Structural Stud (S)

MATERIAL	
Web (in)	6
Flange (in)	3½
Lip (in)	0.625
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)	3.51
Cross Sectional Area: A (in^2)	1.032
Moment of Inertia: Ix (in^4)	6.238
Section Modulus: Sx (in^3)	2.079
Radius of Gyration: Rx (in)	2.459
Moment of Inertia: Iy (in^4)	1.841
Radius of Gyration: Ry (in)	1.336

EFFECTIVE SECTION PROPERTIES	
Moment of Inertia-Deflection: Ixe (in^4)	6.180
Section Modulus: Sxe (in^3)	1.755
Local Buckling Allowable Moment: Mal (in-k)	52.54
Distortional Buckling Allowable Moment: Mad (in-k)	48.26
Allowable strong axis shear away from punch: Vag (lb)	5352
Allowable strong axis shear at punch: Vanet (lb)	2880
(check web crippling)	

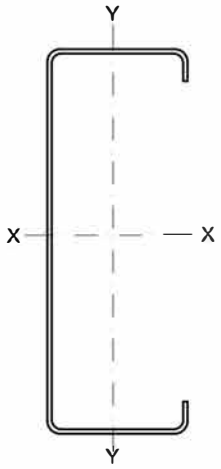
TORSIONAL SECTION PROPERTIES	
St. Venant Torsional Constant: Jx1000 (in^4)	1.748
Torsional Warping Constant: Cw (in^6)	15.968
Shear Center to Centroid on Principal X-axis: Xo (in)	-3.018
Radius of Gyration on the Centroid Principal axis: Ro (in)	4.116

PRODUCT ID

600S 350-68 (6x3½x14ga) (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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