

**4.00 (IN) DRYWALL STUD WITH 1.625 (IN) FLANGE - 43MILS (18GA)
COATING: G60**

Web Depth	4.000 (in)
Flange Width	1.625 (in)
Lip Length	0.5 (in)
Design Thickness	0.0346 (in)
Min. Deliverable Thickness	0.0329 (in)
Punchout Width	1.5 (in)
Punchout Length	4 (in)
Yield Strength, Fy	33 (ksi)

GROSS SECTION PROPERTIES (FULL SECTION)

Area (Ag)	0.2751 (in ²)
Member weight per foot of length	0.9361 (lb/ft)
Moment of inertia X-X axis (Ix)	0.6921 (in ⁴)
Section Modulus X-X axis (Sxx)	0.3461 (in ³)
Radius of gyration X-X Axis (Rx)	1.5862 (in)
Moment of inertia Y-Y axis (Iyy)	0.1026 (in ⁴)
Radius of gyration Y-Y axis (Ry)	0.6108 (in)

EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection (Ixe)	0.6921 (in ⁴)
Section Modulus (Sxe)	0.2989 (in ³)
Allowable Local Buckling Moment (Ma)	5.91 (in-k)
Allowable Distortional Buckling Moment (Ma-d)	5.83 (in-k)
Allowable shear force in web (Va-g)	976 (lb)
Allowable shear force in web at Punchout (Vanet)	595 (lb)

TORSIONAL PROPERTIES

St. Venant torsional constant (J x 1000)	0.1098 (in ⁴)
Warping Constant (Cw)	0.3628 (in ⁶)
Distance from shear center to neutral axis (Xo)	-1.2633 (in)
Radii of gyration (Ro)	2.1178 (in)
Torsional flexural constant (b)	0.6442

