

362S162-68 (50KSI, CP60, PUNCHED)

3-5/8" STRUCTURAL STUD WITH S162 (1-5/8") FLANGE - 68MILS (14GA)

COATING: CP60 PER AISI S240

COLOR CODE: **ORANGE**

GEOMETRIC PROPERTIES

WEB DEPTH: 3.625 in THICKNESS: 68mils (14GA)
 FLANGE WIDTH: 1.625 in DESIGN THICKNESS: 0.0713 in
 STIFFENING LIP: 0.500 in MIN. STEEL THICKNESS: 0.0677 in

YIELD STRENGTH, FY: 50KSI
 *FY WITH COLD-WORK, FYA: 50.0 KSI
 ULTIMATE, FU: 65.0 KSI

Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.524 in ²
Member weight per foot of length	1.78 lb/ft
Moment of inertia (I _x)	1.069 in ⁴
Section Modulus (S _x)	0.590 in ³
Radius of gyration (R _x)	1.429 in
Gross moment of inertia (I _y)	0.186 in ⁴
Gross radius of gyration (R _y)	0.596 in

Effective Section Properties, Strong Axis

Effective Area (A _e)	0.403 in ²
Moment of inertia for deflection (I _x)	1.069 in ⁴
Section Modulus (S _x)	0.579 in ³
Allowable bending moment (M _a)	19.16 in-k
Allowable moment based on distortion buckling (M _{ad})	18.24 in-k
Allowable shear force in web (solid section)	4370 lb
Allowable shear force in web (perforated section)	1004 lb
Unbraced length (L _u)	34.4 in

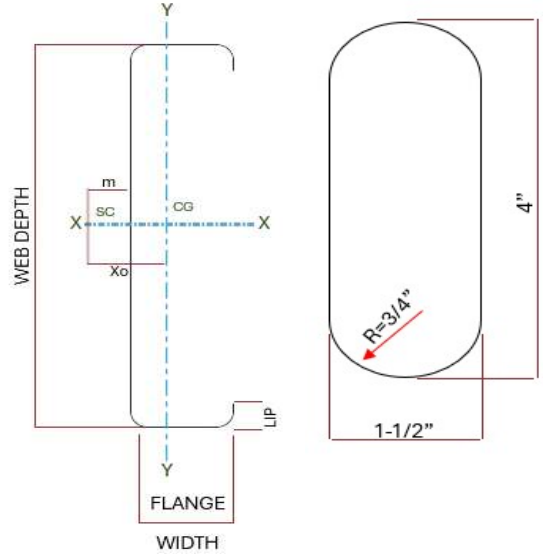
Torsional Properties

St. Venant torsional constant (J x 1000)	0.887 in ⁴
Warping constant (C _w)	0.552 in ⁶
Distance from shear center to neutral axis (X _o)	-1.264 in
Distance between shear center and web centerline (m)	0.765 in
Radii of gyration (R _o)	1.999 in
Torsional flexural constant (β)	0.600

- *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
- *IBC 2024 Internal Building Code
- *ICC-ES ESR-1166P Structural Studs and Track
- *Intertek CCRR-0206 Structural Studs and Track
- *SFIA Stud Code Compliance Certificate 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 punchouts are 12" from lead end, the 24" o.c.
- East Coast / Central punch spacing:**
Center of punchouts are 12" from lead end, the 24" o.c.
Center of tail end punchout not less than 12" from end of stud.