

Product Name: 12" Stud
Description: 1200S350-54

Physical Properties

Web Depth (in)	12.00	Gauge	16
Flange Width (in)	3.500	Mils	54
Return Lip (in)	1.000	Design Thickness (in)	0.0566
Standard Coating	CP60	Minimum Thickness (in)	0.0538
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	3.960	Ultimate, Fu (ksi)	65

Section Properties

Cross Sectional Area (A)	1.165 in ²
Moment of Inertia (Ix)	24.86 in ⁴
Radius of Gyration (Rx)	4.620 in
Gross Moment of Inertia (Iy)	1.866 in ⁴
Gross Radius of Gyration (Ry)	1.266 in

Effective Section Properties

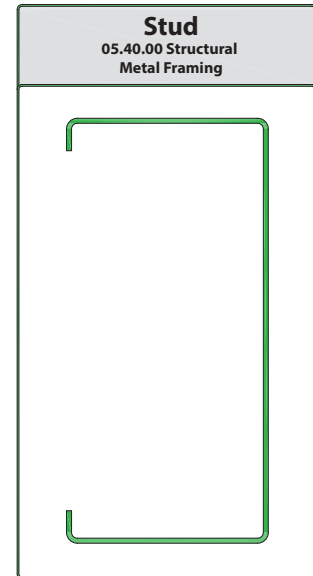
Moment of Inertia for Deflection (Ixe)	24.087 in ⁴
Section Modulus (Sxe)	2.787 in ³
Allowable Bending Moment (Ma)	83.46 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	1.244 in ⁴
Warping Constant (Cw)	54.279 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-2.363 in
Radii of Gyration (Ro)	5.341 in
Torsional Flexural Constant (Beta)	0.804

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