Headed Shear Connector Stud

Size: 1 X 8-1/4”

Headed Anchor STUDS are used in all types of concrete connections. They can be welded to a flat surface, or to the inside or outside of an angle.

Ferrules: All orders for studs include required ferrules

Length: Length is before weld. Stud diameters (D) 1/2” and below will be approximately 1/8” shorter after stud welding. 5/8”-7/8” will be approximately 3/16” shorter after stud welding. 1” will be approximately 1/4” shorter after stud welding.

Made to order lengths are available upon request

### Mechanical Property Requirements

<table>
<thead>
<tr>
<th>Type</th>
<th>Tensile Strength</th>
<th>Yield Strength</th>
<th>Elongation (% in 2”)</th>
<th>Elongation (% in 5x dia)</th>
<th>Reduction of Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>61,000 psi min</td>
<td>49,000 psi min</td>
<td>17% min</td>
<td>14% min</td>
<td>50% min</td>
</tr>
<tr>
<td>B</td>
<td>65,000 psi min</td>
<td>51,000 psi min</td>
<td>20% min</td>
<td>15% min</td>
<td>50% min</td>
</tr>
</tbody>
</table>

**Type A Studs are general purpose studs.**

**Type B Studs are headed, bent, or of other configuration that are used as essential component in composite beam design.**

### Stud Specification

<table>
<thead>
<tr>
<th>Material</th>
<th>Low Carbon Steel (1010-1020) ASTM A29 ASTM A108</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stud Diameter (D)</td>
<td>1”</td>
</tr>
<tr>
<td>Stud Standard Length (L)</td>
<td>8-1/4</td>
</tr>
<tr>
<td>Stud Head Diameter (HD)</td>
<td>1-5/8</td>
</tr>
<tr>
<td>Stud Head Thickness (HT)</td>
<td>1/2</td>
</tr>
<tr>
<td>Stud Part #</td>
<td>HSC 1 814</td>
</tr>
<tr>
<td>Ferrule Part #</td>
<td>FER16-F</td>
</tr>
</tbody>
</table>

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