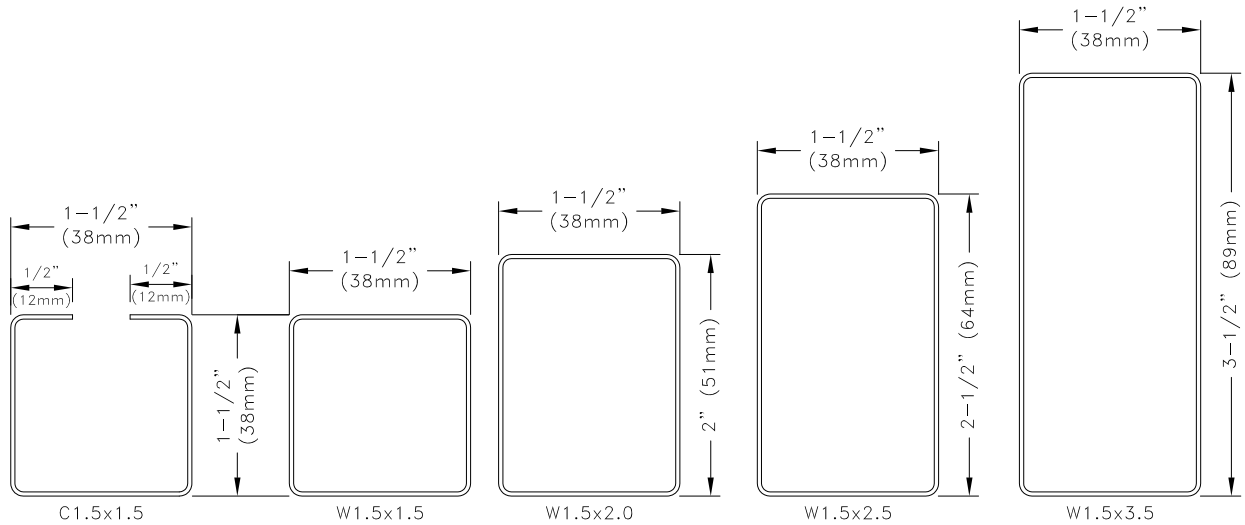


IMPERIAL WEB VALUES

SECTION NAME	GAUGE	DESIGN THICKNESS (in)	F _y (ksi)	F _u (ksi)	FULL SECTION PROPERTIES					FULLY BRACED ALLOWABLES			
					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.)	Wt (lbs./ft.)
33C1.5x1.5	20	0.0346	33	45	0.1880	0.0593	0.0723	0.0691	0.0922	3,556	3,246	1,429	0.612
33W1.5x1.5	20	0.0350	45	55	0.1998	0.0705	0.0939	0.0705	0.0939	5,385	4,711	2,451	0.680
33W1.5x2.0	20	0.0350	45	55	0.2348	0.1381	0.1381	0.0893	0.1190	6,328	4,953	3,611	0.798
47W1.5x2.5	18	0.0490	45	55	0.3721	0.3179	0.2544	0.1458	0.1944	10,026	8,351	6,854	1.265
63W1.5x2.5	16	0.0650	45	55	0.6150	0.9346	0.5341	0.2522	0.3362	16,571	13,248	14,390	2.091

METRIC WEB VALUES

SECTION NAME	GAUGE	DESIGN THICKNESS (mm)	F _y (MPa)	F _u (MPa)	FULL SECTION PROPERTIES					FULLY BRACED ALLOWABLES			
					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)	Wt (kN/m)
33C1.5x1.5	20	0.8788	228	310	121	24,683	1,185	28,762	1,511	15.82	14.44	161.0	0.009
33W1.5x1.5	20	0.8890	310	379	129	29,344	1,539	29,344	1,539	23.95	20.96	276.9	0.010
33W1.5x2.0	20	0.8890	310	379	151	57,482	2,263	37,169	1,950	28.15	22.03	408.0	0.012
47W1.5x2.5	18	1.2446	310	379	240	132,320	4,169	60,687	3,186	44.60	37.15	774.4	0.185
63W1.5x3.5	16	1.6510	310	379	397	389,010	8,752	104,974	5,509	73.71	58.93	1,626.0	0.305



General Notes:

1. Steel for C1.5x1.5 is ASTM A653 with G60 minimum galvanization. Steel for all other tubes is ASTM A500 with G60 minimum galvanization or equal. Bare metal thickness is 95% of design thickness.
2. Properties determined according to the 2010 supplement to the AISI 2007 "North American Specifications for the Design of Cold-Formed Steel Structural Members" (S100-07/S2-10).
3. S_x and M_{ax} are for positive bending causing compression at the closed end of the section.
4. T_a = Allowable Tension, P_a = Allowable Compression, M_{ax} = Allowable Moment, Wt = Weight
5. The allowable values given in this table do not reflect any strength increase due to cold work of forming.

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TSC3.00 & TSC4.00 C-Web and Tube Web Properties

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 ITW Building Components Group, Inc.

Standard Detail:

TS010

Date:

07/16/12

TrusSteel Detail Category:

Member Section Properties

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