

Marino\WARE® Product Submittal Data

PRODUCT NAME: 362T200-33

MARINO\WARE PART # 358T220

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	33	Design Thickness (in)	0.0346
Available Finish	G90	Minimum Thickness (in)	0.0329
		Gauge	20 STR

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.264
Weight of Member: (lb/ft)	0.90
Moment of Inertia: I_x (in ⁴)	0.619
Section Modulus: S_x (in ³)	0.328
Radius of Gyration: R_x (in)	1.532
Gross Moment of Inertia: I_y (in ⁴)	0.110
Gross Radius of Gyration: R_y (in)	0.645

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	0.464
Section Modulus: S_x (in ³)	0.190
Allowable Bending Moment: M_a (in-k)	3.760
Allowable strong axis shear away from punch: V_{ag} (lb)	1024

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.105
Torsional Warping Constant: C_w (in ⁶)	0.269
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.270
Shear Center to Mid-Plane of the Web: m (in)	0.754
Radius of Gyration on the Centroid Principal axis: R_o (in)	2.092
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.631

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.

