**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**

**05.40.00 (Cold-Formed Metal Framing)**

**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

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**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

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

- **Cross sectional area (A):** 0.447 in$^2$  
- **Member weight per foot of length:** 1.52 lb/ft  
- **Moment of inertia (Ix):** 2.316 in$^4$  
- **Section modulus (Sx):** 0.772 in$^3$  
- **Radius of gyration (Rx):** 2.277 in  
- **Gross moment of inertia (Iy):** 0.148 in$^4$  
- **Gross radius of gyration (Ry):** 0.576 in

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**Effective Section Properties, Strong Axis**

- **Effective Area (Ae):** 0.256 in$^2$  
- **Moment of inertia for deflection (Ix):** 2.316 in$^4$  
- **Section modulus (Sx):** 0.767 in$^3$  
- **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  
- **Unbraced length (Lu):** 39.0 in

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**Torsional Properties**

- **St. Venant torsion constant (J x 1000):** 0.303 in$^4$  
- **Warping constant (Cw):** 1.095 in$^6$  
- **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

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**ASTM & Code Standards:**

- **AISI North American Specification [NASPEC] S100-16**  
- **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)**

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**Sustainability Credits:**

For more details and LEED letters contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com/LEED](http://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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<th>Contractor Information</th>
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