

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800T200-33

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 800T220

PROPERTIES:

A. Web (in)	8"	Yield Strength Fy (KSI)	33
B. Flange (in)	2"	Tensile Strength Fu (KSI)	45
Mils	33	Design Thickness (in)	0.0346
Available Finish	G60	Minimum Thickness (in)	0.0329
		Gauge	20

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.415
Weight of Member: (lb/ft)	1.41
Moment of Inertia: I_x (in ⁴)	3.749
Section Modulus: S_x (in ³)	0.921
Radius of Gyration: R_x (in)	3.005
Gross Moment of Inertia: I_y (in ⁴)	0.135
Gross Radius of Gyration: R_y (in)	0.571

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	2.788
Section Modulus: S_x (in ³)	0.424
Allowable Bending Moment: M_a (in-k)	8.370
Allowable strong axis shear away from punch: V_{ag} (lb)	465

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.166
Torsional Warping Constant: C_w (in ⁶)	1.638
Shear Center to Centroid on Principal X-axis: X_o (in)	-0.917
Shear Center to Mid-Plane of the Web: m (in)	0.589
Radius of Gyration on the Centroid Principal axis: R_o (in)	3.194
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.918

CODES & STANDARDS

- AISI S100-12 & ICC ES ESR-4062
- Meets IBC 2012, 2015 & FBC 2014
- Framing meets ASTM A 1003, A 653, C 645 & C 955

GREEN INFO

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information.

