

Product Name: 10" Stud
Description: 1000S300-43

Physical Properties

Web Depth (in)	10.00	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)	2.590	Ultimate, Fu (ksi)	45

Section Properties

Cross Sectional Area (A)	0.763 in ²
Moment of Inertia (Ix)	11.323 in ⁴
Radius of Gyration (Rx)	3.853 in
Gross Moment of Inertia (Iy)	0.831 in ⁴
Gross Radius of Gyration (Ry)	1.044 in

Effective Section Properties

Moment of Inertia for Deflection (Ixe)	11.18 in ⁴
Section Modulus (Sxe)	1.625 in ³
Allowable Bending Moment (Ma)	32.11 in-k

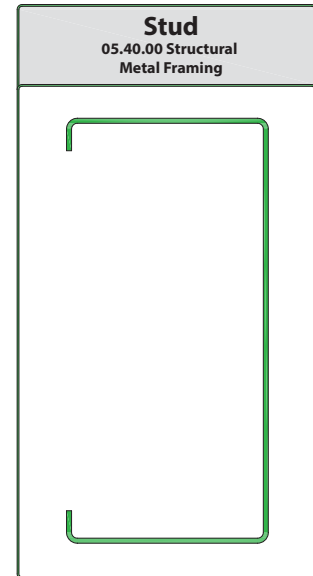
This section does not meet the requirements of AISI. Advised to increase the thickness.

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.517 in ⁴
Warping Constant (Cw)	16.099 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-1.905 in
Radii of Gyration (Ro)	4.424 in
Torsional Flexural Constant (Beta)	0.814

Web-depth to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.

*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