

Non-Structural Stud (s)



MATERIAL	
Web (in)	5½
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)	0.438
Cross Sectional Area: A (in²)	0.129
Moment of Inertia: Ix (in⁴)	0.531
Section Modulus: Sx (in³)	0.193
Radius of Gyration: Rx (in)	2.031
Moment of Inertia: Iy (in⁴)	0.020
Radius of Gyration: Ry (in)	0.392

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.323
Section Modulus: Sxe (in³)	0.088
Allowable Moment: Mal (in-k)	2.20
Allowable strong axis shear away from punch: Vag (lb)	53
Allowable strong axis shear at punch: Va net (lb)	53
(check web crippling)	

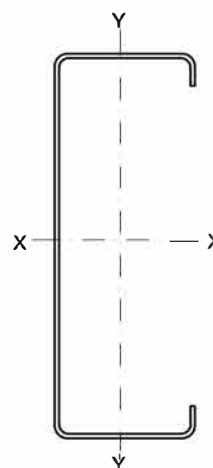
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.0107
Torsional Warping Constant: Cw (in⁶)	0.111
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.646
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.167

PRODUCT ID

550S 125-15 (5½x1¼x25gaEq)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data