Non-Structural Stud (S)

MATERIAL	
Web (in)	4
Flange (in)	1¼
Lip (in)	0.188
Yield Strength Fy (KSI)	50
Tensile Strength Fu (KSI)	60
Design Thickness (in)	0.0158
Minimum Thickness (mil)	15
Gauge	25Eq
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.357
Cross Sectional Area: A (in^2)	0.105
Moment of Inertia: Ix (in^4)	0.249
Section Modulus: Sx (in^3)	1.124
Radius of Gyration: Rx (in)	1.538
Moment of Inertia: Iy (in^4)	0.018
Radius of Gyration: Ry (in)	0.416

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	0.164
Section Modulus: Sxe (in^3)	0.064
Allowable Moment:Mal (in-k)	1.60
Allowable strong axis shear away from punch: Vag (lb)	74
Allowable strong axis shear at punch: Va net (lb)	74
(check web crippling)	

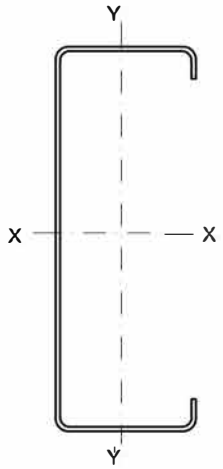
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.0088
Torsional Warping Constant: Cw (in^6)	0.053
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.751
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.761

PRODUCT ID

400S 125-15 (4x1¼x25gaEq)

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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