**Product Submittal Sheet**

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

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**S162 (1-5/8" Flange Structural Stud)**

**Product name:** 362S162-43 (33ksi, CP60) P - Punched  
43mils (18ga)  
Coating: CP60 per ASTM C955  
Color coding: Yellow

**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, \( F_y \):** 33 ksi  
**Ultimate, \( F_u \):** 45.0 ksi

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

**Cross sectional area (A):** 0.340 \( \text{in}^2 \)  
**Member weight per foot of length:** 1.16 lb/ft  
**Moment of inertia (I):** 0.710 \( \text{in}^4 \)  
**Section modulus (S):** 0.392 \( \text{in}^3 \)  
**Radius of gyration (R):** 1.445 in  
**Gross moment of inertia (I):** 0.127 \( \text{in}^4 \)  
**Gross radius of gyration (R):** 0.611 in

**Effective Section Properties, Strong Axis**

**Effective Area (A):** 0.248 \( \text{in}^2 \)  
**Moment of inertia for deflection (I):** 0.710 \( \text{in}^4 \)  
**Section modulus (S):** 0.372 \( \text{in}^3 \)  
**Allowable bending moment (M):** 7.34 in-k  
**Allowable moment based on distortion buckling (M):** 7.32 in-k  
**Allowable shear force in web (solid section):** 1739 lb  
**Allowable shear force in web (perforated section):** 676 lb  
**Unbraced length (L):** 42.5 in

**Torsional Properties**

**St. Venant torsion constant (J x 1000):** 0.230 \( \text{in}^4 \)  
**Warping constant (C):** 0.376 \( \text{in}^6 \)  
**Distance from shear center to neutral axis (X):** -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] S100-16**  
- * 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 [itools.clarkdietrich.com](http://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 / 888-437-3244

**Project Information**

Name:  
Address:

**Contractor Information**

Name:  
Contact:  
Phone:  
Fax:

**Architect Information**

Name:  
Contact:  
Phone:  
Fax:

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