

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800T300-68

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART #

PROPERTIES:

A. Web (in)	8"	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)	0.997
Weight of Member: (lb/ft)	3.39
Moment of Inertia: I_x (in ⁴)	10.2
Section Modulus: S_x (in ³)	2.47
Radius of Gyration: R_x (in)	3.19
Gross Moment of Inertia: I_y (in ⁴)	0.844
Gross Radius of Gyration: R_y (in)	0.920

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	8.20
Section Modulus: S_x (in ³)	1.55
Allowable Bending Moment: M_a (in-k)	46.4
Allowable strong axis shear away from punch: V_{ag} (lb)	4086

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	1.69
Torsional Warping Constant: C_w (in ⁶)	10.1
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.64
Shear Center to Mid-Plane of the Web: m (in)	1.02
Radius of Gyration on the Centroid Principal axis: R_o (in)	3.71
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.803

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.

