Marino\WARE® Product Submittal Data

PRODUCT NAME: **400QFH300-68**

MARINO\WARE PART # 400QFH30068

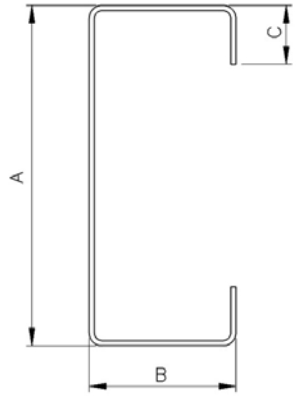
QUICKFRAME Rough Opening System

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)**	0.0713
Mils	68	**Minimum Thickness (in)**	0.0677
Available Finish	G60, G90	**Gauge**	14

05.40.00 Cold-Formed Metal Framing

QUICKFRAME



SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: **A** (in^2)	0.818
Weight of Member: **(lb/ft)**	2.78
Moment of Inertia: **Ix** (in^4)	2.22
Section Modulus: **Sx** (in^3)	1.11
Radius of Gyration: **Rx** (in)	1.65
Moment of Inertia: **Iy** (in^4)	1.10
Section Modulus: **Sy** (in^3)	0.628
Radius of Gyration: **Ry** (in)	1.16

EFFECTIVE SECTION PROPERTIES - Unpunched

Moment of Inertia-Deflection: **Ixe** (in^4)	2.21
Section Modulus: **Sxe** (in^3)	1.01
Allowable Bending Moment: **Malx** (in-k)	30.1
Allowable Bending Moment: **Madx** (in-k)	30.2
Moment of Inertia: **Iye** (in^4)	1.10
Section Modulus: **Sye** (in^3)	0.609
Allowable Bending Moment: **Maly** (in-k)	18.2
Allowable Bending Moment: **Mady** (in-k)	17.4
Allowable shear: **Vag** (k)	4,871

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: **Jx1000** (in^4)	1.39
Torsional Warping Constant: **Cw** (in^6)	5.47
Shear Center to Centroid on Principal X-axis: **Xo** (in)	-2.87
Radius of Gyration on the Centroid Principal axis: **Ro** (in)	3.50
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

MARINO\WARE®

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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