

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)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0188
Minimum Thickness (mil)	18
Gauge	25
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.40
Cross Sectional Area: A (in ²)	0.118
Moment of Inertia: Ix (in ⁴)	0.234
Section Modulus: Sx (in ³)	0.129
Radius of Gyration: Rx (in)	1.409
Moment of Inertia: Iy (in ⁴)	0.021
Radius of Gyration: Ry (in)	0.421

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.173
Section Modulus: Sxe (in ³)	0.078
Local Buckling Allowable Moment: Mal (in-k)	1.54
Distortional Buckling Allowable Moment: Mad (in-k)	1.39
Allowable strong axis shear away from punch: Vag (lb)	173
Allowable strong axis shear at punch: Vanet (lb)	163

(check web crippling)

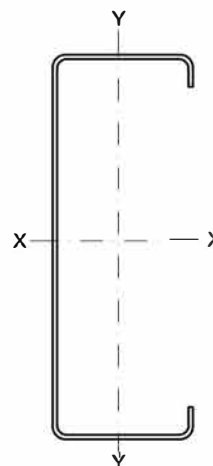
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.014
Torsional Warping Constant: Cw (in ⁶)	0.054
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.78
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.667

PRODUCT ID

362S 125-18 (3 $\frac{5}{8}$ x1 $\frac{1}{4}$ x25ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data