**Product Submittal Sheet**

**Technical Services:** 888-437-3244  
**Engineering Services:** 877-832-3206  
**Sales:** 800-543-7140  
[clarkdietrich.com](http://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

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**Geometric Properties**

- **Web depth:** 3.625 in  
- **Flange width:** 1.625 in  
- **Punchout width:** 1.50 in  
- **Stiffening lip:** 0.500 in  
- **Punchout length:** 4.00 in  
- **Design thickness:** 0.0566 in  
- **Min. steel thickness:** 0.0538 in  
- **Yield strength, Fy:** 50 ksi  
- **Ultimate, Fu:** 65.0 ksi

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**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 (Iᵧ):** 0.154 in⁴  
- **Gross radius of gyration (Rᵧ):** 0.605 in

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**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 (Mₓ):** 13.28 in-k  
- **Allowable moment based on distortion buckling (Mₓd):** 12.94 in-k  
- **Allowable shear force in web (solid section):** 3372 lb  
- **Allowable shear force in web (perforated section):** 1016 lb  
- **Unbraced length (Lu):** 34.4 in

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**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  
- **Distance between shear center and web centerline (m):** 0.774 in  
- **Radii of gyration (Ro):** 2.020 in  
- **Torsional flexural constant (Beta):** 0.597

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**ASTM & Code Standards:**

- **AISI North American Specification [NASPEC] S100-16**  
- **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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**Contractor Information**

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**Architect Information**

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