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)	0.0566
Minimum Thickness (mil)	54
Gauge	16
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.17
Cross Sectional Area: A (in^2)	0.344
Moment of Inertia: Ix (in^4)	0.661
Section Modulus: Sx (in^3)	0.365
Radius of Gyration: Rx (in)	1.386
Moment of Inertia: Iy (in^4)	0.055
Radius of Gyration: Ry (in)	0.401

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	0.639
Section Modulus: Sxe (in^3)	0.349
Local Buckling Allowable Moment:Mal (in-k)	6.91
Distortional Buckling Allowable Moment: Mad (in-k)	6.36
Allowable strong axis shear away from punch: Vag (lb)	2341
Allowable strong axis shear at punch: Vanet (lb)	705

(check web crippling)

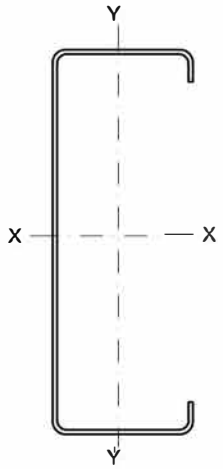
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.367
Torsional Warping Constant: Cw (in^6)	0.142
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.744
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.624

PRODUCT ID

362S 125-54 (3⅝x1¼x16ga)

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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