

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800S137-68

MARINO\WARE PART # 800SC14

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	8"	Yield Strength Fy (KSI)	50
B. Flange (in)	1-3/8"	Tensile Strength Fu (KSI)	65
C. Lip (in)	3/8"	Design Thickness (in)	0.0713
Mils	68	Minimum Thickness (in)	0.0677
Available Finish	G60	Gauge	14

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.782
Weight of Member: (lb/ft)	2.661
Moment of Inertia: I_x (in ⁴)	6.305
Section Modulus: S_x (in ³)	1.576
Radius of Gyration: R_x (in)	2.839
Gross Moment of Inertia: I_y (in ⁴)	0.134
Gross Radius of Gyration: R_y (in)	0.414

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_{xe} (in ⁴)	6.265
Section Modulus: S_{xe} (in ³)	1.468
Allowable Local Bending Moment: M_{al} (in-k)	43.96
Allowable Distortional Bending Moment: M_{ad} (in-k)	37.10
Allowable strong axis shear away from punch: V_{ag} (lb)	4220
Allowable strong axis shear at punch: V_{anet} (lb)	3367

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	1.325
Torsional Warping Constant: C_w (in ⁶)	1.789
Shear Center to Centroid on Principal X-axis: X_o (in)	-0.661
Shear Center to Mid-Plane of the Web: m (in)	0.440
Radius of Gyration on the Centroid Principal axis: R_o (in)	2.944
Torsional Flexural Constant: β 1-(x_o/R_o)²	0.950

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.

