Non-Structural Stud (S)

MATERIAL	
Web (in)	2½
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)	0.277
Cross Sectional Area: A (in^2)	0.081
Moment of Inertia: Ix (in^4)	0.084
Section Modulus: Sx (in^3)	0.067
Radius of Gyration: Rx (in)	1.015
Moment of Inertia: Iy (in^4)	0.016
Radius of Gyration: Ry (in)	0.441

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	0.060
Section Modulus: Sxe (in^3)	0.040
Allowable Moment:Mal (in-k)	0.99
Allowable strong axis shear away from punch: Vag (lb)	153
Allowable strong axis shear at punch: Va net (lb) (check web crippling)	139

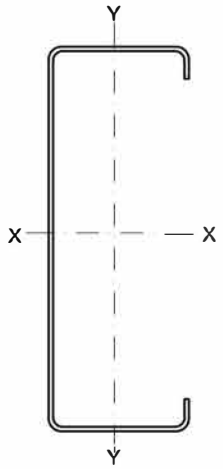
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.0077
Torsional Warping Constant: Cw (in^6)	0.018
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.902
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.428

PRODUCT ID

250S 125-15 (2½x1¼x25gaEq)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S 100-16



See Hermes/Hephaistos Technical Manual for complete design data

Phone: (718) 482-0800
Email: info@hermeshardware.com
Address: 24-02 37th Ave, LIC, NY 11101