

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 800S200-68

**MARINO\WARE PART #** 800SJ14

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>   | 2"   | <b>Tensile Strength Fu (KSI)</b> | 65     |
| <b>C. Lip (in)</b>      | 5/8" | <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> )                | 0.907 |
| Weight of Member: (lb/ft)  | 3.086 |
| Moment of Inertia: <b>I<sub>x</sub></b> (in <sup>4</sup> )       | 8.142 |
| Section Modulus: <b>S<sub>x</sub></b> (in <sup>3</sup> )         | 2.036 |
| Radius of Gyration: <b>R<sub>x</sub></b> (in)                    | 2.996 |
| Gross Moment of Inertia: <b>I<sub>y</sub></b> (in <sup>4</sup> ) | 0.435 |
| Gross Radius of Gyration: <b>R<sub>y</sub></b> (in)              | 0.692 |

### EFFECTIVE SECTION PROPERTIES

|   |       |
|---|-------|
| Moment of Inertia-Deflection: <b>I<sub>xe</sub></b> (in <sup>4</sup> )  | 8.140 |
| Section Modulus: <b>S<sub>xe</sub></b> (in <sup>3</sup> )               | 1.964 |
| Allowable Local Bending Moment: <b>M<sub>al</sub></b> (in-k)            | 65.2* |
| Allowable Distortional Bending Moment: <b>M<sub>ad</sub></b> (in-k)     | 49.10 |
| Allowable strong axis shear away from punch: <b>V<sub>ag</sub></b> (lb) | 4220  |
| Allowable strong axis shear at punch: <b>V<sub>anet</sub></b> (lb)      | 3367  |

\* Allowable Bending Moment includes cold work of forming

### TORSIONAL SECTION PROPERTIES

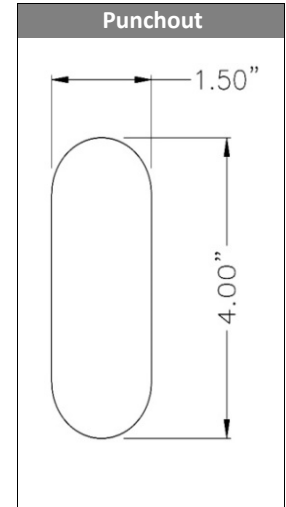
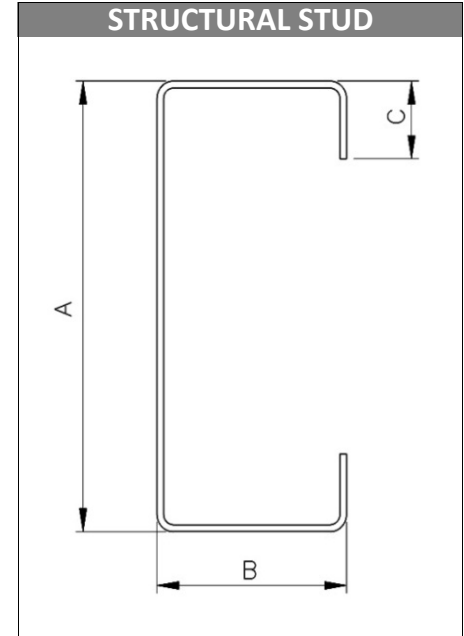
|  |        |
|--|--------|
| St. Venant Torsional Constant: <b>J<sub>x1000</sub></b> (in <sup>4</sup> )             | 1.537  |
| Torsional Warping Constant: <b>C<sub>w</sub></b> (in <sup>6</sup> )                    | 5.712  |
| Shear Center to Centroid on Principal X-axis: <b>X<sub>o</sub></b> (in)                | -1.248 |
| Shear Center to Mid-Plane of the Web: <b>m</b> (in)                                    | 0.796  |
| Radius of Gyration on the Centroid Principal axis: <b>R<sub>o</sub></b> (in)           | 3.319  |
| Torsional Flexural Constant: <b>β</b> 1-(x <sub>o</sub> /R <sub>o</sub> ) <sup>2</sup> | 0.859  |

## CODES & STANDARDS

- AISI S100, S240 & ICC ES ESR-4062
- 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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