

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1600S200-68

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 160SJ14

PROPERTIES:

| | | | |
|-------------------------|------|----------------------------------|--------|
| A. Web (in) | 16" | Yield Strength Fy (KSI) | 50 |
| B. Flange (in) | 2" | Tensile Strength Fu (KSI) | 65 |
| C. Lip (in) | 5/8" | Design Thickness (in) | 0.0713 |
| Mils | 68 | Minimum Thickness (in) | 0.0677 |
| Available Finish | G60 | Gauge | 14 |

SECTION PROPERTIES

GROSS SECTION PROPERTIES

| | |
|---|--------|
| Cross Sectional Area: A (in ²) | 1.48 |
| Weight of Member: (lb/ft) | 5.027 |
| Moment of Inertia: Ix (in ⁴) | 45.307 |
| Section Modulus: Sx (in ³) | 5.663 |
| Radius of Gyration: Rx (in) | 5.538 |
| Gross Moment of Inertia: Iy (in ⁴) | 0.506 |
| Gross Radius of Gyration: Ry (in) | 0.585 |

EFFECTIVE SECTION PROPERTIES

| | |
|--|--------|
| Moment of Inertia-Deflection: Ixe (in ⁴) | 40.059 |
| Section Modulus: Sxe (in ³) | 4.045 |
| Allowable Local Bending Moment: Mal (in-k) | 121.10 |
| Allowable Distortional Bending Moment: Mad (in-k) | 93.40 |
| Allowable strong axis shear away from punch: Vag (lb) | 2062 |
| Allowable strong axis shear at punch: Vanet (lb) | 2062 |

TORSIONAL SECTION PROPERTIES

| | |
|---|--------|
| St. Venant Torsional Constant: Jx1000 (in ⁴) | 2.503 |
| Torsional Warping Constant: Cw (in ⁶) | 27.155 |
| Shear Center to Centroid on Principal X-axis: Xo (in) | -0.862 |
| Shear Center to Mid-Plane of the Web: m (in) | 0.584 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 5.635 |
| Torsional Flexural Constant: β 1-(xo/Ro) ² | 0.977 |

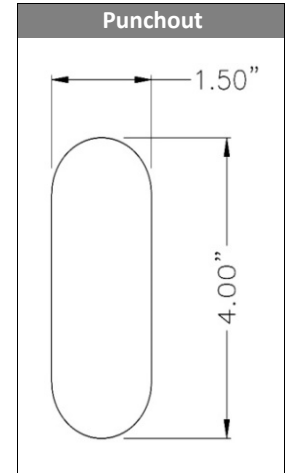
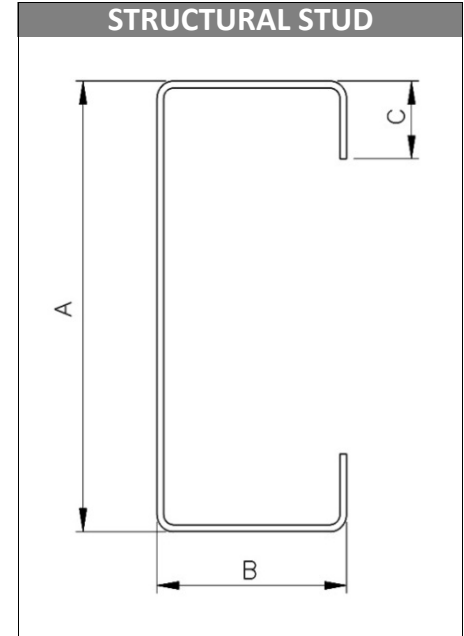
CODES & STANDARDS

- 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.

Note: Web depth to thickness ratio (h/t) exceeds 200. Web stiffeners required at all support points and concentrated loads.



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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