

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800T200-54

MARINO\WARE PART # 800T216

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	54	Design Thickness (in)	0.0566
Available Finish	G90	Minimum Thickness (in)	0.0538
		Gauge	16

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.679
Weight of Member: (lb/ft)	2.31
Moment of Inertia: I_x (in ⁴)	6.152
Section Modulus: S_x (in ³)	1.501
Radius of Gyration: R_x (in)	3.011
Gross Moment of Inertia: I_y (in ⁴)	0.218
Gross Radius of Gyration: R_y (in)	0.567

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	5.149
Section Modulus: S_x (in ³)	0.871
Allowable Bending Moment: M_a (in-k)	26.090
Allowable strong axis shear away from punch: V_{ag} (lb)	2039

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.725
Torsional Warping Constant: C_w (in ⁶)	2.664
Shear Center to Centroid on Principal X-axis: X_o (in)	-0.908
Shear Center to Mid-Plane of the Web: m (in)	0.584
Radius of Gyration on the Centroid Principal axis: R_o (in)	3.196
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.919

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.

