

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600S350-97

MARINO\WARE PART # 600SW12

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	Yield Strength Fy (KSI)	50
B. Flange (in)	3-1/2"	Tensile Strength Fu (KSI)	65
C. Lip (in)	1"	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)	1.45
Weight of Member: (lb/ft)	4.93
Moment of Inertia: I_x (in ⁴)	8.63
Section Modulus: S_x (in ³)	2.88
Radius of Gyration: R_x (in)	2.44
Gross Moment of Inertia: I_y (in ⁴)	2.52
Gross Radius of Gyration: R_y (in)	1.32

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_{xe} (in ⁴)	8.63
Section Modulus: S_{xe} (in ³)	2.59
Allowable Local Bending Moment: M_{al} (in-k)	77.6
Allowable Distortional Bending Moment: M_{ad} (in-k)	76.1
Allowable strong axis shear away from punch: V_{ag} (lb)	10472
Allowable strong axis shear at punch: V_{anet} (lb)	3805

TORSIONAL SECTION PROPERTIES

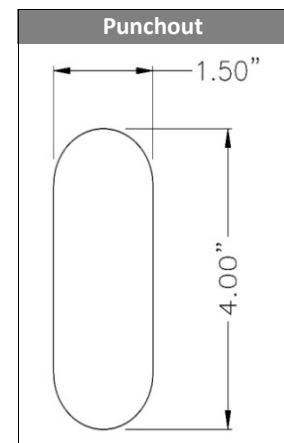
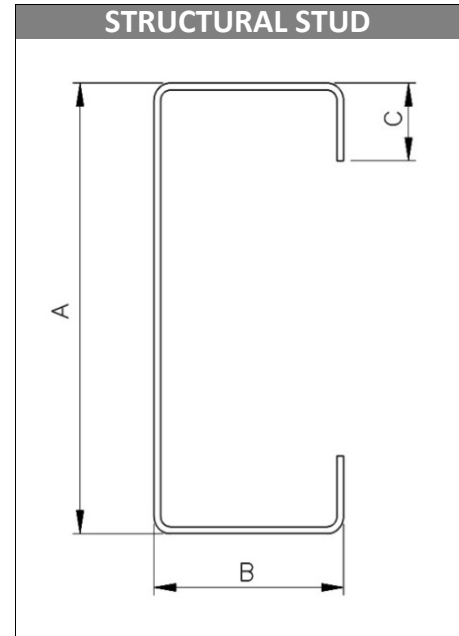
St. Venant Torsional Constant: J_{x1000} (in ⁴)	4.99
Torsional Warping Constant: C_w (in ⁶)	21.8
Shear Center to Centroid on Principal X-axis: X_o (in)	-2.98
Shear Center to Mid-Plane of the Web: m (in)	1.76
Radius of Gyration on the Centroid Principal axis: R_o (in)	4.07
Torsional Flexural Constant: β 1-(x _o /R _o) ²	0.464

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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