

**Product Name:** 8" Stud  
**Description:** 800S250-43

### Physical Properties

Web Depth (in)	8.000	Gauge	18
Flange Width (in)	2.500	Mils	43
Return Lip (in)	0.625	Design Thickness (in)	0.0451
Standard Coating	CP60	Minimum Thickness (in)	0.0428
Available Coating *	CP90	Yield Stress Fy (ksi)	50
Weight (lb/ft)	2.130	Ultimate, Fu (ksi)	65

### Section Properties

Cross Sectional Area (A)	0.627 in <sup>2</sup>
Moment of Inertia (Ix)	6.015 in <sup>4</sup>
Radius of Gyration (Rx)	3.097 in
Gross Moment of Inertia (Iy)	0.500 in <sup>4</sup>
Gross Radius of Gyration (Ry)	0.893 in

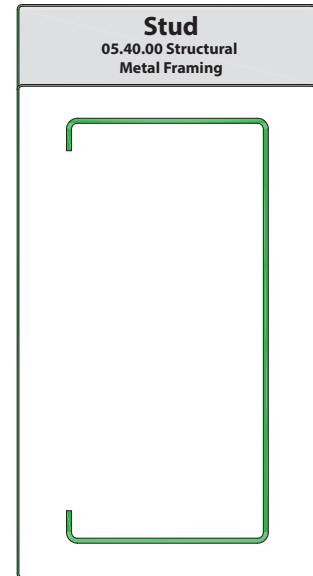
### Effective Section Properties

Moment of Inertia for Deflection (Ixe)	6.015 in <sup>4</sup>
Section Modulus (Sxe)	1.313 in <sup>3</sup>
Allowable Bending Moment (Ma)	25.95 in-k

### Torsional Properties

St. Venant Torsion Constant (Jx1000)	0.425 in <sup>4</sup>
Warping Constant (Cw)	6.374 in <sup>6</sup>
Distance from Shear Center to Neutral Axis (Xo)	-1.675 in
Radii of Gyration (Ro)	3.632 in
Torsional Flexural Constant (Beta)	0.787

\*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