

**3-5/8" STRUCTURAL STUD WITH 1-5/8" FLANGE**

Web Depth	3.625 (in)
Flange Width	1.625 (in)
Lip Length	0.5 (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)	0.3398 (in <sup>2</sup> )
Member weight per foot of length	1.1562 (lb/ft)
Moment of inertia X-X axis (Ix)	0.7098 (in <sup>4</sup> )
Section Modulus X-X axis (Sxx)	0.3916 (in <sup>3</sup> )
Radius of gyration X-X Axis (Rx)	1.4453 (in)
Moment of inertia Y-Y axis (Iyy)	0.1268 (in <sup>4</sup> )
Radius of gyration Y-Y axis (Ry)	0.6109 (in)



**EFFECTIVE SECTION PROPERTIES**

Moment of inertia for deflection (Ixe)	0.7098 (in <sup>4</sup> )
Section Modulus (Sxe)	0.3716 (in <sup>3</sup> )
Allowable Local Buckling Moment (Ma)	7.34 (in-k)
Allowable Distortional Buckling Moment (Ma-d)	7.32 (in-k)
Allowable shear force in web (Va-g)	1740 (lb)
Allowable shear force in web at Punchout (Vanet)	676 (lb)

**TORSIONAL PROPERTIES**

St. Venant torsional constant (J x 1000)	0.2304 (in <sup>4</sup> )
Warping Constant (Cw)	0.3759 (in <sup>6</sup> )
Distance from shear center to neutral axis (Xo)	-1.2966 (in)
Radii of gyration (Ro)	2.0355 (in)
Torsional flexural constant (b)	0.5942 (in)

