Structural Stud (S)

MATERIAL	
Web (in)	3⅝
Flange (in)	1⅝
Lip (in)	0.500
Yield Strength Fy (KSI)	50
Tensile Strength Fu (KSI)	65
Design Thickness (in)	0.0713
Minimum Thickness (mil)	68
Gauge	14
Available Finish G60, G90	

GROSS SECTION PROPERTIES	
Weight of Member: (lb/ft)	1.78
Cross Sectional Area: A (in^2)	0.524
Moment of Inertia: Ix (in^4)	1.069
Section Modulus: Sx (in^3)	0.590
Radius of Gyration: Rx (in)	1.429
Moment of Inertia: Iy (in^4)	0.186
Radius of Gyration: Ry (in)	0.596

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	1.069
Section Modulus: Sxe (in^3)	0.579
Local Buckling Allowable Moment: Mal (in-k)	19.16
Distortional Buckling Allowable Moment: Mad (in-k)	18.24
Allowable strong axis shear away from punch: Vag (lb)	4370
Allowable strong axis shear at punch: Vanet (lb)	1004
(check web crippling)	

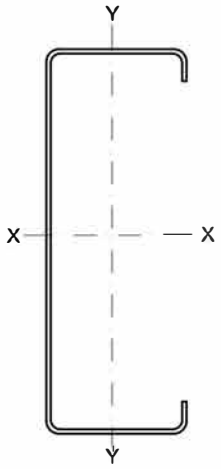
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	0.887
Torsional Warping Constant: Cw (in^6)	0.552
Shear Center to Centroid on Principal X-axis: Xo (in)	-1.264
Radius of Gyration on the Centroid Principal axis: Ro (in)	1.999

PRODUCT ID

362S 162-68 (3⅝x1⅝x14ga) (Grade 50)

CODES & STANDARDS

- ASTM A 1003, A 653, & C 955
- AISI S100-16



See Hermes/Hephaistos Technical Manual for complete design data

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