Concrete Inserts

**TOLCO™ Fig. 109A - Concrete Deck Insert - Hanger Application**

**Size Range:** 3/8"-16 thru 7/8"-9 rod

**Material:** Steel

**Function:** For use in metal deck formed concrete to attach hanger rods. Allows for pre-positioning of hanger rods in poured concrete decks.

**Approvals:** 3/8" - 5/8" rod size is Underwriters Laboratories listed in the USA (UL) and Canada (cUL). Included in our Seismic Restraints Catalog approved by the State of California Office of Statewide Health Planning and Development (OSHPD). For additional load, spacing and placement information relating to OSHPD projects, please refer to the TOLCO Seismic Restraints Systems Guidelines.

**Finish:** Plate: Plain Steel. Rod: Electro-Galvanized. Contact customer service for alternative finishes and materials.

**Order By:** Part number, rod size and finish. Contact customer service for custom rod lengths.

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**NOTES:**

1. Mounting holes are standard. If the plate is not mechanically secured to the deck ribs, a jam nut is required to prevent the anchor bolt from laying over when concrete is poured.

2. Minimum spacing between inserts shall be not less than 4 1/2" (114.3mm) for 3/8" and 6" (152.4mm) for 1/2".

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### Component of State of California OSHPD Approved Seismic Restraints System

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**Max. Recommended Loads shown include safety factor of 5.**

**Weight is based on the standard bolt length.**

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<table>
<thead>
<tr>
<th>Part No.</th>
<th>Rod Size</th>
<th>Max. Pipe Size</th>
<th>Max. Hanger Spacing</th>
<th>Max. Recommended Loads</th>
<th>Approx. Wt./100 lbs.</th>
</tr>
</thead>
<tbody>
<tr>
<td>109A-3/8</td>
<td>3/8&quot;-16</td>
<td>4&quot; (101.6)</td>
<td>15'-0&quot; (4.57)</td>
<td>572 (2.54)</td>
<td>67.0 (30.4)</td>
</tr>
<tr>
<td>109A-1/2</td>
<td>1/2&quot;-13</td>
<td>8&quot; (203.2)</td>
<td>15'-0&quot; (4.57)</td>
<td>579 (2.57)</td>
<td>69.0 (31.3)</td>
</tr>
<tr>
<td>109A-5/8</td>
<td>5/8&quot;-11</td>
<td>Contact Factory</td>
<td></td>
<td>715 (3.18)</td>
<td>71.0 (32.2)</td>
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<tr>
<td>109A-3/4</td>
<td>3/4&quot;-10</td>
<td>Contact Factory</td>
<td></td>
<td>1000 (4.45)</td>
<td>213.0 (96.6)</td>
</tr>
<tr>
<td>109A-7/8</td>
<td>7/8&quot;-9</td>
<td>Contact Factory</td>
<td></td>
<td>1000 (4.45)</td>
<td>217.0 (98.4)</td>
</tr>
</tbody>
</table>