

Marino\WARE® Product Submittal Data

PRODUCT NAME: 600SR162-33

05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 600RS20

PROPERTIES:

A. Web (in)	6"	Yield Strength F_y (KSI)	33
B. Flange (in)	1.625"	Tensile Strength F_u (KSI)	45
C. Lip (in)	0.5"	Design Thickness (in)	0.0346
Mils	33	Minimum Thickness (in)	0.0329
Available Finish	CP60, CP90	Gauge	20 STR

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	0.99
Cross Sectional Area: A (in ²)	0.261
Moment of Inertia: I_x (in ⁴)	1.76
Section Modulus: S_x (in ³)	0.585
Radius of Gyration: R_x (in)	2.59
Gross Moment of Inertia: I_y (in ⁴)	0.0947
Gross Radius of Gyration: R_y (in)	0.603

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: I_{xed} (in ⁴)	1.76
Section Modulus: S_{xe} (in ³)	0.563
Allowable Bending Moment: Ma (in-k)	11.1
Allowable Shear Force: Va (K)	0.216

TORSIONAL SECTION PROPERTIES

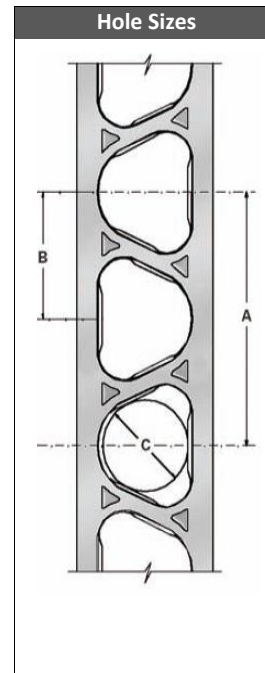
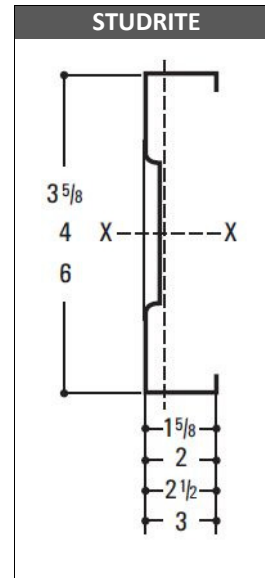
St. Venant Torsional Constant: J_{x1000} (in ⁴)	0.104
Torsional Warping Constant: C_w (in ⁶)	0.816
Distance From Shear Center To Centroid Principle x-axis x_o (in.)	-1.26
Distance From Shear Center to Mid-Plane of Web m (in.)	0.713
Radius of Gyration on the Centroid Principal axis: r_o (in.)	2.95
$1 - (x_o/r_o)^2 = \beta$	0.818
Critical Unbraced Length, lateral torsional buckling excluded L_u (in.)	38.9

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



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 7/1/2021
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