

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400QFH300-118

MARINO\WARE PART # 400QFH300118



PROPERTIES:

A. Web (in)	4	Yield Strength Fy (KSI)	50
B. Flange (in)	3	Tensile Strength Fu (KSI)	65
C. Lip (in)	1	Design Thickness (in)	0.1242
Mils	118	Minimum Thickness (in)	0.1180
Available Finish	G60, G90	Gauge	10

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	1.38
Weight of Member: (lb/ft)	4.68
Moment of Inertia: Ix (in ⁴)	3.60
Section Modulus: Sx (in ³)	1.80
Radius of Gyration: Rx (in)	1.62
Moment of Inertia: Iy (in ⁴)	1.76
Section Modulus: Sy (in ³)	1.00
Radius of Gyration: Ry (in)	1.13

EFFECTIVE SECTION PROPERTIES - Unpunched

Moment of Inertia-Deflection: Ixe (in ⁴)	3.60
Section Modulus: Sxe (in ³)	1.80
Allowable Bending Moment: Malx (in-k)	60.6
Allowable Bending Moment: Madx (in-k)	53.9
Moment of Inertia: Iye (in ⁴)	1.76
Section Modulus: Sye (in ³)	1.00
Allowable Bending Moment: Maly (in-k)	35.5
Allowable Bending Moment: Mady (in-k)	30.0
Allowable shear: Vag (k)	7.869

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	7.07
Torsional Warping Constant: Cw (in ⁶)	8.67
Shear Center to Centroid on Principal X-axis: Xo (in)	-2.80
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.43
Torsional Flexural Constant: β = [1-(xo/Ro) ²]	0.332

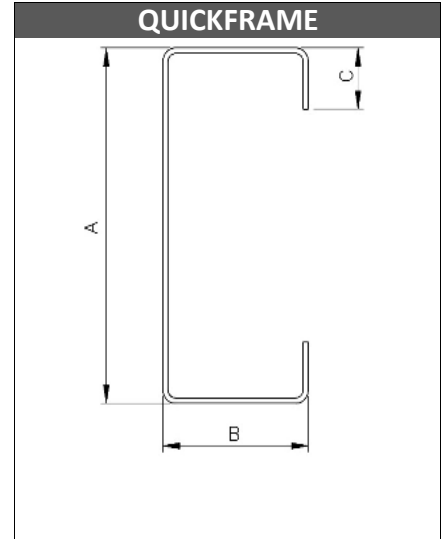
CODES & STANDARDS

- 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



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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