

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)	0.0283
Minimum Thickness (mil)	27
Gauge	22
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	0.59
Cross Sectional Area: A (in²)	0.173
Moment of Inertia: Ix (in⁴)	0.320
Section Modulus: Sx (in³)	0.183
Radius of Gyration: Rx (in)	1.361
Moment of Inertia: Iy (in⁴)	0.030
Radius of Gyration: Ry (in)	0.419

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in⁴)	0.268
Section Modulus: Sxe (in³)	0.135
Local Buckling Allowable Moment: Mal (in-k)	2.67
Distortional Buckling Allowable Moment: Mad (in-k)	2.37
Allowable strong axis shear away from punch: Vag (lb)	614
Allowable strong axis shear at punch: Vanet (lb)	359

(check web crippling)

TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in⁴)	0.046
Torsional Warping Constant: Cw (in⁶)	0.073
Shear Center to Centroid on Principal X-axis: Xo (in)	-0.788
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.627

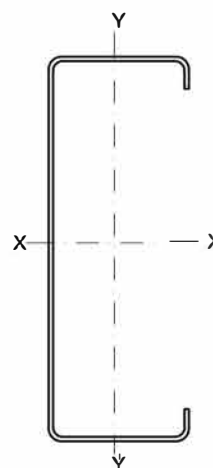


PRODUCT ID

350S 125-27 (3½x1¼x22ga)

CODES & STANDARDS

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



See Hermes/Hephaistos Technical Manual
for complete design data