

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600T300-97

MARINO\WARE PART # 600T312

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	Yield Strength Fy (KSI)	50
B. Flange (in)	3"	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)	1.218
Weight of Member: (lb/ft)	4.15
Moment of Inertia: I_x (in ⁴)	7.762
Section Modulus: S_x (in ³)	2.442
Radius of Gyration: R_x (in)	2.52
Gross Moment of Inertia: I_y (in ⁴)	1.096
Gross Radius of Gyration: R_y (in)	0.949

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	6.659
Section Modulus: S_x (in ³)	1.724
Allowable Bending Moment: M_a (in-k)	51.62
Allowable strong axis shear away from punch: V_{ag} (lb)	10885

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	4.2
Torsional Warping Constant: C_w (in ⁶)	7.583
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.816
Shear Center to Mid-Plane of the Web: m (in)	1.089
Radius of Gyration on the Centroid Principal axis: R_o (in)	3.25
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.688

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.

