

Marino\WARE® Product Submittal Data

PRODUCT NAME: 400SR300-43

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 400RX18

PROPERTIES:

A. Web (in)	4.00"	Yield Strength Fy (KSI)	33
B. Flange (in)	3"	Tensile Strength Fu (KSI)	45
C. Lip (in)	0.625"	Design Thickness (in)	0.0451
Mils	43	Minimum Thickness (in)	0.0428
Available Finish	CP60, CP90	Gauge	18

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	1.55
Cross Sectional Area: A (in ²)	0.441
Moment of Inertia: Ix (in ⁴)	1.40
Section Modulus: Sx (in ³)	0.700
Radius of Gyration: Rx (in)	1.78
Gross Moment of Inertia: Iy (in ⁴)	0.526
Gross Radius of Gyration: Ry (in)	1.09

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixed (in ⁴)	1.32
Section Modulus: Sxe (in ³)	0.549
Allowable Bending Moment: Ma (in-k)	10.8
Allowable Shear Force: Va (K)	0.346

TORSIONAL SECTION PROPERTIES

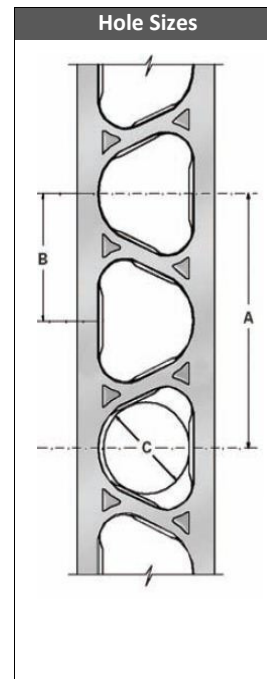
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.299
Torsional Warping Constant: Cw (in ⁶)	2.24
Distance From Shear Center To Centroid Principle x-axis x_o (in.)	-2.78
Distance From Shear Center to Mid-Plane of Web m (in.)	1.52
Radius of Gyration on the Centroid Principal axis: r_o (in.)	3.48
$1 - (x_o/r_o)^2 = \beta$	0.361
Critical Unbraced Length, lateral torsional buckling excluded L_u (in.)	70.6

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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