# Table of Contents

- **Primary Product Features** ................................................................. 4
- **Important Notice to Installers** .......................................................... 5
- **Installation Bill of Materials** .............................................................. 5
- **General Installation Instructions** ........................................................ 5
- **Grout Mix Recommendations** ............................................................ 7
- **Grout Mix Quantities** ........................................................................ 7
- **Manufacturer’s Limited Product Warranty** ........................................... 8
Primary Product Features

The ReCon LPB can easily accommodate light poles up to 25’ in height - taller depending on the conditions.

Exposed heights up to 36”

Adjustable Anchoring System can accommodate bolt circle diameters from 7-½” up to 13-½”

Exposed heights up to 12”

The ReCon LPB is in stock and ready to install. Available product lengths will vary depending on the producer.

Large side openings leading to a central vertical pathway

Able to accommodate multiple conduits from all directions

ReCon LPB - 8’ Option
Approx. Weight: 3500 lbs.
Concrete: Min. 5,000 psi
Diameter: 24”

ReCon LPB - 6’ Option
Approx. Weight: 2600 lbs.
Concrete: Min. 5,000 psi
Diameter: 24”
Important Notice to Installers

The ReCon LPB is a proprietary product that contains two distinct features; the adjustable anchoring system and the large side openings in the concrete foundation that facilitate conduit installation. Since site conditions and project requirements vary, analysis of the distinct features is required for each job utilizing the ReCon LPB. Information that is pertinent to the designer in the analysis process may include, but is not limited to:

- Area wind speed
- Site topography and exposure
- Pole height, shape and diameter/width
- Fixture quantity and surface area
- Site soil conditions

Final design, for construction purposes, must be completed by a Professional Engineer who is familiar with the project, the specific site conditions, and the specific light pole that will be installed. For additional information, or to assist in the design process, refer to the Engineering Reference Manual that is available at www.reconbases.com

Installation Bill of Materials (per LPB)

- 1 - ReCon LPB (total length based upon design and required bury depth)
- 4 - 3/4” diameter x 9” long HDG threaded rod (ASTM F1554 Grade 55)
- 4 - 3/4” diameter HDG heavy hex nuts (ASTM A563 Grade DH)
- 4 - 3” x 3” x 5/16” thick HDG bearing plate (ASTM A36)
- Grout for filling the anchoring slots (Refer to Grout Mix Recommendations section for additional information)
- Additional nuts and washers for light pole installation per manufacturer’s recommendations

General Installation Recommendations

Step 1 - Determine Location

1. Mark the center location in which the LPB will be installed.
2. Install offset stakes to allow for relocating the center location after the hole has been augered or excavation is complete.

Step 2 - Auger Hole

1. Auger or excavate hole at the marked location. Hole diameter should be 6 to 12-inches larger than the diameter of the LPB.
2. Auger or excavate to the required embedment depth plus 6-inches. The additional depth will allow for installation of the base material. The required embedment depth will be specified by the design engineer and is based upon the actual site conditions.
3. The bottom of the augered or excavated hole should be relatively flat.
Step 3 - Install Base Material

1. Place a minimum of 6-inches of crushed stone at the bottom of the augered or excavated hole.
2. Crushed stone should be compacted, level, and extend to the edges of the hole.
3. After placing the base material, ensure minimum embedment depth can still be achieved.

Step 4 - Place ReCon LPB

1. Lower the ReCon LPB into hole. Ensure that the conduit openings are aligned properly for the site and installation requirements.
2. Once the LPB is in place, ensure that it is plumb, and the top of foundation elevation is set to the project requirements.
3. Brace the LPB as required to maintain location and level until the unit can be backfilled.

Step 5 - Install Backfill Material and Required Conduits

1. Place backfill material per the project requirements. ReCon recommends using crushed stone or granular fill (sand).
2. Backfill material should be placed uniformly around the LPB in 6 to 8-inch lifts and compacted to 95% standard proctor density.
3. Initial backfill should be placed to an elevation just below the conduit openings.
4. Install the required conduits through the side opening and out the top of the LPB.
5. After conduit installation is complete, install the rest of the backfill material to the finished grade elevation around the perimeter of the LPB.

