

Marino\WARE® Product Submittal Data

PRODUCT NAME: 250T200-68

MARINO\WARE PART # 212T214

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	2-1/2"	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)	0.462
Weight of Member: (lb/ft)	1.57
Moment of Inertia: Ix (in ⁴)	0.600
Section Modulus: Sx (in ³)	0.437
Radius of Gyration: Rx (in)	1.139
Gross Moment of Inertia: Iy (in ⁴)	0.196
Gross Radius of Gyration: Ry (in)	0.652

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	0.517
Section Modulus: Sx (in ³)	0.296
Allowable Bending Moment: Ma (in-k)	8.860
Allowable strong axis shear away from punch: Vag (lb)	3199

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	0.783
Torsional Warping Constant: Cw (in ⁶)	0.251
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.396
Shear Center to Mid-Plane of the Web: m (in)	0.800
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.916
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.469

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.

