

Product Name: 4" Stud
Description: 400S162-97

Physical Properties

Web Depth (in)	4.000	Gauge	12
Flange Width (in)	1.625	Mils	97
Return Lip (in)	0.500	Design Thickness (in)	0.1017
Standard Coating	CP60	Minimum Thickness (in)	0.0966
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	2.590	Ultimate, Fu (ksi)	65

Section Properties

Cross Sectional Area (A)	0.762 in ²
Moment of Inertia (Ix)	1.813 in ⁴
Radius of Gyration (Rx)	1.542 in
Gross Moment of Inertia (Iy)	0.25 in ⁴
Gross Radius of Gyration (Ry)	0.572 in

Effective Section Properties

Moment of Inertia for Deflection (Ixe)	1.813 in ⁴
Section Modulus (Sxe)	0.892 in ³
Allowable Bending Moment (Ma)	31.65 in-k

Torsional Properties

St. Venant Torsion Constant (Jx1000)	2.628 in ⁴
Warping Constant (Cw)	0.889 in ⁶
Distance from Shear Center to Neutral Axis (Xo)	-1.182 in
Radii of Gyration (Ro)	2.026 in
Torsional Flexural Constant (Beta)	0.660

*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