

# Marino\WARE® Product Submittal Data

**PRODUCT NAME:** 400QFH350-43

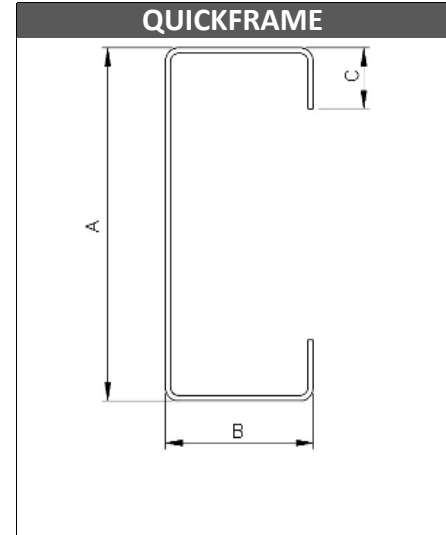
**MARINO\WARE PART #** 400QFH35043



**PROPERTIES:**

<b>A. Web (in)</b>	4	<b>Yield Strength Fy (KSI)</b>	33
<b>B. Flange (in)</b>	3-1/2	<b>Tensile Strength Fu (KSI)</b>	45
<b>C. Lip (in)</b>	1	<b>Design Thickness (in)</b>	0.0451
<b>Mils</b>	43	<b>Minimum Thickness (in)</b>	0.0428
<b>Available Finish</b>	G60, G90	<b>Gauge</b>	18

**05.40.00 Cold-Formed Metal Framing**



**SECTION PROPERTIES**

**GROSS SECTION PROPERTIES**

Cross Sectional Area: <b>A</b> (in <sup>2</sup> )	0.571
Weight of Member: <b>(lb/ft)</b>	1.94
Moment of Inertia: <b>Ix</b> (in <sup>4</sup> )	1.63
Section Modulus: <b>Sx</b> (in <sup>3</sup> )	0.812
Radius of Gyration: <b>Rx</b> (in)	1.69
Moment of Inertia: <b>Iy</b> (in <sup>4</sup> )	1.04
Section Modulus: <b>Sy</b> (in <sup>3</sup> )	0.514
Radius of Gyration: <b>Ry</b> (in)	1.35

**EFFECTIVE SECTION PROPERTIES - Unpunched**

Moment of Inertia-Deflection: <b>Ixe</b> (in <sup>4</sup> )	1.48
Section Modulus: <b>Sxe</b> (in <sup>3</sup> )	0.622
Allowable Bending Moment: <b>Max</b> (in-k)	12.3
Allowable Bending Moment: <b>Madx</b> (in-k)	13.4
Moment of Inertia: <b>Iye</b> (in <sup>4</sup> )	1.01
Section Modulus: <b>Sye</b> (in <sup>3</sup> )	0.458
Allowable Bending Moment: <b>Maly</b> (in-k)	9.05
Allowable Bending Moment: <b>Mady</b> (in-k)	8.5
Allowable shear: <b>Vag</b> (k)	1.739

**TORSIONAL SECTION PROPERTIES**

St. Venant Torsional Constant: <b>Jx1000</b> (in <sup>4</sup> )	0.387
Torsional Warping Constant: <b>Cw</b> (in <sup>6</sup> )	5.14
Shear Center to Centroid on Principal X-axis: <b>Xo</b> (in)	-3.39
Radius of Gyration on the Centroid Principal axis: <b>Ro</b> (in)	4.02
Torsional Flexural Constant: <b>β</b> = [1-(xo/Ro) <sup>2</sup> ]	0.289

\* 33 mil and 43 mil calculated with the Direct Strength Method

**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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