

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600T200-43

MARINO\WARE PART # 600T218

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	Yield Strength Fy (KSI)	33
B. Flange (in)	2"	Tensile Strength Fu (KSI)	45
Mils	43	Design Thickness (in)	0.0451
Available Finish	G60	Minimum Thickness (in)	0.0428
		Gauge	18

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.457
Weight of Member: (lb/ft)	1.53
Moment of Inertia: Ix (in ⁴)	2.494
Section Modulus: Sx (in ³)	0.809
Radius of Gyration: Rx (in)	2.353
Gross Moment of Inertia: Iy (in ⁴)	0.163
Gross Radius of Gyration: Ry (in)	0.602

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	2.076
Section Modulus: Sx (in ³)	0.565
Allowable Bending Moment: Ma (in-k)	11.160
Allowable strong axis shear away from punch: Vag (lb)	1377

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	0.305
Torsional Warping Constant: Cw (in ⁶)	1.098
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.044
Shear Center to Mid-Plane of the Web: m (in)	0.652
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.643
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.844

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.

