

**Product Name:** 4" Stud  
**Description:** 400S300-33

### Physical Properties

Web Depth (in)	4.000	Gauge	20
Flange Width (in)	3.000	Mils	33
Return Lip (in)	0.625	Design Thickness (in)	0.0346
Standard Coating	CP60	Minimum Thickness (in)	0.0329
Available Coating *	CP90	Yield Stress Fy (ksi)	33
Weight (lb/ft)	1.290	Ultimate, Fu (ksi)	45

### Section Properties

Cross Sectional Area (A)	0.379 in <sup>2</sup>
Moment of Inertia (Ix)	1.084 in <sup>4</sup>
Radius of Gyration (Rx)	1.692 in
Gross Moment of Inertia (Iy)	0.479 in <sup>4</sup>
Gross Radius of Gyration (Ry)	1.125 in

### Effective Section Properties

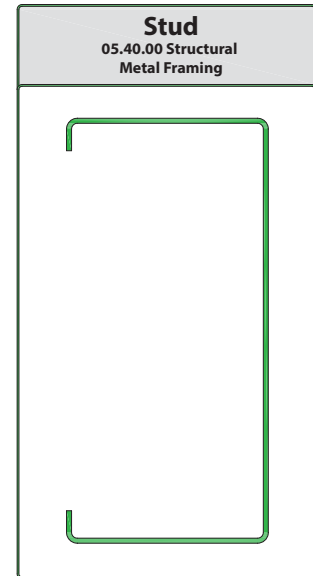
Moment of Inertia for Deflection (Ixe)	0.990 in <sup>4</sup>
Section Modulus (Sxe)	0.366 in <sup>3</sup>
Allowable Bending Moment (Ma)	7.230 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.151 in <sup>4</sup>
Warping Constant (Cw)	1.786 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-2.621 in
Radii of Gyration (Ro)	3.316 in
Torsional Flexural Constant (Beta)	0.375

**This section does not meet the requirements of AISI. Advised to increase the thickness.**

\*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