

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1000S250-68

MARINO\WARE PART # 100SE14

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	10"	Yield Strength Fy (KSI)	50
B. Flange (in)	2-1/2"	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)	1.12
Weight of Member: (lb/ft)	3.814
Moment of Inertia: I_x (in ⁴)	15.755
Section Modulus: S_x (in ³)	3.151
Radius of Gyration: R_x (in)	3.749
Gross Moment of Inertia: I_y (in ⁴)	0.799
Gross Radius of Gyration: R_y (in)	0.844

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_{xe} (in ⁴)	15.553
Section Modulus: S_{xe} (in ³)	2.769
Allowable Local Bending Moment: M_{al} (in-k)	82.90
Allowable Distortional Bending Moment: M_{ad} (in-k)	65.70
Allowable strong axis shear away from punch: V_{ag} (lb)	3345
Allowable strong axis shear at punch: V_{anet} (lb)	3345

TORSIONAL SECTION PROPERTIES

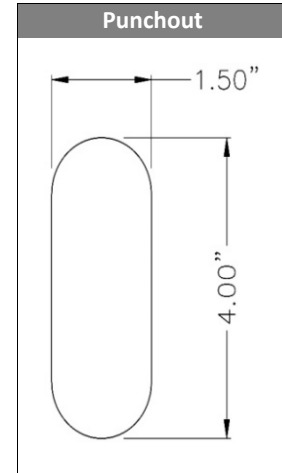
St. Venant Torsional Constant: J_{x1000} (in ⁴)	1.899
Torsional Warping Constant: C_w (in ⁶)	15.909
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.488
Shear Center to Mid-Plane of the Web: m (in)	0.950
Radius of Gyration on the Centroid Principal axis: R_o (in)	4.121
Torsional Flexural Constant: β 1-(x_o/R_o)²	0.870

CODES & STANDARDS

- AISI S100, S240 & ICC ES ESR-4062
- 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
©Copyright 2023 by Ware Industries, Inc. All rights reserved