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)	0.0312
Minimum Thickness (mil)	30
Gauge	20D
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.45
Cross Sectional Area: A (in^2)	0.132
Moment of Inertia: Ix (in^4)	0.061
Section Modulus: Sx (in^3)	0.075
Radius of Gyration: Rx (in)	0.681
Moment of Inertia: Iy (in^4)	0.026
Radius of Gyration: Ry (in)	0.441

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	0.054
Section Modulus: Sxe (in^3)	0.061
Local Buckling Allowable Moment:Mal (in-k)	1.20
Distortional Buckling Allowable Moment: Mad (in-k)	1.13
Allowable strong axis shear away from punch: Vag (lb)	543
Allowable strong axis shear at punch: Vanet (lb)	106

(check web crippling)

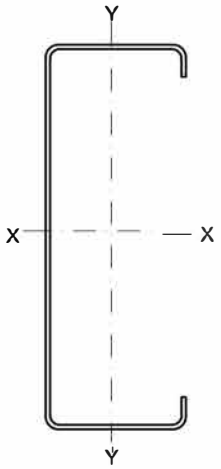
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.043
Torsional Warping Constant: Cw (in^6)	0.014
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.014
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.299

PRODUCT ID

162 S 125-30(1⅝x1¼x20Dga)

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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