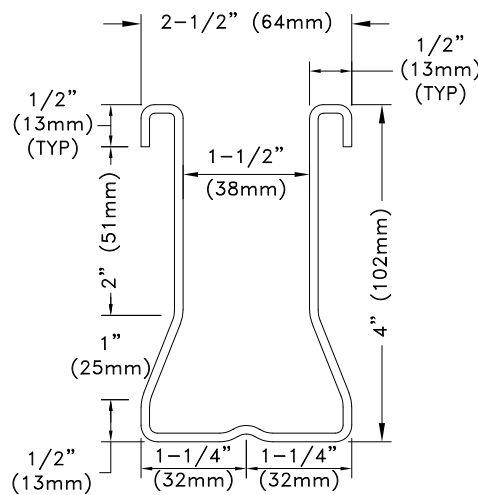
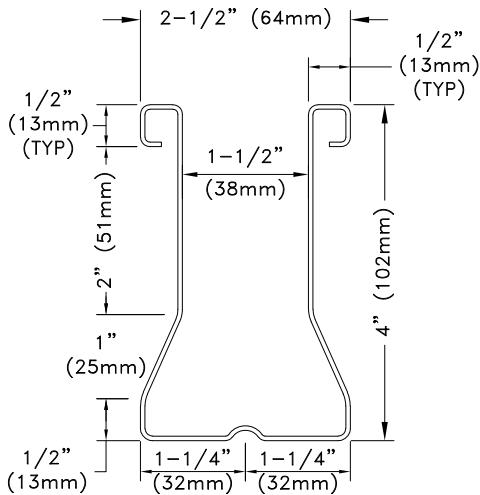


IMPERIAL CHORD VALUES

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.)	Max (in-lbs.)	
28TSC4.00	22	0.0299	55	65	0.3808	0.8080	0.3868	0.3138	0.2506	12,375	8,586	11,284	1.29
33TSC4.00	20	0.0346	55	65	0.4389	0.9282	0.4431	0.3616	0.2887	14,266	10,368	13,299	1.49
43TSC4.00	18	0.0451	55	65	0.5673	1.1900	0.5671	0.4649	0.3716	18,437	14,495	17,879	1.93
54TSC4.00	16	0.0566	55	65	0.7052	1.4660	0.6962	0.5740	0.4597	22,918	19,286	22,240	2.40
68TSC4.00	14	0.0713	50	65	0.8557	1.7450	0.8116	0.6920	0.5531	25,621	22,871	23,839	2.91
97TSC4.00	12	0.1017	50	65	1.1957	2.3780	1.1006	0.9630	0.7704	35,798	33,213	32,952	4.07

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)	Max (kN-mm)	
28TSC4.00	22	0.7595	379	448	246	336,314	6,339	130,613	4,107	55.05	38.19	1,275	0.018
33TSC4.00	20	0.8788	379	448	283	386,346	7,273	150,509	4,731	63.46	46.12	1,503	0.022
43TSC4.00	18	1.1455	379	448	366	495,315	9,293	193,506	6,089	82.01	64.48	2,020	0.028
54TSC4.00	16	1.4376	379	448	455	610,195	11,409	238,917	7,533	101.94	85.79	2,513	0.035
68TSC4.00	14	1.8110	345	448	552	726,324	13,300	288,032	9,064	113.97	101.74	2,693	0.042
97TSC4.00	12	2.5832	345	448	771	989,798	18,036	400,831	12,625	159.24	147.74	3,723	0.059



28 to 54TSC4.00 Chord Section

68 and 97TSC4.00 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 Max are for positive bending causing compression at the closed end of the section.
3. T_a = Allowable Tension, P_a = Allowable Compression, Max = 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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TSC4.00 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:

TS008

Date:

06/01/22

TrusSteel Detail Category:

Member Section Properties