

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400S300-68

MARINO\WARE PART # 400SX14

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	4"	Yield Strength Fy (KSI)	50
B. Flange (in)	3"	Tensile Strength Fu (KSI)	65
C. Lip (in)	5/8"	Design Thickness (in)	0.0713
Mils	68	Minimum Thickness (in)	0.0677
Available Finish	G90	Gauge	14

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.764
Weight of Member: (lb/ft)	2.60
Moment of Inertia: Ix (in ⁴)	2.14
Section Modulus: Sx (in ³)	1.07
Radius of Gyration: Rx (in)	1.67
Gross Moment of Inertia: Iy (in ⁴)	0.933
Gross Radius of Gyration: Ry (in)	1.11

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	2.02
Section Modulus: Sxe (in ³)	0.804
Allowable Local Bending Moment: Mal (in-k)	24.1
Allowable Distortional Bending Moment: Mad (in-k)	24.9
Allowable strong axis shear away from punch: Vag (lb)	4871
Allowable strong axis shear at punch: Vanet (lb)	1356

TORSIONAL SECTION PROPERTIES

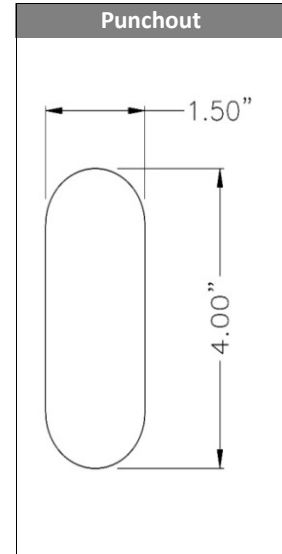
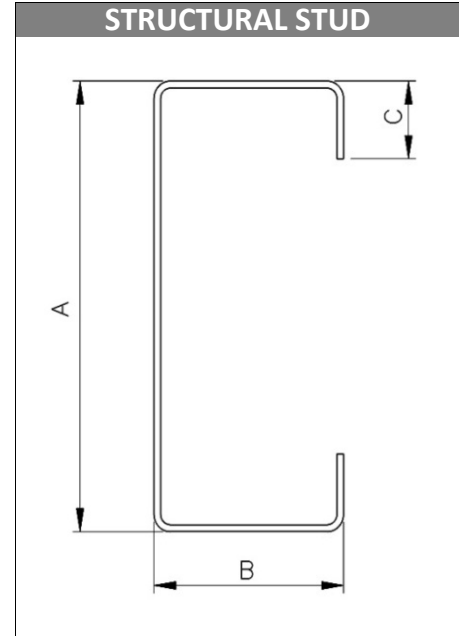
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.30
Torsional Warping Constant: Cw (in ⁶)	3.43
Shear Center to Centroid on Principal X-axis: Xo (in)	-2.57
Shear Center to Mid-Plane of the Web: m (in)	1.49
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.26
Torsional Flexural Constant: β 1-(xo/Ro) ²	0.378

CODES & STANDARDS

- AISI S100, S240
- ASTM A 1003, A 653, & C 955
- IBC 2012, 2015, 2018, 2021 & FBC 2020, 2023

GREEN INFO

- LEED 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 11/5/2023

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