

Marino\WARE® Product Submittal Data

PRODUCT NAME: 162T125-33

MARINO\WARE PART # 158ST20

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	1-5/8	Yield Strength Fy (KSI)	33
B. Flange (in)	1-1/4	Tensile Strength Fu (KSI)	45
Mils	33	Design Thickness (in)	0.0346
Available Finish	G90	Minimum Thickness (in)	0.0329
		Gauge	20 STR

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.143
Weight of Member: (lb/ft)	0.485
Moment of Inertia: Ix (in ⁴)	0.0770
Section Modulus: Sx (in ³)	0.0870
Radius of Gyration: Rx (in)	0.736
Gross Moment of Inertia: Iy (in ⁴)	0.0238
Gross Radius of Gyration: Ry (in)	0.408

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	0.0660
Section Modulus: Sx (in ³)	0.0580
Allowable Bending Moment: Ma (in-k)	1.15
Allowable strong axis shear away from punch: Vag (lb)	663

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	0.0570
Torsional Warping Constant: Cw (in ⁶)	0.0130
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.868
Shear Center to Mid-Plane of the Web: m (in)	0.499
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.21
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.484

CODES & STANDARDS

- AISI S100 & S240
- 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.

