

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 1400JR250-54

**05.42.00 Cold-Formed Metal Joist Framing**

**MARINO\WARE PART #** 140RE16

**PROPERTIES:**

<b>A. Web (in)</b>	14"	<b>Yield Strength Fy (KSI)</b>	50
<b>B. Flange (in)</b>	2.5"	<b>Tensile Strength Fu (KSI)</b>	65
<b>C. Lip (in)</b>	0.75"	<b>Design Thickness (in)</b>	0.0566
<b>Mils</b>	54	<b>Minimum Thickness (in)</b>	0.0538
<b>Available Finish</b>	G60, G90	<b>Gauge</b>	16

**SECTION PROPERTIES**

**GROSS SECTION PROPERTIES**

Weight of Member: (lb/ft)	3.08
Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.679
Moment of Inertia: <b>I<sub>x</sub></b> (in <sup>4</sup> )	27.0
Section Modulus: <b>S<sub>x</sub></b> (in <sup>3</sup> )	3.86
Radius of Gyration: <b>R<sub>x</sub></b> (in)	6.31
Gross Moment of Inertia: <b>I<sub>y</sub></b> (in <sup>4</sup> )	0.559
Gross Radius of Gyration: <b>R<sub>y</sub></b> (in)	0.907

**EFFECTIVE SECTION PROPERTIES**

Moment of Inertia-Deflection: <b>I<sub>xe</sub></b> (in <sup>4</sup> )	26.8
Section Modulus: <b>S<sub>xe</sub></b> (in <sup>3</sup> )	3.41
Allowable Bending Moment: <b>Ma</b> (in-k)	96.1
Allowable Shear Force: <b>Va</b> (k)	1.33

**TORSIONAL SECTION PROPERTIES**

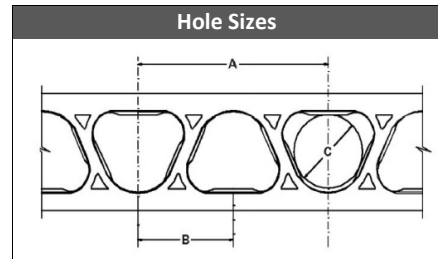
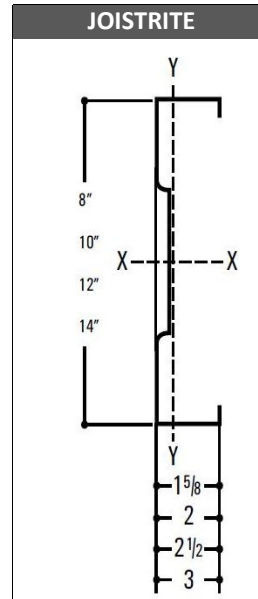
St. Venant Torsional Constant: <b>J<sub>x1000</sub></b> (in <sup>4</sup> )	0.725
Torsional Warping Constant: <b>C<sub>w</sub></b> (in <sup>6</sup> )	27.2
Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in)	6.63

**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
- Tested to ASTM E 119, & E 492/E 989
- UL Fire Test Data: G560, G563, G564, G577, G588, G594, G597, H503, L567, L580, P546
- Intertek (Warnock Hersey) Fire Data: WHI 3099463, WHI 3101528

**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



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

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