**Product Submittal Sheet**

**Technical Services:** 888-437-3244  
**Engineering Services:** 877-832-3206  
**Sales:** 800-543-7140  
clarkdietrich.com

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**Product Submittal Sheet**

**Product Category:** S162 (1-5/8" Flange Structural Stud)  
**Product Name:** 600S162-43 (33ksi, CP60) P - Punched  

43mils (18ga)  

Coating: CP60 per ASTM C955  
Color Coding: Yellow

**Geometric Properties**

- **Web Depth:** 6.000 in  
- **Flange Width:** 1.625 in  
- **Punchout Width:** 1.50 in  
- **Stiffening Lip:** 0.500 in  
- **Punchout Length:** 4.00 in  
- **Design Thickness:** 0.0451 in  
- **Min. Steel Thickness:** 0.0428 in  
- **Yield Strength, Fy:** 33 ksi  
- **Ultimate, Fu:** 45.0 ksi

**Gross Section Properties of Full Section, Strong Axis**

- **Cross Sectional Area (A):** 0.447 in²  
- **Member Weight per Foot of Length:** 1.52 lb/ft  
- **Moment of Inertia (Ix):** 2.316 in⁴  
- **Section Modulus (Sx):** 0.772 in³  
- **Radius of Gyration (Rx):** 2.277 in  
- **Gross Moment of Inertia (Iy):** 0.148 in⁴  
- **Gross Radius of Gyration (Ry):** 0.576 in

**Effective Section Properties, Strong Axis**

- **Effective Area (Ae):** 0.256 in²  
- **Moment of Inertia for Deflection (Ix):** 2.316 in⁴  
- **Section Modulus (Sx):** 0.767 in³  
- **Allowable Bending Moment (Ma):** 14.47 in-k  
- **Allowable Shear Force in Web (Solid Section):** 1416 lb  
- **Unbraced Length (Lu):** 39.0 in

**Torsional Properties**

- **St. Venant Torsion Constant (J x 1000):** 0.303 in⁴  
- **Warping Constant (Cw):** 1.095 in⁶  
- **Distance from Shear Center to Neutral Axis (Xo):** -1.062 in  
- **Distance Between Shear Center and Web Centerline (m):** 0.670 in  
- **Radius of Gyration (Ro):** 2.577 in  
- **Torsional Flexural Constant (Beta):** 0.830

**ASTM & Code Standards:**

- **AISI North American Specification [NASPEC] S100-12**  
- **Effective Properties incorporate the strength increase from the cold work of forming**  
- **Gross Properties are based on the cross section away from the punchouts**  
- **Structural Framing is produced to meet or exceed ASTM C955**  
- **Sheet Steel meets or exceeds mechanical and chemical requirements of ASTM A1003**  
- **ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and Intertek CCRR-0206**  
- **For installation & storage information refer to ASTM C1007**  
- **SDS & Product Certification Information is available at iTools.clarkdietrich.com**

**Sustainability Credits:**

For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED  
LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).  
LEED 2009 Credit MR 2 & MR 4 -- ClarkDietrich's steel products are 100% recyclable and have a national average recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at (info@clarkdietrich.com / 888-437-3244)

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### Project Information

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### Contractor Information

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### Architect Information

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