

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600S162-33

MARINO\WARE PART # 600SS20

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	Yield Strength Fy (KSI)	33
B. Flange (in)	1-5/8"	Tensile Strength Fu (KSI)	45
C. Lip (in)	1/2"	Design Thickness (in)	0.0346
Mils	33	Minimum Thickness (in)	0.0329
Available Finish	G60	Gauge	20 STR

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.344
Weight of Member: (lb/ft)	1.17
Moment of Inertia: I_x (in ⁴)	1.793
Section Modulus: S_x (in ³)	0.598
Radius of Gyration: R_x (in)	2.282
Gross Moment of Inertia: I_y (in ⁴)	0.116
Gross Radius of Gyration: R_y (in)	0.581

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_{xe} (in ⁴)	1.79
Section Modulus: S_{xe} (in ³)	0.58
Allowable Local Bending Moment: M_{al} (in-k)	11.41
Allowable Distortional Bending Moment: M_{ad} (in-k)	9.08
Allowable strong axis shear away from punch: V_{ag} (lb)	638
Allowable strong axis shear at punch: V_{anet} (lb)	638

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.137
Torsional Warping Constant: C_w (in ⁶)	0.861
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.072
Shear Center to Mid-Plane of the Web: m (in)	0.677
Radius of Gyration on the Centroid Principal axis: R_o (in)	2.587
Torsional Flexural Constant: β 1-(x _o /R _o) ²	0.828

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.

