Non-Structural Stud (S)

MATERIAL	
Web (in)	6
Flange (in)	1¼
Lip (in)	0.188
Yield Strength Fy (KSI)	50
Tensile Strength Fu (KSI)	65
Design Thickness (in)	0.0158
Minimum Thickness (mil)	15
Gauge	25Eq
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.465
Cross Sectional Area: A (in^2)	0.137
Moment of Inertia: Ix (in^4)	0.657
Section Modulus: Sx (in^3)	0.219
Radius of Gyration: Rx (in)	2.191
Moment of Inertia: Iy (in^4)	0.020
Radius of Gyration: Ry (in)	0.384

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	0.389
Section Modulus: Sxe (in^3)	0.096
Allowable Moment:Mal (in-k)	2.40
Allowable strong axis shear away from punch: Vag (lb)	48
Allowable strong axis shear at punch: Va net (lb)	48
(check web crippling)	

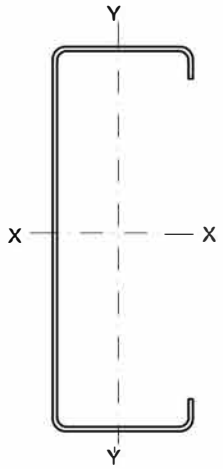
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.0114
Torsional Warping Constant: Cw (in^6)	0.135
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.618
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.309

PRODUCT ID

600S 125-15 (6x1¼x25gaEq)

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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