

6" STRUCTURAL STUD WITH 1-5/8" FLANGE

Web Depth	6.00 (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)	0.4469 (in ²)
Member weight per foot of length	1.5206 (lb/ft)
Moment of inertia X-X axis (Ix)	2.3158 (in ⁴)
Section Modulus X-X axis (Sxx)	0.7719 (in ³)
Radius of gyration X-X Axis (Rx)	2.2764 (in)
Moment of inertia Y-Y axis (Iyy)	0.1484 (in ⁴)
Radius of gyration Y-Y axis (Ry)	0.5762 (in)



EFFECTIVE SECTION PROPERTIES

Moment of inertia for deflection (Ixe)	2.3158 (in ⁴)
Section Modulus (Sxe)	0.7719 (in ³)
Allowable Local Buckling Moment (Ma)	15.25 (in-k)
Allowable Distortional Buckling Moment (Ma-d)	13.05 (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)	0.3030 (in ⁴)
Warping Constant (Cw)	1.0952 (in ⁶)
Distance from shear center to neutral axis (Xo)	-1.0617 (in)
Radii of gyration (Ro)	2.5771 (in)
Torsional flexural constant (b)	0.8303 (in)

