

Product Name: 12" Stud
Description: 1200S250-54

Physical Properties

| | | | |
|---------------------|-------|------------------------|--------|
| Web Depth (in) | 12.00 | Gauge | 16 |
| Flange Width (in) | 2.500 | Mils | 54 |
| Return Lip (in) | 0.625 | Design Thickness (in) | 0.0566 |
| Standard Coating | CP60 | Minimum Thickness (in) | 0.0538 |
| Available Coating * | CP90 | Yield Stress Fy (ksi) | 50 |
| Weight (lb/ft) | 3.430 | Ultimate, Fu (ksi) | 65 |

Section Properties

| | |
|-------------------------------|------------------------|
| Cross Sectional Area (A) | 1.009 in ² |
| Moment of Inertia (Ix) | 19.681 in ⁴ |
| Radius of Gyration (Rx) | 4.416 in |
| Gross Moment of Inertia (Iy) | 0.683 in ⁴ |
| Gross Radius of Gyration (Ry) | 0.823 in |

Effective Section Properties

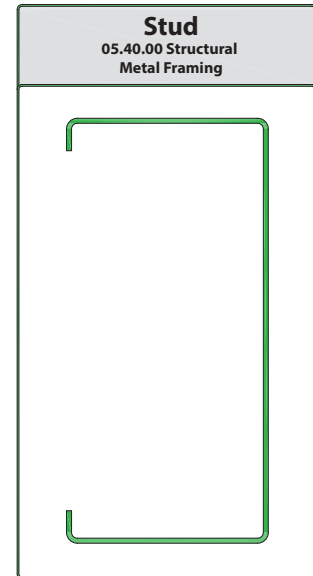
| | |
|--|------------------------|
| Moment of Inertia for Deflection (Ixe) | 18.433 in ⁴ |
| Section Modulus (Sxe) | 2.149 in ³ |
| Allowable Bending Moment (Ma) | 64.340 in-k |

Torsional Properties

| | |
|---|------------------------|
| St. Venant Torsion Constant (Jx1000) | 1.078 in ⁴ |
| Warping Constant (Cw) | 19.505 in ⁶ |
| Distance from Shear Center to Neutral Axis (Xo) | -1.378 in |
| Radii of Gyration (Ro) | 4.699 in |
| Torsional Flexural Constant (Beta) | 0.914 |

This section does not meet the requirements of AISI. Advised to increase the thickness

*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