Marino\WARE® Product Submittal Data

PRODUCT NAME: **362S162-68**

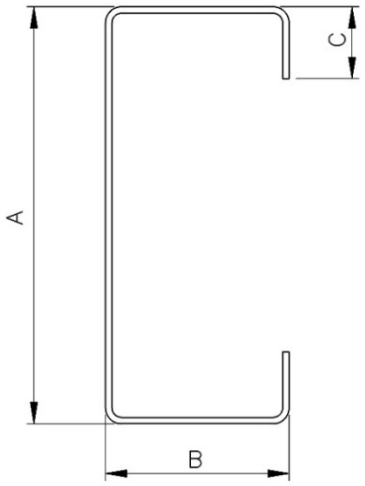
MARINO\WARE PART # 358SS14

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	3-5/8"	**Yield Strength Fy (KSI)**	50
B. Flange (in)	1-5/8"	**Tensile Strength Fu (KSI)**	65
C. Lip (in)	1/2"	**Design Thickness (in)**	0.0713"
Mils	68	**Minimum Thickness (in)**	0.0677"
Available Finish	G90	**Gauge**	14

STRUCTURAL STUD



SECTION PROPERTIES

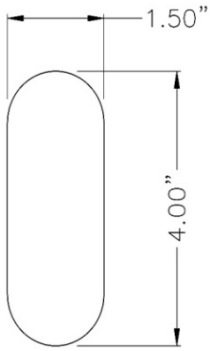
GROSS SECTION PROPERTIES

Cross Sectional Area: **A** (in^2)	0.524
Weight of Member: (lb/ft)	1.78
Moment of Inertia: **Ix** (in^4)	1.069
Section Modulus: **Sx** (in^3)	0.590
Radius of Gyration: **Rx** (in)	1.429
Gross Moment of Inertia: **Iy** (in^4)	0.186
Gross Radius of Gyration: **Ry** (in)	0.596

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: **Ixe** (in^4)	1.07
Section Modulus: **Sxe** (in^3)	0.57
Allowable Local Bending Moment: **Mal** (in-k)	17.18
Allowable Distortional Bending Moment: **Mad** (in-k)	17.7
Allowable strong axis shear away from punch: **Vag** (lb)	4370
Allowable strong axis shear at punch: **Vanet** (lb)	1004

Punchout



TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: **Jx1000** (in^4)	0.887
Torsional Warping Constant: **Cw** (in^6)	0.552
Shear Center to Centroid on Principal X-axis: **Xo** (in)	-1.264
Shear Center to Mid-Plane of the Web: **m** (in)	0.765
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	1.998
Torsional Flexural Constant: **β** $1-(xo/Ro)^2$	0.600

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.