

Marino\WARE® Product Submittal Data

PRODUCT NAME: 250T200-43

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 212T218

PROPERTIES:

A. Web (in)	2-1/2"	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)	0.293
Weight of Member: (lb/ft)	1.00
Moment of Inertia: Ix (in ⁴)	0.366
Section Modulus: Sx (in ³)	0.275
Radius of Gyration: Rx (in)	1.118
Gross Moment of Inertia: Iy (in ⁴)	0.126
Gross Radius of Gyration: Ry (in)	0.657

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	0.288
Section Modulus: Sx (in ³)	0.163
Allowable Bending Moment: Ma (in-k)	3.210
Allowable strong axis shear away from punch: Vag (lb)	1356

TORSIONAL SECTION PROPERTIES

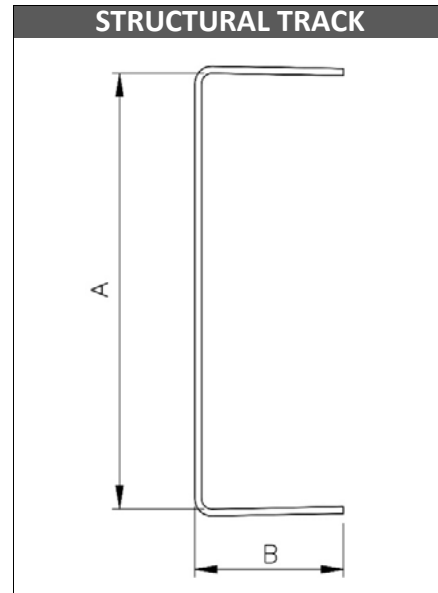
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.198
Torsional Warping Constant: Cw (in ⁶)	0.153
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.413
Shear Center to Mid-Plane of the Web: m (in)	0.810
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.918
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.457

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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