

Product Name: 4" Stud
Description: 400S162-43

Physical Properties

Web Depth (in)	4.000	Gauge	18
Flange Width (in)	1.625	Mils	43
Return Lip (in)	0.500	Design Thickness (in)	0.0451
Standard Coating	CP60	Minimum Thickness (in)	0.0428
Available Coating *	CP90	Yield Stress Fy (ksi)	33
Weight (lb/ft)	1.210	Ultimate, Fu (ksi)	45

Section Properties

Cross Sectional Area (A)	0.357 in ²
Moment of Inertia (Ix)	0.892 in ⁴
Radius of Gyration (Rx)	1.581 in
Gross Moment of Inertia (Iy)	0.131 in ⁴
Gross Radius of Gyration (Ry)	0.606 in

Effective Section Properties

Moment of Inertia for Deflection (Ixe)	0.892 in ⁴
Section Modulus (Sxe)	0.417 in ³
Allowable Bending Moment (Ma)	8.230 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.242 in ⁴
Warping Constant (Cw)	0.460 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-1.252 in
Radii of Gyration (Ro)	2.106 in
Torsional Flexural Constant (Beta)	0.647

*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