

Product Name: 4" Stud
Description: 400S200-97

Physical Properties

Web Depth (in)	4.000	Gauge	12
Flange Width (in)	2.000	Mils	97
Return Lip (in)	0.625	Design Thickness (in)	0.1017
Standard Coating	CP60	Minimum Thickness (in)	0.0966
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	2.940	Ultimate, Fu (ksi)	65

Section Properties

Cross Sectional Area (A)	0.864 in ²
Moment of Inertia (Ix)	2.156 in ⁴
Radius of Gyration (Rx)	1.58 in
Gross Moment of Inertia (Iy)	0.463 in ⁴
Gross Radius of Gyration (Ry)	0.732 in

Effective Section Properties

Moment of Inertia for Deflection (Ixe)	2.156 in ⁴
Section Modulus (Sxe)	1.064 in ³
Allowable Bending Moment (Ma)	36.69 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	2.978 in ⁴
Warping Constant (Cw)	1.749 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-1.605 in
Radii of Gyration (Ro)	2.368 in
Torsional Flexural Constant (Beta)	0.541

*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