Marino\WARE® Product Submittal Data

PRODUCT NAME: **600S250-68**

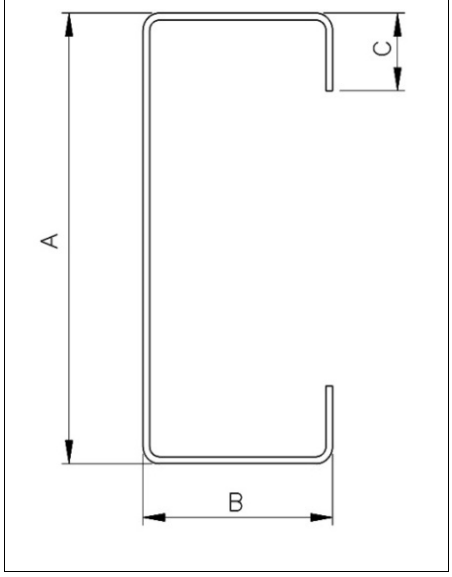
MARINO\WARE PART # 600SE14

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	**Yield Strength Fy (KSI)**	50
B. Flange (in)	2-1/2"	**Tensile Strength Fu (KSI)**	65
C. Lip (in)	5/8"	**Design Thickness (in)**	0.0713
Mils	68	**Minimum Thickness (in)**	0.0677
Available Finish	G60	**Gauge**	14

STRUCTURAL STUD



SECTION PROPERTIES

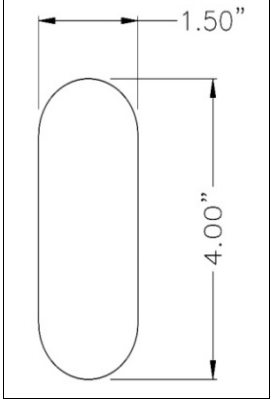
GROSS SECTION PROPERTIES

Cross Sectional Area: **A** (in^2)	0.836
Weight of Member: (lb/ft)	2.843
Moment of Inertia: **Ix** (in^4)	4.728
Section Modulus: **Sx** (in^3)	1.576
Radius of Gyration: **Rx** (in)	2.379
Gross Moment of Inertia: **Iy** (in^4)	0.688
Gross Radius of Gyration: **Ry** (in)	0.988

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: **Ixe** (in^4)	4.667
Section Modulus: **Sxe** (in^3)	1.386
Allowable Local Bending Moment: **Mal** (in-k)	41.49
Allowable Distortional Bending Moment: **Mad** (in-k)	37.50
Allowable strong axis shear away from punch: **Vag** (lb)	5350
Allowable strong axis shear at punch: **Vanet** (lb)	2879

Punchout



TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: **Jx1000** (in^4)	1.416
Torsional Warping Constant: **Cw** (in^6)	5.146
Shear Center to Centroid on Principal X-axis: **Xo** (in)	-1.842
Shear Center to Mid-Plane of the Web: **m** (in)	1.119
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	3.142
Torsional Flexural Constant: **β** $1-(xo/Ro)^2$	0.657

CODES & STANDARDS

- AISI S100, S240 & ICC ES ESR-4062
- 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.