

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400T125-68

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 400ST14

PROPERTIES:

A. Web (in)	4"	Yield Strength Fy (KSI)	50
B. Flange (in)	1-1/4"	Tensile Strength Fu (KSI)	65
Mils	68	Design Thickness (in)	0.0713
Available Finish	G90	Minimum Thickness (in)	0.0677
		Gauge	14

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.462
Weight of Member: (lb/ft)	1.57
Moment of Inertia: Ix (in ⁴)	1.150
Section Modulus: Sx (in ³)	0.541
Radius of Gyration: Rx (in)	1.577
Gross Moment of Inertia: Iy (in ⁴)	0.061
Gross Radius of Gyration: Ry (in)	0.363

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	1.134
Section Modulus: Sx (in ³)	0.488
Allowable Bending Moment: Ma (in-k)	14.620
Allowable strong axis shear away from punch: Vag (lb)	5205

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	0.783
Torsional Warping Constant: Cw (in ⁶)	0.194
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.614
Shear Center to Mid-Plane of the Web: m (in)	0.386
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.731
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.874

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.

