

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1200T125-68

MARINO\WARE PART # 120ST14

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	12"	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)	1.033
Weight of Member: (lb/ft)	3.51
Moment of Inertia: Ix (in ⁴)	16.826
Section Modulus: Sx (in ³)	2.747
Radius of Gyration: Rx (in)	4.04
Gross Moment of Inertia: Iy (in ⁴)	0.74
Gross Radius of Gyration: Ry (in)	0.268

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	15.686
Section Modulus: Sx (in ³)	1.934
Allowable Bending Moment: Ma (in-k)	57.91
Allowable strong axis shear away from punch: Vag (lb)	2712

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	1.750
Torsional Warping Constant: Cw (in ⁶)	2.270
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.329
Shear Center to Mid-Plane of the Web: m (in)	0.227
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.06
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.993

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.

