

Product Name: 4" Stud
Description: 400S250-43

Physical Properties

| | | | |
|---------------------|-------|------------------------|--------|
| Web Depth (in) | 4.000 | Gauge | 33 |
| 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) | 33 |
| Weight (lb/ft) | 1.52 | Ultimate, Fu (ksi) | 45 |

Section Properties

| | |
|-------------------------------|-----------------------|
| Cross Sectional Area (A) | 0.447 in ² |
| Moment of Inertia (Ix) | 1.224 in ⁴ |
| Radius of Gyration (Rx) | 1.655 in |
| Gross Moment of Inertia (Iy) | 0.399 in ⁴ |
| Gross Radius of Gyration (Ry) | 0.945 in |

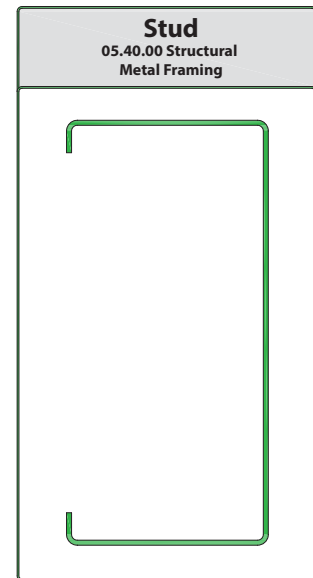
Effective Section Properties

| | |
|--|-----------------------|
| Moment of Inertia for Deflection (Ixe) | 1.224 in ⁴ |
| Section Modulus (Sxe) | 0.503 in ³ |
| Allowable Bending Moment (Ma) | 9.930 in-k |

Torsional Properties

| | |
|---|-----------------------|
| St. Venant Torsion Constant (Jx1000) | 0.303 in ⁴ |
| Warping Constant (Cw) | 1.486 in ⁶ |
| Distance from Shear Center to Neutral Axis (Xo) | -2.139 in |
| Radii of Gyration (Ro) | 2.865 in |
| Torsional Flexural Constant (Beta) | 0.443 |

*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