

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

Web Depth	2.50 (in)
Flange Width	1.625 (in)
Lip Length	0.5 (in)
Design Thickness	0.0566 (in)
Min. Deliverable Thickness	0.0538 (in)
Punchout Width	.75 (in)
Punchout Length	4 (in)
Yield Strength, Fy	50 (ksi)

GROSS SECTION PROPERTIES (FULL SECTION)

Area (Ag)	0.3582 (in ²)
Member weight per foot of length	1.2190 (lb/ft)
Moment of inertia X-X axis (Ix)	0.3697 (in ⁴)
Section Modulus X-X axis (Sxx)	0.2958 (in ³)
Radius of gyration X-X Axis (Rx)	1.0159 (in)
Moment of inertia Y-Y axis (Iyy)	0.1348 (in ⁴)
Radius of gyration Y-Y axis (Ry)	0.6134 (in)

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection (Ixe)	0.3697 (in ⁴)
Section Modulus (Sxe)	0.2743 (in ³)
Allowable Local Buckling Moment (Ma)	8.21 (in-k)
Allowable Distortional Buckling Moment (Ma-d)	8.08 (in-k)
Allowable shear force in web (Va-g)	2353 (lb)
Allowable shear force in web at Punchout (Vanet)	276 (lb)

TORSIONAL PROPERTIES

St. Venant torsional constant (J x 1000)	0.3825 (in ⁴)
Warping Constant (Cw)	0.2229 (in ⁶)
Distance from shear center to neutral axis (Xo)	-1.4429 (in)
Radii of gyration (Ro)	1.8683 (in)
Torsional flexural constant (b)	0.4035 (in)

