**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  
  Fy with Cold-Work, Fya: 36.3 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): 16.68 in-k
- Allowable moment based on distortion buckling (Mad): 13.06 in-k
- Allowable shear force in web (solid section): 1416 lb
- Allowable shear force in web (perforated section): 1240 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
- Radii 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](http://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**

Name:  
Address:  

**Contractor Information**

Name:  
Contact:  
Phone:  
Fax:  

**Architect Information**

Name:  
Contact:  
Phone:  
Fax:  

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