### Product Submittal Sheet

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

**Product Submittal Sheet**

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

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**Product Category:** S162 (1-5/8" Flange Structural Stud)  
**Product Name:** 1000S162-54 (50ksi, CP60) P - Punched

54mils (16ga)  
Coating: CP60 per ASTM C955  
Color coding: Green

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**Geometric Properties**

- **Web Depth:** 10.000 in  
- **Flange Width:** 1.625 in  
- **Stiffening Lip:** 0.500 in  
- **Design Thickness:** 0.0566 in  
- **Min. Steel Thickness:** 0.0538 in

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

- **Cross Sectional Area (A):** 0.783 in²
- **Member Weight per Foot of Length:** 2.66 lb/ft
- **Moment of Inertia (Ix):** 9.954 in⁴  
- **Section Modulus (Sx):** 1.991 in³  
- **Radius of Gyration (Rx):** 3.566 in

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**Effective Section Properties, Strong Axis**

- **Eff. Area (Ae):** 0.311 in²  
- **Eff. Moment of Inertia for Deflection (Ix):** 9.391 in⁴
- **Eff. Section Modulus (Sx):** 1.572 in³
- **Eff. Allowable Bending Moment (Ma):** 47.07 in-k
- **Eff. Allowable Moment Based on Distortion Buckling (Mad):** 38.94 in-k
- **Eff. Allowable Shear Force in Web (Solid Section):** 1661 lb
- **Eff. Allowable Shear Force in Web (Perforated Section):** 1661 lb
- **Unbraced Length (Lu):** 31.3 in

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**Torsional Properties**

- **St. Venant Torsion Constant (J x 1000):** 0.836 in⁴  
- **Warping Constant (Cw):** 4.198 in⁶
- **Distance from Shear Center to Neutral Axis (Xo):** -0.812 in
- **Distance Between Shear Center and Web Centerline (m):** 0.538 in
- **Radius of Gyration (Ro):** 3.693 in
- **Torsional Flexural Constant (Beta):** 0.952

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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 [ftools.clarkdietrich.com](http://ftools.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**

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

**Contractor Information**

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

**Architect Information**

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

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