

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)	0.0451
Minimum Thickness (mil)	43
Gauge	18
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.93
Cross Sectional Area: A (in²)	0.272
Moment of Inertia: Ix (in⁴)	0.498
Section Modulus: Sx (in³)	0.284
Radius of Gyration: Rx (in)	1.352
Moment of Inertia: Iy (in⁴)	0.046
Radius of Gyration: Ry (in)	0.411

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.475
Section Modulus: Sxe (in³)	0.265
Local Buckling Allowable Moment: Mal (in-k)	5.25
Distortional Buckling Allowable Moment: Mad (in-k)	4.51
Allowable strong axis shear away from punch: Vag (lb)	1740
Allowable strong axis shear at punch: Vanet (lb)	631

(check web crippling)

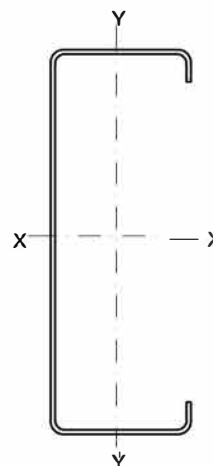
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.185
Torsional Warping Constant: Cw (in⁶)	0.109
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.769
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.609

PRODUCT ID

350S 125-43(3½x1¼x18ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data