

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800T125-43

MARINO\WARE PART # 800ST18

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	8"	Yield Strength Fy (KSI)	33
B. Flange (in)	1-1/4"	Tensile Strength Fu (KSI)	45
Mils	43	Design Thickness (in)	0.0451
Available Finish	G90	Minimum Thickness (in)	0.0428
		Gauge	18

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.473
Weight of Member: (lb/ft)	1.61
Moment of Inertia: Ix (in ⁴)	3.773
Section Modulus: Sx (in ³)	0.924
Radius of Gyration: Rx (in)	2.824
Gross Moment of Inertia: Iy (in ⁴)	0.046
Gross Radius of Gyration: Ry (in)	0.311

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	3.484
Section Modulus: Sx (in ³)	0.640
Allowable Bending Moment: Ma (in-k)	12.650
Allowable strong axis shear away from punch: Vag (lb)	1030

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	0.321
Torsional Warping Constant: Cw (in ⁶)	0.589
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.436
Shear Center to Mid-Plane of the Web: m (in)	0.292
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.874
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.977

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.

