

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 800S250-68

**MARINO\WARE PART #** 800SE14

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>   | 2-1/2" | <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> | G90    | <b>Gauge</b>                     | 14     |

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

|  |       |
|--|-------|
| Cross Sectional Area: <b>A</b> (in <sup>2</sup> )                | 0.978 |
| Weight of Member: (lb/ft)  | 3.329 |
| Moment of Inertia: <b>I<sub>x</sub></b> (in <sup>4</sup> )       | 9.263 |
| Section Modulus: <b>S<sub>x</sub></b> (in <sup>3</sup> )         | 2.316 |
| Radius of Gyration: <b>R<sub>x</sub></b> (in)                    | 3.077 |
| Gross Moment of Inertia: <b>I<sub>y</sub></b> (in <sup>4</sup> ) | 0.752 |
| Gross Radius of Gyration: <b>R<sub>y</sub></b> (in)              | 0.877 |

### EFFECTIVE SECTION PROPERTIES

|   |       |
|---|-------|
| Moment of Inertia-Deflection: <b>I<sub>xe</sub></b> (in <sup>4</sup> )  | 9.141 |
| Section Modulus: <b>S<sub>xe</sub></b> (in <sup>3</sup> )               | 2.059 |
| Allowable Local Bending Moment: <b>M<sub>al</sub></b> (in-k)            | 61.65 |
| Allowable Distortional Bending Moment: <b>M<sub>ad</sub></b> (in-k)     | 51.70 |
| 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  |

### TORSIONAL SECTION PROPERTIES

|   |        |
|---|--------|
| St. Venant Torsional Constant: <b>J<sub>x1000</sub></b> (in <sup>4</sup> )        | 1.658  |
| Torsional Warping Constant: <b>C<sub>w</sub></b> (in <sup>6</sup> )               | 9.653  |
| Shear Center to Centroid on Principal X-axis: <b>X<sub>o</sub></b> (in)           | -1.644 |
| Shear Center to Mid-Plane of the Web: <b>m</b> (in)                               | 1.027  |
| Radius of Gyration on the Centroid Principal axis: <b>R<sub>o</sub></b> (in)      | 3.597  |
| Torsional Flexural Constant: <b>β 1-(x<sub>o</sub>/R<sub>o</sub>)<sup>2</sup></b> | 0.791  |

## 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.

