

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800S350-118

MARINO\WARE PART # 800SW10

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	8"	Yield Strength Fy (KSI)	50
B. Flange (in)	3-1/2"	Tensile Strength Fu (KSI)	65
C. Lip (in)	1"	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)	2.00
Weight of Member: (lb/ft)	6.79
Moment of Inertia: Ix (in ⁴)	20.0
Section Modulus: Sx (in ³)	5.01
Radius of Gyration: Rx (in)	3.17
Gross Moment of Inertia: Iy (in ⁴)	3.30
Gross Radius of Gyration: Ry (in)	1.29

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	20.0
Section Modulus: Sxe (in ³)	4.76
Allowable Local Bending Moment: Mal (in-k)	158*
Allowable Distortional Bending Moment: Mad (in-k)	136
Allowable strong axis shear away from punch: Vag (lb)	16223
Allowable strong axis shear at punch: Vanet (lb)	7110

* Allowable Bending Moment includes cold work of forming

TORSIONAL SECTION PROPERTIES

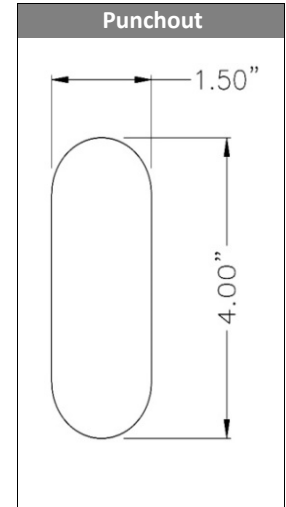
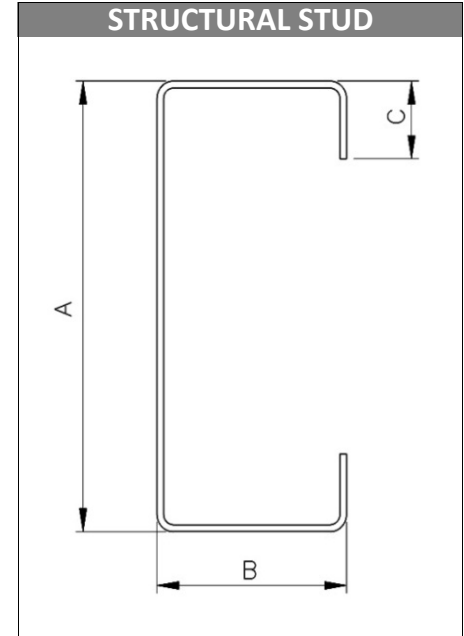
St. Venant Torsional Constant: Jx1000 (in ⁴)	10.3
Torsional Warping Constant: Cw (in ⁶)	46.1
Shear Center to Centroid on Principal X-axis: Xo (in)	-2.68
Shear Center to Mid-Plane of the Web: m (in)	1.62
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.35
Torsional Flexural Constant: $\beta 1-(x_0/R_0)^2$	0.619

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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