

Product category: S162 (1-5/8" Flange Structural Stud)
Product name: 362S162-97 (50ksi, CP60) P - Punched
 97mils (12ga) Coating: CP60 per ASTM C955
 Color coding: Red

Geometric Properties

Web depth	3.625 in		
Flange width	1.625 in	Punchout width	1.50 in
Stiffening lip	0.500 in	Punchout length	4.00 in
Design thickness	0.1017 in	Min. steel thickness	0.0966 in
Yield strength, Fy	50 ksi	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)	0.724 in ²
Member weight per foot of length	2.46 lb/ft
Moment of inertia (Ix)	1.436 in ⁴
Section modulus (Sx)	0.792 in ³
Radius of gyration (Rx)	1.408 in
Gross moment of inertia (Iy)	0.241 in ⁴
Gross radius of gyration (Ry)	0.577 in

Effective Section Properties, Strong Axis

Effective Area (Ae)	0.571 in ²
Moment of inertia for deflection (Ix)	1.436 in ⁴
Section modulus (Sx)	0.776 in ³
Allowable bending moment (Ma)	27.54 in-k
Allowable moment based on distortion buckling (Mad)	23.71 in-k
Allowable shear force in web (solid section)	5943 lb
Allowable shear force in web (perforated section)	875 lb
Unbraced length (Lu)	34.5 in

Torsional Properties

St. Venant torsion constant (J x 1000)	2.496 in ⁴
Warping constant (Cw)	0.723 in ⁶
Distance from shear center to neutral axis (Xo)	-1.226 in
Distance between shear center and web centerline (m)	0.745 in
Radii of gyration (Ro)	1.954 in
Torsional flexural constant (Beta)	0.606

ASTM & Code Standards:

- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- * Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955
- Sheet steel meets or exceeds mechanical and chemical requirements of ASTM A1003
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program, ICC-ES ESR-1166P and ATI CCRR-0206
- For installation & storage information refer to ASTM C1007
- SDS & Product Certification Information is available at www.clarkdietrich.com

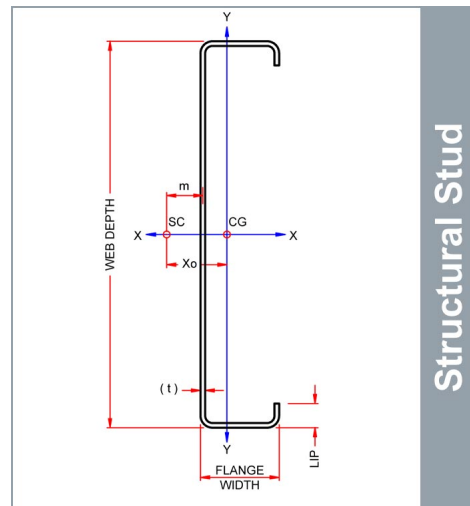
Sustainability Credits:

For more details and LEED letters contact Technical Services at 888-437-3244 or visit www.clarkdietrich.com/LEED

LEED v4 MR Credit -- Building Product Disclosure and Optimization: EPD (up to 2 points) - 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).

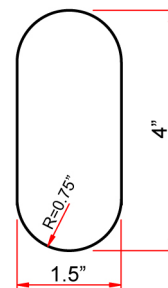
LEED 2009 Credit MR 2 & MR 4 -- ClarkDietrich's steel products are 100% recyclable and have a minimum recycled content of 34.2% (19.8% post-consumer and 14.4% pre-consumer). If seeking a higher number to meet Credit MR 5, please contact us at (info@clarkdietrich.com / 888-437-3244)

05.40.00 (Cold-Formed Metal Framing)



Used in framing applications:

- Load-bearing walls
- Curtain walls
- Tall interior walls
- Floor & ceiling joists
- Trusses



Structural Punchout

East market punchout spacing:
12" from lead end then 24" o.c.

West market punchout spacing:
24" from lead end then 24" o.c.

Project Information

Name:
Address:

Contractor Information

Name:
Contact:
Phone:
Fax:

Architect Information

Name:
Contact:
Phone:
Fax: