

Product Name: 8" Stud
Description: 800S137-33

Physical Properties

Web Depth (in)	8.000	Gauge	20
Flange Width (in)	1.375	Mils	33
Return Lip (in)	0.375	Design Thickness (in)	0.0346
Standard Coating	CP60	Minimum Thickness (in)	0.0329
Available Coating *	CP90	Yield Stress Fy (ksi)	33
Weight (lb/ft)	1.320	Ultimate, Fu (ksi)	45

Section Properties

Cross Sectional Area (A)	0.388 in ²
Moment of Inertia (Ix)	3.198 in ⁴
Radius of Gyration (Rx)	2.873 in
Gross Moment of Inertia (Iy)	0.073 in ⁴
Gross Radius of Gyration (Ry)	0.435 in

Effective Section Properties

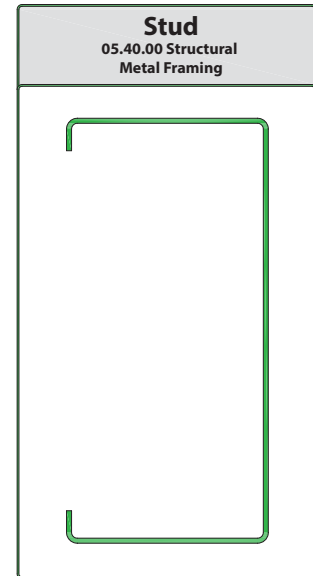
Moment of Inertia for Deflection (Ixe)	2.998 in ⁴
Section Modulus (Sxe)	0.622 in ³
Allowable Bending Moment (Ma)	12.30 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.155 in ⁴
Warping Constant (Cw)	0.957 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-0.696 in
Radii of Gyration (Ro)	2.987 in
Torsional Flexural Constant (Beta)	0.946

Web-depth to thickness ration 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