

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400SR200-54

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 400RJ16

PROPERTIES:

A. Web (in)	4.00"	Yield Strength Fy (KSI)	50
B. Flange (in)	2"	Tensile Strength Fu (KSI)	65
C. Lip (in)	0.625"	Design Thickness (in)	0.0566
Mils	54	Minimum Thickness (in)	0.0538
Available Finish	CP60, CP90	Gauge	16

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	1.55
Cross Sectional Area: A (in ²)	0.435
Moment of Inertia: Ix (in ⁴)	1.29
Section Modulus: Sx (in ³)	0.646
Radius of Gyration: Rx (in)	1.72
Gross Moment of Inertia: Iy (in ⁴)	0.239
Gross Radius of Gyration: Ry (in)	0.741

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixed (in ⁴)	1.29
Section Modulus: Sxe (in ³)	0.585
Allowable Bending Moment: Ma (in-k)	17.5
Allowable Shear Force: Va (K)	0.791

TORSIONAL SECTION PROPERTIES

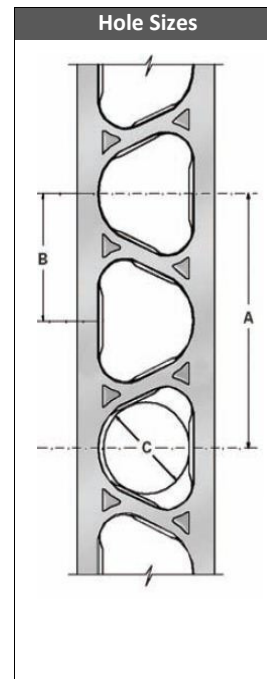
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.464
Torsional Warping Constant: Cw (in ⁶)	1.0596
Distance From Shear Center To Centroid Principle x-axis x_o (in.)	-1.81
Distance From Shear Center to Mid-Plane of Web m (in.)	1.01
Radius of Gyration on the Centroid Principal axis: r_o (in.)	2.61
$1 - (x_o/r_o)^2 = \beta$	0.518
Critical Unbraced Length, lateral torsional buckling excluded L_u (in.)	40.7

CODES & STANDARDS

- Meets ASTM A 1003, A 653, C955 & AISI S240
- Coating meets ASTM C 955 / AISI S240
- Meets IBC 2021, 2018
- IAPMO ES ER-0781

GREEN INFO

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



Section	A (in)	B (in)	C
3-5/8"	7.0	3.5	1-3/4
4"	7.0	3.5	1-3/4
6"	8.1	4.0	2-7/8



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

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