

**Product Name:** 2-1/2" Stud  
**Description:** 250S200-43

### Physical Properties

Web Depth (in)	2.500	Gauge	18
Flange Width (in)	2.000	Mils	43
Return Lip (in)	0.625	Design Thickness (in)	0.0451
Standard Coating	CP60	Minimum Thickness (in)	0.0428
Available Coating *	CP90	Yield Stress Fy (ksi)	33
Weight (lb/ft)	1.140	Ultimate, Fu (ksi)	45

### Section Properties

Cross Sectional Area (A)	0.334 in <sup>2</sup>
Moment of Inertia (Ix)	0.358 in <sup>4</sup>
Radius of Gyration (Rx)	1.036 in
Gross Moment of Inertia (Iy)	0.198 in <sup>4</sup>
Gross Radius of Gyration (Ry)	0.769 in

### Effective Section Properties

Moment of Inertia for Deflection (Ixe)	0.358 in <sup>4</sup>
Section Modulus (Sxe)	0.273 in <sup>3</sup>
Allowable Bending Moment (Ma)	5.840 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.227 in <sup>4</sup>
Warping Constant (Cw)	0.382 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-1.914 in
Radii of Gyration (Ro)	2.308 in
Torsional Flexural Constant (Beta)	0.312

\*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