Product Submittal Sheet

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

05.40.00 (Cold-Formed Metal Framing)

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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
- Fy with Cold-Work, Fya: 50.0 ksi
- Ultimate, Fu: 65.0 ksi

**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 (Iy): 0.154 in⁴
- Gross radius of gyration (Ry): 0.605 in

**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 (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 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

**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 chemical and material 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.clardietrich.com

**Sustainability Credits:**
For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clardietrich.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@clardietrich.com / 888-437-3244

**Project Information**
- Name:
- Address:

**Contractor Information**
- Name:
- Contact:
- Phone:
- Fax:

**Architect Information**
- Name:
- Contact:
- Phone:
- Fax:

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