Step 6 - Setting Threaded Rods and Grouting

1. Install one threaded rod into the anchoring nut at the bottom of each slot located along the top of the ReCon LPB.
2. The threaded rod should be oriented with the 1.5-inch threaded end installed in the anchoring nut and the 5-inch threaded end extending out of the top of the LPB.
3. Using a template, slide the threaded rod and anchoring nut along the slot to achieve the required bolt circle diameter.
4. Once the threaded rods are in the correct location, continue tightening the rod until it seats against the bottom of the slot. This will hold the threaded rod in place.
5. Place one bearing washer and one nut onto each threaded rod. Tighten the nut against the bearing washer using standard crescent wrench. The nut should be hand tight.
6. Pour fluid grout into each slot, filling to the top surface of the LPB. Refer to ReCon’s grouting guide for additional information.
Step 7 - Install Light Pole

1. Install light pole and fixtures per the manufacturer’s recommendations. Ensure that the light pole is plumb during installation.
2. Flat washers, leveling nuts, securing nuts and jam nuts should be used as specified per the project and light pole manufacturer.

Grout Mix Recommendations

ReCon recommends using a high-strength, non-shrink grout when filling the anchoring slots within the ReCon LPB. The grout should have a minimum compressive strength of 8,000 psi at 28-days when mixed to a fluid consistency. One option for use is Quikcrete’s Non-Shrink Precision Grout mix. Other grouts may be used provided they meet these recommendations. All grout used should be mixed and installed per the specific manufacturer’s recommendations. The Grout Mix Quantities table was prepared based upon the mixing recommendations for Quikcrete’s Non-Shrink Precision Grout.

Grout Mix Quantities

<table>
<thead>
<tr>
<th>Number of ReCon LPBs</th>
<th>Number of Slots (4 per LPB)</th>
<th>Required Grout Mix (lb) (1.85 lb per Slot)</th>
<th>Required Water (oz) (6.45 oz per Slot)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4</td>
<td>7.4</td>
<td>25.8</td>
</tr>
<tr>
<td>2</td>
<td>8</td>
<td>14.8</td>
<td>51.6</td>
</tr>
<tr>
<td>3</td>
<td>12</td>
<td>22.2</td>
<td>77.4</td>
</tr>
<tr>
<td>4</td>
<td>16</td>
<td>29.6</td>
<td>103.2</td>
</tr>
<tr>
<td>5</td>
<td>20</td>
<td>37.0</td>
<td>129.0</td>
</tr>
<tr>
<td>6</td>
<td>24</td>
<td>44.4</td>
<td>154.8</td>
</tr>
<tr>
<td>7</td>
<td>28</td>
<td>51.8</td>
<td>180.6</td>
</tr>
<tr>
<td>8</td>
<td>32</td>
<td>59.2</td>
<td>206.4</td>
</tr>
<tr>
<td>9</td>
<td>36</td>
<td>66.6</td>
<td>232.2</td>
</tr>
<tr>
<td>10</td>
<td>40</td>
<td>74.0</td>
<td>258.0</td>
</tr>
<tr>
<td>11</td>
<td>44</td>
<td>81.4</td>
<td>283.8</td>
</tr>
<tr>
<td>12</td>
<td>48</td>
<td>88.8</td>
<td>309.6</td>
</tr>
<tr>
<td>13</td>
<td>52</td>
<td>96.2</td>
<td>335.4</td>
</tr>
<tr>
<td>14</td>
<td>56</td>
<td>103.6</td>
<td>361.2</td>
</tr>
<tr>
<td>15</td>
<td>60</td>
<td>111.0</td>
<td>387.0</td>
</tr>
<tr>
<td>16</td>
<td>64</td>
<td>118.4</td>
<td>412.8</td>
</tr>
<tr>
<td>17</td>
<td>68</td>
<td>125.8</td>
<td>438.6</td>
</tr>
<tr>
<td>18</td>
<td>72</td>
<td>133.2</td>
<td>464.4</td>
</tr>
<tr>
<td>19</td>
<td>76</td>
<td>140.6</td>
<td>490.2</td>
</tr>
<tr>
<td>20</td>
<td>80</td>
<td>148.0</td>
<td>516.0</td>
</tr>
</tbody>
</table>

(Note: Required grout mix and water quantities shown include a 5% waste factor)
Manufacturer’s Limited Product Warranty

Each ReCon LPB shall have a 28-day compressive strength of at least 5,000 psi for 15 years after proper installation. If a ReCon LPB does not meet this warranty standard, please notify the manufacturer in writing. If it has been determined that the ReCon LPB has not met the specifications, the manufacturer will have shipped to you, a replacement LPB which shall be the manufacturer’s sole remedy for breach of this warranty. However, neither the manufacturer nor ReCon Wall Systems, Inc. shall have any obligation to install such replacement LPB.

This warranty shall not apply to any ReCon LPB which is damaged, defective or fails to meet the warranty standard due to improper installation of the LPB, chemical contact, or excessive and unforeseen site conditions beyond the manufacturer’s or ReCon Wall Systems, Inc.’s control.

The above warranty is the exclusive limited product warranty. ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE DISCLAIMED.