

Structural Stud (s)



MATERIAL

Web (in)	3 $\frac{5}{8}$
Flange (in)	2
Lip (in)	0.625
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)	2.02
Cross Sectional Area: A (in ²)	0.595
Moment of Inertia: Ix (in ⁴)	1.266
Section Modulus: Sx (in ³)	0.698
Radius of Gyration: Rx (in)	1.458
Moment of Inertia: Iy (in ⁴)	0.377
Radius of Gyration: Ry (in)	0.753

EFFECTIVE SECTION PROPERTIES

Moment of Inertia-Deflection: Ixe (in ⁴)	1.266
Section Modulus: Sxe (in ³)	0.674
Local Buckling Allowable Moment: Mal (in-k)	20.18
Distortional Buckling Allowable Moment: Mad (in-k)	19.67
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

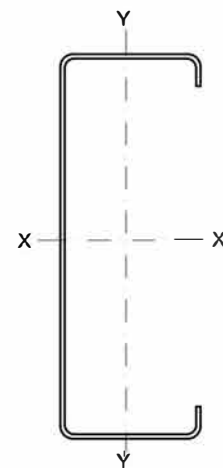
St. Venant Torsional Constant: Jx1000 (in ⁴)	1.008
Torsional Warping Constant: Cw (in ⁶)	1.089
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.696
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.360

PRODUCT ID

362S 200-68 (3 $\frac{5}{8}$ x2x14ga) (Grade 50)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data