

**Product Name:** 4" Stud  
**Description:** 400S250-68

### Physical Properties

Web Depth (in)	4.000	Gauge	14
Flange Width (in)	2.500	Mils	68
Return Lip (in)	0.625	Design Thickness (in)	0.0713
Standard Coating	CP60	Minimum Thickness (in)	0.0677
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	2.360	Ultimate, Fu (ksi)	65

### Section Properties

Cross Sectional Area (A)	0.693 in <sup>2</sup>
Moment of Inertia (Ix)	1.865 in <sup>4</sup>
Radius of Gyration (Rx)	1.640 in
Gross Moment of Inertia (Iy)	0.599 in <sup>4</sup>
Gross Radius of Gyration (Ry)	0.929 in

### Effective Section Properties

Moment of Inertia for Deflection (Ixe)	1.865 in <sup>4</sup>
Section Modulus (Sxe)	0.775 in <sup>3</sup>
Allowable Bending Moment (Ma)	23.200 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	1.174 in <sup>4</sup>
Warping Constant (Cw)	2.225 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-2.105 in
Radii of Gyration (Ro)	2.826 in
Torsional Flexural Constant (Beta)	0.445

\*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