Hancock Concrete is transitioning to a safer manhole lift system for 48” diameter manholes: the A-LOK System. The lift keys for the new A-LOK System are currently available per pair.

***As we work through this change, please be sure to have the proper tools onsite (clevises, chains or cables) for both systems when product arrives, as you may receive both types.

**MANHOLE LIFT SYSTEMS - STARTING 2020**

ORDERING:
Contact your Sales Territory Manager or call your Dispatch Hotline:

- **MN or ND**
  - CALL 320-392-1610

- **SD or IA**
  - CALL 800-644-7807

Read more information from A-LOK in this PDF.
The KEY-LOK™ LIFTING SYSTEM is designed to provide a safe, watertight and economical means of handling precast concrete structures.

The polypropylene lift pin insert is installed during the manufacturing process and becomes an integral part of the structure with a predetermined thickness of concrete forming a barrier to prevent infiltration into the structure.

The lift pin and lift bar hardware is designed to provide a safe and durable means of handling precast concrete structures.

The KEY-LOK™ Lift Pin Insert is molded from a copolymer polypropylene compound.

The KEY-LOK™ Lift Pin and Lift Bar hardware is designed and made to meet the Code of Federal Regulations: 29 CFR 1926.704(d) and CFR 1926.251(a)(4) for lifting devices. Quality and reliability is assured through testing each device.

The A-LOK® Lift Pin's working load is in observance of Federal Regulation codes 29 CFR 1926.704(c) and (d) and 29 CFR 1926.251 (a) (4).

Listed below are the proof of design testing results:

<table>
<thead>
<tr>
<th>Wall Thickness (Inches)</th>
<th>Insert No.</th>
<th>Working Load/Pin (lb.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>1095</td>
<td>4500</td>
</tr>
<tr>
<td>4-1/2</td>
<td>1096</td>
<td>3400</td>
</tr>
<tr>
<td>6</td>
<td>1097</td>
<td>6500</td>
</tr>
<tr>
<td>3-1/2</td>
<td>1098</td>
<td>2000</td>
</tr>
</tbody>
</table>

NOTE: The concrete had a 28 day compressive strength of 4,000 PSI. The U-shaped reinforcement in the following illustration, is required to obtain the above proof of design.
**PRODUCTION INSTRUCTIONS**

**MANHOLE LIFT INSTRUCTIONS**

The A•LOK® Lift Bar is designed to provide a safe and economical means of handling pre-cast manholes and other concrete structures. As lifting tension is applied, the lift pins rotate 90 degrees in the A•LOK® Insert to a locked position for safe handling. A•LOK® meets OSHA 5:1 safety factor. PLEASE NOTE: Lift Bar, pins and chains should be vertical with manhole when lifting.

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**TECHNICAL DATA CHART:**

<table>
<thead>
<tr>
<th>LIFT BAR</th>
<th>LIFT INSERTS</th>
<th>WORKING LOAD (lb.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>48&quot; 8 5&quot; WALL</td>
<td>1095 (2)</td>
<td>9000</td>
</tr>
<tr>
<td>60&quot; 8 6&quot; WALL</td>
<td>1097 (2)</td>
<td>13,000</td>
</tr>
</tbody>
</table>

---

**NOTE:** Lift bar working load observing Code of Federal Regulations
29 CFR 1926.704 (d)
29 CFR 1928.251 (a)(4)

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**NOTE:** PLACEMENT OF INSERT SHOULD BE 1.5" OVER CENTER OF STRUCTURE

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**WARNING:** Serious harm or death may result from safety hazards caused by improper use and installation of this product. Use of this product in applications other than those stated should first be carefully tested prior to general production use. Testing must accurately represent intended use, with full consideration to all field conditions and factors of safety. The safe working load of this product should always be observed. PLEASE NOTE: A LIFT BAR SHOWING ANY SIGNS OF DEFORMATION OR WEAKNESS SHOULD BE DISCARDED.
MANHOLE LIFT BAR

The A•LOK Lift Bar is designed to provide a safe and economical means of handling precast manholes and other concrete structures. As lifting tension is applied, the lift pins rotate 90° in the A•LOK insert to a locked position for safe handling. A•LOK meets OSHA 5:1 safety factor.

