

Structural Stud 600S162-54G90

Product Description

16 GA GALV 6.00" WEB x 1.62"
FLANGE C-STUD .054 MIN GAUGE
G90
G90

Coating

Physical Properties

| | |
|------------------------|---------|
| Design Thickness (in) | 0.0566 |
| Minimum Thickness (in) | 0.0538 |
| Web Width (in) | 6.0000 |
| Flange Width (in) | 1.6250 |
| Stiffening Lip (in) | 0.5000 |
| Yield Strength (ksi) | 50.0000 |



Gross Section Properties

| | |
|-------------------------------|-------|
| Cross Sectional Area (A) | 0.556 |
| Weight of Member (lb/ft) | 1.89 |
| Section Modulus (Sx) | 0.954 |
| Moment of Inertia (Ix) | 2.861 |
| Radius of Gyration (Rx) | 2.268 |
| Gross Moment of Inertia (Iy) | 0.180 |
| Gross Radium of Gyration (Ry) | 0.570 |

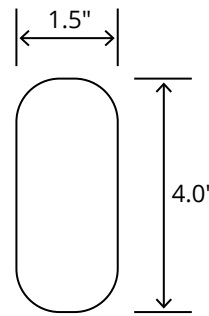
Effective Section Properties

| | |
|--|-------|
| Moment of Inertia for deflection (Ixe) | 2.860 |
| Section Modulus (Sxe) | 0.916 |
| Allowable Bending moment (Ma) | 30.33 |
| Allowable shear force in web (U)(Vag) | 2823 |
| Allowable shear at punch (Vanet) | 1947 |

Torsional Properties

| | |
|---|--------|
| St. Venant torsion constant (J x 1000) | 0.594 |
| Warping constant (Cw) | 1.337 |
| Distance from shear center to neutral axis (Xo) | -1.049 |
| Radii of gyration (Ro) | 2.563 |
| Torsional flexural constant (Beta) | 0.833 |

Punch Out



ASTM & Code Standards

- AISI S100-12 & ICC ES ESR-4062
- Framing meets ASTM A1003, A653 & C955

Notes

1. Calculated properties are based on AISI S100-16, North American Specification for Design of Cold-Formed Steel Structural Members.
2. The centerline bend radius is based on inside corner radii shown in thickness chart.
3. Effective properties incorporate the strength increase from the cold work of forming as applicable per AISI A3.3.2.
4. Tabulated gross properties are based on full-unreduced cross section of the studs, away from punch outs.
5. For deflection calculations, use the effective moment of inertia.
6. Allowable moment includes cold-work of forming.

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- Materials Ingredients (1 point) – Construction and Demolition Waste Management (1 point)

