

www.millsteelframing.com | 2905 Lucerne Dr. SE Grand Rapids, MI 49546 | (812) 670-4195

# Structural Stud 800S137-54

Product Description 16 GA GALV 8.00" WEB x 1.37"

FLANGE C-STUD .054 MIN

**GAUGE** 

Coating G60

**Physical Properties** 

Design Thickness (in)0.0566Minimum Thickness (in)0.0538Web Width (in)8.0000Flange Width (in)1.3750Stiffening Lip (in)0.3750Yield Strength (ksi)50.0000

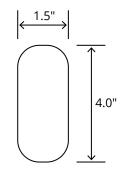


Gross Section Properties	
Cross Sectional Area (A)	0.627
Weight of Member (lb/ft)	2.13
Section Modulus (Sx)	1.278
Moment of Inertia (lx)	5.111
Radius of Gyration (Rx)	2.855
Gross Moment of Inertia (ly)	0.112
Gross Radium of Gyration (Ry)	0.423

Effective Section Properties	
Moment of Inertia for deflection (lxe)	4.974
Section Modulus (Sxe)	1.083
Allowable Bending moment (Ma)	32.43
Allowable shear force in web (U)(Vag)	2091
Allowable shear at punch (Vanet)	2091

Torsional Properties	
St. Venant torsion constant (J x 1000)	0.670
Warping constant (Cw)	1.478
Distance from shear center to neutral axis (Xo)	-0.676
Radii of gyration (Ro)	2.964
Torsional flexural constant (Beta)	0.948

### **Punch Out**



# ASTM & Code Standards

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

#### **Notes**

- 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 fullunreduced 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.

## Mill Steel Framing LEED Green Credits

MR Credit 2 MR Credit 4

- ConstructionWaste Management Mill Steel Framing steel framing is 100% recyclable
- Recycled Content Mill Steel Framing products contain no less than 25.5% post-consumer and 6.8% pre-consumer recycled content

MR Credit 5

• Regional Materials - Mill Steel Framing has manufacturing facilities in Indiana, Alabama & Texas

V4 MR Credits • Building Product Disclosure and Optimization EPD (1 point)

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

