

Marino\WARE® Product Submittal Data

PRODUCT NAME: 800S250-43

MARINO\WARE PART # 800SE18

05.40.00 Cold-Formed Metal Framing

PROPERTIES:

A. Web (in)	8"	Yield Strength Fy (KSI)	33
B. Flange (in)	2-1/2"	Tensile Strength Fu (KSI)	45
C. Lip (in)	5/8"	Design Thickness (in)	0.0451
Mils	43	Minimum Thickness (in)	0.0428
Available Finish	G90	Gauge	18

SECTION PROPERTIES

GROSS SECTION PROPERTIES

Cross Sectional Area: A (in ²)	0.627
Weight of Member: (lb/ft)	2.134
Moment of Inertia: Ix (in ⁴)	6.017
Section Modulus: Sx (in ³)	1.504
Radius of Gyration: Rx (in)	3.097
Gross Moment of Inertia: Iy (in ⁴)	0.500
Gross Radius of Gyration: Ry (in)	0.893

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	5.979
Section Modulus: Sxe (in ³)	1.314
Allowable Local Bending Moment: Mal (in-k)	25.96
Allowable Distortional Bending Moment: Mad (in-k)	21.40
Allowable strong axis shear away from punch: Vag (lb)	1051
Allowable strong axis shear at punch: Vanet (lb)	1051

TORSIONAL SECTION PROPERTIES

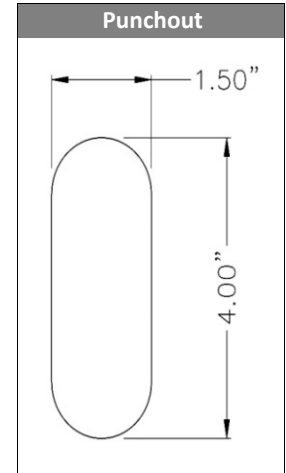
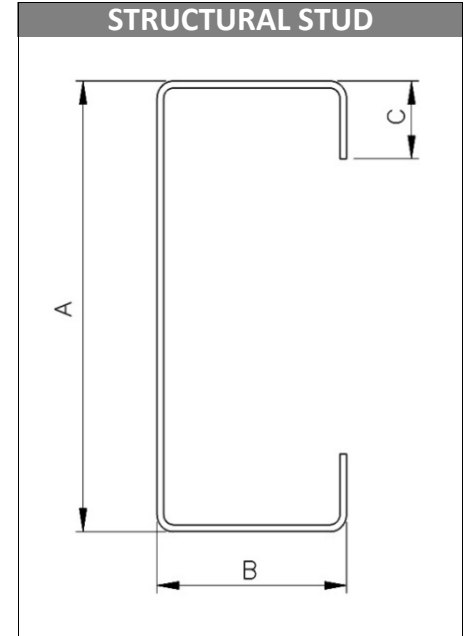
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.425
Torsional Warping Constant: Cw (in ⁶)	6.374
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.675
Shear Center to Mid-Plane of the Web: m (in)	1.043
Radius of Gyration on the Centroid Principal axis: Ro (in)	3.632
Torsional Flexural Constant: β 1-(xo/Ro) ²	0.787

CODES & STANDARDS

- AISI S100, S240 & ICC ES ESR-4062
- ASTM A 1003, A 653, & C 955
- IBC 2012, 2015, 2018, 2021 & FBC 2020, 2023

GREEN INFO

- LEED credits available
- Contact Technical Services for more information.



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 11/5/2023
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