

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.)	Wt (lbs./ft.)
28TSC2.75	22	0.0299	0.2510	0.2450	0.1754	0.0709	0.0943	8158	7381	5776	0.83
33TSC2.75	20	0.0346	0.2888	0.2803	0.2002	0.0813	0.1081	9386	8734	6594	0.97
43TSC2.75	18	0.0451	0.3716	0.3562	0.2532	0.1040	0.1382	12077	11354	8337	1.26

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)	Wt (kN/m)
28TSC2.75	22	0.7595	162	101977	2874	29511	1545	36.29	32.83	653	0.012
33TSC2.75	20	0.8788	186	116670	3281	33840	1771	41.75	38.85	745	0.014
43TSC2.75	18	1.1455	240	148262	4149	43288	2265	53.72	50.51	942	0.018

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

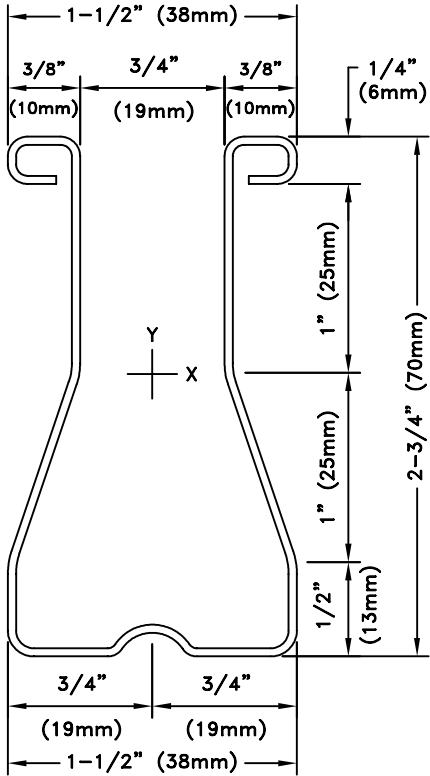
\*\*Ta = Allowable Tension, Pa = Allowable Compression, Ma<sub>x</sub> = Allowable Moment\*, Wt = Weight

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.

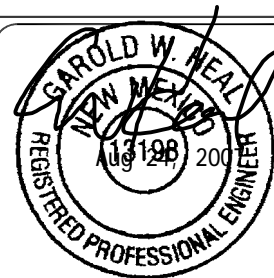


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TSC2.75 Chord Properties

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:  
TS007

Date:  
06/05/07

TrusSteel Detail Category:  
Member Section Properties