

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 800S137-33

**MARINO\WARE PART #** 800SC20

05.40.00 Cold-Formed Metal Framing

## PROPERTIES:

<b>A. Web (in)</b>	8"	<b>Yield Strength Fy (KSI)</b>	33
<b>B. Flange (in)</b>	1-3/8"	<b>Tensile Strength Fu (KSI)</b>	45
<b>C. Lip (in)</b>	3/8"	<b>Design Thickness (in)</b>	0.0346
<b>Mils</b>	33	<b>Minimum Thickness (in)</b>	0.0329
<b>Available Finish</b>	G60	<b>Gauge</b>	20 STR

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.388
Weight of Member: (lb/ft)	1.319
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	3.199
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	0.800
Radius of Gyration: <b>Rx</b> (in)	2.873
Gross Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	0.073
Gross Radius of Gyration: <b>Ry</b> (in)	0.435

### EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: <b>Ixe</b> (in <sup>4</sup> )	2.972
Section Modulus: <b>Sxe</b> (in <sup>3</sup> )	0.622
Allowable Local Bending Moment: <b>Mal</b> (in-k)	12.29
Allowable Distortional Bending Moment: <b>Mad</b> (in-k)	10.20
Allowable strong axis shear away from punch: <b>Vag</b> (lb)	474
Allowable strong axis shear at punch: <b>Vanet</b> (lb)	474

### TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )	0.155
Torsional Warping Constant: <b>Cw</b> (in <sup>6</sup> )	0.957
Shear Center to Centroid on Principal X-axis: <b>Xo</b> (in)	-0.696
Shear Center to Mid-Plane of the Web: <b>m</b> (in)	0.460
Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in)	2.988
Torsional Flexural Constant: <b>β</b> 1-(xo/Ro) <sup>2</sup>	0.946

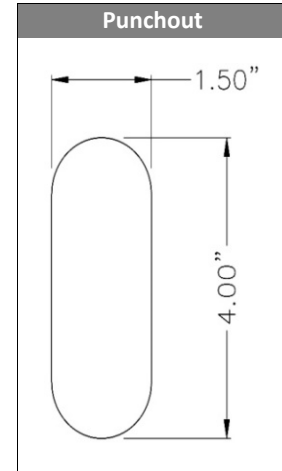
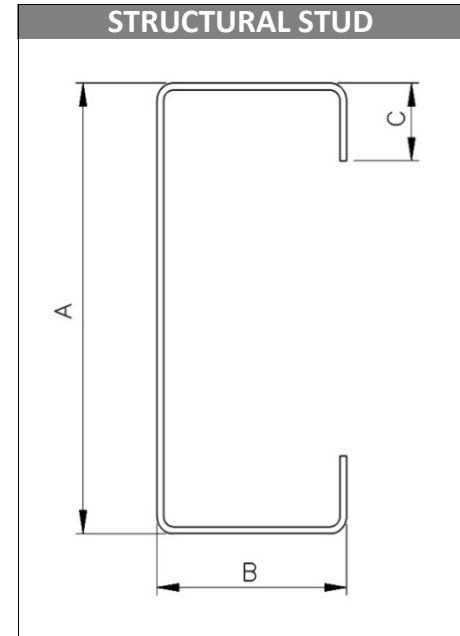
## CODES & STANDARDS

- 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.

Note: Web depth to thickness ratio (h/t) exceeds 200. Web stiffeners required at all support points and concentrated loads



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 11/5/2023  
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