**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:** 362S162-54 (50ksi, CP60) P - Punched  
54mils (16ga)  
Coating: CP60 per ASTM C955  
Color coding: Green

**Geometric Properties**

- **Web depth:** 3.625 in  
- **Flange width:** 1.625 in  
- **Stiffening lip:** 0.500 in  
- **Design thickness:** 0.0566 in  
- **Yield strength, Fy:** 50 ksi  
- **Ultimate, Fu:** 65.0 ksi

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

- **Cross sectional area (A):** 0.422 in²  
- **Member weight per foot of length:** 1.44 lb/ft  
- **Moment of inertia (Ix):** 0.873 in⁴  
- **Section modulus (Sx):** 0.482 in³  
- **Radius of gyration (Rx):** 1.438 in  
- **Gross moment of inertia (Iy):** 0.154 in⁴  
- **Gross radius of gyration (Ry):** 0.605 in

**Effective Section Properties, Strong Axis**

- **Effective Area (Ae):** 0.296 in²  
- **Moment of inertia for deflection (Ix):** 0.873 in⁴  
- **Section modulus (Sx):** 0.444 in³  
- **Allowable bending moment (Ma):** 13.28 in-k  
- **Allowable shear force in web (solid section):** 3372 lb  
- **Unbraced length (Lu):** 34.4 in

**Torsional Properties**

- **St. Venant torsion constant (J x 1000):** 0.451 in⁴  
- **Warping constant (Cw):** 0.457 in⁶  
- **Distance from shear center to neutral axis (Xo):** -1.283 in  
- **Radii of gyration (Ro):** 2.020 in  
- **Torsional flexural constant (Beta):** 0.597

**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**

**Name:**  
**Address:**

**Contractor Information**

**Name:**  
**Contact:**  
**Phone:**  
**Fax:**

**Architect Information**

**Name:**  
**Contact:**  
**Phone:**  
**Fax:**

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