

Product Name: 8" Stud
Description: 800S200-33

Physical Properties

Web Depth (in)	8.000	Gauge	20
Leg Length (in)	2.000	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)	1.520	Ultimate, Fu (ksi)	45

Section Properties

Cross Sectional Area (A)	0.448 in ²
Moment of Inertia (Ix)	4.096 in ⁴
Radius of Gyration (Rx)	3.023 in
Gross Moment of Inertia (Iy)	0.227 in ⁴
Gross Radius of Gyration (Ry)	0.712 in

Effective Section Properties

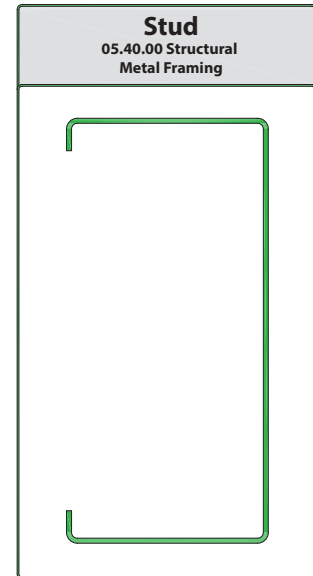
Moment of Inertia for Deflection (Ixe)	4.096 in ⁴
Section Modulus (Sxe)	0.816 in ³
Allowable Bending Moment (Ma)	16.12 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.179 in ⁴
Warping Constant (Cw)	2.971 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-1.288 in
Radii of Gyration (Ro)	3.363 in
Torsional Flexural Constant (Beta)	0.853

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