

Non-Structural Stud (s)



MATERIAL	
Web (in)	1½
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)	0.230
Cross Sectional Area: A (in²)	0.068
Moment of Inertia: Ix (in⁴)	0.032
Section Modulus: Sx (in³)	0.039
Radius of Gyration: Rx (in)	0.688
Moment of Inertia: Iy (in⁴)	0.014
Radius of Gyration: Ry (in)	0.449

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.024
Section Modulus: Sxe (in³)	0.025
Allowable Moment: Mal (in-k)	0.62
Allowable strong axis shear away from punch: Vag (lb)	246
Allowable strong axis shear at punch: Vanet (lb)	97
(check web crippling)	

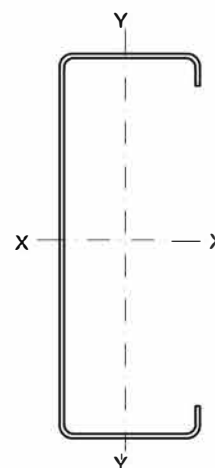
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.006
Torsional Warping Constant: Cw (in⁶)	0.007
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.029
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.316

PRODUCT ID

162 S 125-15 (1½x1¼x25gaEq)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data