

**Product Name:** 10" Stud  
**Description:** 1000S250-43

### Physical Properties

Web Depth (in)	10.00	Gauge	18
Flange Width (in)	2.500	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)	2.440	Ultimate, Fu (ksi)	45

### Section Properties

Cross Sectional Area (A)	0.717 in <sup>2</sup>
Moment of Inertia (Ix)	10.203 in <sup>4</sup>
Radius of Gyration (Rx)	3.771 in
Gross Moment of Inertia (Iy)	0.531 in <sup>4</sup>
Gross Radius of Gyration (Ry)	0.860 in

### Effective Section Properties

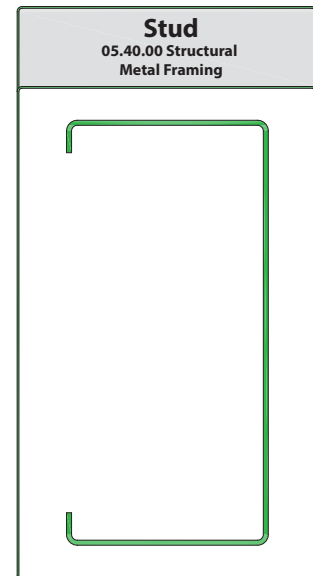
Moment of Inertia for Deflection (Ixe)	10.203 in <sup>4</sup>
Section Modulus (Sxe)	1.617 in <sup>3</sup>
Allowable Bending Moment (Ma)	31.95 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.486 in <sup>4</sup>
Warping Constant (Cw)	10.481 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-1.518 in
Radii of Gyration (Ro)	4.155 in
Torsional Flexural Constant (Beta)	0.867

**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