

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800T200-97

MARINO\WARE PART # 800T212

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	8"	Yield Strength Fy (KSI)	50
B. Flange (in)	2"	Tensile Strength Fu (KSI)	65
Mils	97	Design Thickness (in)	0.1017
Available Finish	G90	Minimum Thickness (in)	0.0966
		Gauge	12

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	1.218
Weight of Member: (lb/ft)	4.15
Moment of Inertia: I_x (in ⁴)	11.212
Section Modulus: S_x (in ³)	2.683
Radius of Gyration: R_x (in)	3.034
Gross Moment of Inertia: I_y (in ⁴)	0.379
Gross Radius of Gyration: R_y (in)	0.558

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	10.883
Section Modulus: S_x (in ³)	2.347
Allowable Bending Moment: M_a (in-k)	70.270
Allowable strong axis shear away from punch: V_{ag} (lb)	10885

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	4.200
Torsional Warping Constant: C_w (in ⁶)	4.792
Shear Center to Centroid on Principal X-axis: X_o (in)	-0.889
Shear Center to Mid-Plane of the Web: m (in)	0.571
Radius of Gyration on the Centroid Principal axis: R_o (in)	3.210
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.923

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.

