

Product Name: 4" Stud
Description: 400S300-43

Physical Properties

Web Depth (in)	4.000	Gauge	18
Flange Width (in)	3.000	Mils	43
Return Lip (in)	0.625	Design Thickness (in)	0.0451
Standard Coating	CP60	Minimum Thickness (in)	0.0428
Available Coating *	CP90	Yield Stress Fy (ksi)	33
Weight (lb/ft)	1.670	Ultimate, Fu (ksi)	45

Section Properties

Cross Sectional Area (A)	0.492 in ²
Moment of Inertia (Ix)	1.400 in ⁴
Radius of Gyration (Rx)	1.687 in
Gross Moment of Inertia (Iy)	0.617 in ⁴
Gross Radius of Gyration (Ry)	1.120 in

Effective Section Properties

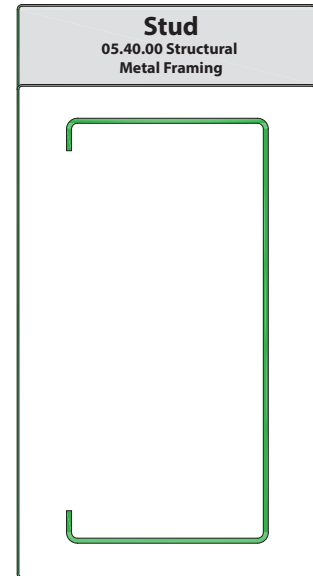
Moment of Inertia for Deflection (Ixe)	1.355 in ⁴
Section Modulus (Sxe)	0.513 in ³
Allowable Bending Moment (Ma)	10.15 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.334 in ⁴
Warping Constant (Cw)	2.282 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-2.608 in
Radii of Gyration (Ro)	3.302 in
Torsional Flexural Constant (Beta)	0.376

This section does not meet the requirements of AISI. Advised to increase the thickness.

*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