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

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
Fy with Cold-Work, Fya: 33.0 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
Radii 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

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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