

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 800T200-97

**05.40.00 Cold-Formed Metal Framing**

**MARINO\WARE PART #** 800T212

## PROPERTIES:

<b>A. Web (in)</b>	8"	<b>Yield Strength Fy (KSI)</b>	50
<b>B. Flange (in)</b>	2"	<b>Tensile Strength Fu (KSI)</b>	65
<b>Mils</b>	97	<b>Design Thickness (in)</b>	0.1017
<b>Available Finish</b>	G60	<b>Minimum Thickness (in)</b>	0.0966
		<b>Gauge</b>	12

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	1.218
Weight of Member: (lb/ft)	4.15
Moment of Inertia: <b>I<sub>x</sub></b> (in <sup>4</sup> )	11.212
Section Modulus: <b>S<sub>x</sub></b> (in <sup>3</sup> )	2.683
Radius of Gyration: <b>R<sub>x</sub></b> (in)	3.034
Gross Moment of Inertia: <b>I<sub>y</sub></b> (in <sup>4</sup> )	0.379
Gross Radius of Gyration: <b>R<sub>y</sub></b> (in)	0.558

### EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: <b>I<sub>x</sub></b> (in <sup>4</sup> )	10.883
Section Modulus: <b>S<sub>x</sub></b> (in <sup>3</sup> )	2.347
Allowable Bending Moment: <b>Ma</b> (in-k)	70.270
Allowable strong axis shear away from punch: <b>V<sub>ag</sub></b> (lb)	10885

### TORSIONAL SECTION PROPERTIES

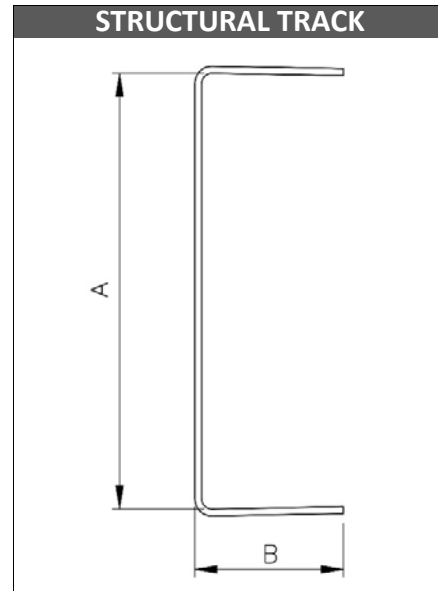
St. Venant Torsional Constant: <b>J<sub>x1000</sub></b> (in <sup>4</sup> )	4.200
Torsional Warping Constant: <b>C<sub>w</sub></b> (in <sup>6</sup> )	4.792
Shear Center to Centroid on Principal X-axis: <b>X<sub>o</sub></b> (in)	-0.889
Shear Center to Mid-Plane of the Web: <b>m</b> (in)	0.571
Radius of Gyration on the Centroid Principal axis: <b>R<sub>o</sub></b> (in)	3.210
Torsional Flexural Constant: <b>β</b> [1-(x <sub>o</sub> /R <sub>o</sub> ) <sup>2</sup> ]	0.923

## 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.



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

This technical information reflects the most current information available and supersedes any and all publications, effective 1/5/2017.  
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