

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600T200-54

MARINO\WARE PART # 600T216

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	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)	0.565
Weight of Member: (lb/ft)	1.92
Moment of Inertia: I_x (in ⁴)	3.145
Section Modulus: S_x (in ³)	1.015
Radius of Gyration: R_x (in)	2.359
Gross Moment of Inertia: I_y (in ⁴)	0.203
Gross Radius of Gyration: R_y (in)	0.600

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	2.641
Section Modulus: S_x (in ³)	0.717
Allowable Bending Moment: M_a (in-k)	21.480
Allowable strong axis shear away from punch: V_{ag} (lb)	2728

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.604
Torsional Warping Constant: C_w (in ⁶)	1.381
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.038
Shear Center to Mid-Plane of the Web: m (in)	0.649
Radius of Gyration on the Centroid Principal axis: R_o (in)	2.646
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.846

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.

