

Structural Stud (s)



MATERIAL	
Web (in)	3 $\frac{5}{8}$
Flange (in)	2
Lip (in)	0.625
Yield Strength Fy (KSI)	33, 50
Tensile Strength Fu (KSI)	45, 65
Design Thickness (in)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.63
Cross Sectional Area: A (in ²)	0.479
Moment of Inertia: Ix (in ⁴)	1.030
Section Modulus: Sx (in ³)	0.568
Radius of Gyration: Rx (in)	1.467
Moment of Inertia: Iy (in ⁴)	0.277
Radius of Gyration: Ry (in)	0.761

EFFECTIVE SECTION PROPERTIES		
Yield Stress (ksi)	33	50
Moment of Inertia-Deflection: Ixe (in ⁴)	1.030	1030
Section Modulus: Sxe (in ³)	0.560	0.502
Local Buckling Allowable Moment: Mal (in-k)	12.16	15.03
Distortional Buckling Allowable Moment: Mad (in-k)	11.87	14.84
Allowable strong axis shear away from punch: Vag (lb)	2341	3372
Allowable strong axis shear at punch: Vanet (lb)	705	1016

check web crippling)

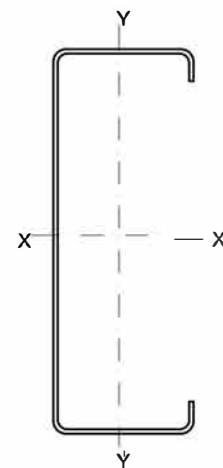
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.511
Torsional Warping Constant: Cw (in ⁶)	0.896
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.715
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.382

PRODUCT ID

362S 200-54 (3 $\frac{5}{8}$ x2x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data