

Product Name: 4" Stud
Description: 400S137-54

Physical Properties

Web Depth (in)	4.000	Gauge	16
Flange Width (in)	1.375	Mils	54
Return Lip (in)	0.375	Design Thickness (in)	0.0566
Standard Coating	CP60	Minimum Thickness (in)	0.0538
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	1.360	Ultimate, Fu (ksi)	65

Section Properties

Cross Sectional Area (A)	0.401 in ²
Moment of Inertia (Ix)	0.953 in ⁴
Radius of Gyration (Rx)	1.542 in
Gross Moment of Inertia (Iy)	0.094 in ⁴
Gross Radius of Gyration (Ry)	0.484 in

Effective Section Properties

Moment of Inertia for Deflection (Ixe)	0.953 in ⁴
Section Modulus (Sxe)	0.428 in ³
Allowable Bending Moment (Ma)	12.82 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.428 in ⁴
Warping Constant (Cw)	0.311 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-0.940 in
Radii of Gyration (Ro)	1.870 in
Torsional Flexural Constant (Beta)	0.747

*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