

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 362SR125-18

09 22 16 Non Structural Metal Stud

## PROPERTIES:

|              |       |                            |                 |
|--------------|-------|----------------------------|-----------------|
| Web (in.)    | 3-5/8 | Yield Strength $F_y$ (ksi) | 40              |
| Flange (in.) | 1-1/4 | Design Thickness (in.)     | 0.0188          |
| Lip (in.)    | 1/4   | Minimum Thickness (in.)    | 0.0179          |
| Mils         | 18    | Available Finish           | G40, G40EQ, G60 |

## SECTION PROPERTIES

### NET SECTION PROPERTIES

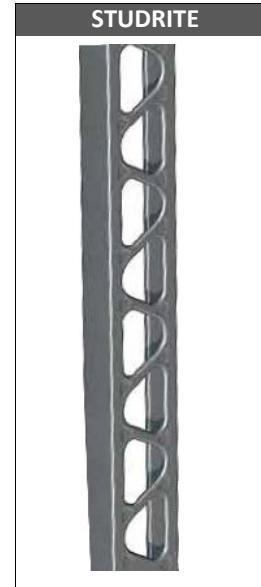
|  |        |
|--|--------|
| Cross Sectional Area: $A$ (in <sup>2</sup> ) | 0.100  |
| Weight of Member: (lb/ft)                    | 0.36   |
| Moment of Inertia: $I_x$ (in <sup>4</sup> )  | 0.240  |
| Section Modulus: $S_x$ (in <sup>3</sup> )    | 0.132  |
| Radius of Gyration: $r_x$ (in.)              | 1.55   |
| Moment of Inertia: $I_y$ (in <sup>4</sup> )  | 0.0187 |
| Radius of Gyration: $r_y$ (in.)              | 0.432  |

### NET EFFECTIVE SECTION PROPERTIES

|  |       |
|--|-------|
| Moment of Inertia-Deflection: $I_x$ (in <sup>4</sup> ) | 0.219 |
| Section Modulus: $S_x$ (in <sup>3</sup> )              | 0.104 |
| Allowable Moment: $Ma$ (in.-k)                         | 1.87  |
| Allowable Shear Force: $V_a$ (kip)                     | 0.094 |

### TORSIONAL SECTION PROPERTIES

|   |        |
|---|--------|
| St. Venant Torsional Constant: $Jx1000$ (in <sup>4</sup> )                      | 0.0118 |
| Torsional Warping Constant: $C_w$ (in <sup>6</sup> )                            | 0.0584 |
| Distance From Shear Center To Centroid Principle x-axis $x_o$ (in.)             | -0.951 |
| Distance From Shear Center to Mid-Plane of Web $m$ (in.)                        | 0.532  |
| Radius of Gyration on the Centroid Principal axis: $r_o$ (in.)                  | 1.87   |
| $1 - (x_o/r_o)^2 = \beta$   | 0.740  |
| Critical Unbraced Length, lateral torsional buckling not considered $L_u$ (in.) | 25.6   |



## CODES & STANDARDS

- Meets ASTM A 1003, A 653, C 645 & AISI S220
- Coating meets ASTM C 645 & AISI S220
- Meets IBC 2021, 2018
- IAPMO ES ER-0781

## GREEN INFO

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

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www.marinoware.com

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

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