

Marino\WARE® Product Submittal Data

PRODUCT NAME: 250T200-33

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 212T220

PROPERTIES:

A. Web (in)	2-1/2"	Yield Strength Fy (KSI)	33
B. Flange (in)	2"	Tensile Strength Fu (KSI)	45
Mils	33	Design Thickness (in)	0.0346
Available Finish	G60	Minimum Thickness (in)	0.0329
		Gauge	20

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.225
Weight of Member: (lb/ft)	0.76
Moment of Inertia: Ix (in ⁴)	0.280
Section Modulus: Sx (in ³)	0.212
Radius of Gyration: Rx (in)	1.117
Gross Moment of Inertia: Iy (in ⁴)	0.097
Gross Radius of Gyration: Ry (in)	0.658

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ix (in ⁴)	0.203
Section Modulus: Sx (in ³)	0.112
Allowable Bending Moment: Ma (in-k)	2.220
Allowable strong axis shear away from punch: Vag (lb)	1024

TORSIONAL SECTION PROPERTIES

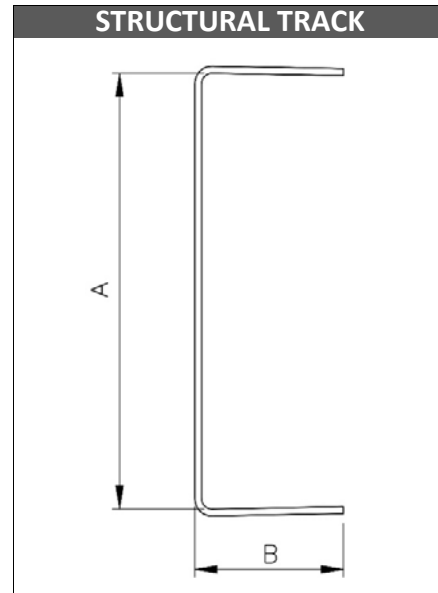
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.090
Torsional Warping Constant: Cw (in ⁶)	0.118
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.418
Shear Center to Mid-Plane of the Web: m (in)	0.813
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.921
Torsional Flexural Constant: β [1-(xo/Ro) ²]	0.455

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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