

**Product Category:** 800S350-97

**Product Name:** 8" Stud

### Physical Properties

Web Depth (in)	8.00	Gauge	12
Flange Width (in)	3.500	Mils	97
Return Lip (in)	1.000	Design Thickness (in)	0.1017
Standard Coating	CP60	Minimum Thickness (in)	0.0966
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	5.620	Ultimate, Fu (ksi)	65

### Section Properties

Cross Sectional Area (A)	1.652 in <sup>2</sup>
Moment of Inertia (Ix)	16.737 in <sup>4</sup>
Radius of Gyration (Rx)	3.183 in
Gross Moment of Inertia (Iy)	2.784 in <sup>4</sup>
Gross Radius of Gyration (Ry)	1.298 in

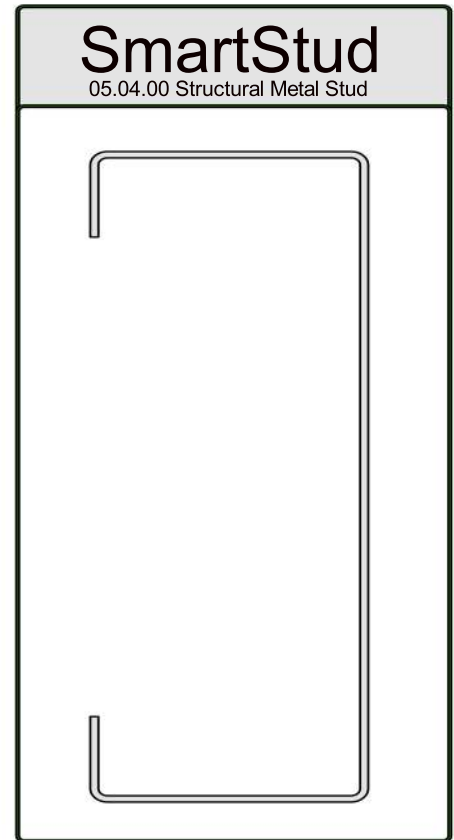
### Effective Section Properties

Moment of Inertia for Deflection (Ixe)	16.737 in <sup>4</sup>
Section Modulus (Sxe)	3.785 in <sup>3</sup>
Allowable Bending Moment (Ma)	113.34 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	5.696 in <sup>4</sup>
Warping Constant (Cw)	38.834 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-2.710 in
Radii of Gyration (Ro)	4.377 in
Torsional Flexural Constant (Beta)	0.617

\*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%