

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 400QFH300-54

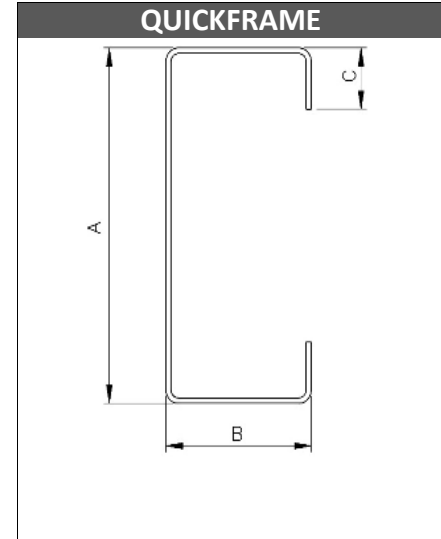
**MARINO\WARE PART #** 400QFH30054



**PROPERTIES:**

<b>A. Web (in)</b>	4	<b>Yield Strength Fy (KSI)</b>	50
<b>B. Flange (in)</b>	3	<b>Tensile Strength Fu (KSI)</b>	65
<b>C. Lip (in)</b>	1	<b>Design Thickness (in)</b>	0.0566
<b>Mils</b>	54	<b>Minimum Thickness (in)</b>	0.0536
<b>Available Finish</b>	G60, G90	<b>Gauge</b>	16

**05.40.00 Cold-Formed Metal Framing**



**SECTION PROPERTIES**

**GROSS SECTION PROPERTIES**

Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.655
Weight of Member: <b>(lb/ft)</b>	2.23
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	1.79
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	0.896
Radius of Gyration: <b>Rx</b> (in)	1.65
Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	0.895
Section Modulus: <b>Sy</b> (in <sup>3</sup> )	0.510
Radius of Gyration: <b>Ry</b> (in)	1.17

**EFFECTIVE SECTION PROPERTIES - Unpunched**

Moment of Inertia-Deflection: <b>Ixe</b> (in <sup>4</sup> )	1.70
Section Modulus: <b>Sxe</b> (in <sup>3</sup> )	0.746
Allowable Bending Moment: <b>Malx</b> (in-k)	22.3
Allowable Bending Moment: <b>Madx</b> (in-k)	22.5
Moment of Inertia: <b>Iye</b> (in <sup>4</sup> )	0.873
Section Modulus: <b>Sye</b> (in <sup>3</sup> )	0.457
Allowable Bending Moment: <b>Maly</b> (in-k)	13.7
Allowable Bending Moment: <b>Mady</b> (in-k)	13.0
Allowable shear: <b>Vag</b> (k)	3.372

**TORSIONAL SECTION PROPERTIES**

St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )	0.700
Torsional Warping Constant: <b>Cw</b> (in <sup>6</sup> )	4.46
Shear Center to Centroid on Principal X-axis: <b>Xo</b> (in)	-2.89
Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in)	3.53
Torsional Flexural Constant: <b>β</b> = [1-(xo/Ro) <sup>2</sup> ]	0.330

**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



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 8/02/2024  
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