

**Product category:** S162 (1-5/8" Flange Structural Stud)  
**Product name:** **600S162-54 (50ksi, CP60) - Punched**  
54mils (16ga) Finish: CP60 per ASTM C955  
Color coding: Green

### Geometric Properties

Web depth	6.000 in		
Flange width	1.625 in	Punchout width	1.50 in
Stiffening lip	0.500 in	Punchout length	4.00 in
Design thickness	0.0566 in	Min. steel thickness	0.0538 in
Yield strength, Fy	50 ksi	Fy with Cold-Work, Fya	55.3 ksi
Ultimate, Fu	65.0 ksi		

### Gross Section Properties of Full Section, Strong Axis

Cross sectional area (A)	0.556 in <sup>2</sup>
Member weight per foot of length	1.89 lb/ft
Moment of inertia (Ix)	2.861 in <sup>4</sup>
Section modulus (Sx)	0.954 in <sup>3</sup>
Radius of gyration (Rx)	2.268 in
Gross moment of inertia (Iy)	0.180 in <sup>4</sup>
Gross radius of gyration (Ry)	0.570 in

### Effective Section Properties, Strong Axis

Effective Area (Ae)	0.307 in <sup>2</sup>
Moment of inertia for deflection (Ix)	2.860 in <sup>4</sup>
Section modulus (Sx)	0.916 in <sup>3</sup>
Allowable bending moment (Ma)	30.33 in-k
Allowable moment based on distortion buckling (Mad)	25.91 in-k
Allowable shear force in web (solid section)	2823 lb
Allowable shear force in web (perforated section)	1947 lb
Unbraced length (Lu)	31.4 in

### Torsional Properties

St. Venant torsion constant (J x 1000)	0.594 in <sup>4</sup>
Warping constant (Cw)	1.337 in <sup>6</sup>
Distance from shear center to neutral axis (Xo)	-1.049 in
Distance between shear center and web centerline (m)	0.663 in
Radii of gyration (Ro)	2.563 in
Torsional flexural constant (Beta)	0.833

### ASTM & Code Standards:

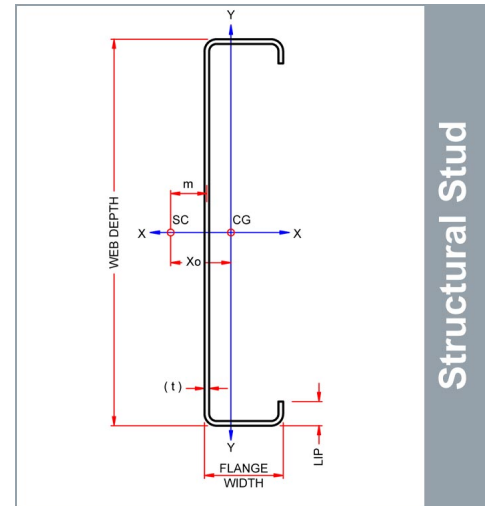
- AISI North American Specification [NASPEC] S100-07 with 2010 supplement
- \* Effective properties incorporate the strength increase from the cold work of forming
- Gross properties are based on the cross section away from the punchouts
- Structural framing is produced to meet or exceed ASTM C955, A653 and A1003
- Galvanized sheet steel meets or exceeds requirements of ASTM A924
- ClarkDietrich's structural and nonstructural framing comply with the SFIA Code Compliance Certification Program and ICC-ES ESR-1166P
- For installation & storage information refer to ASTM C1007
- MSDS & Product Certification Information is available at [www.clarkdietrich.com](http://www.clarkdietrich.com)

### GREEN Benefits and Recycled Content:

**LEED Credit MR 2** - ClarkDietrich products are manufactured from cold-formed steel. Steel is 100% recyclable, which helps divert debris from the waste stream. The contribution to LEED must be calculated by the contractor based on weight or volume.

**LEED Credit MR 4** - ClarkDietrich's steel products have a minimum recycled content of 34.9%, of which 24.3% is post-consumer, and 9.4% is pre-consumer. To report a higher number for your project or seek Credit MR 5, contact Technical Services at 888-437-3244 or visit [www.clarkdietrich.com](http://www.clarkdietrich.com).

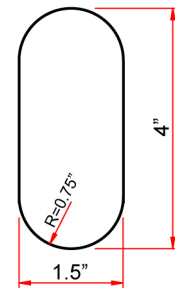
### 05.40.00 (Cold-Formed Metal Framing)



Structural Stud

### 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: cavobuilderssupplies.com  
Address:

#### Contractor Information

Name:  
Contact:  
Phone:  
Fax:

#### Architect Information

Name:  
Contact:  
Phone:  
Fax: