

Non-Structural Stud (s)



MATERIAL	
Web (in)	3½
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)	1.15
Cross Sectional Area: A (in²)	0.337
Moment of Inertia: Ix (in⁴)	0.609
Section Modulus: Sx (in³)	0.348
Radius of Gyration: Rx (in)	1.344
Moment of Inertia: Iy (in⁴)	0.055
Radius of Gyration: Ry (in)	0.403

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.587
Section Modulus: Sxe (in³)	0.332
Local Buckling Allowable Moment: Mal (in-k)	6.57
Distortional Buckling Allowable Moment: Mad (in-k)	6.08
Allowable strong axis shear away from punch: Vag (lb)	2253
Allowable strong axis shear at punch: Vanet (lb)	633

(check web crippling)

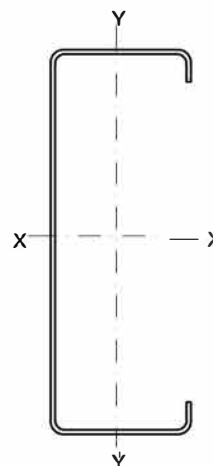
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.360
Torsional Warping Constant: Cw (in⁶)	0.131
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.755
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.593

PRODUCT ID

350S 125-54 (3½x1¼x16ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data