

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600T200-33

MARINO\WARE PART # 600T220

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	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 STR

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.346
Weight of Member: (lb/ft)	1.18
Moment of Inertia: I_x (in ⁴)	1.913
Section Modulus: S_x (in ³)	0.622
Radius of Gyration: R_x (in)	2.352
Gross Moment of Inertia: I_y (in ⁴)	0.126
Gross Radius of Gyration: R_y (in)	0.604

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	1.542
Section Modulus: S_x (in ³)	0.333
Allowable Bending Moment: M_a (in-k)	6.590
Allowable strong axis shear away from punch: V_{ag} (lb)	622

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.138
Torsional Warping Constant: C_w (in ⁶)	0.847
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.048
Shear Center to Mid-Plane of the Web: m (in)	0.655
Radius of Gyration on the Centroid Principal axis: R_o (in)	2.645
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.843

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.

