

Product Submittal Sheet

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

Product category: S137 (1-3/8" Flange Structural Stud)
Product name: 250S137-97 (50ksi, CP60) P - Punched

97mils (12ga) Coating: CP60 per ASTM C955

Color coding: Red

Geometric Properties

Web depth 2.500 in Flange width Punchout width 0.75 in 1.375 in Stiffening lip 0.375 in Punchout length 4.00 in Design thickness 0.1017 in Min. steel thickness 0.0966 in Yield strength, Fy 50 ksi Fy with Cold-Work, Fya 60.8 ksi

Ultimate, Fu 65.0 ksi

Gross Section Properties of Full Section, Strong Axis

0.533 in ²
1.81 lb/ft
0.507 in⁴
0.406 in ³
0.975 in
0.121 in⁴
0.476 in

Effective Section Properties, Strong Axis

Effective Area (Ae)	0.457 in ²
Moment of inertia for deflection (Ix)	0.507 in⁴
Section modulus (Sx)	0.406 in ³
Allowable bending moment (Ma)	14.76 in-k
Allowable moment based on distortion buckling (Mad)	14.76 in-k
Allowable shear force in web (solid section)	3798 lb
Allowable shear force in web (perforated section)	429 lb
Unbraced length (Lu)	26.5 in

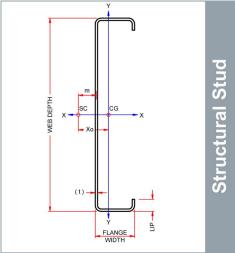
Torsional Properties

St. Venant torsion constant (J x 1000)	1.839 in⁴
Warping constant (Cw)	0.176 in ⁶
Distance from shear center to neutral axis (Xo)	-1.057 in
Distance between shear center and web centerline (m)	0.629 in
Radii of gyration (Ro)	1.515 in
Torsional flexural constant (Beta)	0.513

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

05.40.00 (Cold-Formed Metal Framing)



Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



East market punchout spacing: 12" from lead end then 24" o.c.

West market punchout spacing: 24" from lead end then 24" o.c.

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	Contractor Information	Architect Information
Name:	Name:	Name:
Address:	Contact:	Contact:
	Phone:	Phone:
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