

**Product Name:** 6" Stud  
**Description:** 600S250-54

### Physical Properties

Web Depth (in)	6.000	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)	2.280	Ultimate, Fu (ksi)	65

### Section Properties

Cross Sectional Area (A)	0.670 in <sup>2</sup>
Moment of Inertia (Ix)	3.819 in <sup>4</sup>
Radius of Gyration (Rx)	2.388 in
Gross Moment of Inertia (Iy)	0.562 in <sup>4</sup>
Gross Radius of Gyration (Ry)	0.917 in

### Effective Section Properties

Moment of Inertia for Deflection (Ixe)	3.766 in <sup>4</sup>
Section Modulus (Sxe)	1.069 in <sup>3</sup>
Allowable Bending Moment (Ma)	32.000 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.715 in <sup>4</sup>
Warping Constant (Cw)	4.194 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-1.860 in
Radii of Gyration (Ro)	3.163 in
Torsional Flexural Constant (Beta)	0.654

\*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