

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600S137-97

MARINO\WARE PART # 600SC12

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

| | | | |
|-------------------------|--------|----------------------------------|--------|
| A. Web (in) | 6" | Yield Strength Fy (KSI) | 50 |
| B. Flange (in) | 1-3/8" | Tensile Strength Fu (KSI) | 65 |
| C. Lip (in) | 3/8" | Design Thickness (in) | 0.1017 |
| Mils | 97 | Minimum Thickness (in) | 0.0966 |
| Available Finish | G90 | Gauge | 12 |

SECTION PROPERTIES

GROSS SECTION PROPERTIES

| | |
|--|-------|
| Cross Sectional Area: A (in ²) | 0.889 |
| Weight of Member: (lb/ft) | 3.03 |
| Moment of Inertia: I_x (in ⁴) | 4.188 |
| Section Modulus: S_x (in ³) | 1.396 |
| Radius of Gyration: R_x (in) | 2.170 |
| Gross Moment of Inertia: I_y (in ⁴) | 0.159 |
| Gross Radius of Gyration: R_y (in) | 0.422 |

EFFECTIVE SECTION PROPERTIES

| | |
|---|--------|
| Moment of Inertia-Deflection: I_{xe} (in ⁴) | 4.19 |
| Section Modulus: S_{xe} (in ³) | 1.40 |
| Allowable Local Bending Moment: M_{al} (in-k) | 50.80* |
| Allowable Distortional Bending Moment: M_{ad} (in-k) | 41.40 |
| Allowable strong axis shear away from punch: V_{ag} (lb) | 10472 |
| Allowable strong axis shear at punch: V_{anet} (lb) | 3805 |

* Allowable Bending Moment includes cold work of forming

TORSIONAL SECTION PROPERTIES

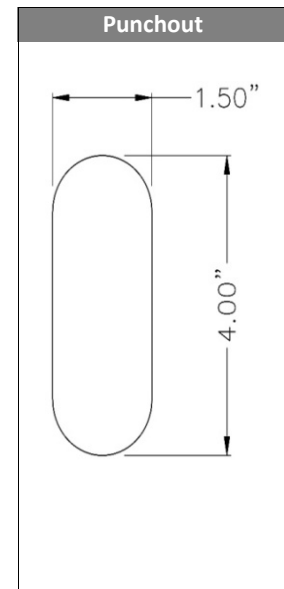
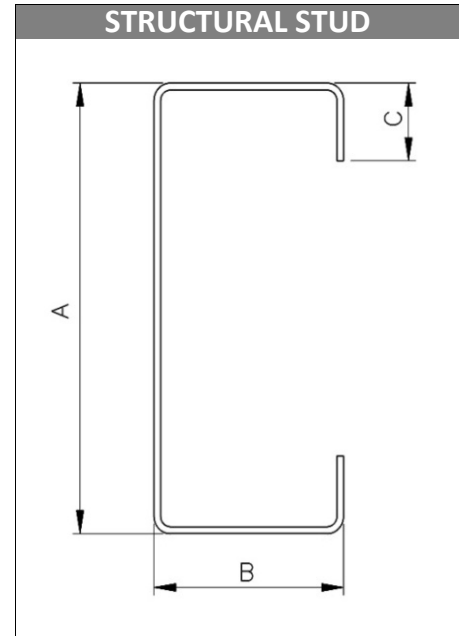
| | |
|--|--------|
| St. Venant Torsional Constant: J_{x1000} (in ⁴) | 3.066 |
| Torsional Warping Constant: C_w (in ⁶) | 1.216 |
| Shear Center to Centroid on Principal X-axis: X_o (in) | -0.734 |
| Shear Center to Mid-Plane of the Web: m (in) | 0.480 |
| Radius of Gyration on the Centroid Principal axis: R_o (in) | 2.330 |
| Torsional Flexural Constant: β 1-(x _o /R _o) ² | 0.901 |

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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