

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

05.40.00 (Cold-Formed Metal Framing)

600S350-68-P (50ksi, CP60, Punched)

6" structural stud with S350 (3-1/2") flange - 68mils (14ga)

Coating: CP60 per AISI S240

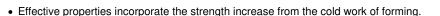
Geometric Properties

Gross Section Properties of Full Section		
Stiffening lip: 1.000 in	Min. steel thickness: 0.0677 in	I
Flange width: 3.500 in	Design Thickness: 0.0713 in	1
Web depth: 6.000 in	Thickness: 68mils (14ga)	•

Yield strength, Fy: 50 ksi *Fy with Cold-Work, Fya: 50.0 ksi Ultimate, Fu: 65.0 ksi

Color Code: Orange

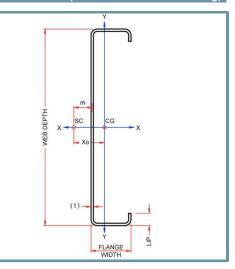
Gross Section Properties of Full Section, Strong Axis				
Cross sectional area (A)	1.032 in ²			
Member weight per foot of length	3.51 lb/ft			
Moment of inertia (Ix)	6.238 in ⁴			
Section Modulus (Sx)	2.079 in ³			
Radius of gyration (Rx)	2.459 in			
Gross moment of inertia (ly)	1.841 in ⁴			
Gross radius of gyration (Ry)	1.336 in			
Effective Section Properties, Strong Axis				
Effective Area (Ae)	0.623 in ²			
Moment of inertia for deflection (lx)	6.167 in ⁴			
Section modulus (Sx)	1.771 in ³			
Allowable bending moment (Ma)	53.02 in-k			
Allowable moment based on distortion buckling (Mad)	48.60 in-k			
Allowable shear force in web (solid section)	5350 lb			
Allowable shear force in web (perforated section)	2879 lb			
Unbraced length (Lu)	74.4 in			
Torsional Properties				
St. Venant torsional constant (J x 1000)	1.748 in ⁴			
Warping constant (Cw)	15.968 in ⁶			
Distance from shear center to neutral axis (Xo)	-3.018 in			
Distance between shear center and web centerline (m)	1.777 in			
Radii of gyration (Ro)	4.116 in			
Torsional flexural constant (Beta)	0.462			

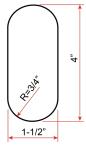


- Gross properties are based on the cross section away from the punchouts.
- Effective properties are based on knockout/punched sections.

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)
- $\circ\,$ 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).