

Product category: S250 (2-1/2" Flange Structural Stud)
Product name: 1150S250-43 (33ksi, CP60) P - Punched
 43mils (18ga) Coating: CP60 per ASTM C955
 Color coding: Yellow

Geometric Properties

Web depth	11.500 in		
Flange width	2.500 in	Punchout width	1.50 in
Stiffening lip	0.625 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)	0.785 in ²
Member weight per foot of length	2.67 lb/ft
Moment of inertia (Ix)	14.279 in ⁴
Section modulus (Sx)	2.483 in ³
Radius of gyration (Rx)	4.265 in
Gross moment of inertia (Iy)	0.550 in ⁴
Gross radius of gyration (Ry)	0.837 in

Effective Section Properties, Strong Axis

Effective Area (Ae)	0.302 in ²
Moment of inertia for deflection (Ix)	13.394 in ⁴
Section modulus (Sx)	1.766 in ³
Allowable bending moment (Ma)	34.90 in-k
Allowable moment based on distortion buckling (Mad)	31.59 in-k
Allowable shear force in web (solid section)	725 lb
Allowable shear force in web (perforated section)	725 lb
Unbraced length (Lu)	60.0 in

Torsional Properties

St. Venant torsion constant (J x 1000)	0.532 in ⁴
Warping constant (Cw)	14.361 in ⁶
Distance from shear center to neutral axis (Xo)	-1.419 in
Distance between shear center and web centerline (m)	0.913 in
Radii of gyration (Ro)	4.572 in
Torsional flexural constant (Beta)	0.904

Web-depth to thickness ratio exceeds 200. Web Stiffeners are required at all support points and concentrated loads.

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 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)
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at tools.clarkdietrich.com

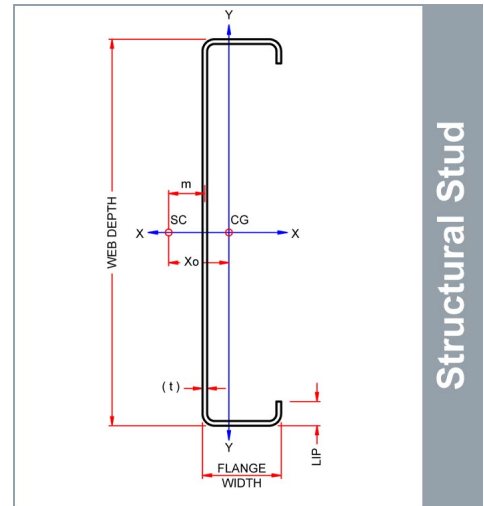
Sustainability Credits:

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)

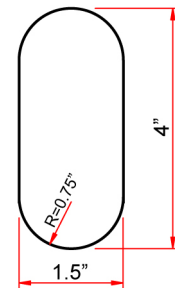
05.40.00 (Cold-Formed Metal Framing)



Structural Stud

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

Name:
Address:

Contractor Information

Name:
Contact:
Phone:
Fax:

Architect Information

Name:
Contact:
Phone:
Fax: