

Product Name: 4" Stud
Description: 400S162-54

Physical Properties

Web Depth (in)	4.000	Gauge	16
Flange Width (in)	1.625	Mils	54
Return Lip (in)	0.500	Design Thickness (in)	0.0566
Standard Coating	CP60	Minimum Thickness (in)	0.0538
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	1.510	Ultimate, Fu (ksi)	65

Section Properties

Cross Sectional Area (A)	0.443 in ²
Moment of Inertia (Ix)	1.098 in ⁴
Radius of Gyration (Rx)	1.574 in
Gross Moment of Inertia (Iy)	0.159 in ⁴
Gross Radius of Gyration (Ry)	0.600 in

Effective Section Properties

Moment of Inertia for Deflection (Ixe)	1.098 in ⁴
Section Modulus (Sxe)	0.498 in ³
Allowable Bending Moment (Ma)	14.900 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.473 in ⁴
Warping Constant (Cw)	0.560 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-1.238 in
Radii of Gyration (Ro)	2.090 in
Torsional Flexural Constant (Beta)	0.649

*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