

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 600T200-33

**MARINO\WARE PART #** 600T220

05.40.00 Cold-Formed Metal Framing

## PROPERTIES:

<b>A. Web (in)</b>	6"	<b>Yield Strength Fy (KSI)</b>	33
<b>B. Flange (in)</b>	2"	<b>Tensile Strength Fu (KSI)</b>	45
<b>Mils</b>	33	<b>Design Thickness (in)</b>	0.0346
<b>Available Finish</b>	G90	<b>Minimum Thickness (in)</b>	0.0329
		<b>Gauge</b>	20 STR

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.346
Weight of Member: (lb/ft)	1.18
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	1.913
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	0.622
Radius of Gyration: <b>Rx</b> (in)	2.352
Gross Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	0.126
Gross Radius of Gyration: <b>Ry</b> (in)	0.604

### EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: <b>Ix</b> (in <sup>4</sup> )	1.542
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	0.333
Allowable Bending Moment: <b>Ma</b> (in-k)	6.590
Allowable strong axis shear away from punch: <b>Vag</b> (lb)	622

### TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )	0.138
Torsional Warping Constant: <b>Cw</b> (in <sup>6</sup> )	0.847
Shear Center to Centroid on Principal X-axis: <b>Xo</b> (in)	-1.048
Shear Center to Mid-Plane of the Web: <b>m</b> (in)	0.655
Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in)	2.645
Torsional Flexural Constant: <b>β</b> [1-(xo/Ro) <sup>2</sup> ]	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.

