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

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.63
Cross Sectional Area: A (in^2)	0.479
Moment of Inertia: Ix (in^4)	2.237
Section Modulus: Sx (in^3)	0.746
Radius of Gyration: Rx (in)	2.162
Moment of Inertia: Iy (in^4)	0.063
Radius of Gyration: Ry (in)	0.362

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	2.189
Section Modulus: Sxe (in^3)	0.720
Local Buckling Allowable Moment:Mal (in-k)	14.24
Distortional Buckling Allowable Moment: Mad (in-k)	11.77
Allowable strong axis shear away from punch: Vag (lb)	2740
Allowable strong axis shear at punch: Vanet (lb)	1890

(check web crippling)

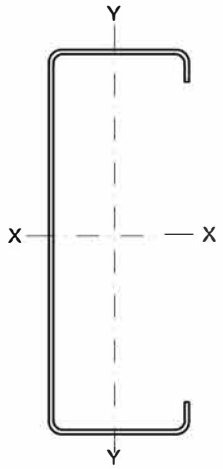
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.511
Torsional Warping Constant: Cw (in^6)	0.457
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.586
Radius of Gyration on the Centroid Principal axis: Ro (in)	2.269

PRODUCT ID

600S 125-54 (6x1¼x16ga)

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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