

05.40.00 (Cold-Formed Metal Framing)

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



1350S162-97-P (50ksi, CP60, Punched)

13-1/2" structural stud with S162 (1-5/8") flange - 97mils (12ga)

Coating: CP60 per AISI S240 Color Code: Red

Geometric Properties

Web depth: 13.500 in Thickness: 97mils (12ga) Yield strength, Fy: 50 ksi
Flange width: 1.625 in Design Thickness: 0.1017 in *Fy with Cold-Work, Fya: 50.0 ksi

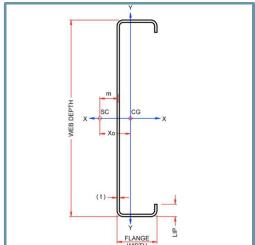
Stiffening lip: 0.500 in Min. steel thickness: 0.0966 in Ultimate, Fu: 65.0 ksi

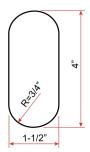
Gross Section Properties of Full Section.	Strong Avis	
direct detailers repetition of the detailers,	Gross Section Properties of Full Section, Strong Axis	
ross sectional area (A)	1.728 in ²	
ember weight per foot of length	5.88 lb/ft	
oment of inertia (lx)	36.526 in ⁴	
ection Modulus (Sx)	5.411 in ³	
adius of gyration (Rx)	4.597 in	
ross moment of inertia (ly)	0.339 in ⁴	
ross radius of gyration (Ry)	0.443 in	
Effective Section Properties, Strong Axis		
fective Area (Ae)	0.702 in ²	
oment of inertia for deflection (lx)	35.613 in ⁴	
ection modulus (Sx)	4.709 in ³	
lowable bending moment (Ma)	140.98 in-k	
lowable moment based on distortion buckling (Mad)	118.66 in-k	
lowable shear force in web (solid section)	7206 lb	
lowable shear force in web (perforated section)	7206 lb	
nbraced length (Lu)	28.9 in	
Torsional Properties		
t. Venant torsional constant (J x 1000)	5.959 in ⁴	
arping constant (Cw)	13.494 in ⁶	
stance from shear center to neutral axis (Xo)	-0.643 in	
stance between shear center and web centerline (m)	0.439 in	
adii of gyration (Ro)	4.663 in	
orsional flexural constant (Beta)	0.981	

- 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
 - o (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)
 - o 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
 - o 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).