

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600T125-43

MARINO\WARE PART # 600ST18

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	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)	0.383
Weight of Member: (lb/ft)	1.30
Moment of Inertia: I_x (in ⁴)	1.861
Section Modulus: S_x (in ³)	0.604
Radius of Gyration: R_x (in)	2.205
Gross Moment of Inertia: I_y (in ⁴)	0.044
Gross Radius of Gyration: R_y (in)	0.337

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	1.768
Section Modulus: S_x (in ³)	0.461
Allowable Bending Moment: M_a (in-k)	9.110
Allowable strong axis shear away from punch: V_{ag} (lb)	1377

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.260
Torsional Warping Constant: C_w (in ⁶)	0.307
Shear Center to Centroid on Principal X-axis: X_o (in)	-0.513
Shear Center to Mid-Plane of the Web: m (in)	0.335
Radius of Gyration on the Centroid Principal axis: R_o (in)	2.288
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.950

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.

