

Product Category: 800S300-97

Product Name: 8" Stud

Physical Properties

Web Depth (in)	8.00	Gauge	12
Flange Width (in)	3.000	Mils	97
Return Lip (in)	0.625	Design Thickness (in)	0.1017
Standard Coating	CP60	Minimum Thickness (in)	0.0966
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	5.020	Ultimate, Fu (ksi)	65

Section Properties

Cross Sectional Area (A)	1.474 in ²
Moment of Inertia (Ix)	14.375 in ⁴
Radius of Gyration (Rx)	3.123 in
Gross Moment of Inertia (Iy)	1.595 in ⁴
Gross Radius of Gyration (Ry)	1.040 in

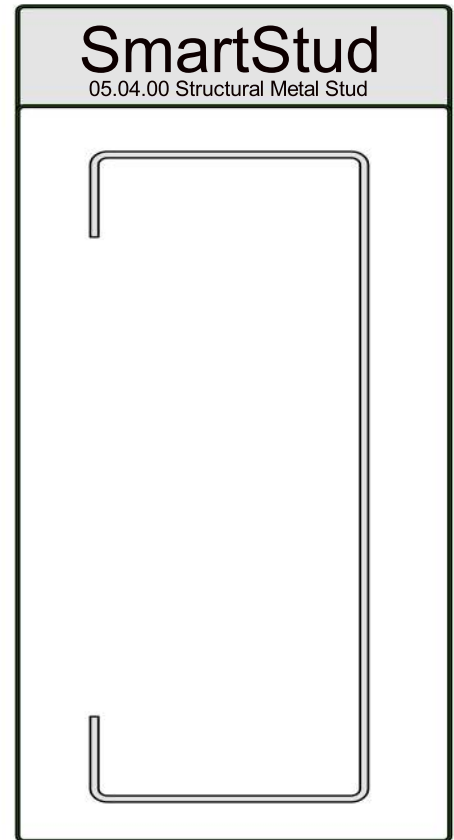
Effective Section Properties

Moment of Inertia for Deflection (Ixe)	14.170 in ⁴
Section Modulus (Sxe)	3.304 in ³
Allowable Bending Moment (Ma)	98.92 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	5.082 in ⁴
Warping Constant (Cw)	20.304 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-2.017 in
Radii of Gyration (Ro)	3.860 in
Torsional Flexural Constant (Beta)	0.727

*By request



MANUFACTURING Codes & Standards

- NASPEC AISI S10007 IBC 2009 2012 Compliant
- Coated in accordance to ASTM A1003 & A653
- Meets or exceeds ASTM C955
- For installation & storage, refer to ASTM C1007 & C754

GREEN Benefits & Recycled Content:

- LEED Credit MR 2 - Construction Waste Mgmt - 1-2 Points
- LEED Credit MR 4 - Recycled Credit - 1-2 Points
- LEED Credit MR 5 - Regional Materials - 1-2 Points
- Total Recycled Content: 34.9%
- Post Consumer Content: 24.3%
- Pre Consumer (Post Industrial) Content: 9.4%