Non-Structural Stud (S)

MATERIAL	
Web (in)	3⅝
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)	0.60
Cross Sectional Area: A (in^2)	0.176
Moment of Inertia: Ix (in^4)	0.347
Section Modulus: Sx (in^3)	0.192
Radius of Gyration: Rx (in)	1.404
Moment of Inertia: Iy (in^4)	0.031
Radius of Gyration: Ry (in)	0.416

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	0.290
Section Modulus: Sxe (in^3)	0.141
Local Buckling Allowable Moment:Mal (in-k)	2.78
Distortional Buckling Allowable Moment: Mad (in-k)	2.47
Allowable strong axis shear away from punch: Vag (lb)	592
Allowable strong axis shear at punch: Vanet (lb)	370

(check web crippling)

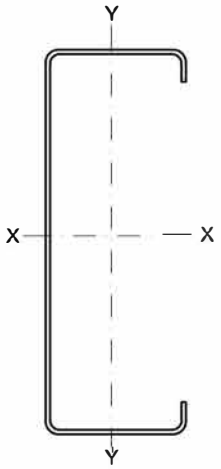
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.047
Torsional Warping Constant: Cw (in^6)	0.079
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.776
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.657

PRODUCT ID

362S 125-27 (3⅝x1¼x22ga)

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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