

**Product Name:** 8" Stud  
**Description:** 800S162-33

### Physical Properties

Web Depth (in)	8.000	Gauge	20
Flange Width (in)	1.625	Mils	33
Return Lip (in)	0.500	Design Thickness (in)	0.0346
Standard Coating	CP60	Minimum Thickness (in)	0.0329
Available Coating *	CP90	Yield Stress Fy (ksi)	33
Weight (lb/ft)	1.410	Ultimate, Fu (ksi)	45

### Section Properties

Cross Sectional Area (A)	0.413 in <sup>2</sup>
Moment of Inertia (Ix)	3.583 in <sup>4</sup>
Radius of Gyration (Rx)	2.944 in
Gross Moment of Inertia (Iy)	0.125 in <sup>4</sup>
Gross Radius of Gyration (Ry)	0.550 in

### Effective Section Properties

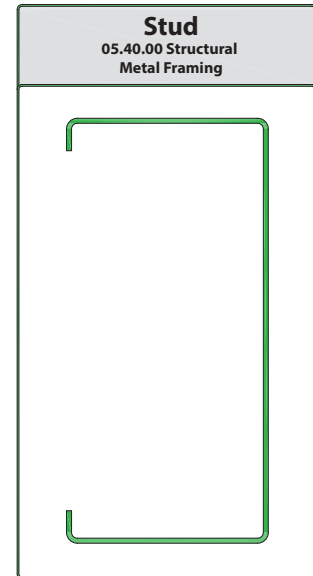
Moment of Inertia for Deflection (Ixe)	3.385 in <sup>4</sup>
Section Modulus (Sxe)	0.710 in <sup>3</sup>
Allowable Bending Moment (Ma)	14.03 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.165 in <sup>4</sup>
Warping Constant (Cw)	1.630 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-0.936 in
Radii of Gyration (Ro)	3.138 in
Torsional Flexural Constant (Beta)	0.911

**Web-depth to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.**

\*By request



### MANUFACTURING Codes & Standards

NASPEC AISI S100-07 IBC 2009 2012 Compliant  
 Coated in accordance to ASTM A1003 & A653  
 Meets or exceeds ASTM C955 & AISI S200  
 Code Evaluation Report ICC-ESR #3957

### GREEN Benefits & LEED Data:

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  
 CRACO products are 100% recyclable  
 Contact Technical Services for more information