

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1600S350-118

MARINO\WARE PART # 160SW10

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	16"	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)	2.990
Weight of Member: (lb/ft)	10.18
Moment of Inertia: Ix (in ⁴)	103.892
Section Modulus: Sx (in ³)	12.987
Radius of Gyration: Rx (in)	5.894
Gross Moment of Inertia: Iy (in ⁴)	4.038
Gross Radius of Gyration: Ry (in)	1.162

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	102.53
Section Modulus: Sxe (in ³)	11.31
Allowable Bending Moment: Ma (in-k)	338.47
Allowable strong axis shear away from punch: Vag (lb)	11088
Allowable strong axis shear at punch: Vanet (lb)	11088

TORSIONAL SECTION PROPERTIES

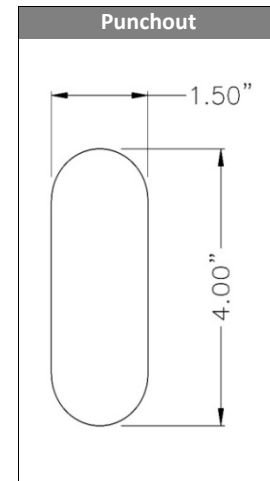
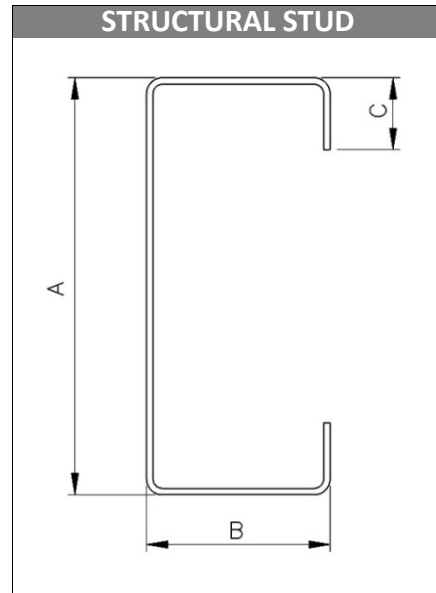
St. Venant Torsional Constant: Jx1000 (in ⁴)	15.376
Torsional Warping Constant: Cw (in ⁶)	209.692
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.998
Shear Center to Mid-Plane of the Web: m (in)	1.291
Radius of Gyration on the Centroid Principal axis: Ro (in)	6.331
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.900

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.

This technical information reflects the most current information available and supersedes any and all publications, effective 1/5/2017
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