

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	G60	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: Ix (in ⁴)	15.755
Section Modulus: Sx (in ³)	3.151
Radius of Gyration: Rx (in)	3.749
Gross Moment of Inertia: Iy (in ⁴)	0.799
Gross Radius of Gyration: Ry (in)	0.844

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	15.553
Section Modulus: Sxe (in ³)	2.769
Allowable Local Bending Moment: Mal (in-k)	82.90
Allowable Distortional Bending Moment: Mad (in-k)	65.70
Allowable strong axis shear away from punch: Vag (lb)	3345
Allowable strong axis shear at punch: Vanet (lb)	3345

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	1.899
Torsional Warping Constant: Cw (in ⁶)	15.909
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.488
Shear Center to Mid-Plane of the Web: m (in)	0.950
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.121
Torsional Flexural Constant: β 1-(xo/Ro) 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.

