

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1000S350-68

MARINO\WARE PART # 100SW14

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

| | | | |
|-------------------------|--------|----------------------------------|--------|
| A. Web (in) | 10" | Yield Strength Fy (KSI) | 50 |
| B. Flange (in) | 3-1/2" | Tensile Strength Fu (KSI) | 65 |
| C. Lip (in) | 1" | Design Thickness (in) | 0.0713 |
| Mils | 68 | Minimum Thickness (in) | 0.0677 |
| Available Finish | G90 | Gauge | 14 |

SECTION PROPERTIES

GROSS SECTION PROPERTIES

| | |
|---|--------|
| Cross Sectional Area: A (in ²) | 1.32 |
| Weight of Member: (lb/ft) | 4.481 |
| Moment of Inertia: Ix (in ⁴) | 20.208 |
| Section Modulus: Sx (in ³) | 4.042 |
| Radius of Gyration: Rx (in) | 3.917 |
| Gross Moment of Inertia: Iy (in ⁴) | 2.185 |
| Gross Radius of Gyration: Ry (in) | 1.288 |

EFFECTIVE SECTION PROPERTIES

| | |
|--|--------|
| Moment of Inertia-Deflection: Ixe (in ⁴) | 19.745 |
| Section Modulus: Sxe (in ³) | 3.418 |
| Allowable Local Bending Moment: Mal (in-k) | 102.33 |
| Allowable Distortional Bending Moment: Mad (in-k) | 83.70 |
| Allowable strong axis shear away from punch: Vag (lb) | 3345 |
| Allowable strong axis shear at punch: Vanet (lb) | 3345 |

TORSIONAL SECTION PROPERTIES

| | |
|---|--------|
| St. Venant Torsional Constant: Jx1000 (in ⁴) | 2.232 |
| Torsional Warping Constant: Cw (in ⁶) | 45.277 |
| Shear Center to Centroid on Principal X-axis: Xo (in) | -2.529 |
| Shear Center to Mid-Plane of the Web: m (in) | 1.557 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 4.837 |
| Torsional Flexural Constant: β 1-(xo/Ro) ² | 0.727 |

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.

