

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)	0.0451
Minimum Thickness (mil)	43
Gauge	18
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.95
Cross Sectional Area: A (in ²)	0.278
Moment of Inertia: Ix (in ⁴)	0.541
Section Modulus: Sx (in ³)	0.298
Radius of Gyration: Rx (in)	1.395
Moment of Inertia: Iy (in ⁴)	0.046
Radius of Gyration: Ry (in)	0.408

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in ⁴)	0.516
Section Modulus: Sxe (in ³)	0.278
Local Buckling Allowable Moment: Mal (in-k)	5.48
Distortional Buckling Allowable Moment: Mad (in-k)	4.71
Allowable strong axis shear away from punch: Vag (lb)	1740
Allowable strong axis shear at punch: Vanet (lb)	676

(check web crippling)

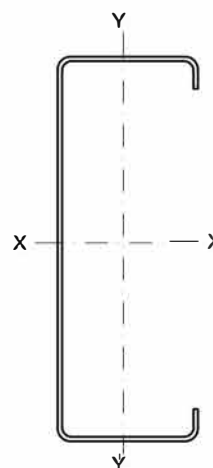
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in ⁴)	0.188
Torsional Warping Constant: Cw (in ⁶)	0118
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.750
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.640

PRODUCT ID

362S 125-43 (3 $\frac{5}{8}$ x1 $\frac{1}{4}$ x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data