Self-Drilling Screw, Pan Head, Square and Cross Recess Combination, BSD Thread, Zinc

This product standard contains the required dimensional, mechanical, performance, and chemical characteristics of the products shown in this purchase order (as applicable to the product). Unless specified below, current revisions of national or international standards shall be applicable as of the date of Fastenal’s purchase order and must be adhered to in their entirety. If the order received does not meet these requirements, corrective action may be issued which could jeopardize your status as an approved supplier to Fastenal.

### Dimensions

Dimensions are expressed as inch

<table>
<thead>
<tr>
<th>Size</th>
<th>A (Head Diameter)</th>
<th>B (Head Height)</th>
<th>C (Width Across Flats)</th>
<th>R (recess) Square</th>
</tr>
</thead>
<tbody>
<tr>
<td>#8-18</td>
<td>.306</td>
<td>.123</td>
<td>.112</td>
<td>.58</td>
</tr>
</tbody>
</table>

Protrusion allowance

<table>
<thead>
<tr>
<th>Size</th>
<th>Threads per Inch</th>
<th>D (Major Diameter)</th>
<th>Minor Diameter</th>
<th>Z (Protrusion)</th>
<th>Point Diameter</th>
</tr>
</thead>
<tbody>
<tr>
<td>#8</td>
<td>18</td>
<td>.161</td>
<td>.116</td>
<td>.211</td>
<td>.130</td>
</tr>
</tbody>
</table>

RECORD OF REVISION CHANGES TO THIS DOCUMENT ARE LOCATED ON THE LAST PAGE
Specification Requirements:

- **Dimensions:**
  - Head: See Table Above
  - Threads: SAE J78
  - Fully Threaded
- **Drive Style:**
  - Type III and Cross Recess, Sizes #2
- **Material:**
  - C1022 Carbon Steel
- **Mechanical & Performance:**
  - SAE J78
- **Point Size:**
  - #2
- **Finish:**
  - Fe/Zn 3AN per ASTM F1941/F1941M
- **Hydrogen Embrittlement:**
  - Baking to relieve internal hydrogen embrittlement is mandatory and shall be performed after electroplating prior to the application of conversion finish where baking temperatures can damage the conversion film. Baking may be allowed after conversion finish provided temperature does not alter performance. Part temperature shall reach 375°F to 400°F (190°C to 204°C) for a minimum of 4 hours, as soon as practical after plating. Hydrogen Embrittlement test results shall be maintained and supplied to Fastenal upon request.

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### Revision Level Changes to this Document

<table>
<thead>
<tr>
<th>Document Name</th>
<th>Revision Level</th>
<th>Revision Date</th>
<th>Rationale for Revision</th>
</tr>
</thead>
<tbody>
<tr>
<td>SDS.PH.SQPH.BSD.Z</td>
<td>01</td>
<td>8/20/2019</td>
<td>Performance replaces drilling requirement.</td>
</tr>
</tbody>
</table>

The rationale above may not include all of the changes within each revision. A complete review of the Fastenal Product Standard is required.