

Marino\WARE® Product Submittal Data

PRODUCT NAME: 362T200-43

MARINO\WARE PART # 358T218

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	3-5/8"	Yield Strength Fy (KSI)	33
B. Flange (in)	2"	Tensile Strength Fu (KSI)	45
Mils	43	Design Thickness (in)	0.0451
Available Finish	G60	Minimum Thickness (in)	0.0428
		Gauge	18

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.343
Weight of Member: (lb/ft)	1.17
Moment of Inertia: I_x (in ⁴)	0.808
Section Modulus: S_x (in ³)	0.427
Radius of Gyration: R_x (in)	1.534
Gross Moment of Inertia: I_y (in ⁴)	0.142
Gross Radius of Gyration: R_y (in)	0.643

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	0.649
Section Modulus: S_x (in ³)	0.270
Allowable Bending Moment: M_a (in-k)	5.340
Allowable strong axis shear away from punch: V_{ag} (lb)	1739

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.233
Torsional Warping Constant: C_w (in ⁶)	0.350
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.265
Shear Center to Mid-Plane of the Web: m (in)	0.752
Radius of Gyration on the Centroid Principal axis: R_o (in)	2.090
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.633

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.

