

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800T200-68

MARINO\WARE PART # 800T214

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	8"	Yield Strength Fy (KSI)	50
B. Flange (in)	2"	Tensile Strength Fu (KSI)	65
Mils	68	Design Thickness (in)	0.0713
Available Finish	G90	Minimum Thickness (in)	0.0677
		Gauge	14

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.854
Weight of Member: (lb/ft)	2.91
Moment of Inertia: I_x (in ⁴)	7.786
Section Modulus: S_x (in ³)	1.888
Radius of Gyration: R_x (in)	3.019
Gross Moment of Inertia: I_y (in ⁴)	0.272
Gross Radius of Gyration: R_y (in)	0.564

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_x (in ⁴)	7.051
Section Modulus: S_x (in ³)	1.310
Allowable Bending Moment: M_a (in-k)	39.220
Allowable strong axis shear away from punch: V_{ag} (lb)	4087

TORSIONAL SECTION PROPERTIES

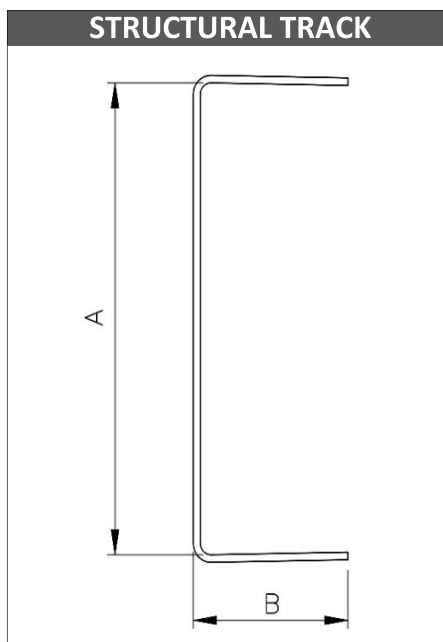
St. Venant Torsional Constant: J_{x1000} (in ⁴)	1.448
Torsional Warping Constant: C_w (in ⁶)	3.357
Shear Center to Centroid on Principal X-axis: X_o (in)	-0.902
Shear Center to Mid-Plane of the Web: m (in)	0.580
Radius of Gyration on the Centroid Principal axis: R_o (in)	3.201
Torsional Flexural Constant: β [1-(x _o /R _o) ²]	0.921

CODES & STANDARDS

- AISI S100, S240 & ICC ES ESR-4062
- ASTM A 1003, A 653, & C 955
- IBC 2012, 2015, 2018, 2021 & FBC 2020, 2023

GREEN INFO

- LEED credits available
- Contact Technical Services for more information.



www.marinoware.com

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 4/18/2024
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