

**6.00 (IN) STRUCTURAL STUD WITH 2.50 (IN) FLANGE - 54MILS (16GA)
COATING: G60**

Web Depth	6.00 (in)
Flange Width	2.50 (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)	0.6695 (in ²)
Member weight per foot of length	2.2783 (lb/ft)
Moment of inertia X-X axis (Ix)	3.8192 (in ⁴)
Section Modulus X-X axis (Sxx)	1.2731 (in ³)
Radius of gyration X-X Axis (Rx)	2.3884 (in)
Moment of inertia Y-Y axis (Iyy)	0.5624 (in ⁴)
Radius of gyration Y-Y axis (Ry)	0.9165 (in)


EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection (Ixe)	3.7656 (in ⁴)
Section Modulus (Sxe)	1.0689 (in ³)
Allowable Local Buckling Moment (Ma)	32.00 (in-k)
Allowable Distortional Buckling Moment (Ma-d)	27.74 (in-k)
Allowable shear force in web (Va-g)	2823 (lb)
Allowable shear force in web at Punchout (Vanet)	1947 (lb)

TORSIONAL PROPERTIES

St. Venant torsional constant (J x 1000)	0.7150 (in ⁴)
Warping Constant (Cw)	4.1937 (in ⁶)
Distance from shear center to neutral axis (Xo)	-1.8599 (in)
Radii of gyration (Ro)	3.1628 (in)
Torsional flexural constant (b)	0.6542 (in)

