

**3.625 (IN) STRUCTURAL STUD WITH 1.625 (IN) FLANGE - 33MILS (20GA)  
COATING: G60**

|                            |             |
|----------------------------|-------------|
| Web Depth                  | 3.625 (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)                        | 0.2621 (in <sup>2</sup> ) |
| Member weight per foot of length | 0.8919 (lb/ft)            |
| Moment of inertia X-X axis (Ix)  | 0.5512 (in <sup>4</sup> ) |
| Section Modulus X-X axis (Sxx)   | 0.3041 (in <sup>3</sup> ) |
| Radius of gyration X-X Axis (Rx) | 1.4501 (in)               |
| Moment of inertia Y-Y axis (Iyy) | 0.0993 (in <sup>4</sup> ) |
| Radius of gyration Y-Y axis (Ry) | 0.6155 (in)               |

**EFFECTIVE SECTION PROPERTIES**

|                                                  |                           |
|--------------------------------------------------|---------------------------|
| Moment of inertia for deflection (Ixe)           | 0.5512 (in <sup>4</sup> ) |
| Section Modulus (Sxe)                            | 0.2677 (in <sup>3</sup> ) |
| Allowable Local Buckling Moment (Ma)             | 5.29 (in-k)               |
| Allowable Distortional Buckling Moment (Ma-d)    | 5.21 (in-k)               |
| Allowable shear force in web (Va-g)              | 1024 (lb)                 |
| Allowable shear force in web at Punchout (Vanet) | 521 (lb)                  |

**TORSIONAL PROPERTIES**

|                                                 |                           |
|-------------------------------------------------|---------------------------|
| St. Venant torsional constant (J x 1000)        | 0.1046 (in <sup>4</sup> ) |
| Warping Constant (Cw)                           | 0.2969 (in <sup>6</sup> ) |
| Distance from shear center to neutral axis (Xo) | -1.3084 (in)              |
| Radii of gyration (Ro)                          | 2.0478 (in)               |
| Torsional flexural constant (b)                 | 0.5918 (in)               |

