

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 600T200-43

**05.40.00 Cold-Formed Metal Framing**

**MARINO\WARE PART #** 600T218

## 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>	43	<b>Design Thickness (in)</b>	0.0451
<b>Available Finish</b>	G60	<b>Minimum Thickness (in)</b>	0.0428
		<b>Gauge</b>	18

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.457
Weight of Member: (lb/ft)	1.53
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	2.494
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	0.809
Radius of Gyration: <b>Rx</b> (in)	2.353
Gross Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	0.163
Gross Radius of Gyration: <b>Ry</b> (in)	0.602

### EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: <b>Ix</b> (in <sup>4</sup> )	2.076
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	0.565
Allowable Bending Moment: <b>Ma</b> (in-k)	11.160
Allowable strong axis shear away from punch: <b>Vag</b> (lb)	1377

### TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )	0.305
Torsional Warping Constant: <b>Cw</b> (in <sup>6</sup> )	1.098
Shear Center to Centroid on Principal X-axis: <b>Xo</b> (in)	-1.044
Shear Center to Mid-Plane of the Web: <b>m</b> (in)	0.652
Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in)	2.643
Torsional Flexural Constant: <b>β</b> [1-(xo/Ro) <sup>2</sup> ]	0.844

## 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.

