Non-Structural Stud (S)

MATERIAL	
Web (in)	1⅝
Flange (in)	1¼
Lip (in)	0.188
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0188
Minimum Thickness (mil)	18
Gauge	25
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.27
Cross Sectional Area: A (in^2)	0.080
Moment of Inertia: Ix (in^4)	0.038
Section Modulus: Sx (in^3)	0.046
Radius of Gyration: Rx (in)	0.686
Moment of Inertia: Iy (in^4)	0.016
Radius of Gyration: Ry (in)	0.447

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	0.030
Section Modulus: Sxe (in^3)	0.031
Local Buckling Allowable Moment:Mal (in-k)	0.62
Distortional Buckling Allowable Moment: Mad (in-k)	0.58
Allowable strong axis shear away from punch: Vag (lb)	302
Allowable strong axis shear at punch: Vanet (lb)	100

(check web crippling)

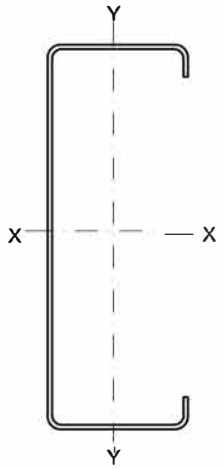
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.009
Torsional Warping Constant: Cw (in^6)	0.009
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.029
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.315

PRODUCT ID

162 S 125-18(1⅝x1¼x25ga)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S100-16



See Hermes/Hephaistos Technical Manual for complete design data

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