

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1000T200-97

MARINO\WARE PART # 100T212

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	10"	Yield Strength Fy (KSI)	50
B. Flange (in)	2"	Tensile Strength Fu (KSI)	65
Mils	97	Design Thickness (in)	0.1017
Available Finish	G60	Minimum Thickness (in)	0.0966
		Gauge	12

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	1.422
Weight of Member: (lb/ft)	4.84
Moment of Inertia: Ix (in ⁴)	19.087
Section Modulus: Sx (in ³)	3.686
Radius of Gyration: Rx (in)	3.664
Gross Moment of Inertia: Iy (in ⁴)	0.397
Gross Radius of Gyration: Ry (in)	0.528

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	18.583
Section Modulus: Sx (in ³)	3.081
Allowable Bending Moment: Ma (in-k)	92.250
Allowable strong axis shear away from punch: Vag (lb)	9507

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	4.901
Torsional Warping Constant: Cw (in ⁶)	7.924
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.791
Shear Center to Mid-Plane of the Web: m (in)	0.519
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.786
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.956

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.

