

Structural Stud (s)



MATERIAL

Web (in)	3 ⁵ / ₈
Flange (in)	1 ³ / ₈
Lip (in)	0.375
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0451
Minimum Thickness (mil)	43
Gauge	18
Available Finish G60, G90	

GROSS SECTION PROPERTIES

Weight of Member: (lb/ft)	1.04
Cross Sectional Area: A (in ²)	0.306
Moment of Inertia: Ix (in ⁴)	0.616
Section Modulus: Sx (in ³)	0.340
Radius of Gyration: Rx (in)	1.419
Moment of Inertia: Iy (in ⁴)	0.075
Radius of Gyration: Ry (in)	0.497

EFFECTIVE SECTION PROPERTIES

Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	0.616	0.575
Section Modulus: Sxe (in ³)	0.328	0.302
Local Buckling Allowable Moment: Mal (in-k)	6.48	9.03
Distortional Buckling Allowable Moment: Mad (in-k)	6.20	8.37
Allowable strong axis shear away from punch: Vag (lb)	1740	1905
Allowable strong axis shear at punch: Vanet (lb)	676	832

(check web crippling)

TORSIONAL SECTION PROPERTIES

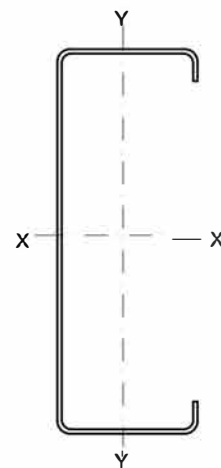
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.207
Torsional Warping Constant: Cw (in ⁶)	0.208
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.991
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.801

PRODUCT ID

362S 137-43(3⁵/₈x1³/₈x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data