

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400T200-43

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 400T218

PROPERTIES:

A. Web (in)	4"	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)	0.360
Weight of Member: (lb/ft)	1.23
Moment of Inertia: Ix (in ⁴)	1.002
Section Modulus: Sx (in ³)	0.482
Radius of Gyration: Rx (in)	1.668
Gross Moment of Inertia: Iy (in ⁴)	0.146
Gross Radius of Gyration: Ry (in)	0.637

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	0.811
Section Modulus: Sx (in ³)	0.311
Allowable Bending Moment: Ma (in-k)	6.140
Allowable strong axis shear away from punch: Vag (lb)	1739

TORSIONAL SECTION PROPERTIES

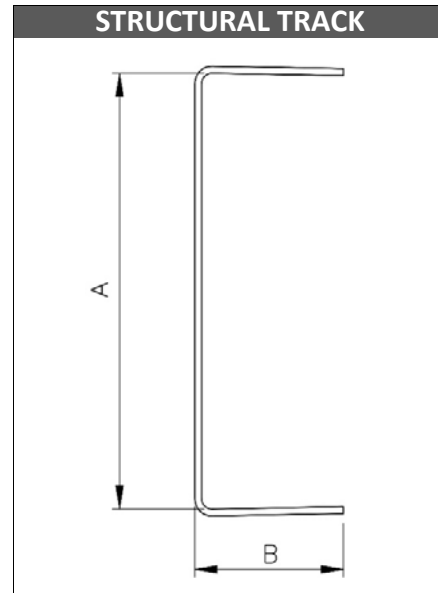
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.244
Torsional Warping Constant: Cw (in ⁶)	0.436
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.224
Shear Center to Mid-Plane of the Web: m (in)	0.734
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.164
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.680

CODES & STANDARDS

- AISI 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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