

**Product Name:** 4" Stud  
**Description:** 400S137-33

### Physical Properties

Web Depth (in)	4.000	Gauge	20
Flange Width (in)	1.375	Mils	33
Return Lip (in)	0.375	Design Thickness (in)	0.0346
Standard Coating	CP60	Minimum Thickness (in)	0.0329
Available Coating *	CP90	Yield Stress Fy (ksi)	33
Weight (lb/ft)	0.850	Ultimate, Fu (ksi)	45

### Section Properties

Cross Sectional Area (A)	0.249 in <sup>2</sup>
Moment of Inertia (Ix)	0.603 in <sup>4</sup>
Radius of Gyration (Rx)	1.556 in
Gross Moment of Inertia (Iy)	0.061 in <sup>4</sup>
Gross Radius of Gyration (Ry)	0.496 in

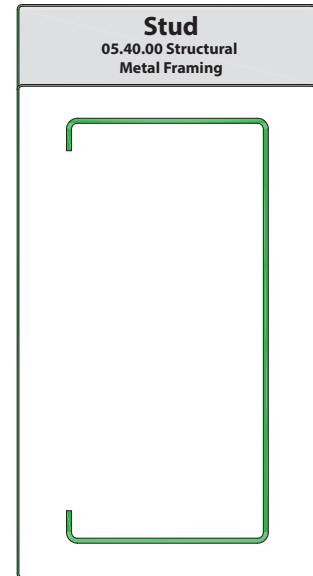
### Effective Section Properties

Moment of Inertia for Deflection (Ixe)	0.603 in <sup>4</sup>
Section Modulus (Sxe)	0.259 in <sup>3</sup>
Allowable Bending Moment (Ma)	5.120 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.099 in <sup>4</sup>
Warping Constant (Cw)	0.204 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-0.965 in
Radii of Gyration (Ro)	1.897 in
Torsional Flexural Constant (Beta)	0.741

\*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