

Product Name: 4" Stud
Description: 400S200-33

Physical Properties

Web Depth (in)	4.000	Gauge	20
Flange Width (in)	2.000	Mils	33
Return Lip (in)	0.625	Design Thickness (in)	0.0346
Standard Coating	CP60	Minimum Thickness (in)	0.0329
Available Coating *	CP90	Yield Stress Fy (ksi)	33
Weight (lb/ft)	1.050	Ultimate, Fu (ksi)	45

Section Properties

Cross Sectional Area (A)	0.310 in ²
Moment of Inertia (Ix)	0.812 in ⁴
Radius of Gyration (Rx)	1.619 in
Gross Moment of Inertia (Iy)	0.183 in ⁴
Gross Radius of Gyration (Ry)	0.769 in

Effective Section Properties

Moment of Inertia for Deflection (Ixe)	0.812 in ⁴
Section Modulus (Sxe)	0.328 in ³
Allowable Bending Moment (Ma)	6.490 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.124 in ⁴
Warping Constant (Cw)	0.697 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-1.688 in
Radii of Gyration (Ro)	2.462 in
Torsional Flexural Constant (Beta)	0.530

*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