

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400QFH300-54

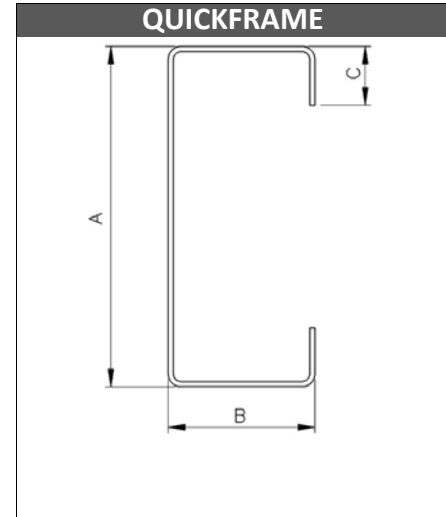
MARINO\WARE PART # 400QFH30054



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)	0.0566
Mils	54	Minimum Thickness (in)	0.0536
Available Finish	G60, G90	Gauge	16

05.40.00 Cold-Formed Metal Framing



SECTION PROPERTIES

GROSS SECTION PROPERTIES

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

EFFECTIVE SECTION PROPERTIES - Unpunched

Moment of Inertia-Deflection: Ixe (in ⁴)	1.70
Section Modulus: Sxe (in ³)	0.746
Allowable Bending Moment: Max (in-k)	22.3
Allowable Bending Moment: Madx (in-k)	22.5
Moment of Inertia: Iye (in ⁴)	0.873
Section Modulus: Sye (in ³)	0.457
Allowable Bending Moment: Maly (in-k)	13.7
Allowable Bending Moment: Mady (in-k)	13.0
Allowable shear: Vag (k)	3,372

TORSIONAL SECTION PROPERTIES

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

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

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



For more information, please contact Marino\WARE Technical Services at 866-545-1545.

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