

Marino\WARE® Product Submittal Data

PRODUCT NAME: 362SR162-43

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 358RS18

PROPERTIES:

A. Web (in)	3.625"	Yield Strength Fy (KSI)	33
B. Flange (in)	1.625"	Tensile Strength Fu (KSI)	45
C. Lip (in)	0.5"	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)	1.030
Cross Sectional Area: A (in ²)	0.292
Moment of Inertia: I_x (in ⁴)	0.711
Section Modulus: S_x (in ³)	0.392
Radius of Gyration: R_x (in)	1.560
Gross Moment of Inertia: I_y (in ⁴)	0.103
Gross Radius of Gyration: R_y (in)	0.595

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_{xed} (in ⁴)	0.711
Section Modulus: S_{xe} (in ³)	0.392
Allowable Bending Moment: M_a (in-k)	7.750
Allowable Shear Force: V_a (K)	0.346

TORSIONAL SECTION PROPERTIES

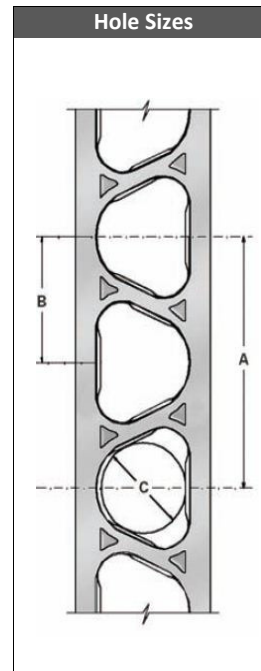
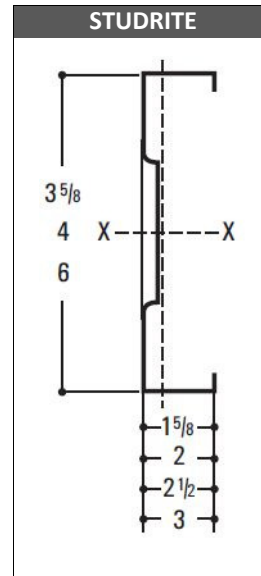
St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.198
Torsional Warping Constant: C_w (in ⁶)	0.364
Distance From Shear Center To Centroid Principle x-axis x_o (in.)	-1.440
Distance From Shear Center to Mid-Plane of Web m (in.)	0.802
Radius of Gyration on the Centroid Principal axis: r_o (in.)	2.200
$1 - (x_o/r_o)^2 = \beta$	0.575
Critical Unbraced Length, lateral torsional buckling excluded L_u (in.)	40.000

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.

This technical information reflects the most current information available and supersedes any and all publications, effective 12/1/2010
©Copyright 2010 by Ware Industries, Inc. All rights reserved