

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400SR125-33

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.)	0.0346
Lip (in.)	1/4	Minimum Thickness (in.)	0.0329
Mils	33	Available Finish	G40, G40EQ, G60

SECTION PROPERTIES

NET SECTION PROPERTIES

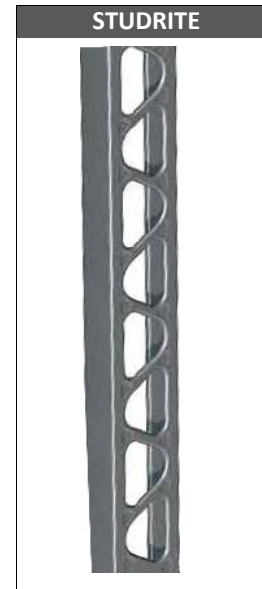
Cross Sectional Area: A (in ²)	0.195
Weight of Member: (lb/ft)	0.69
Moment of Inertia: I_x (in ⁴)	0.545
Section Modulus: S_x (in ³)	0.273
Radius of Gyration: r_x (in.)	1.67
Moment of Inertia: I_y (in ⁴)	0.0350
Radius of Gyration: r_y (in.)	0.423

NET EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	0.535
Section Modulus: S_x (in ³)	0.246
Allowable Moment: Ma (in.-k)	4.98
Allowable Shear Force: V_a (kip)	0.262

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.0779
Torsional Warping Constant: C_w (in ⁶)	0.128
Distance From Shear Center To Centroid Principle x-axis x_o (in.)	-0.887
Distance From Shear Center to Mid-Plane of Web m (in.)	0.502
Radius of Gyration on the Centroid Principal axis: r_o (in.)	1.94
$1 - (x_o/r_o)^2 = \beta$	0.791
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™**

MARINO\WARE
www.marinoware.com

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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