Non-Structural Stud (S)

MATERIAL	
Web (in)	6
Flange (in)	1¼
Lip (in)	0.188
Yield Strength Fy (KSI)	33
Tensile Strength Fu (KSI)	45
Design Thickness (in)	0.0188
Minimum Thickness (mil)	18
Gauge	25
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.55
Cross Sectional Area: A (in^2)	0.162
Moment of Inertia: Ix (in^4)	0.779
Section Modulus: Sx (in^3)	0.260
Radius of Gyration: Rx (in)	2.190
Moment of Inertia: Iy (in^4)	0.024
Radius of Gyration: Ry (in)	0.382

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	0.543
Section Modulus: Sxe (in^3)	0.142
Local Buckling Allowable Moment:Mal (in-k)	2.35
Distortional Buckling Allowable Moment: Mad (in-k)	1.92
Allowable strong axis shear away from punch: Vag (lb)	102
Allowable strong axis shear at punch: Vanet (lb)	82

(check web crippling)

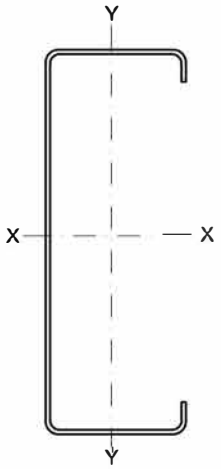
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.019
Torsional Warping Constant: Cw (in^6)	0.172
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.623
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.308

PRODUCT ID

600S 125-18 (6x1¼x25ga)

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