

**Product Name:** 10" Stud  
**Description:** 1000S250-54

### Physical Properties

Web Depth (in)	10.00	Gauge	16
Flange Width (in)	2.500	Mils	54
Return Lip (in)	0.625	Design Thickness (in)	0.0566
Standard Coating	CP60	Minimum Thickness (in)	0.0538
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	3.050	Ultimate, Fu (ksi)	65

### Section Properties

Cross Sectional Area (A)	0.896 in <sup>2</sup>
Moment of Inertia (Ix)	12.677 in <sup>4</sup>
Radius of Gyration (Rx)	3.762 in
Gross Moment of Inertia (Iy)	0.653 in <sup>4</sup>
Gross Radius of Gyration (Ry)	0.854 in

### Effective Section Properties

Moment of Inertia for Deflection (Ixe)	12.66 in <sup>4</sup>
Section Modulus (Sxe)	1.879 in <sup>3</sup>
Allowable Bending Moment (Ma)	56.26 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.957 in <sup>4</sup>
Warping Constant (Cw)	12.922 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-1.505 in
Radii of Gyration (Ro)	4.140 in
Torsional Flexural Constant (Beta)	0.868

\*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