

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

Web Depth	6.00 (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)	0.5563 (in ²)
Member weight per foot of length	1.8931 (lb/ft)
Moment of inertia X-X axis (Ix)	2.8604 (in ⁴)
Section Modulus X-X axis (Sxx)	0.9535 (in ³)
Radius of gyration X-X Axis (Rx)	2.2675 (in)
Moment of inertia Y-Y axis (Iyy)	0.1805 (in ⁴)
Radius of gyration Y-Y axis (Ry)	0.5695 (in)

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection (Ixe)	2.8604 (in ⁴)
Section Modulus (Sxe)	0.9272 (in ³)
Allowable Local Buckling Moment (Ma)	27.76 (in-k)
Allowable Distortional Buckling Moment (Ma-d)	23.16 (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)	0.5941 (in ⁴)
Warping Constant (Cw)	1.3372 (in ⁶)
Distance from shear center to neutral axis (Xo)	-1.0487 (in)
Radii of gyration (Ro)	2.5623 (in)
Torsional flexural constant (b)	0.8325 (in)

