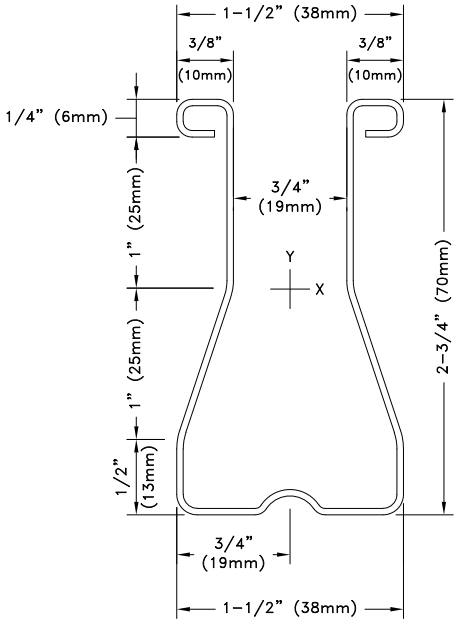
IMPERIAL CHORD VALUES

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.)	Ma_x (in-lbs.)	
28TSC2.75	22	0.0299	55	65	0.2510	0.2450	0.1754	0.0709	0.0943	8,158	7,381	5,776	0.85
33TSC2.75	20	0.0346	55	65	0.2888	0.2803	0.2002	0.0813	0.1081	9,386	8,734	6,594	0.98
43TSC2.75	18	0.0451	55	65	0.3716	0.3562	0.2532	0.1040	0.1382	12,077	11,354	8,337	1.26

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)	Ma_x (kN-mm)	
28TSC2.75	22	0.7595	379	448	162	101,977	2,874	29,511	1,545	36.29	32.83	653	0.012
33TSC2.75	20	0.8788	379	448	186	116,670	3,281	33,840	1,771	41.75	38.85	745	0.014
43TSC2.75	18	1.1455	379	448	240	148,262	4,149	43,288	2,265	53.72	50.51	942	0.018



TSC2.75 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 Ma_x are for positive bending causing compression at the closed end of the section.
3. Ta = Allowable Tension, Pa = Allowable Compression, Ma_x = 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).

ALPINE TrusSteel™

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TSC2.75 Chord Properties

Standard Detail: TS007

Date: 06/01/22

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