

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

05.40.00 (Cold-Formed Metal Framing)

362S162-54-P (50ksi, CP60, Punched)

3-5/8" structural stud with S162 (1-5/8") flange - 54mils (16ga)

Coating: CP60 per AISI S240

Color Code: Green

Geometric Properties

Web depth: 3.625 in Flange width: 1.625 in Stiffening lip: 0.500 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: 50.0 ksi Ultimate, Fu: 65.0 ksi
G	ross Section Properties of Full Sec	tion, Strong Axis
Cross sectional area (A)		0.422 in ²
Member weight per foot of length		1.44 lb/ft
Moment of inertia (Ix)		0.873 in ⁴
Section Modulus (Sx)		0.482 in ³
Radius of gyration (Rx)		1.438 in
Gross moment of inertia (ly)		0.154 in ⁴
Gross radius of gyration (Ry)		0.605 in
	Effective Section Properties, S	Strong Axis
Effective Area (Ae)		0.296 in ²
Moment of inertia for deflection (Ix)		0.873 in ⁴
Section modulus (Sx)		0.444 in ³
Allowable bending moment (Ma)		13.28 in-k
Allowable moment based on distortion buckling (Mad)		12.94 in-k
Allowable shear force in web (solid section)		3372 lb
Allowable shear force in web (perforated section)		1016 lb
Unbraced length (Lu)		34.4 in
	Torsional Propertie	S
St. Venant torsional constant (J x 1000)		0.451 in ⁴
Warping constant (Cw)		0.457 in ⁶
Distance from shear center to neutral axis (Xo)		-1.283 in
Distance between shear center and web centerline (m)		0.774 in
Radii of gyration (Ro)		2.020 in
Torsional flexural constant (Beta)		0.597

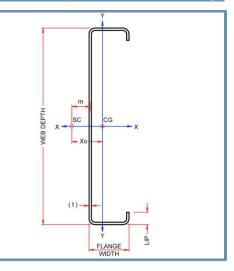
• Effective properties incorporate the strength increase from the cold work of forming.

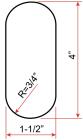
Gross properties are based on the cross section away from the punchouts.

• 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 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
- IBC 2021 International Building Code
- ICC-ES ESR-1166P Structural Studs and Track
- ESR-1166P LABC and LARC Supplement
- ESR-1166P Catalog ClarkDietrich Structural Technical Design Guide (6/22/20)
- Intertek CCRR-0206 Structural Studs and Track
- SFIA Stud Code Compliance Certification Program
- 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).