

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400SR125-18

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.)	0.0188
Lip (in.)	1/4	Minimum Thickness (in.)	0.0179
Mils	18	Available Finish	G40, G40EQ, G60

SECTION PROPERTIES

NET SECTION PROPERTIES

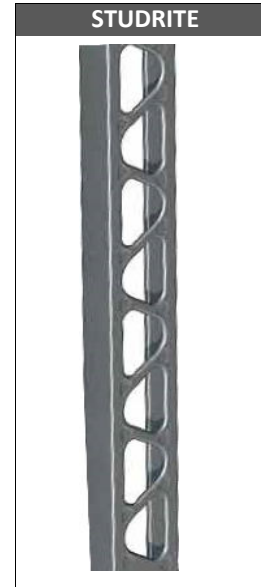
Cross Sectional Area: A (in ²)	0.107
Weight of Member: (lb/ft)	0.38
Moment of Inertia: I_x (in ⁴)	0.302
Section Modulus: S_x (in ³)	0.151
Radius of Gyration: r_x (in.)	1.68
Moment of Inertia: I_y (in ⁴)	0.0199
Radius of Gyration: r_y (in.)	0.430

NET EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	0.277
Section Modulus: S_x (in ³)	0.120
Allowable Moment: Ma (in.-k)	2.09
Allowable Shear Force: V_a (kip)	0.094

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: $Jx1000$ (in ⁴)	0.0127
Torsional Warping Constant: C_w (in ⁶)	0.0735
Distance From Shear Center To Centroid Principle x-axis x_o (in.)	-0.904
Distance From Shear Center to Mid-Plane of Web m (in.)	0.512
Radius of Gyration on the Centroid Principal axis: r_o (in.)	1.95
$1 - (x_o/r_o)^2 = \beta$	0.786
Critical Unbraced Length, lateral torsional buckling not considered L_u (in.)	25.8



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



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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