

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600S250-97

MARINO\WARE PART # 600SE12

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	Yield Strength Fy (KSI)	50
B. Flange (in)	2-1/2"	Tensile Strength Fu (KSI)	65
C. Lip (in)	5/8"	Design Thickness (in)	0.1017
Mils	97	Minimum Thickness (in)	0.0966
Available Finish	G60	Gauge	12

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	1.17
Weight of Member: (lb/ft)	3.977
Moment of Inertia: Ix (in ⁴)	6.497
Section Modulus: Sx (in ³)	2.166
Radius of Gyration: Rx (in)	2.358
Gross Moment of Inertia: Iy (in ⁴)	0.923
Gross Radius of Gyration: Ry (in)	0.889

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	6.496
Section Modulus: Sxe (in ³)	2.063
Allowable Local Bending Moment: Mal (in-k)	69.4*
Allowable Distortional Bending Moment: Mad (in-k)	59.00
Allowable strong axis shear away from punch: Vag (lb)	10472
Allowable strong axis shear at punch: Vanet (lb)	3805

* Allowable Bending Moment includes cold work of forming

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	4.030
Torsional Warping Constant: Cw (in ⁶)	6.947
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.803
Shear Center to Mid-Plane of the Web: m (in)	1.100
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.099
Torsional Flexural Constant: β 1-(xo/Ro) ²	0.661

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.

