Marino\WARE® Product Submittal Data

PRODUCT NAME: **362SR162-54**

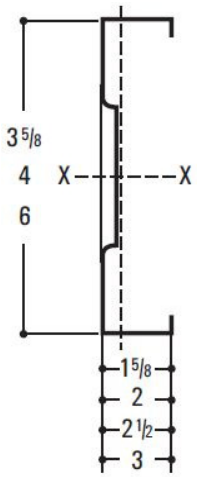
05.40.00 Cold-Formed Metal Framing

MARINO\WARE PART # 358RS16

PROPERTIES:

A. Web (in)	3.625"	**Yield Strength Fy (KSI)**	50
B. Flange (in)	1.625"	**Tensile Strength Fu (KSI)**	65
C. Lip (in)	0.5"	**Design Thickness (in)**	0.0566
Mils	54	**Minimum Thickness (in)**	0.0538
Available Finish	CP60, CP90	**Gauge**	16

STUDRITE



SECTION PROPERTIES

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	1.280
Cross Sectional Area: **A** (in^2)	0.361
Moment of Inertia: **Ix** (in^4)	0.874
Section Modulus: **Sx** (in^3)	0.482
Radius of Gyration: **Rx** (in)	1.560
Gross Moment of Inertia: **Iy** (in^4)	0.125
Gross Radius of Gyration: **Ry** (in)	0.588

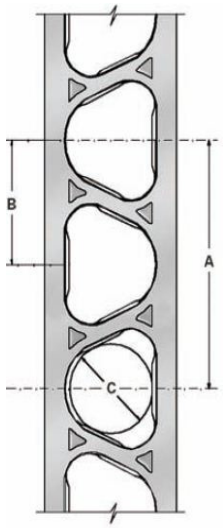
EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: **Ixed** (in^4)	0.874
Section Modulus: **Sxe** (in^3)	0.467
Allowable Bending Moment: **Ma** (in-k)	14.0
Allowable Shear Force: **Va** (K)	0.791

TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: **Jx1000** (in^4)	0.385
Torsional Warping Constant: C_w (in^6)	0.443
Distance From Shear Center To Centroid Principle x-axis x_o (in.)	-1.420
Distance From Shear Center to Mid-Plane of Web **m** (in.)	0.795
Radius of Gyration on the Centroid Principal axis: r_o (in.)	2.190
$1 - (x_o/r_o)^2 = ß$	0.577
Critical Unbraced Length, lateral torsional buckling excluded L_u (in.)	32.3

Hole Sizes



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

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

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