

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 800JR200-97

05.42.00 Cold-Formed Metal Joist Framing

**MARINO\WARE PART #** 800RJ12

## PROPERTIES:

<b>A. Web (in)</b>	8"	<b>Yield Strength Fy (KSI)</b>	50
<b>B. Flange (in)</b>	2"	<b>Tensile Strength Fu (KSI)</b>	65
<b>C. Lip (in)</b>	0.75"	<b>Design Thickness (in)</b>	0.1017
<b>Mils</b>	97	<b>Minimum Thickness (in)</b>	0.0966
<b>Available Finish</b>	G60, G90	<b>Gauge</b>	12

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	3.42
Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.814
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	10.70
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	2.67
Radius of Gyration: <b>Rx</b> (in)	3.62
Gross Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	0.433
Gross Radius of Gyration: <b>Ry</b> (in)	0.729

### EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: <b>Ixe</b> (in <sup>4</sup> )	10.7
Section Modulus: <b>Sxe</b> (in <sup>3</sup> )	2.67
Allowable Bending Moment: <b>Ma</b> (in-k)	75.2
Allowable Shear Force: <b>Va</b> (k)	2.47

### TORSIONAL SECTION PROPERTIES

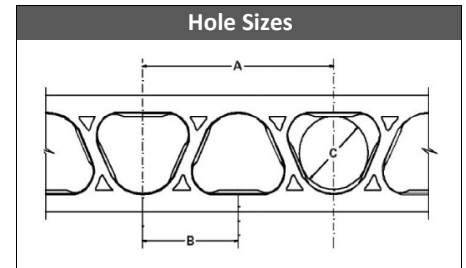
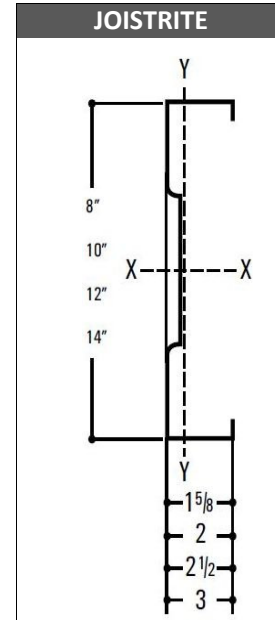
St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )	2.81
Torsional Warping Constant: <b>Cw</b> (in <sup>6</sup> )	7.70
Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in)	4.06

## CODES & STANDARDS

- AISI S100, S240 & ICC ES ESR-1741
- ASTM A 1003, A 653, & C 955
- IBC 2012, 2015, 2018, 2021, 2024
- FBC 2023 & 2022 NYC Building Code

## GREEN INFO

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



Section	A (in)	B (in)	C
8"	14	7	5.5
10"	28	14	7.2
12"	35	17.5	9.2
14"	35	17.5	9.2