

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600T300-68

MARINO\WARE PART # 600T314

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	68	Design Thickness (in)	0.0713
Available Finish	G60	Minimum Thickness (in)	0.0677
		Gauge	14

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.854
Weight of Member: (lb/ft)	2.91
Moment of Inertia: Ix (in ⁴)	5.351
Section Modulus: Sx (in ³)	1.712
Radius of Gyration: Rx (in)	2.50
Gross Moment of Inertia: Iy (in ⁴)	0.779
Gross Radius of Gyration: Ry (in)	0.954

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	4.156
Section Modulus: Sx (in ³)	1.053
Allowable Bending Moment: Ma (in-k)	31.53
Allowable strong axis shear away from punch: Vag (lb)	5350

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	1.448
Torsional Warping Constant: Cw (in ⁶)	5.239
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.834
Shear Center to Mid-Plane of the Web: m (in)	1.100
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.25
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.681

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.

