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)	0.0283
Minimum Thickness (mil)	27
Gauge	22
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.41
Cross Sectional Area: A (in^2)	0.120
Moment of Inertia: Ix (in^4)	0.056
Section Modulus: Sx (in^3)	0.069
Radius of Gyration: Rx (in)	0.682
Moment of Inertia: Iy (in^4)	0.023
Radius of Gyration: Ry (in)	0.443

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	0.048
Section Modulus: Sxe (in^3)	0.053
Local Buckling Allowable Moment:Mal (in-k)	1.05
Distortional Buckling Allowable Moment: Mad (in-k)	0.99
Allowable strong axis shear away from punch: Vag (lb)	494
Allowable strong axis shear at punch: Vanet (lb)	106

(check web crippling)

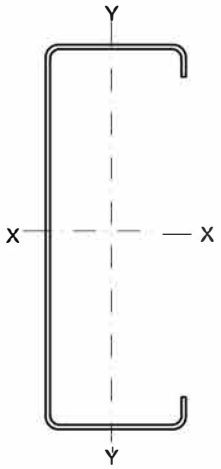
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.032
Torsional Warping Constant: Cw (in^6)	0.013
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.018
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.303

PRODUCT ID

162 S 125-27(1⅝x1¼x22ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual for complete design data

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