

**6.00 (IN) STRUCTURAL STUD WITH 2.5 (IN) FLANGE - 43MILS (18GA)
COATING: G60**

Web Depth	6.00 (in)
Flange Width	2.50 (in)
Lip Length	0.625 (in)
Design Thickness	0.0451 (in)
Min. Deliverable Thickness	0.0428 (in)
Punchout Width	1.5 (in)
Punchout Length	4 (in)
Yield Strength, Fy	33 (ksi)

GROSS SECTION PROPERTIES (FULL SECTION)

Area (Ag)	0.5371 (in ²)
Member weight per foot of length	1.8276 (lb/ft)
Moment of inertia X-X axis (Ix)	3.0825 (in ⁴)
Section Modulus X-X axis (Sxx)	1.0275 (in ³)
Radius of gyration X-X Axis (Rx)	2.3957 (in)
Moment of inertia Y-Y axis (Iyy)	0.4577 (in ⁴)
Radius of gyration Y-Y axis (Ry)	0.9232 (in)

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection (Ixe)	3.0825 (in ⁴)
Section Modulus (Sxe)	0.9180 (in ³)
Allowable Local Buckling Moment (Ma)	18.14 (in-k)
Allowable Distortional Buckling Moment (Ma-d)	15.74 (in-k)
Allowable shear force in web (Va-g)	1416 (lb)
Allowable shear force in web at Punchout (Vanet)	1240 (lb)

TORSIONAL PROPERTIES

St. Venant torsional constant (J x 1000)	0.3641 (in ⁴)
Warping Constant (Cw)	3.4109 (in ⁶)
Distance from shear center to neutral axis (Xo)	-1.8740 (in)
Radii of gyration (Ro)	3.1786 (in)
Torsional flexural constant (b)	0.6524 (in)

