

Marino\WARE® Product Submittal Data

PRODUCT NAME: 1200S350-54

MARINO\WARE PART # 120SW16

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	12"	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	G90	Gauge	16

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	1.165
Weight of Member: (lb/ft)	3.96
Moment of Inertia: Ix (in ⁴)	24.860
Section Modulus: Sx (in ³)	4.143
Radius of Gyration: Rx (in)	4.620
Gross Moment of Inertia: Iy (in ⁴)	1.866
Gross Radius of Gyration: Ry (in)	1.266

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	24.09
Section Modulus: Sxe (in ³)	2.79
Allowable Bending Moment: Ma (in-k)	83.46
Allowable strong axis shear away from punch: Vag (lb)	1377
Allowable strong axis shear at punch: Vanet (lb)	1377

TORSIONAL SECTION PROPERTIES

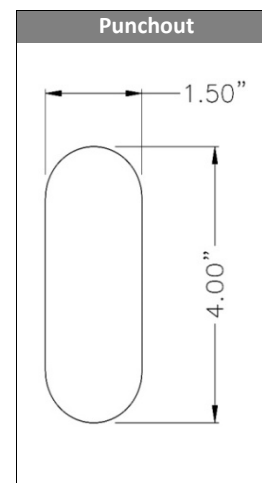
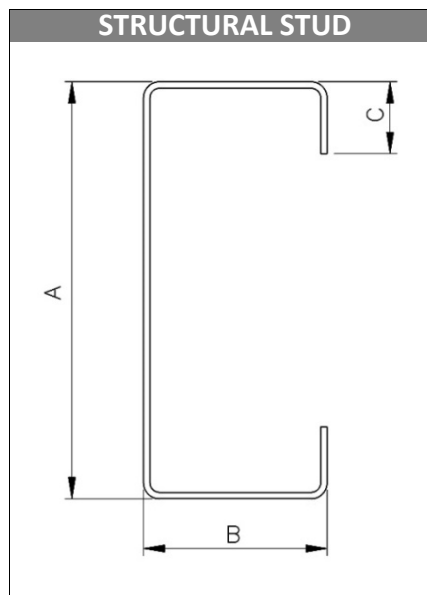
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.244
Torsional Warping Constant: Cw (in ⁶)	54.279
Shear Center to Centroid on Principal X-axis: Xo (in)	-2.363
Shear Center to Mid-Plane of the Web: m (in)	1.478
Radius of Gyration on the Centroid Principal axis: Ro (in)	5.341
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.804

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.



www.marinoware.com

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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