

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800S200-54

MARINO\WARE PART # 800SJ16

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
C. Lip (in)	5/8"	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)	0.726
Weight of Member: (lb/ft)	2.471
Moment of Inertia: I_x (in ⁴)	6.574
Section Modulus: S_x (in ³)	1.644
Radius of Gyration: R_x (in)	3.009
Gross Moment of Inertia: I_y (in ⁴)	0.357
Gross Radius of Gyration: R_y (in)	0.701

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_{xe} (in ⁴)	6.572
Section Modulus: S_{xe} (in ³)	1.499
Allowable Local Bending Moment: M_{al} (in-k)	44.88
Allowable Distortional Bending Moment: M_{ad} (in-k)	36.00
Allowable strong axis shear away from punch: V_{ag} (lb)	2091
Allowable strong axis shear at punch: V_{anet} (lb)	2091

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.775
Torsional Warping Constant: C_w (in ⁶)	4.663
Shear Center to Centroid on Principal X-axis: X_o (in)	-1.265
Shear Center to Mid-Plane of the Web: m (in)	0.804
Radius of Gyration on the Centroid Principal axis: R_o (in)	3.338
Torsional Flexural Constant: β 1-(x_o/R_o)²	0.856

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.

