

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1000S250-54

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 100SE16

PROPERTIES:

| | | | |
|-------------------------|--------|----------------------------------|--------|
| A. Web (in) | 10" | Yield Strength Fy (KSI) | 50 |
| B. Flange (in) | 2-1/2" | Tensile Strength Fu (KSI) | 65 |
| C. Lip (in) | 5/8" | Design Thickness (in) | 0.0566 |
| Mils | 54 | Minimum Thickness (in) | 0.0538 |
| Available Finish | G90 | Gauge | 16 |

SECTION PROPERTIES

GROSS SECTION PROPERTIES

| | |
|---|--------|
| Cross Sectional Area: A (in ²) | 0.896 |
| Weight of Member: (lb/ft) | 3.049 |
| Moment of Inertia: Ix (in ⁴) | 12.680 |
| Section Modulus: Sx (in ³) | 2.536 |
| Radius of Gyration: Rx (in) | 3.762 |
| Gross Moment of Inertia: Iy (in ⁴) | 0.653 |
| Gross Radius of Gyration: Ry (in) | 0.854 |

EFFECTIVE SECTION PROPERTIES

| | |
|--|--------|
| Moment of Inertia-Deflection: Ixe (in ⁴) | 12.202 |
| Section Modulus: Sxe (in ³) | 1.879 |
| Allowable Local Bending Moment: Mal (in-k) | 56.27 |
| Allowable Distortional Bending Moment: Mad (in-k) | 47.60 |
| Allowable strong axis shear away from punch: Vag (lb) | 1660 |
| Allowable strong axis shear at punch: Vanet (lb) | 1660 |

TORSIONAL SECTION PROPERTIES

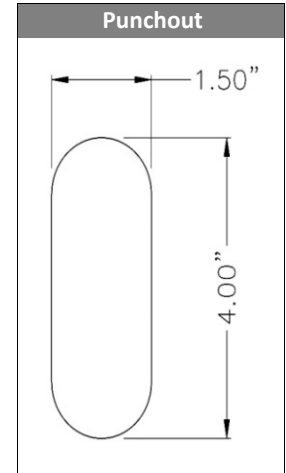
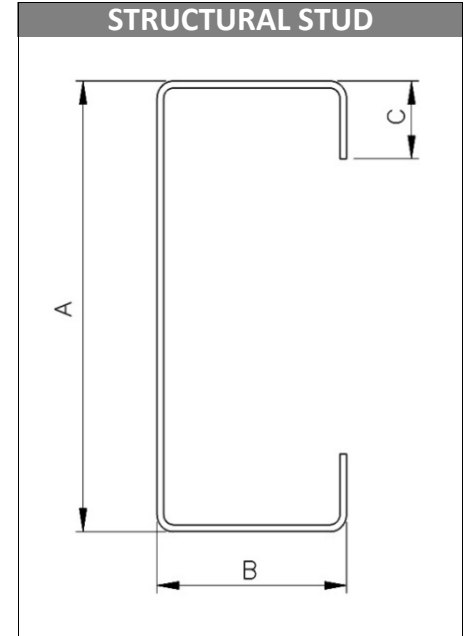
| | |
|---|--------|
| St. Venant Torsional Constant: Jx1000 (in ⁴) | 0.957 |
| Torsional Warping Constant: Cw (in ⁶) | 12.922 |
| Shear Center to Centroid on Principal X-axis: Xo (in) | -1.505 |
| Shear Center to Mid-Plane of the Web: m (in) | 0.958 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 4.141 |
| Torsional Flexural Constant: β 1-(xo/Ro) ² | 0.868 |

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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