

Non-Structural Stud (s)



MATERIAL	
Web (in)	3½
Flange (in)	1¼
Lip (in)	0.188
Yield Strength Fy (KSI)	70
Tensile Strength Fu (KSI)	80
Design Thickness (in)	0.0188
Minimum Thickness (mil)	18
Gauge	20Eq
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.392
Cross Sectional Area: A (in²)	0.115
Moment of Inertia: Ix (in⁴)	0.215
Section Modulus: Sx (in³)	0.123
Radius of Gyration: Rx (in)	1.366
Moment of Inertia: Iy (in⁴)	0.021
Radius of Gyration: Ry (in)	0.423

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.144
Section Modulus: Sxe (in³)	0.065
Allowable Moment: Mal (in-k)	2.73
Allowable strong axis shear away from punch: Vag (lb)	180
Allowable strong axis shear at punch: Va net (lb)	180
(check web crippling)	

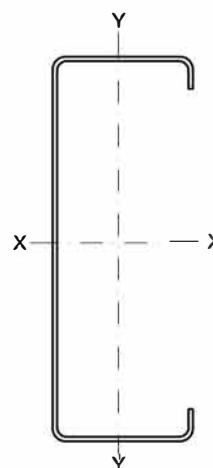
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.0136
Torsional Warping Constant: Cw (in⁶)	0.050
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.791
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.634

PRODUCT ID

350S 125-18 (3½x1¼x20gaEq)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data