

Product category: S162 (1-5/8" Flange Structural Stud)
Product name: 362S162-43 (33ksi, CP60) P - Punched
 43mils (18ga) Coating: CP60 per AISI S240
 Color coding: Yellow

Geometric Properties

Web depth	3.625 in	Punchout width	1.50 in
Flange width	1.625 in	Punchout length	4.00 in
Stiffening lip	0.500 in	Min. steel thickness	0.0428 in
Design thickness	0.0451 in	Fy with Cold-Work, Fya	33.0 ksi
Yield strength, Fy	33 ksi		
Ultimate, Fu	45.0 ksi		

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.340 in ²
Member weight per foot of length	1.16 lb/ft
Moment of inertia (Ix)	0.710 in ⁴
Section modulus (Sx)	0.392 in ³
Radius of gyration (Rx)	1.445 in
Gross moment of inertia (Iy)	0.127 in ⁴
Gross radius of gyration (Ry)	0.611 in

Effective Section Properties, Strong Axis

Effective Area (Ae)	0.248 in ²
Moment of inertia for deflection (Ix)	0.710 in ⁴
Section modulus (Sx)	0.372 in ³
Allowable bending moment (Ma)	7.34 in-k
Allowable moment based on distortion buckling (Mad)	7.32 in-k
Allowable shear force in web (solid section)	1739 lb
Allowable shear force in web (perforated section)	676 lb
Unbraced length (Lu)	42.5 in

Torsional Properties

St. Venant torsion constant (J x 1000)	0.230 in ⁴
Warping constant (Cw)	0.376 in ⁶
Distance from shear center to neutral axis (Xo)	-1.297 in
Distance between shear center and web centerline (m)	0.782 in
Radii of gyration (Ro)	2.036 in
Torsional flexural constant (Beta)	0.594

Code Approvals & Performance Standards

AISI S100-16 - North American Specification for the Design of CFS Structural Members

- Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts

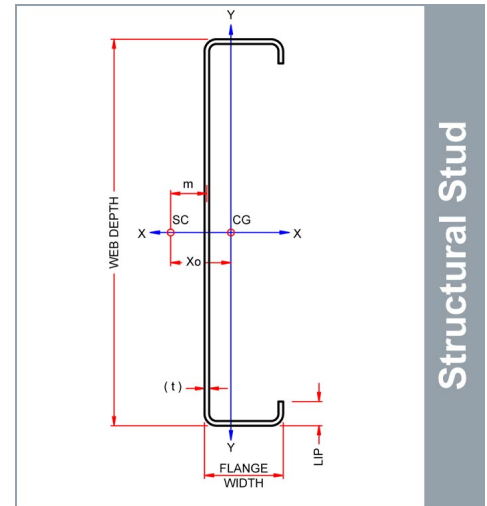
AISI S240-15 - North American Standard for Cold-Formed Steel Structural Framing

- (Compliant to ASTM C955, but IBC replaced with AISI S200 in IBC 2015, AISI S240 in IBC 2017)
- 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)

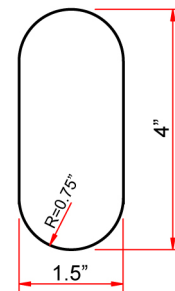
AISI S202-15 - Code of Standard Practice for Cold-Formed Steel Structural Framing

- Section F3 - Delivery, Handling and Storage of Materials

05.40.00 (Cold-Formed Metal Framing)



Structural Stud



Structural Punchout

East Coast / Central punch spacing:

Center of punchouts 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.