

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600S350-54

MARINO\WARE PART # 600SW16

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)	0.0566"
Mils	54	Minimum Thickness (in)	0.0538"
Available Finish	G60	Gauge	16

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.825
Weight of Member: (lb/ft)	2.81
Moment of Inertia: Ix (in ⁴)	5.022
Section Modulus: Sx (in ³)	1.674
Radius of Gyration: Rx (in)	2.467
Gross Moment of Inertia: Iy (in ⁴)	1.491
Gross Radius of Gyration: Ry (in)	1.344

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	4.72
Section Modulus: Sxe (in ³)	1.34
Allowable Bending Moment: Ma (in-k)	39.97
Allowable strong axis shear away from punch: Vag (lb)	2823
Allowable strong axis shear at punch: Vanet (lb)	1947

TORSIONAL SECTION PROPERTIES

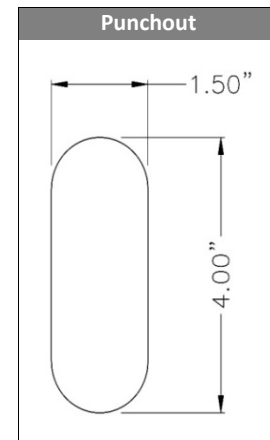
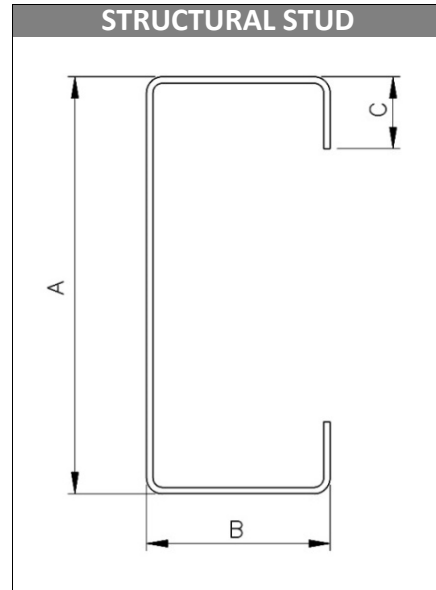
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.881
Torsional Warping Constant: Cw (in ⁶)	12.942
Shear Center to Centroid on Principal X-axis: Xo (in)	-3.037
Shear Center to Mid-Plane of the Web: m (in)	1.787
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.137
Torsional Flexural Constant: $\beta 1-(x_0/R_0)^2$	0.461

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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