

**Product Name:** 12" Stud  
**Description:** 1200S200-97

### Physical Properties

|                     |       |                        |        |
|---------------------|-------|------------------------|--------|
| Web Depth (in)      | 12.00 | Gauge                  | 12     |
| Flange Width (in)   | 2.000 | Mils                   | 97     |
| Return Lip (in)     | 0.625 | Design Thickness (in)  | 0.1017 |
| Standard Coating    | CP60  | Minimum Thickness (in) | 0.0966 |
| Available Coating * | CP90  | Yield Stress Fy (ksi)  | 50     |
| Weight (lb/ft)      | 5.710 | Ultimate, Fu (ksi)     | 65     |

### Section Properties

|                               |                        |
|-------------------------------|------------------------|
| Cross Sectional Area (A)      | 1.677 in <sup>2</sup>  |
| Moment of Inertia (Ix)        | 30.417 in <sup>4</sup> |
| Radius of Gyration (Rx)       | 4.258 in               |
| Gross Moment of Inertia (Iy)  | 0.635 in <sup>4</sup>  |
| Gross Radius of Gyration (Ry) | 0.615 in               |

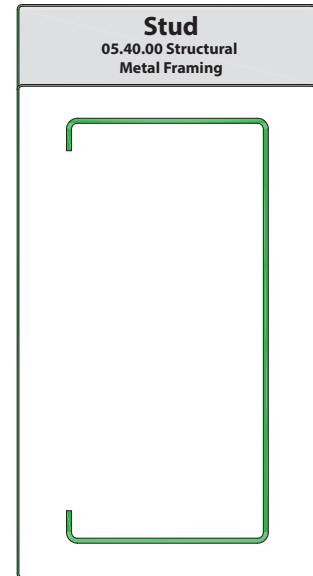
### Effective Section Properties

|  |                        |
|--|------------------------|
| Moment of Inertia for Deflection (Ixe) | 30.175 in <sup>4</sup> |
| Section Modulus (Sxe)                  | 4.660 in <sup>3</sup>  |
| Allowable Bending Moment (Ma)          | 139.510 in-k           |

### Torsional Properties

|   |                        |
|---|------------------------|
| St. Venant Torsion Constant (Jx1000)            | 5.783 in <sup>4</sup>  |
| Warping Constant (Cw)                           | 19.150 in <sup>6</sup> |
| Distance from Shear Center to Neutral Axis (Xo) | -0.987 in              |
| Radii of Gyration (Ro)                          | 4.414 in               |
| Torsional Flexural Constant (Beta)              | 0.950                  |

\*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