

Product Submittal Sheet

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

Product category: S250 (2-1/2" Flange Structural Stud) **Product name:** 725S250-43 (33ksi, CP60) P - Punched

43mils (18ga) Coating: CP60 per ASTM C955

Color coding: Yellow

Geometric Properties

Web depth 7.250 in Flange width 2.500 in Punchout width 1.50 in 4.00 in Stiffening lip 0.625 in Punchout length Design thickness 0.0451 in Min. steel thickness 0.0428 in Yield strength, Fy Fy with Cold-Work, Fya 35.2 ksi 33 ksi Ultimate, Fu 45.0 ksi

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.593 in ²
Member weight per foot of length	2.02 lb/ft
Moment of inertia (Ix)	4.779 in⁴
Section modulus (Sx)	1.318 in ³
Radius of gyration (Rx)	2.838 in
Gross moment of inertia (ly)	0.486 in⁴
Gross radius of gyration (Ry)	0.904 in

Effective Section Properties, Strong Axis

Effective Area (Ae)	0.300 in ²
Moment of inertia for deflection (Ix)	4.778 in ⁴
Section modulus (Sx)	1.163 in ³
Allowable bending moment (Ma)	24.50 in-k
Allowable moment based on distortion buckling (Mad)	20.70 in-k
Allowable shear force in web (solid section)	1163 lb
Allowable shear force in web (perforated section)	1163 lb
Unbraced length (Lu)	59.9 in

Torsional Properties

St. Venant torsion constant (J x 1000)	0.402 in ⁴
Warping constant (Cw)	5.134 in ⁶
Distance from shear center to neutral axis (Xo)	-1.744 in
Distance between shear center and web centerline (m)	1.074 in
Radii of gyration (Ro)	3.451 in
Torsional flexural constant (Beta)	0.745

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

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

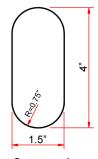
LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (1 point) - Sourcing of Raw Materials (1 point) - Material Ingredients (1 point) - Construction and Demolition Waste Management (up to 2 points) - Innovation Credit (up to 2 points).

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)

05.40.00 (Cold-Formed Metal Framing)

Used in framing applications:

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



Structural Punchout

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

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

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