

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1200T200-68

MARINO\WARE PART # 120T214

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	12"	Yield Strength Fy (KSI)	50
B. Flange (in)	2"	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)	1.140
Weight of Member: (lb/ft)	3.88
Moment of Inertia: Ix (in ⁴)	20.791
Section Modulus: Sx (in ³)	3.395
Radius of Gyration: Rx (in)	4.271
Gross Moment of Inertia: Iy (in ⁴)	0.294
Gross Radius of Gyration: Ry (in)	0.508

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	18.026
Section Modulus: Sx (in ³)	2.058
Allowable Bending Moment: Ma (in-k)	61.620
Allowable strong axis shear away from punch: Vag (lb)	2713

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	1.931
Torsional Warping Constant: Cw (in ⁶)	8.431
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.725
Shear Center to Mid-Plane of the Web: m (in)	0.483
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.362
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.972

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.

