

**3.625 (IN) STRUCTURAL STUD WITH 1.625 (IN) FLANGE - 54MILS (16GA)
COATING: G60**

Web Depth	3.625 (in)
Flange Width	1.625 (in)
Lip Length	0.5 (in)
Design Thickness	0.0566 (in)
Min. Deliverable Thickness	0.0538 (in)
Punchout Width	1.5 (in)
Punchout Length	4 (in)
Yield Strength, Fy	50 (ksi)

GROSS SECTION PROPERTIES (FULL SECTION)

Area (Ag)	0.4219 (in ²)
Member weight per foot of length	1.4357 (lb/ft)
Moment of inertia X-X axis (I _x)	0.8727 (in ⁴)
Section Modulus X-X axis (S _{xx})	0.4815 (in ³)
Radius of gyration X-X Axis (R _x)	1.4382 (in)
Moment of inertia Y-Y axis (I _{yy})	0.1541 (in ⁴)
Radius of gyration Y-Y axis (R _y)	0.6044 (in)

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection (I _{xe})	0.8727 (in ⁴)
Section Modulus (S _{xe})	0.4436 (in ³)
Allowable Local Buckling Moment (M _a)	13.28 (in-k)
Allowable Distortional Buckling Moment (M _{a-d})	12.93 (in-k)
Allowable shear force in web (V _{a-g})	3373 (lb)
Allowable shear force in web at Punchout (V _{anet})	1016 (lb)

TORSIONAL PROPERTIES

St. Venant torsional constant (J x 1000)	0.4505 (in ⁴)
Warping Constant (C _w)	0.4569 (in ⁶)
Distance from shear center to neutral axis (X _o)	-1.2825 (in)
Radii of gyration (R _o)	2.0196 (in)
Torsional flexural constant (b)	0.5967 (in)

