

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800T125-33

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 800ST20

PROPERTIES:

A. Web (in)	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

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.363
Weight of Member: (lb/ft)	1.24
Moment of Inertia: Ix (in ⁴)	2.895
Section Modulus: Sx (in ³)	0.711
Radius of Gyration: Rx (in)	2.824
Gross Moment of Inertia: Iy (in ⁴)	0.036
Gross Radius of Gyration: Ry (in)	0.313

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	2.441
Section Modulus: Sx (in ³)	0.407
Allowable Bending Moment: Ma (in-k)	8.030
Allowable strong axis shear away from punch: Vag (lb)	465

TORSIONAL SECTION PROPERTIES

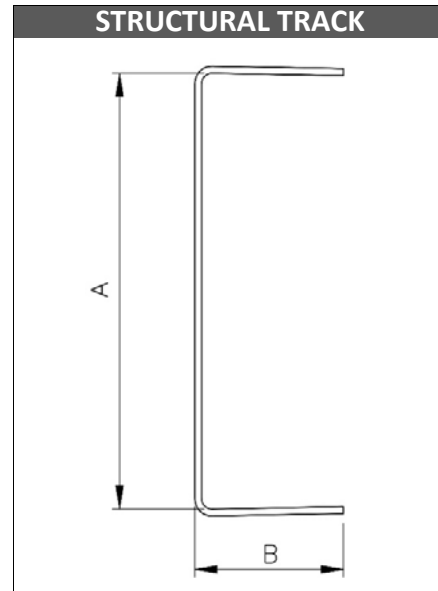
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.145
Torsional Warping Constant: Cw (in ⁶)	0.456
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.439
Shear Center to Mid-Plane of the Web: m (in)	0.294
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.875
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.977

CODES & STANDARDS

- AUSU S100-12 & ICC ES ESR-4062
- Meets IBC 2012, 2015 & FBC 2014
- Framing meets ASTM A 1003, A 653, C 645 & C 955

GREEN INFO

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information.



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

This technical information reflects the most current information available and supersedes any and all publications, effective 1/5/2017.
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