

Marino\WARE® Product Submittal Data

PRODUCT NAME: 250T200-54

MARINO\WARE PART # 212T216

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	2-1/2"	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)	0.367
Weight of Member: (lb/ft)	1.25
Moment of Inertia: I_x (in ⁴)	0.466
Section Modulus: S_x (in ³)	0.346
Radius of Gyration: R_x (in)	1.127
Gross Moment of Inertia: I_y (in ⁴)	0.157
Gross Radius of Gyration: R_y (in)	0.654

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	0.371
Section Modulus: S_x (in ³)	0.209
Allowable Bending Moment: M_a (in-k)	6.250
Allowable strong axis shear away from punch: V_{ag} (lb)	2563

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.392
Torsional Warping Constant: C_w (in ⁶)	0.195
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.405
Shear Center to Mid-Plane of the Web: m (in)	0.806
Radius of Gyration on the Centroid Principal axis: R_o (in)	1.917
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.462

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.

