

Technical Services: 888-437-3244, Engineering Services: 877-832-3206, Sales 800-543-7140

05.40.00 (Cold-Formed Metal Framing)

925S200-97-P (50ksi, CP60, Punched)

9-1/4" structural stud with S200 (2") flange - 97mils (12ga)

Coating: CP60 per AISI S240

Color Code: Red

Geometric Properties

Web depth: 9.250 in	Thickness: 97mils (12ga)
Flange width: 2.000 in	Design Thickness: 0.1017 in
Stiffening lip: 0.625 in	Min. steel thickness: 0.0966 in

Yield strength, Fy: 50 ksi *Fy with Cold-Work, Fya: 57.6 ksi Ultimate, Fu: 65.0 ksi

Gross Section Properties of Full Section, Strong Axis		
Cross sectional area (A)	1.398 in ²	
Member weight per foot of length	4.76 lb/ft	
Moment of inertia (lx)	15.968 in ⁴	
Section Modulus (Sx)	3.452 in ³	
Radius of gyration (Rx)	3.380 in	
Gross moment of inertia (ly)	0.599 in ⁴	
Gross radius of gyration (Ry)	0.654 in	
Effective Section Properties, Strong Axis		
Effective Area (Ae)	0.793 in ²	
Moment of inertia for deflection (Ix)	15.963 in ⁴	
Section modulus (Sx)	3.353 in ³	
Allowable bending moment (Ma)	115.67 in-k	
Allowable moment based on distortion buckling (Mad)	92.77 in-k	
Allowable shear force in web (solid section)	10710 lb	
Allowable shear force in web (perforated section)	7061 lb	
Unbraced length (Lu)	36.7 in	
Torsional Properties		
St. Venant torsional constant (J x 1000)	4.819 in ⁴	
Warping constant (Cw)	10.637 in ⁶	
Distance from shear center to neutral axis (Xo)	-1.131 in	
Distance between shear center and web centerline (m)	0.732 in	
Radii of gyration (Ro)	3.624 in	
Torsional flexural constant (Beta)	0.903	

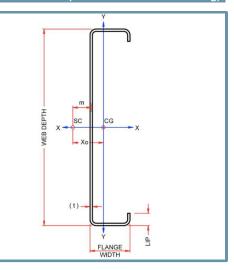
• Effective properties incorporate the strength increase from the cold work of forming.

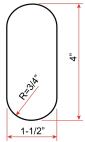
· Gross properties are based on the cross section away from the punchouts.

• Effective properties are based on knockout/punched sections.

Code Approvals & Performance Standards

- AISI S100-16 (2020) w/S2-20 North American Specification for the Design of Cold-Formed Steel Structural Members
- AISI S240-20 North American Standard for Cold-Formed Steel Structural Framing
- (Compliant to ASTM C955 , but IBC replaced with AISI S200 in IBC 2015, AISI S240 in IBC 2018)
- Section A3 Material Chemical & mechanical requirements (Referencing ASTM A1003/A1003M)
- Section A4 Corrosion Protection (Referencing ASTM A653/A653M)
- Section A5 Products Thickness, shapes, tolerances, identification
- Section C Installation (Referencing ASTM C1007)
- AISI S202-20 Code of Standard Practice for Cold-Formed Steel Structural Framing
 Section F3 Delivery, Handling and Storage of Materials
- SDS For ASTM A1003 Steel Framing Products For Interior Framing, Exterior Framing and Clips/Accessories





Structural Punchout

East Coast / Central punch spacing: Center of punchoutss are 12" from lead end, then 24" o.c.

West Coast punch spacing: Center of punchouts are 24" from lead end, then 24" o.c.

Center of tail end punchout not less than 12" from end of stud.

If lateral bracing is required for head-of-wall deflection track and a punchout is not spaced 12" from the top of stud, use strapping and blocking in lieu of CRC or Spazzer Bar lateral bridging.

If custom punchout patterns are required, contact ClarkDietrich Sales or local plant for requests.

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

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