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

**Product Submittal Sheet**

<table>
<thead>
<tr>
<th>Product category:</th>
<th>S162 (1-5/8&quot; Flange Structural Stud)</th>
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</thead>
<tbody>
<tr>
<td>Product name:</td>
<td>362S162-43 (33ksi, CP60) P - Punched</td>
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<tr>
<td></td>
<td>43mils (18ga)</td>
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<tr>
<td>Coating:</td>
<td>CP60 per ASTM C955</td>
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<tr>
<td>Color coding:</td>
<td>Yellow</td>
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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:** 0.0451 in
- **Min. steel thickness:** 0.0428 in
- **Yield strength, Fy:** 33 ksi
- **Ultimate, Fu:** 45.0 ksi

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

- **Cross sectional area (A):** 0.340 in²
- **Member weight per foot of length:** 1.16 lb/ft
- **Moment of inertia (Ix):** 0.710 in⁴
- **Section modulus (Sx):** 0.392 in³
- **Radius of gyration (Rx):** 1.445 in
- **Gross moment of inertia (Iy):** 0.127 in⁴
- **Gross radius of gyration (Ry):** 0.611 in

**Effective Section Properties, Strong Axis**

- **Effective Area (Ae):** 0.248 in²
- **Moment of inertia for deflection (Ix):** 0.710 in⁴
- **Section modulus (Sx):** 0.372 in³
- **Allowable bending moment (Ma):** 7.34 in-k
- **Allowable moment based on distortion buckling (Mad):** 7.32 in-k
- **Allowable shear force in web (solid section):** 1739 lb
- **Allowable shear force in web (perforated section):** 676 lb
- **Unbraced length (Lu):** 42.5 in

**Torsional Properties**

- **St. Venant torsion constant (J x 1000):** 0.230 in⁴
- **Warping constant (Cw):** 0.376 in⁶
- **Distance from shear center to neutral axis (Xo):** -1.297 in
- **Distance between shear center and web centerline (m):** 0.782 in
- **Radius of gyration (Ro):** 2.036 in
- **Torsional flexural constant (Beta):** 0.594

**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](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](mailto: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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