Marino\WARE® Product Submittal Data

PRODUCT NAME: **800S350-54**

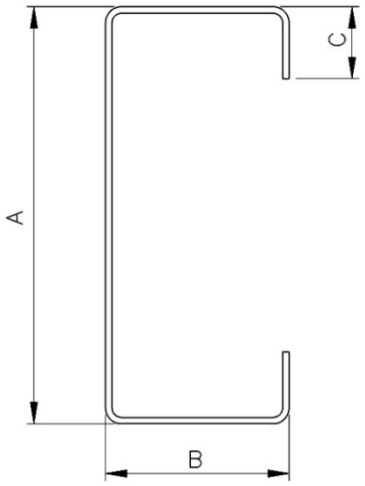
MARINO\WARE PART # 800SW16

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)**	0.0566
Mils	54	**Minimum Thickness (in)**	0.0538
Available Finish	G90	**Gauge**	16

STRUCTURAL STUD



SECTION PROPERTIES

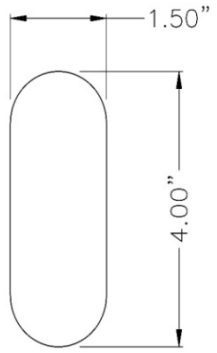
GROSS SECTION PROPERTIES

Cross Sectional Area: **A** (in^2)	0.938
Weight of Member: (lb/ft)	3.19
Moment of Inertia: **Ix** (in^4)	9.683
Section Modulus: **Sx** (in^3)	2.421
Radius of Gyration: **Rx** (in)	3.212
Gross Moment of Inertia: **Iy** (in^4)	1.646
Gross Radius of Gyration: **Ry** (in)	1.325

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: **Ixe** (in^4)	9.19
Section Modulus: **Sxe** (in^3)	1.87
Allowable Bending Moment: **Ma** (in-k)	55.96
Allowable strong axis shear away from punch: **Vag** (lb)	2091
Allowable strong axis shear at punch: **Vanet** (lb)	2091

Punchout



TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: **Jx1000** (in^4)	1.002
Torsional Warping Constant: **Cw** (in^6)	22.897
Shear Center to Centroid on Principal X-axis: **Xo** (in)	-2.766
Shear Center to Mid-Plane of the Web: **m** (in)	1.668
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	4.441
Torsional Flexural Constant: **β** $[1-(xo/Ro)^2]$	0.612

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.

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

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