

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1000T200-68

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 100T214

PROPERTIES:

A. Web (in)	10"	Yield Strength Fy (KSI)	50
B. Flange (in)	2"	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: Ix (in ⁴)	13.292
Section Modulus: Sx (in ³)	2.594
Radius of Gyration: Rx (in)	3.651
Gross Moment of Inertia: Iy (in ⁴)	0.284
Gross Radius of Gyration: Ry (in)	0.534

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	11.820
Section Modulus: Sx (in ³)	1.684
Allowable Bending Moment: Ma (in-k)	50.420
Allowable strong axis shear away from punch: Vag (lb)	3261

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	1.690
Torsional Warping Constant: Cw (in ⁶)	5.576
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.803
Shear Center to Mid-Plane of the Web: m (in)	0.527
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.776
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.955

CODES & STANDARDS

- AISI S100-12 & ICC ES ESR-4062
- Meets IBC 2012, 2015 & FBC 2014
- Framing meets ASTM A 1003, A 653, C 645 & C 955

GREEN INFO

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information.

