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:** 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 in\(^2\)  
- Member weight per foot of length: 1.16 lb/ft  
- Moment of inertia (Ix): 0.710 in\(^4\)  
- Section modulus (Sx): 0.392 in\(^3\)  
- Radius of gyration (Rx): 1.445 in  
- Gross moment of inertia (Iy): 0.127 in\(^4\)  
- Gross radius of gyration (Ry): 0.611 in

**Effective Section Properties, Strong Axis**  
- Effective Area (Ae): 0.248 in\(^2\)  
- Moment of inertia for deflection (Ix): 0.710 in\(^4\)  
- Section modulus (Sx): 0.372 in\(^3\)  
- Allowable bending moment (Ma): 7.34 in-k  
- Allowable moment based on distortion buckling (Mad): 7.22 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 in\(^4\)  
- Warping constant (Cw): 0.376 in\(^6\)  
- Distance from shear center to neutral axis (Xo): -1.297 in  
- Distance between shear center and web centerline (m): 0.782 in  
- Radii 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  
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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