PLEASE NOTE: Liftbar pins and chains should be vertical with manhole when lifting.

NOTE: 3/4" HAMMER-LOK AND CHOKER CHAIN FOR CONES (Optional)

TECHNICAL DATA CHART

<table>
<thead>
<tr>
<th>Lift Bar</th>
<th>Lift Inserts</th>
<th>Working Load (lb.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>48&quot; 0 5&quot; Wall</td>
<td>1095 (2)</td>
<td>9000</td>
</tr>
<tr>
<td>60&quot; 0 6&quot; Wall</td>
<td>1097 (2)</td>
<td>13,000</td>
</tr>
</tbody>
</table>


WARNING

Serious harm or death may result from safety hazards caused by improper use or installation of this product.

Use of this product in applications other than those stated should be first carefully tested prior to general production use. Testing must accurately represent intended use, with full consideration to all field conditions and factors of safety. The safe working load of this product should always be observed.

PLEASE NOTE: A LIFT BAR SHOWING ANY SIGNS OF DEFORMATION OR WEAKNESS SHOULD BE DISCARDED.
Key-LOK™ Lift Insert Holders

Universal Lift Insert Holders
LH-109X-UNIV
- Works with all size wet and dry cast inserts
- Installed with Key-LOK™ Washers (shown to the right)

Coil Style Lift Insert Holders
LH-1095-C, LH-1096-C, LH-1097-C, LH-1098-C
- Works with all size wet and dry cast inserts
- Installed with Key-LOK™ Washers (shown to the right)

Spring-Loaded Lift Pin Holders
LH-1095-T & LH-1096-T (kit)
- Works with all size wet and dry cast inserts
- Steel collar is welded to jacket

Cam-LOK™ Lift Insert Holders
LH-1095-BR
Cam-LOK™ Lift Insert Holder and Steel Collar welded to jacket with centered or offset holding pin with tether

Urethane Lift Insert Holders
LH-1099-U (kit)
- Economical method to place Key-LOK™ Lift Inserts
- Requires 3/8” hole
# Key-LOK Lift Insert Capacity

<table>
<thead>
<tr>
<th>Insert Code</th>
<th>Wall Thickness</th>
<th>Standard Reinforcement</th>
<th>U-Shape Reinforcement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>LI-1098B</strong></td>
<td>3-1/2&quot; Wall</td>
<td>1,200 POUNDS / INSERT</td>
<td>2,000 POUNDS / INSERT</td>
</tr>
<tr>
<td><strong>LI-1096B</strong></td>
<td>4-1/2&quot; Wall</td>
<td>2,000 POUNDS / INSERT</td>
<td>3,400 POUNDS / INSERT</td>
</tr>
<tr>
<td><strong>LI-1095A</strong></td>
<td>Wet Cast 5&quot;</td>
<td>3,000 POUNDS / INSERT</td>
<td>4,500 POUNDS / INSERT</td>
</tr>
<tr>
<td><strong>LI-1095B</strong></td>
<td>Dry Cast 5&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LI-1097A</strong></td>
<td>Wet Cast 6&quot; or 7&quot; Wall</td>
<td>3,600 POUNDS / INSERT</td>
<td>6,500 POUNDS / INSERT</td>
</tr>
<tr>
<td><strong>LI-1097B</strong></td>
<td>Dry Cast 6&quot; or 7&quot; Wall</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>LI-1095BR</strong></td>
<td>Cam-LOK Insert</td>
<td>3,000 POUNDS / INSERT</td>
<td>4,500 POUNDS / INSERT</td>
</tr>
</tbody>
</table>