

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600S250-118

MARINO\WARE PART # 600SE10

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)	0.1242"
Mils	118	Minimum Thickness (in)	0.1180"
Available Finish	G90	Gauge	10

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	1.407
Weight of Member: (lb/ft)	4.79
Moment of Inertia: I_x (in ⁴)	7.713
Section Modulus: S_x (in ³)	2.571
Radius of Gyration: R_x (in)	2.342
Gross Moment of Inertia: I_y (in ⁴)	1.075
Gross Radius of Gyration: R_y (in)	0.874

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_{xe} (in ⁴)	7.71
Section Modulus: S_{xe} (in ³)	2.50
Allowable Bending Moment: Ma (in-k)	85.92*
Allowable strong axis shear away from punch: V_{ag} (lb)	12526
Allowable strong axis shear at punch: V_{anet} (lb)	3622

* Allowable Bending Moment includes cold work of forming

TORSIONAL SECTION PROPERTIES

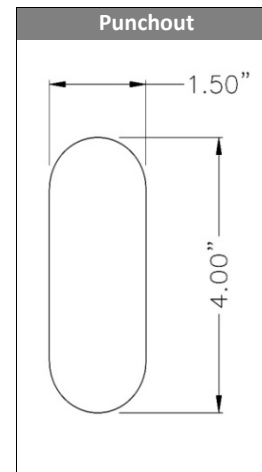
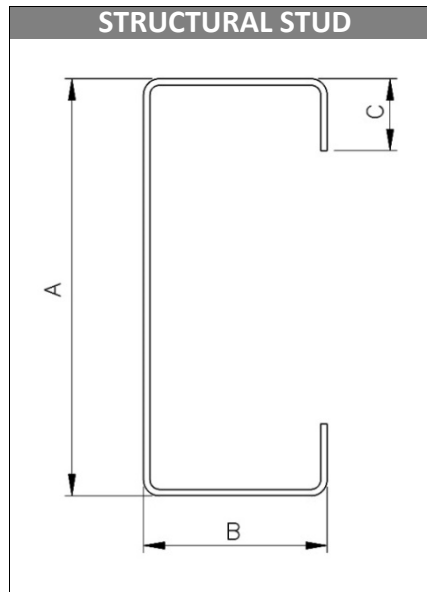
St. Venant Torsional Constant: J_{x1000} (in ⁴)	7.234
Torsional Warping Constant: C_w (in ⁶)	8.142
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.775
Shear Center to Mid-Plane of the Web: m (in)	1.085
Radius of Gyration on the Centroid Principal axis: R_o (in)	3.066
Torsional Flexural Constant: β 1-(x _o /R _o) ²	0.665

CODES & STANDARDS

- AISI S100-12 & ICC ES ESR-4062
- Framing meets ASTM A 1003, A 653, & C 955
- Meets IBC 2015 & 2012, FBC 2014, CSSA code compliant

GREEN INFO

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information.



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

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