

**6.00 (IN) STRUCTURAL STUD WITH 2.00 (IN) FLANGE - 54MILS (16GA)
COATING: G60**

Web Depth	6.00 (in)
Flange Width	2.00 (in)
Lip Length	0.625 (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)	0.6129 (in ²)
Member weight per foot of length	2.0857 (lb/ft)
Moment of inertia X-X axis (I _x)	3.3193 (in ⁴)
Section Modulus X-X axis (S _{xx})	1.1064 (in ³)
Radius of gyration X-X Axis (R _x)	2.3271 (in)
Moment of inertia Y-Y axis (I _{yy})	0.3285 (in ⁴)
Radius of gyration Y-Y axis (R _y)	0.7321 (in)


EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection (I _{xe})	3.3193 (in ⁴)
Section Modulus (S _{xe})	1.0152 (in ³)
Allowable Local Buckling Moment (M _a)	30.40 (in-k)
Allowable Distortional Buckling Moment (M _{a-d})	26.41 (in-k)
Allowable shear force in web (V _{a-g})	2823 (lb)
Allowable shear force in web at Punchout (V _{anet})	1947 (lb)

TORSIONAL PROPERTIES

St. Venant torsional constant (J x 1000)	0.6545 (in ⁴)
Warping Constant (C _w)	2.4925 (in ⁶)
Distance from shear center to neutral axis (X _o)	-1.4325 (in)
Radii of gyration (R _o)	2.8290 (in)
Torsional flexural constant (b)	0.7436 (in)

