

Non-Structural Stud (s)



MATERIAL	
Web (in)	3 $\frac{5}{8}$
Flange (in)	1 $\frac{1}{4}$
Lip (in)	0.188
Yield Strength Fy (KSI)	50
Tensile Strength Fu (KSI)	65
Design Thickness (in)	0.0158
Minimum Thickness (mil)	15
Gauge	25Eq
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.337
Cross Sectional Area: A (in ²)	0.099
Moment of Inertia: Ix (in ⁴)	0.197
Section Modulus: Sx (in ³)	0.109
Radius of Gyration: Rx (in)	1.411
Moment of Inertia: Iy (in ⁴)	0.018
Radius of Gyration: Ry (in)	0.423

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.133
Section Modulus: Sxe (in ³)	0.058
Allowable Moment: Mal (in-k)	1.45
Allowable strong axis shear away from punch: Vag (lb)	82
Allowable strong axis shear at punch: Va net (lb)	82
(check web crippling)	

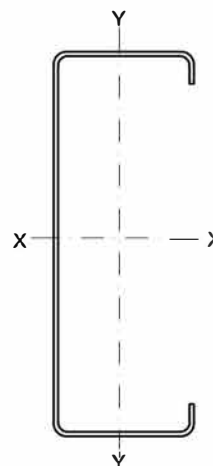
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.0083
Torsional Warping Constant: Cw (in ⁶)	0.042
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.783
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.668

PRODUCT ID

362S 125-15 (3 $\frac{5}{8}$ x1 $\frac{1}{4}$ x25gaEq)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S 100-16



See Hermes/Hephaistos Technical Manual
for complete design data