Product Category: 6005200-54
Product Name: 6" Stud

Physical Properties
Web Depth (in) 6.00  Gauge 16
Flange Width (in) 2.000  Mils 54
Return Lip (in) 0.500  Design Thickness (in) 0.0566
Standard Coating CP60  Minimum Thickness (in) 0.0538
Available Coating* CP90  Yield Stress Fy (ksi) 50
Weight (lb/ft) 2.090  Ultimate, Fu (ksi) 65

Section Properties
Cross Sectional Area (A) 0.613 in²
Moment of Inertia (Ixx) 3.319 in⁴
Radius of Gyration (Rx) 2.327 in
Gross Moment of Inertia (Iy) 0.328 in⁴
Gross Radius of Gyration (Ry) 0.732 in

Effective Section Properties
Moment of Inertia for Deflection (Ixe) 3.319 in⁴
Section Modulus (Sxx) 1.015 in³
Allowable Bending Moment (Ma) 30.400 in-k

Torsional Properties
St. Venant Torsion Constant (Jx1000) 0.655 in⁴
Warping Constant (Cw) 2.493 in⁶
Distance from Shear Center to Neutral Axis (Xo) -1.432 in
Radii of Gyration (Ro) 2.829 in
Torsional Flexural Constant (Beta) 0.744

*By request

MANUFACTURING Codes & Standards
- NASPEC AISI S10007 IBC 2009 2012 Compliant
- Coated in accordance to ASTM A1003 & A653
- Meets or exceeds ASTM C955
- For installation & storage, refer to ASTM C1007 & C754

GREEN Benefits & Recycled Content:
- 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
- Total Recycled Content: 34.9%
- Post Consumer Content: 24.3%
- Pre Consumer (Post Industrial) Content: 9.4%

For more information, please contact CRACO Technical Services at 803-389-4425 or at smartframe@cracometals.com
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