

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600T200-97

MARINO\WARE PART # 600T212

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	Yield Strength Fy (KSI)	50
B. Flange (in)	2"	Tensile Strength Fu (KSI)	65
Mils	97	Design Thickness (in)	0.1017
Available Finish	G90	Minimum Thickness (in)	0.0966
		Gauge	12

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	1.015
Weight of Member: (lb/ft)	3.45
Moment of Inertia: I_x (in ⁴)	5.773
Section Modulus: S_x (in ³)	1.816
Radius of Gyration: R_x (in)	2.385
Gross Moment of Inertia: I_y (in ⁴)	0.354
Gross Radius of Gyration: R_y (in)	0.591

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	5.558
Section Modulus: S_x (in ³)	1.568
Allowable Bending Moment: M_a (in-k)	46.940
Allowable strong axis shear away from punch: V_{ag} (lb)	10885

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	3.499
Torsional Warping Constant: C_w (in ⁶)	2.510
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.016
Shear Center to Mid-Plane of the Web: m (in)	0.635
Radius of Gyration on the Centroid Principal axis: R_o (in)	2.659
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.854

CODES & STANDARDS

- AISI S100, S240 & ICC ES ESR-4062
- ASTM A 1003, A 653, & C 955
- IBC 2012, 2015, 2018, 2021 & FBC 2020, 2023

GREEN INFO

- LEED credits available
- Contact Technical Services for more information.

