

Marino\WARE® Product Submittal Data

PRODUCT NAME: 362T200-54

MARINO\WARE PART # 358T216

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	3-5/8"	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)	0.431
Weight of Member: (lb/ft)	1.47
Moment of Inertia: I_x (in ⁴)	1.024
Section Modulus: S_x (in ³)	0.536
Radius of Gyration: R_x (in)	1.541
Gross Moment of Inertia: I_y (in ⁴)	0.177
Gross Radius of Gyration: R_y (in)	0.640

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	0.832
Section Modulus: S_x (in ³)	0.345
Allowable Bending Moment: M_a (in-k)	10.340
Allowable strong axis shear away from punch: V_{ag} (lb)	3372

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.460
Torsional Warping Constant: C_w (in ⁶)	0.442
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.259
Shear Center to Mid-Plane of the Web: m (in)	0.748
Radius of Gyration on the Centroid Principal axis: R_o (in)	2.091
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.637

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.

