Marino\WARE® Product Submittal Data

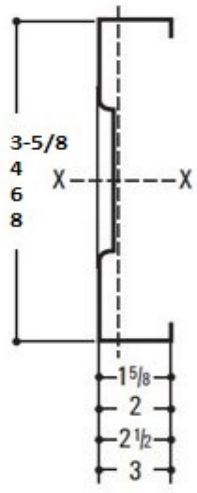
PRODUCT NAME: **800SR250-68**

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	8	**Yield Strength Fy (KSI)**	50
B. Flange (in)	2-1/2	**Tensile Strength Fu (KSI)**	65
C. Lip (in)	0.625"	**Design Thickness (in)**	0.0713
Mils	68	**Minimum Thickness (in)**	0.0677
Available Finish	CP60, CP90	**Gauge**	14

STUDRITE



SECTION PROPERTIES

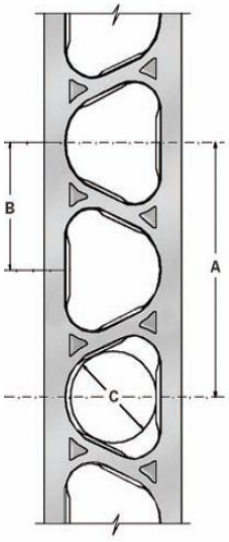
GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	2.58
Cross Sectional Area: **A** (in^2)	0.656
Moment of Inertia: **Ix** (in^4)	8.82
Section Modulus: **Sx** (in^3)	2.21
Radius of Gyration: **Rx** (in)	3.67
Gross Moment of Inertia: **Iy** (in^4)	0.518
Gross Radius of Gyration: **Ry** (in)	0.888

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: **Ixed** (in^4)	8.70
Section Modulus: **Sxe** (in^3)	1.91
Allowable Bending Moment: **Ma** (in-k)	57.1
Allowable Shear Force: **Va** (K)	1.21

Hole Sizes



TORSIONAL SECTION PROPERTIES

St. Venant Torsional Constant: **Jx1000** (in^4)	1.11
Torsional Warping Constant: C_w (in^6)	8.69
Distance From Shear Center To Centroid Principle x-axis x_o (in.)	-2.10
Distance From Shear Center to Mid-Plane of Web **m** (in.)	1.13
Radius of Gyration on the Centroid Principal axis: r_o (in.)	4.32
$1 - (x_o/r_o)^2 = ß$	0.763
Critical Unbraced Length, lateral torsional buckling excluded L_u (in.)	45.0

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

StudRite™

	Section[1]	A (in)	B (in)	C (in)
EC	**8"**	8.1	4.0	2-7/8
SP	**8"**	14.0	7.0	5-1/2

Note [1]: EC = East Chicago plant, SP= South Plainfield.
Check with plant for confirmation of hole size

MARINO\WARE®
www.marinoware.com

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