Marino\WARE® Product Submittal Data

PRODUCT NAME: **600T125-33**

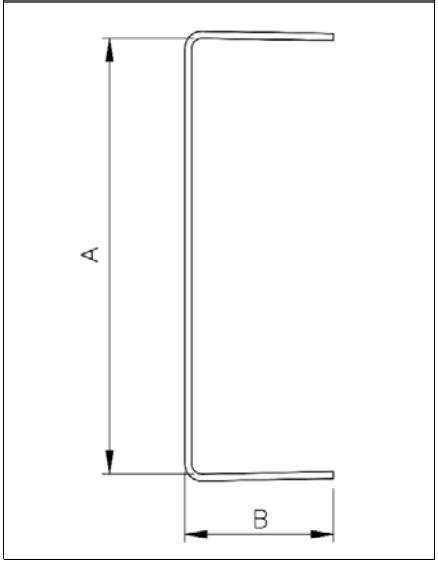
MARINO\WARE PART # 600ST20

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	6"	**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	G90	**Minimum Thickness (in)**	0.0329
		Gauge	20

STRUCTURAL TRACK



SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: **A** (in^2)	0.294
Weight of Member: (lb/ft)	1.00
Moment of Inertia: **Ix** (in^4)	1.428
Section Modulus: **Sx** (in^3)	0.465
Radius of Gyration: **Rx** (in)	2.204
Gross Moment of Inertia: **Iy** (in^4)	0.034
Gross Radius of Gyration: **Ry** (in)	0.339

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: **Ix** (in^4)	1.258
Section Modulus: **Sx** (in^3)	0.297
Allowable Bending Moment: **Ma** (in-k)	5.870
Allowable strong axis shear away from punch: **Vag** (lb)	622

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: **Jx1000** (in^4)	0.117
Torsional Warping Constant: **Cw** (in^6)	0.238
Shear Center to Centroid on Principal X-axis: **Xo** (in)	-0.516
Shear Center to Mid-Plane of the Web: **m** (in)	0.337
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	2.289
Torsional Flexural Constant: **β** $[1-(xo/Ro)^2]$	0.949

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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