

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 1000S250-54

**MARINO\WARE PART #** 100SE16

**05.40.00 Cold-Formed Metal Framing**

**PROPERTIES:**

<b>A. Web (in)</b>	10"	<b>Yield Strength Fy (KSI)</b>	50
<b>B. Flange (in)</b>	2-1/2"	<b>Tensile Strength Fu (KSI)</b>	65
<b>C. Lip (in)</b>	5/8"	<b>Design Thickness (in)</b>	0.0566
<b>Mils</b>	54	<b>Minimum Thickness (in)</b>	0.0538
<b>Available Finish</b>	G60	<b>Gauge</b>	16

**SECTION PROPERTIES**

**GROSS SECTION PROPERTIES**

Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.896
Weight of Member: (lb/ft)	3.05
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	12.677
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	2.535
Radius of Gyration: <b>Rx</b> (in)	3.762
Gross Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	0.653
Gross Radius of Gyration: <b>Ry</b> (in)	0.854

**EFFECTIVE SECTION PROPERTIES**

Moment of Inertia-Deflection: <b>Ixe</b> (in <sup>4</sup> )	12.66
Section Modulus: <b>Sxe</b> (in <sup>3</sup> )	1.88
Allowable Bending Moment: <b>Ma</b> (in-k)	56.26
Allowable strong axis shear away from punch: <b>Vag</b> (lb)	1661
Allowable strong axis shear at punch: <b>Vanet</b> (lb)	1661

**TORSIONAL SECTION PROPERTIES**

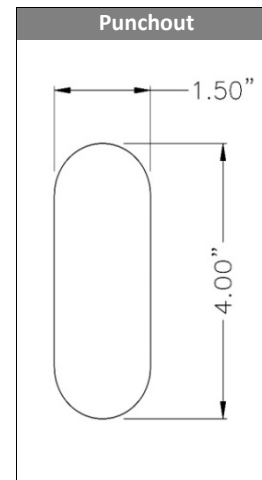
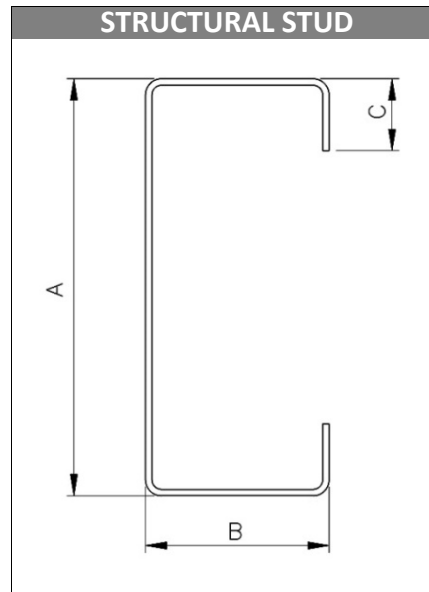
St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )	0.957
Torsional Warping Constant: <b>Cw</b> (in <sup>6</sup> )	12.922
Shear Center to Centroid on Principal X-axis: <b>Xo</b> (in)	-1.505
Shear Center to Mid-Plane of the Web: <b>m</b> (in)	0.958
Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in)	4.140
Torsional Flexural Constant: <b>β</b> [1-(xo/Ro) <sup>2</sup> ]	0.868

**CODES & STANDARDS**

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

**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  
©Copyright 2017 by Ware Industries, Inc. All rights reserved