

Product Name: 2-1/2" Stud
Description: 250S250-33

Physical Properties

Web Depth (in)	2.500	Gauge	20
Flange Width (in)	2.500	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)	0.990	Ultimate, Fu (ksi)	45

Section Properties

Cross Sectional Area (A)	1.292 in ²
Moment of Inertia (Ix)	0.331 in ⁴
Radius of Gyration (Rx)	1.065 in
Gross Moment of Inertia (Iy)	0.262 in ⁴
Gross Radius of Gyration (Ry)	0.946 in

Effective Section Properties

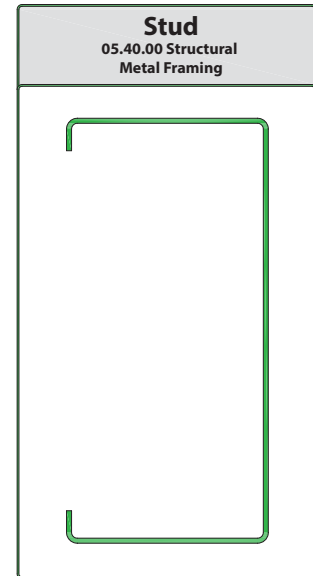
Moment of Inertia for Deflection (Ixe)	0.315 in ⁴
Section Modulus (Sxe)	0.214 in ³
Allowable Bending Moment (Ma)	4.220 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.117 in ⁴
Warping Constant (Cw)	0.502 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-2.416 in
Radii of Gyration (Ro)	2.804 in
Torsional Flexural Constant (Beta)	0.258

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