

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1000T200-54

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 100T216

PROPERTIES:

A. Web (in)	10"	Yield Strength Fy (KSI)	50
B. Flange (in)	2"	Tensile Strength Fu (KSI)	65
Mils	54	Design Thickness (in)	0.0566
Available Finish	G60	Minimum Thickness (in)	0.0538
		Gauge	16

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.792
Weight of Member: (lb/ft)	2.69
Moment of Inertia: I_x (in ⁴)	10.516
Section Modulus: S_x (in ³)	2.062
Radius of Gyration: R_x (in)	3.645
Gross Moment of Inertia: I_y (in ⁴)	0.228
Gross Radius of Gyration: R_y (in)	0.537

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	8.560
Section Modulus: S_x (in ³)	1.111
Allowable Bending Moment: M_a (in-k)	33.260
Allowable strong axis shear away from punch: V_{ag} (lb)	1628

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.845
Torsional Warping Constant: C_w (in ⁶)	4.434
Shear Center to Centroid on Principal X-axis: X_o (in)	-0.809
Shear Center to Mid-Plane of the Web: m (in)	0.531
Radius of Gyration on the Centroid Principal axis: R_o (in)	3.772
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.954

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.

