

Non-Structural Stud (s)



MATERIAL	
Web (in)	3½
Flange (in)	1¼
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)	0.331
Cross Sectional Area: A (in²)	0.097
Moment of Inertia: Ix (in⁴)	0.182
Section Modulus: Sx (in³)	0.104
Radius of Gyration: Rx (in)	1.368
Moment of Inertia: Iy (in⁴)	0.018
Radius of Gyration: Ry (in)	0.425

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.124
Section Modulus: Sxe(in³)	0.056
Allowable Moment: Mal(in-k)	1.40
Allowable strong axis shear away from punch: Vag (lb)	85
Allowable strong axis shear at punch: Va net (lb) (check web crippling)	85

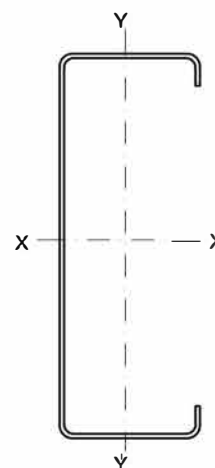
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.008
Torsional Warping Constant: Cw (in⁶)	0.039
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.795
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.638

PRODUCT ID

350S 125-15 (3½x1¼x25gaEq)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data