

Marino\WARE® Product Submittal Data

PRODUCT NAME: 362S300-118

MARINO\WARE PART # 358SX10

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	3-5/8"	Yield Strength Fy (KSI)	50
B. Flange (in)	3"	Tensile Strength Fu (KSI)	65
C. Lip (in)	5/8"	Design Thickness (in)	0.1242
Mils	118	Minimum Thickness (in)	0.1180
Available Finish	G90	Gauge	10

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	1.24
Weight of Member: (lb/ft)	4.21
Moment of Inertia: Ix (in ⁴)	2.77
Section Modulus: Sx (in ³)	1.53
Radius of Gyration: Rx (in)	1.50
Gross Moment of Inertia: Iy (in ⁴)	1.42
Gross Radius of Gyration: Ry (in)	1.07

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	2.77
Section Modulus: Sxe (in ³)	1.44
Allowable Local Bending Moment: Mal (in-k)	48.4*
Allowable Distortional Bending Moment: Mad (in-k)	44.0
Allowable strong axis shear away from punch: Vag (lb)	6996
Allowable strong axis shear at punch: Vanet (lb)	784

* Allowable Bending Moment includes cold work of forming

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	6.35
Torsional Warping Constant: Cw (in ⁶)	4.44
Shear Center to Centroid on Principal X-axis: Xo (in)	-2.57
Shear Center to Mid-Plane of the Web: m (in)	1.48
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.16
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.339

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.

