

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 800S350-118

**MARINO\WARE PART #** 800SW10

05.40.00 Cold-Formed Metal Framing

## PROPERTIES:

|                         |        |                                  |        |
|-------------------------|--------|----------------------------------|--------|
| <b>A. Web (in)</b>      | 8"     | <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>     | 0.1242 |
| <b>Mils</b>             | 118    | <b>Minimum Thickness (in)</b>    | 0.1180 |
| <b>Available Finish</b> | G60    | <b>Gauge</b>                     | 10     |

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

|   |      |
|---|------|
| Cross Sectional Area: <b>A</b> (in <sup>2</sup> )     | 2.00 |
| Weight of Member: (lb/ft)                             | 6.79 |
| Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )       | 20.0 |
| Section Modulus: <b>Sx</b> (in <sup>3</sup> )         | 5.01 |
| Radius of Gyration: <b>Rx</b> (in)                    | 3.17 |
| Gross Moment of Inertia: <b>Iy</b> (in <sup>4</sup> ) | 3.30 |
| Gross Radius of Gyration: <b>Ry</b> (in)              | 1.29 |

### EFFECTIVE SECTION PROPERTIES

|  |       |
|--|-------|
| Moment of Inertia-Deflection: <b>Ixe</b> (in <sup>4</sup> )  | 20.0  |
| Section Modulus: <b>Sxe</b> (in <sup>3</sup> )               | 4.76  |
| Allowable Local Bending Moment: <b>Mal</b> (in-k)            | 158*  |
| Allowable Distortional Bending Moment: <b>Mad</b> (in-k)     | 136   |
| Allowable strong axis shear away from punch: <b>Vag</b> (lb) | 16223 |
| Allowable strong axis shear at punch: <b>Vanet</b> (lb)      | 7110  |

\* Allowable Bending Moment includes cold work of forming

### TORSIONAL SECTION PROPERTIES

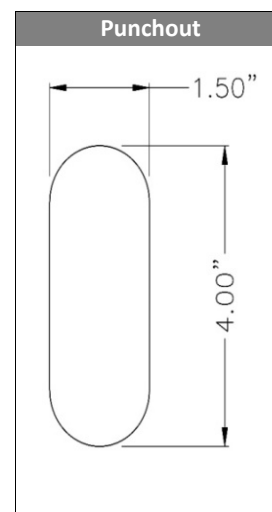
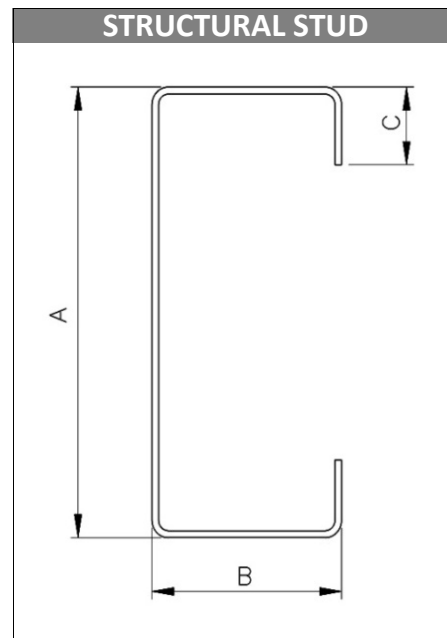
|   |       |
|---|-------|
| St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )   | 10.3  |
| Torsional Warping Constant: <b>Cw</b> (in <sup>6</sup> )          | 46.1  |
| Shear Center to Centroid on Principal X-axis: <b>Xo</b> (in)      | -2.68 |
| Shear Center to Mid-Plane of the Web: <b>m</b> (in)               | 1.62  |
| Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in) | 4.35  |
| Torsional Flexural Constant: <b>β</b> 1-(xo/Ro) <sup>2</sup>      | 0.619 |

## CODES & STANDARDS

- AISI S100 & S240
- 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.



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 11/5/2023  
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