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:** 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
- **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

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

- **Cross sectional area (A):** 0.422 in\(^2\)
- **Member weight per foot of length:** 1.44 lb/ft
- **Moment of inertia (Ix):** 0.873 in\(^4\)
- **Section modulus (Sx):** 0.482 in\(^3\)
- **Radius of gyration (Rx):** 1.438 in
- **Gross moment of inertia (Iy):** 0.154 in\(^4\)
- **Gross radius of gyration (Ry):** 0.605 in

**Effective Section Properties, Strong Axis**

- **Effective Area (Ae):** 0.296 in\(^2\)
- **Moment of inertia for deflection (Ix):** 0.873 in\(^4\)
- **Section modulus (Sx):** 0.444 in\(^3\)
- **Allowable bending moment (Ma):** 13.28 in-k
- **Allowable moment based on distortion buckling (Mad):** 13.60 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

**Torsional Properties**

- **St. Venant torsion constant (J x 1000):** 0.451 in\(^4\)
- **Warping constant (Cw):** 0.457 in\(^6\)
- **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

**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)

### Project Information

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

### Contractor Information

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

### Architect Information

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

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