

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 800SR162-68

**05.40.00 Cold-Formed Metal Framing**

**PROPERTIES:**

<b>A. Web (in)</b>	8	<b>Yield Strength Fy (KSI)</b>	50
<b>B. Flange (in)</b>	1-5/8	<b>Tensile Strength Fu (KSI)</b>	65
<b>C. Lip (in)</b>	0.50"	<b>Design Thickness (in)</b>	0.0713
<b>Mils</b>	68	<b>Minimum Thickness (in)</b>	0.0677
<b>Available Finish</b>	CP60, CP90	<b>Gauge</b>	14

**SECTION PROPERTIES**

**GROSS SECTION PROPERTIES**

Weight of Member: (lb/ft)	2.09
Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.514
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	6.65
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	1.66
Radius of Gyration: <b>Rx</b> (in)	3.60
Gross Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	0.562
Gross Radius of Gyration: <b>Ry</b> (in)	1.07

**EFFECTIVE SECTION PROPERTIES**

Moment of Inertia-Deflection: <b>Ixed</b> (in <sup>4</sup> )	6.65
Section Modulus: <b>Sxe</b> (in <sup>3</sup> )	1.66
Allowable Bending Moment: <b>Ma</b> (in-k)	49.8
Allowable Shear Force: <b>Va</b> (K)	1.21

**TORSIONAL SECTION PROPERTIES**

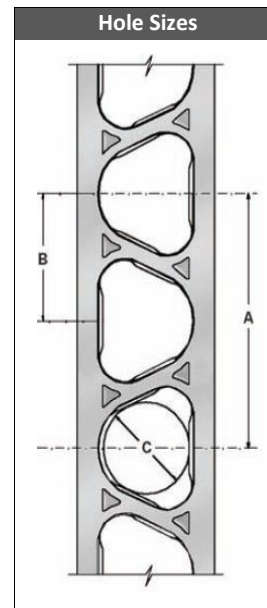
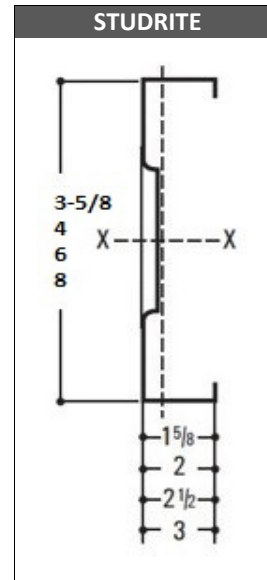
St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )	0.871
Torsional Warping Constant: <b>Cw</b> (in <sup>6</sup> )	2.77
Distance From Shear Center To Centroid Principle x-axis <b>x<sub>o</sub></b> (in.)	-1.24
Distance From Shear Center to Mid-Plane of Web <b>m</b> (in.)	0.661
Radius of Gyration on the Centroid Principal axis: <b>r<sub>o</sub></b> (in.)	3.85
$1 - (x_o/r_o)^2 = \beta$	0.896
Critical Unbraced Length, lateral torsional buckling excluded <b>L<sub>u</sub></b> (in.)	29.2

**CODES & STANDARDS**

- Meets ASTM A 1003, A 653, C955 & AISI S240
- Coating meets ASTM C 955 / AISI S240
- Meets IBC 2021, 2018
- IAPMO ES ER-0781

**GREEN INFO**

- LEED v4 credits available
- Contact Technical Services for more information



	Section <sup>1</sup>	A (in)	B (in)	C (in)
EC	8"	8.1	4.0	2-7/8
SP	8"	14.0	7.0	5-1/2

Note <sup>1</sup>: EC = East Chicago plant, SP= South Plainfield.  
Check with plant for confirmation of hole size



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 7/1/2021  
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