

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 600QFJ350-118

**MARINO\WARE PART #** 600QFJ350118



## PROPERTIES:

<b>A. Web (in)</b>	6	<b>Yield Strength Fy (KSI)</b>	50
<b>B. Flange (in)</b>	3-1/2	<b>Tensile Strength Fu (KSI)</b>	65
<b>C. Lip (in)</b>	1	<b>Design Thickness (in)</b>	0.1242
<b>Mils</b>	118	<b>Minimum Thickness (in)</b>	0.1180
<b>Available Finish</b>	G60 & G90	<b>Gauge</b>	10

## SECTION PROPERTIES

### GROSS SECTION PROPERTIES

Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	1.75
Weight of Member: <b>(lb/ft)</b>	5.95
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	10.3
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	3.44
Radius of Gyration: <b>Rx</b> (in)	2.43
Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	2.98
Section Modulus: <b>Sy</b> (in <sup>3</sup> )	1.34
Radius of Gyration: <b>Ry</b> (in)	1.31

### EFFECTIVE SECTION PROPERTIES - Punched

Moment of Inertia-Deflection: <b>Ixe</b> (in <sup>4</sup> )	10.3
Section Modulus: <b>Sxe</b> (in <sup>3</sup> )	3.27
Allowable Bending Moment: <b>Max</b> (in-k)	108
Allowable Bending Moment: <b>Madx</b> (in-k)	100
Allowable shear: <b>Van</b> (k)	3.622

### TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )	8.99
Torsional Warping Constant: <b>Cw</b> (in <sup>6</sup> )	25.8
Shear Center to Centroid on Principal X-axis: <b>Xo</b> (in)	-2.95
Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in)	4.04
Torsional Flexural Constant: <b>β</b> = [1-(xo/Ro) <sup>2</sup> ]	0.466

## CODES & STANDARDS

- AISI S100 & S240
- ASTM A 1003, A 653, & C 955
- IBC 2012, 2015, 2018, 2021

## GREEN INFO

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

## 05.40.00 Cold-Formed Metal Framing

