

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

05.40.00 (Cold-Formed Metal Framing)

725S200-54-P (50ksi, CP60, Punched)

7-1/4" structural stud with S200 (2") flange - 54mils (16ga)

Coating: CP60 per AISI S240

Color Code: Green

Geometric Properties

Web depth: 7.250 in Flange width: 2.000 in Stiffening lip: 0.625 in	Thickness: 54mils (16ga) Design Thickness: 0.0566 in Min. steel thickness: 0.0538 in	Yield strength, Fy: 50 ksi *Fy with Cold-Work, Fya: 54.4 ksi Ultimate, Fu: 65.0 ksi
G	ross Section Properties of Full Sec	ction, Strong Axis
Cross sectional area (A)		0.684 in ²
Member weight per foot of length		2.33 lb/ft
Moment of inertia (lx)		5.196 in ⁴
Section Modulus (Sx)		1.433 in ³
Radius of gyration (Rx)		2.757 in
Gross moment of inertia (ly)		0.347 in ⁴
Gross radius of gyration (Ry)		0.713 in
	Effective Section Properties, S	Strong Axis
Effective Area (Ae)		0.334 in ²
Moment of inertia for deflection (lx)		5.195 in ⁴
Section modulus (Sx)		1.296 in ³
Allowable bending moment (Ma)		42.20 in-k
Allowable moment based on distortion buckling (Mad)		32.56 in-k
Allowable shear force in web (solid section)		2316 lb
Allowable shear force in web (perforated section)		2072 lb
Unbraced length (Lu)		39.3 in
	Torsional Propertie	S
St. Venant torsional constant (J x 1000)		0.730 in ⁴
Warping constant (Cw)		3.755 in ⁶
Distance from shear center to neutral axis (Xo)		-1.322 in
Distance between shear center and web centerline (m)		0.831 in
Radii of gyration (Ro)		3.139 in
Torsional flexural constant (Beta)		0.823

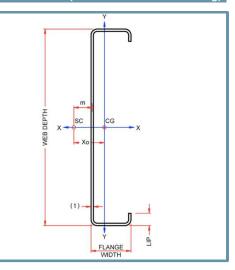
• Effective properties incorporate the strength increase from the cold work of forming.

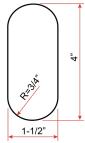
Gross properties are based on the cross section away from the punchouts.

· 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).