

**Product Name:** 4" Stud  
**Description:** 400S162-68

### Physical Properties

Web Depth (in)	4.000	Gauge	14
Flange Width (in)	1.625	Mils	68
Return Lip (in)	0.500	Design Thickness (in)	0.0713
Standard Coating	CP60	Minimum Thickness (in)	0.0677
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	1.870	Ultimate, Fu (ksi)	65

### Section Properties

Cross Sectional Area (A)	0.550 in <sup>2</sup>
Moment of Inertia (Ix)	1.346 in <sup>4</sup>
Radius of Gyration (Rx)	1.564 in
Gross Moment of Inertia (Iy)	0.192 in <sup>4</sup>
Gross Radius of Gyration (Ry)	0.591 in

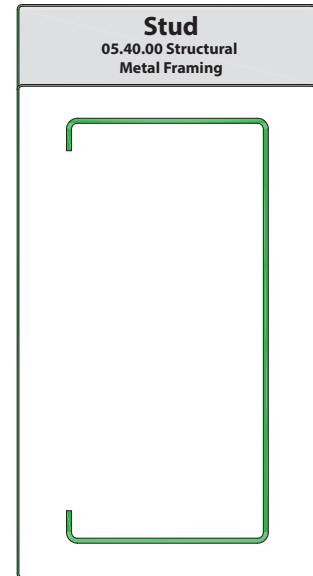
### Effective Section Properties

Moment of Inertia for Deflection (Ixe)	1.346 in <sup>4</sup>
Section Modulus (Sxe)	0.648 in <sup>3</sup>
Allowable Bending Moment (Ma)	19.410 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.933 in <sup>4</sup>
Warping Constant (Cw)	0.677 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-1.220 in
Radii of Gyration (Ro)	2.069 in
Torsional Flexural Constant (Beta)	0.653

\*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