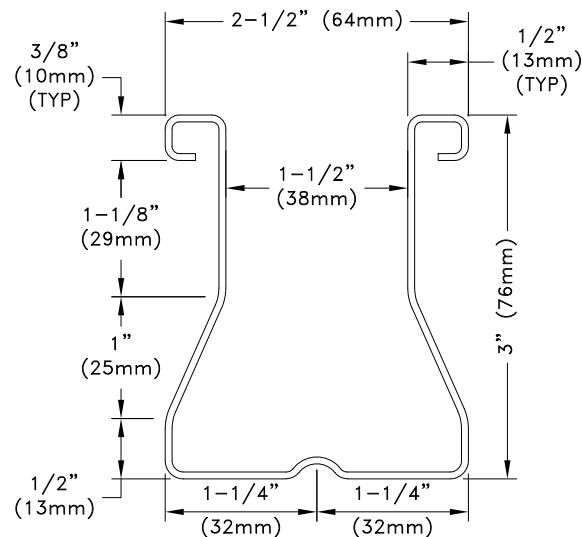


IMPERIAL CHORD VALUES

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.)	
28TSC3.00	22	0.0299	55	65	0.3135	0.3914	0.2437	0.2672	0.2134	10,188	8,135	7,267	1.07
33TSC3.00	20	0.0346	55	65	0.3611	0.4489	0.2791	0.3074	0.2453	11,736	9,757	8,589	1.23
43TSC3.00	18	0.0451	55	65	0.4658	0.5733	0.3550	0.3938	0.3148	15,139	13,351	11,204	1.58
54TSC3.00	16	0.0566	55	65	0.5778	0.7031	0.4335	0.4848	0.3880	18,779	16,811	13,874	1.96

METRIC CHORD 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)	
28TSC3.00	22	0.7595	379	448	202	162,913	3,994	111,217	3,497	45	36	821	0.016
33TSC3.00	20	0.8788	379	448	233	186,846	4,574	127,950	4,020	52	43	970	0.018
43TSC3.00	18	1.1455	379	448	301	238,625	5,817	163,912	5,159	67	59	1,266	0.023
54TSC3.00	16	1.4376	379	448	373	292,652	7,104	201,789	6,358	84	75	1,568	0.029



28 to 54TSC3.00 Chord Section

General Notes:

1. All steel is ASTM A653 steel with G90 minimum galvanization. Bare metal thickness is 95% of design thickness.
2. S_x and M_{ax} are for positive bending causing compression at the closed end of the section.
3. T_a = Allowable Tension, P_a = Allowable Compression, M_{ax} = Allowable Moment
4. The allowable values given in this table do not reflect any strength increase due to cold work of forming.
5. Properties determined according to the 2020 supplement to AISI 2016 "North American Specification for the Design of Cold-Formed Steel Structural Members" (S100-16/S2-20).



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TSC3.00 Chord 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:

TS008A

Date:

06/01/22

TrusSteel Detail Category:

Member Section Properties