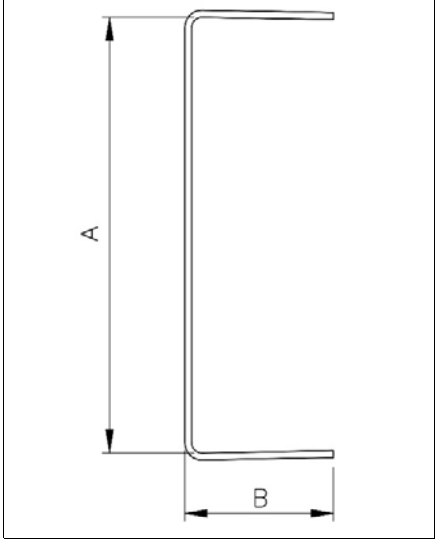
Marino\WARE® Product Submittal Data

PRODUCT NAME: **250T125-33**

MARINO\WARE PART # 212ST20

05.40.00 Cold-Formed Metal Framing

STRUCTURAL TRACK



PROPERTIES:

A. Web (in)	2-1/2"	**Yield Strength Fy (KSI)**	33
B. Flange (in)	1-1/4"	**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)	0.173
Weight of Member: (lb/ft)	0.59
Moment of Inertia: **Ix** (in^4)	0.192
Section Modulus: **Sx** (in^3)	0.145
Radius of Gyration: **Rx** (in)	1.054
Gross Moment of Inertia: **Iy** (in^4)	0.027
Gross Radius of Gyration: **Ry** (in)	0.397

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: **Ix** (in^4)	0.166
Section Modulus: **Sx** (in^3)	0.103
Allowable Bending Moment: **Ma** (in-k)	2.030
Allowable strong axis shear away from punch: **Vag** (lb)	1024

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: **Jx1000** (in^4)	0.069
Torsional Warping Constant: **Cw** (in^6)	0.033
Shear Center to Centroid on Principal X-axis: **Xo** (in)	-0.760
Shear Center to Mid-Plane of the Web: **m** (in)	0.456
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	1.358
Torsional Flexural Constant: **β** $[1-(xo/Ro)^2]$	0.687

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.

This technical information reflects the most current information available and supersedes any and all publications, effective 1/5/2017.
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