

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800S200-33

MARINO\WARE PART # 800SJ20

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

| | | | |
|-------------------------|------|----------------------------------|--------|
| A. Web (in) | 8" | Yield Strength Fy (KSI) | 33 |
| B. Flange (in) | 2" | Tensile Strength Fu (KSI) | 45 |
| C. Lip (in) | 5/8" | Design Thickness (in) | 0.0346 |
| Mils | 33 | Minimum Thickness (in) | 0.0329 |
| Available Finish | G90 | Gauge | 20 |

SECTION PROPERTIES

GROSS SECTION PROPERTIES

| | |
|---|-------|
| Cross Sectional Area: A (in ²) | 0.448 |
| Weight of Member: (lb/ft) | 1.52 |
| Moment of Inertia: Ix (in ⁴) | 4.096 |
| Section Modulus: Sx (in ³) | 1.024 |
| Radius of Gyration: Rx (in) | 3.023 |
| Gross Moment of Inertia: Iy (in ⁴) | 0.227 |
| Gross Radius of Gyration: Ry (in) | 0.712 |

EFFECTIVE SECTION PROPERTIES

| | |
|--|-------|
| Moment of Inertia-Deflection: Ixe (in ⁴) | 4.10 |
| Section Modulus: Sxe (in ³) | 0.82 |
| Allowable Bending Moment: Ma (in-k) | 16.12 |
| Allowable strong axis shear away from punch: Vag (lb) | 474 |
| Allowable strong axis shear at punch: Vanet (lb) | 474 |

TORSIONAL SECTION PROPERTIES

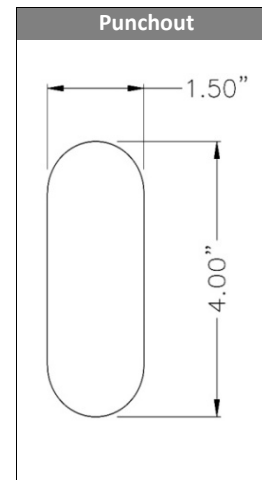
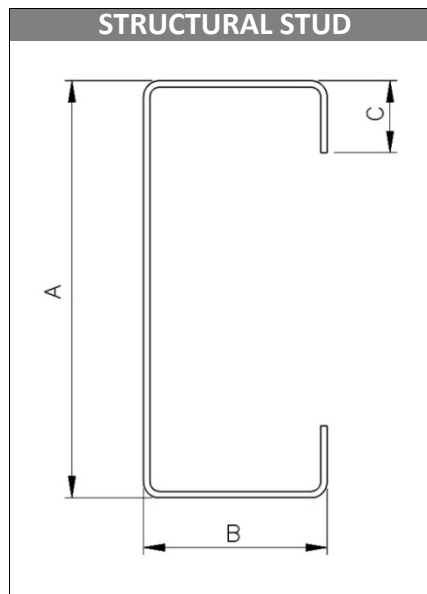
| | |
|---|--------|
| St. Venant Torsional Constant: Jx1000 (in ⁴) | 0.179 |
| Torsional Warping Constant: Cw (in ⁶) | 2.971 |
| Shear Center to Centroid on Principal X-axis: Xo (in) | -1.288 |
| Shear Center to Mid-Plane of the Web: m (in) | 0.817 |
| Radius of Gyration on the Centroid Principal axis: Ro (in) | 3.363 |
| Torsional Flexural Constant: β [1-(xo/Ro) ²] | 0.853 |

CODES & STANDARDS

- AISI S100-12 & ICC ES ESR-4062
- Framing meets ASTM A 1003, A 653, & C 955
- Meets IBC 2015 & 2012, FBC 2014, CSSA code compliant

GREEN INFO

- LEED v3 & LEED v4 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 1/5/2017
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