

**Product Name:** 12" Stud  
**Description:** 1200S300-68

### Physical Properties

Web Depth (in)	12.00	Gauge	14
Flange Width (in)	3.000	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)	4.540	Ultimate, Fu (ksi)	65

### Section Properties

Cross Sectional Area (A)	1.335 in <sup>2</sup>
Moment of Inertia (Ix)	27.02 in <sup>4</sup>
Radius of Gyration (Rx)	4.499 in
Gross Moment of Inertia (Iy)	1.320 in <sup>4</sup>
Gross Radius of Gyration (Ry)	0.994 in

### Effective Section Properties

Moment of Inertia for Deflection (Ixe)	26.51 in <sup>4</sup>
Section Modulus (Sxe)	3.317 in <sup>3</sup>
Allowable Bending Moment (Ma)	99.32 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	2.262 in <sup>4</sup>
Warping Constant (Cw)	37.126 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-1.726 in
Radii of Gyration (Ro)	4.921 in
Torsional Flexural Constant (Beta)	0.877

\*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