

Structural Stud (s)



MATERIAL

Web (in)	3 $\frac{5}{8}$
Flange (in)	1 $\frac{3}{8}$
Lip (in)	0.375
Yield Strength Fy (KSI)	50
Tensile Strength Fu (KSI)	65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	1.60
Cross Sectional Area: A (in ²)	0.470
Moment of Inertia: Ix (in ⁴)	0.923
Section Modulus: Sx (in ³)	0.509
Radius of Gyration: Rx (in)	1.401
Moment of Inertia: Iy (in ⁴)	0.109
Radius of Gyration: Ry (in)	0.481

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	0.923
Section Modulus: Sxe (in ³)	0.498
Local Buckling Allowable Moment: Mal (in-k)	17.23
Distortional Buckling Allowable Moment: Mad (in-k)	16.15
Allowable strong axis shear away from punch: Vag (lb)	4370
Allowable strong axis shear at punch: Vanet (lb)	1004
(check web crippling)	

TORSIONAL SECTION PROPERTIES

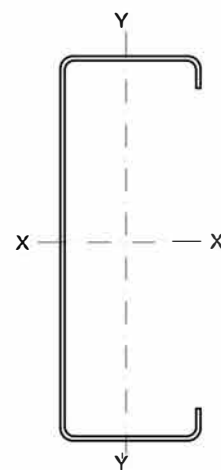
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.797
Torsional Warping Constant: Cw (in ⁶)	0.302
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.959
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.765

PRODUCT ID

362S 137-68(3 $\frac{5}{8}$ x1 $\frac{3}{8}$ x14ga) (Grade 50)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S100-16



See Hermes/Hephaistos Technical Manual
for complete design data