

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400QFH350-43

MARINO\WARE PART # 400QFH35043



PROPERTIES:

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

SECTION PROPERTIES

GROSS SECTION PROPERTIES

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

EFFECTIVE SECTION PROPERTIES - Unpunched

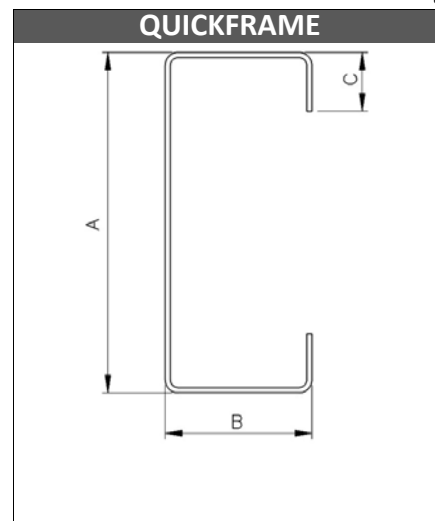
Moment of Inertia-Deflection: Ixe (in ⁴)	1.48
Section Modulus: Sxe (in ³)	0.622
Allowable Bending Moment: Max (in-k)	12.3
Allowable Bending Moment: Madx (in-k)	13.4
Moment of Inertia: Iye (in ⁴)	1.01
Section Modulus: Sye (in ³)	0.458
Allowable Bending Moment: Maly (in-k)	9.05
Allowable Bending Moment: Mady (in-k)	8.5
Allowable shear: Vag (k)	1,739

TORSIONAL SECTION PROPERTIES

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

* 33 mil and 43 mil calculated with the Direct strength Method

05.40.00 Cold-Formed Metal Framing



CODES & STANDARDS

- AISI S100-2016
- Meets IBC 2015 & 2012
- ASTM C 955 compliant
- Galvanized steel sheet meets ASTM A 1003 & A 653

GREEN INFO

- LEED v3 & LEED v4 credits available
- Contact Technical Services for more information



www.marinoware.com

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 01/27/2017
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