

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400QFJ350-54

MARINO\WARE PART # 400QFJ35054



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)	0.0538
Available Finish	G60 & G90	Gauge	16

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.712
Weight of Member: (lb/ft)	2.42
Moment of Inertia: Ix (in ⁴)	2.01
Section Modulus: Sx (in ³)	1.01
Radius of Gyration: Rx (in)	1.68
Moment of Inertia: Iy (in ⁴)	1.29
Section Modulus: Sy (in ³)	0.636
Radius of Gyration: Ry (in)	1.34

EFFECTIVE SECTION PROPERTIES - Punched

Moment of Inertia-Deflection: Ixe (in ⁴)	1.85
Section Modulus: Sxe (in ³)	0.735
Allowable Bending Moment: Max (in-k)	22.0
Allowable Bending Moment: Madx (in-k)	23.7
Allowable shear: Van (k)	1.223

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: Jx1000 (in ⁴)	0.760
Torsional Warping Constant: Cw (in ⁶)	6.33
Shear Center to Centroid on Principal X-axis: Xo (in)	-3.38
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.00
Torsional Flexural Constant: β = [1-(xo/Ro) ²]	0.289

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

