# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** **600SR250-68**

**05.40.00 Cold-Formed Metal Framing**

**MARINO\WARE PART #** 600RE14

## PROPERTIES:

| | | | |
|---|---|---|---|
| **A. Web (in)** | 6" | **Yield Strength Fy (KSI)** | 50 |
| **B. Flange (in)** | 2.5" | **Tensile Strength Fu (KSI)** | 65 |
| **C. Lip (in)** | 0.625" | **Design Thickness (in)** | 0.0713 |
| **Mils** | 68 | **Minimum Thickness (in)** | 0.0677 |
| **Available Finish** | CP60, CP90 | **Gauge** | 14 |

## SECTION PROPERTIES

***GROSS SECTION PROPERTIES***

| | |
|---|---|
| Weight of Member: (lb/ft) | 2.47 |
| Cross Sectional Area: **A** ($in^2$) | 0.662 |
| Moment of Inertia: **Ix** ($in^4$) | 4.65 |
| Section Modulus: **Sx** ($in^3$) | 1.55 |
| Radius of Gyration: **Rx** (in) | 2.65 |
| Gross Moment of Inertia: **Iy** ($in^4$) | 0.557 |
| Gross Radius of Gyration: **Ry** (in) | 0.917 |

***EFFECTIVE SECTION PROPERTIES***

| | |
|---|---|
| Moment of Inertia-Deflection: **Ixed** ($in^4$) | 4.59 |
| Section Modulus: **Sxe** ($in^3$) | 1.34 |
| Allowable Bending Moment: **Ma** (in-k) | 40.1 |
| Allowable Shear Force: **Va** (K) | 1.21 |

***TORSIONAL SECTION PROPERTIES***

| | |
|---|---|
| St. Venant Torsional Constant: **Jx1000** ($in^4$) | 1.12 |
| Torsional Warping Constant: $C_w$ ($in^6$) | 4.89 |
| Distance From Shear Center To Centroid Principle x-axis $x_o$ (in.) | -2.09 |
| Distance From Shear Center to Mid-Plane of Web **m** (in.) | 1.17 |
| Radius of Gyration on the Centroid Principal axis: $r_o$ (in.) | 3.50 |
| $1 - (x_o/r_o)^2 = ß$ | 0.642 |
| Critical Unbraced Length, lateral torsional buckling excluded $L_u$ (in.) | 47.5 |

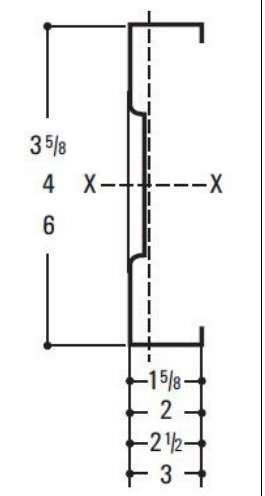
## CODES & STANDARDS

- Meets ASTM A 1003, A 653, C955 & AISI S240
- Coating meets ASTM C 955 / AISI S240
- Meets IBC 2021, 2018
- IAPMO ES ER-0781

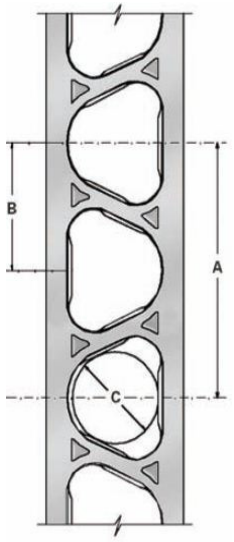
## GREEN INFO

- LEED v4 credits available
- Contact Technical Services for more information

**STUDRITE**




**Hole Sizes**




| Section | A (in) | B (in) | C |
|---|---|---|---|
| **3-5/8"** | 7.0 | 3.5 | 1-3/4 |
| **4"** | 7.0 | 3.5 | 1-3/4 |
| **6"** | 8.1 | 4.0 | 2-7/8 |

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**For more information, please contact Marino\WARE Technical Services at 866-545-1545.**