

IMPERIAL CHORD VALUES

SECTION NAME	GAUGE	DESIGN THICKNESS (in)	FULL SECTION PROPERTIES					FULLY BRACED ALLOWABLES**			
			A <sub>g</sub> (in <sup>2</sup> )	I <sub>x</sub> (in <sup>4</sup> )	S <sub>x</sub> <sup>#</sup> (in <sup>3</sup> )	I <sub>y</sub> (in <sup>4</sup> )	S <sub>y</sub> (in <sup>3</sup> )	T <sub>a</sub> (lbs.)	P <sub>a</sub> (lbs.)	Ma <sub>x</sub> <sup>#</sup> (in-lbs.)	W <sub>t</sub> (lbs./ft.)
28TSC4.00	22	0.0299	0.3808	0.8081	0.3869	0.3139	0.2507	12375	8588	11292	1.29
33TSC4.00	20	0.0346	0.4390	0.9284	0.4438	0.3617	0.2887	14267	10371	13309	1.49
43TSC4.00	18	0.0451	0.5673	1.1902	0.5672	0.4649	0.3716	18438	14500	17890	1.93
54TSC4.00	16	0.0566	0.7052	1.4660	0.6963	0.5745	0.4598	22920	19295	22249	2.40
68TSC4.00	14	0.0713	0.8558	1.7450	0.8116	0.6920	0.5532	25623	22870	23838	2.91
97TSC4.00	12	0.1017	1.1957	2.3780	1.1007	0.9630	0.7705	35801	33215	32954	4.07

METRIC CHORD VALUES

SECTION NAME	GAUGE	DESIGN THICKNESS (mm)	FULL SECTION PROPERTIES					FULLY BRACED ALLOWABLES**			
			A <sub>g</sub> (mm <sup>2</sup> )	I <sub>x</sub> (mm <sup>4</sup> )	S <sub>x</sub> <sup>#</sup> (mm <sup>3</sup> )	I <sub>y</sub> (mm <sup>4</sup> )	S <sub>y</sub> (mm <sup>3</sup> )	T <sub>a</sub> (kN)	P <sub>a</sub> (kN)	Ma <sub>x</sub> <sup>#</sup> (kN-mm)	W <sub>t</sub> (kN/m)
28TSC4.00	22	0.7595	246	336357	6340	130655	4108	55.05	38.20	1276	0.018
33TSC4.00	20	0.8788	283	386429	7273	150551	4731	63.46	46.13	1504	0.022
43TSC4.00	18	1.1455	366	495399	9295	193506	6089	82.02	64.50	2021	0.028
54TSC4.00	16	1.4376	455	610195	11410	239125	7535	101.95	85.83	2514	0.035
68TSC4.00	14	1.8110	552	726324	13300	288032	9065	113.98	101.73	2693	0.042
97TSC4.00	12	2.5832	771	989798	18037	400831	12626	159.25	147.75	3723	0.059

\* S<sub>x</sub> and Ma<sub>x</sub> are for positive bending causing compression at the closed end of the section.

\*\*Ta = Allowable Tension, Pa = Allowable Compression, Ma<sub>x</sub> = Allowable Moment\*, W<sub>t</sub> = Weight

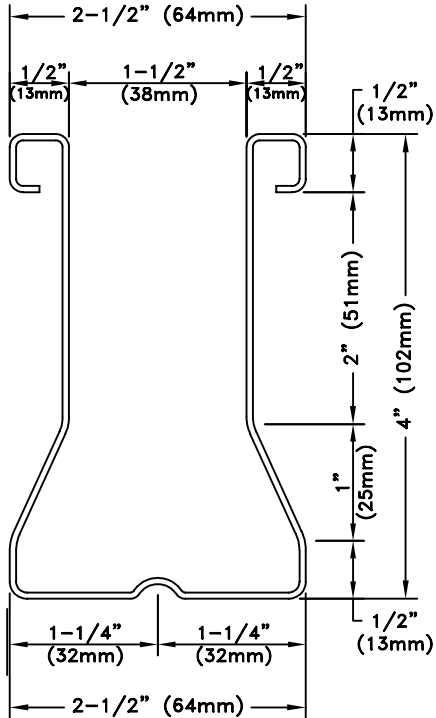
Properties determined according to American Iron and Steel Institute's North American Specification for the Design of Cold-Formed Steel Structural Members dated 2004.

All steel is ASTM A653 steel with G60 minimum galvanization  
Bare Metal Thickness is 95% of design thickness

F<sub>y</sub> = 55 ksi (379 MPa)

F<sub>u</sub> = 65 ksi (448 MPa)

The allowable values given in this table do not reflect any strength increase due to the cold work of forming.



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TSC4.00 Chord 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:  
TS008

Date:  
06/05/07

TrusSteel Detail Category:  
Member Section Properties