

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 1400S350-68

**MARINO\WARE PART #** 140SW14

**05.40.00 Cold-Formed Metal Framing**

**PROPERTIES:**

<b>A. Web (in)</b>	14"	<b>Yield Strength Fy (KSI)</b>	50
<b>B. Flange (in)</b>	3-1/2"	<b>Tensile Strength Fu (KSI)</b>	65
<b>C. Lip (in)</b>	1"	<b>Design Thickness (in)</b>	0.0713
<b>Mils</b>	68	<b>Minimum Thickness (in)</b>	0.0677
<b>Available Finish</b>	G60	<b>Gauge</b>	14

**SECTION PROPERTIES**

**GROSS SECTION PROPERTIES**

Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	1.602
Weight of Member: (lb/ft)	5.45
Moment of Inertia: <b>I<sub>x</sub></b> (in <sup>4</sup> )	44.707
Section Modulus: <b>S<sub>x</sub></b> (in <sup>3</sup> )	6.387
Radius of Gyration: <b>R<sub>x</sub></b> (in)	5.283
Gross Moment of Inertia: <b>I<sub>y</sub></b> (in <sup>4</sup> )	2.406
Gross Radius of Gyration: <b>R<sub>y</sub></b> (in)	1.226

**EFFECTIVE SECTION PROPERTIES**

Moment of Inertia-Deflection: <b>I<sub>xe</sub></b> (in <sup>4</sup> )	44.71
Section Modulus: <b>S<sub>xe</sub></b> (in <sup>3</sup> )	4.71
Allowable Bending Moment: <b>Ma</b> (in-k)	141.00
Allowable strong axis shear away from punch: <b>V<sub>ag</sub></b> (lb)	2365
Allowable strong axis shear at punch: <b>V<sub>anet</sub></b> (lb)	2365

**TORSIONAL SECTION PROPERTIES**

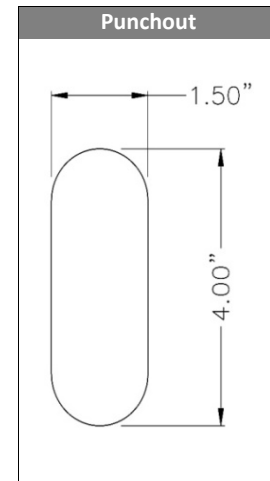
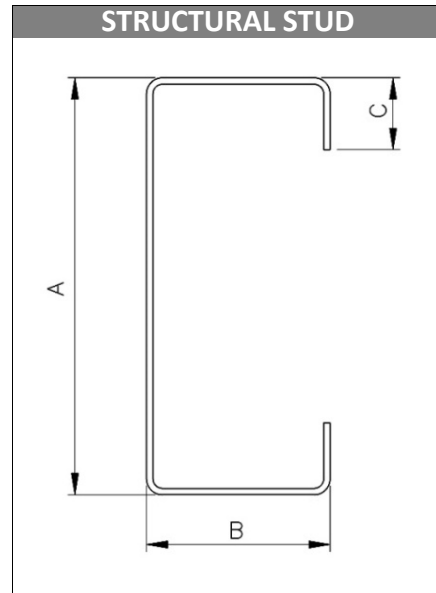
St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )	2.715
Torsional Warping Constant: <b>C<sub>w</sub></b> (in <sup>6</sup> )	94.534
Shear Center to Centroid on Principal X-axis: <b>X<sub>o</sub></b> (in)	-2.190
Shear Center to Mid-Plane of the Web: <b>m</b> (in)	1.391
Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in)	5.848
Torsional Flexural Constant: <b>β</b> [1-(x <sub>o</sub> /Ro) <sup>2</sup> ]	0.860

**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  
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