

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 400SR125-30

09 22 16 Non Structural Metal Stud

## PROPERTIES:

Web (in.)	4	Yield Strength $F_y$ (ksi)	40
Flange (in.)	1-1/4	Design Thickness (in.)	0.0312
Lip (in.)	1/4	Minimum Thickness (in.)	0.0296
Mils	30	Available Finish	G40, G40EQ, G60

## SECTION PROPERTIES

### NET SECTION PROPERTIES

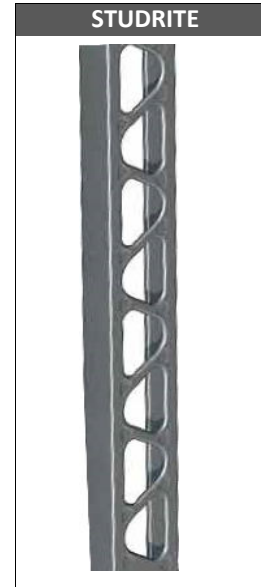
Cross Sectional Area: $A$ (in <sup>2</sup> )	0.176
Weight of Member: (lb/ft)	0.63
Moment of Inertia: $I_x$ (in <sup>4</sup> )	0.494
Section Modulus: $S_x$ (in <sup>3</sup> )	0.247
Radius of Gyration: $r_x$ (in.)	1.67
Moment of Inertia: $I_y$ (in <sup>4</sup> )	0.0318
Radius of Gyration: $r_y$ (in.)	0.425

### NET EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: $I_x$ (in <sup>4</sup> )	0.483
Section Modulus: $S_x$ (in <sup>3</sup> )	0.216
Allowable Moment: $Ma$ (in.-k)	4.30
Allowable Shear Force: $V_a$ (kip)	0.219

### TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: $Jx1000$ (in <sup>4</sup> )	0.0573
Torsional Warping Constant: $C_w$ (in <sup>6</sup> )	0.117
Distance From Shear Center To Centroid Principle x-axis $x_o$ (in.)	-0.891
Distance From Shear Center to Mid-Plane of Web $m$ (in.)	0.504
Radius of Gyration on the Centroid Principal axis: $r_o$ (in.)	1.94
$1 - (x_o/r_o)^2 = \beta$	0.790
Critical Unbraced Length, lateral torsional buckling not considered $L_u$ (in.)	25.5



## 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

**StudRite™**



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 7/1/2021  
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