

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800S137-54

MARINO\WARE PART # 800SC16

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)	0.0566
Mils	54	Minimum Thickness (in)	0.0538
Available Finish	G60	Gauge	16

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.627
Weight of Member: (lb/ft)	2.134
Moment of Inertia: Ix (in ⁴)	5.111
Section Modulus: Sx (in ³)	1.278
Radius of Gyration: Rx (in)	2.855
Gross Moment of Inertia: Iy (in ⁴)	0.112
Gross Radius of Gyration: Ry (in)	0.423

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	4.940
Section Modulus: Sxe (in ³)	1.083
Allowable Local Bending Moment: Mal (in-k)	32.42
Allowable Distortional Bending Moment: Mad (in-k)	26.80
Allowable strong axis shear away from punch: Vag (lb)	2091
Allowable strong axis shear at punch: Vanet (lb)	2091

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	0.670
Torsional Warping Constant: Cw (in ⁶)	1.478
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.676
Shear Center to Mid-Plane of the Web: m (in)	0.448
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.964
Torsional Flexural Constant: β 1-(xo/Ro) ²	0.948

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.

