

Product Category: 1200S300-97

Product Name: 12" Stud

Physical Properties

Web Depth (in)	12.00	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)	6.400	Ultimate, Fu (ksi)	65

Section Properties

Cross Sectional Area (A)	1.881 in²
Moment of Inertia (Ix)	37.616 in⁴
Radius of Gyration (Rx)	4.472 in
Gross Moment of Inertia (Iy)	1.786 in⁴
Gross Radius of Gyration (Ry)	0.974 in

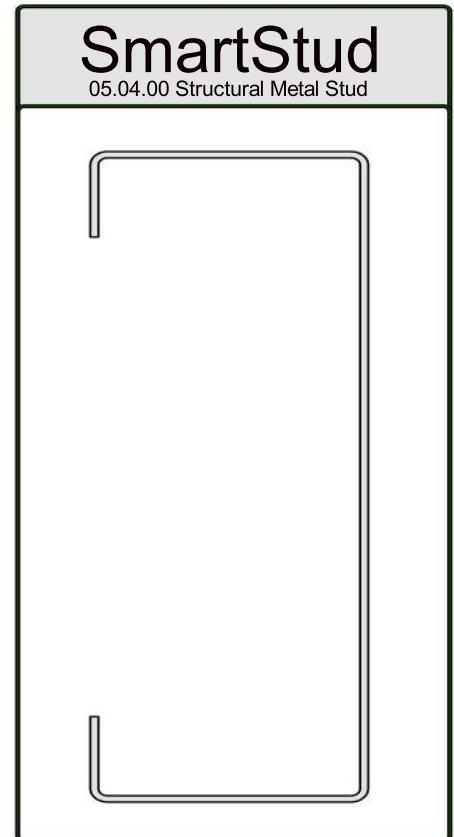
Effective Section Properties

Moment of Inertia for Deflection (Ixe)	37.085 in⁴
Section Modulus (Sxe)	5.831 in³
Allowable Bending Moment (Ma)	174.57 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	6.484 in⁴
Warping Constant (Cw)	50.853 in⁶
Distance from Shear Center to Neutral Axis (Xo)	-1.691 in
Radii of Gyration (Ro)	4.88 in
Torsional Flexural Constant (Beta)	0.88

*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%