

# pole base<sup>®</sup>



## INTRO AND GENERAL INFO

### SECTION 1: INTRO AND GENERAL INFO

Production Introduction

Top Q & A About Pole Base

What is  
different  
about Pole  
Base?

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# INTRODUCING POLE BASE

STUNNING, AREN'T THEY?

When you walk onto a construction project or even a grocery store parking lot, you step out of or car and are met with unsightly light pole bases. They are every where and generally, they look terrible.

That is why we created something that looks remarkable. Stunning even. We have three standard textures; Ledgestone, Fluted and Smooth. And for those looking for something truly unique, we offer an option with brick ledge so you can veneer your pole base to make it look like whatever you want.

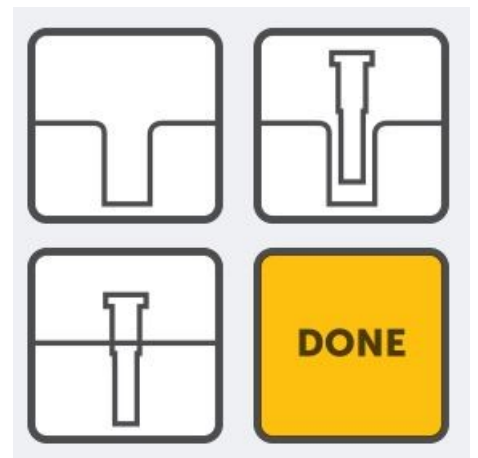
Pretty cool, huh?

## SIMPLE AND EFFECTIVE

Think about it, a typical light pole base is formed with a piece of cardboard...you have to install the rebar, the j-bolts, and the conduit-not to mention more complicated things like junction boxes.

We are in the 21st century and people are still using cardboard for this stuff! With Pole Base, we do all of the archaic stuff for you. When Pole Base shows up on the site, all you have to do is:

**AUGER  
PLACE  
&  
BACKFILL**



## WE THOUGHT IT OUT

Now, how many people think about engineering when they think about light pole bases? Exactly...not many. We've taken light pole design a step further by developing preliminary design charts so you can easily figure out how deep and big the hole around your Pole Base needs to be.

We have construction details, specs, CAD details and a design guide. We think this stuff is awesome! We put together a robust and technical system when we designed Pole Base.

We are different than Cardboard tubes. Spec us today and see the difference.

This project featured a round base with a horizontal architectural rustication joint and custom junction box. The base is buried 6 feet below grade and supports a 15 foot tall double headed light fixture.

**pole base**

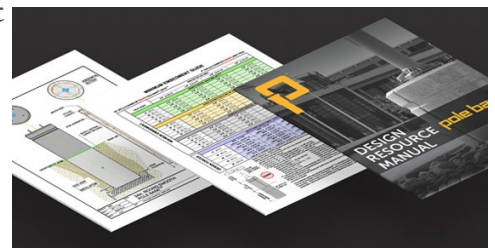


## TOP 10 Q&A ABOUT POLE BASE

### 1.) STANDARD SIZES AND SPECS

**Question:** What are the standard sizes and specifications for Pole Base?

**Answer:** The Durable precast concrete Pole Base units are typically 2' in diameter, with a height of 3'-4' exposed above grade and 3' to 12' buried below grade. The concrete is reinforced with four #5 vertical and #3 round tie steel reinforcement. They also typically incorporate four galvanized anchor rods and four PVC electrical conduits for mounting and wiring light poles.



## 2.) SPECIFY CONCRETE



**Question:** Can I specify the type of concrete used in Pole Base units?

**Answer:** Yes, because we understand that certain applications can require different concrete mix design requirements. However, we believe that the standard durable concrete specifications for Pole Base units will endure well in most locations. The Pole Base standard concrete specification is tailored to conform with the requirements for Severe Exposure in accordance with ACI 318. In general, the standard concrete mix design specifies the following: 5,000 psi (32.5 MPa) compressive strength at 28 days, 0.40 water to cementitious materials ratio, durable 5S large aggregate per ASTM C33, and 6% entrained air.

## 3.) BACKFILL MATERIAL

**Question:** What material should I use to backfill around Pole Base units after they are set into the excavated hole?

**Answer:** Because these create the foundation for light poles that shouldn't move, the material around the Pole Base in the excavation needs to be dense enough to resist the wind forces. There are three general types of material that can be used to backfill Pole Base units, they include: concrete, controlled low-strength material, 1" stone, or sand placed in well compacted layers less than 8" (200 mm) thick.

## 4.) COST COMPARISON



**Question:** How does the cost of Pole Base compare to that of our competitor's site built light pole bases?

**Answer:** The cost of two options depends upon the contractor. Some contractors believe Pole Base units are less expensive and other contractors haven't tried the system to really know for sure. The big differences are that Pole Base products create savings in time, labor space, and remedial repairs. You can rest assured that the anchor rods will be set properly and there won't be surprises when the cardboard form is removed. Pole Base units are delivered to the jobsite ready to install and have light poles connected. There is no delay waiting for the bases to be formed, cast and cured—we know time is money!

## 5.) HEIGHT

**Question:** How tall do the Pole Base units need to be?

**Answer:** The height of Pole Base units is comprised of two portions: the exposed upper portion and the concealed buried lower portion below grade. The bury depth is dependent upon the size and heights of the base, pole and fixtures as well as the local wind load and site soil conditions. The Pole Base Design Resource Manual has preliminary embedment design charts on page 4.3 that were generated from the methods described in the AASHTO LTS-6, "Structural Supports for Highway Signs, Luminaries, and Traffic Signals." The project's engineer of record is encouraged to use this or other industry recognized design standards to calculate the Pole Base unit embedment using the actual site conditions.



## 6.) WEIGHT



**Question:** How much do Pole Base units weigh?

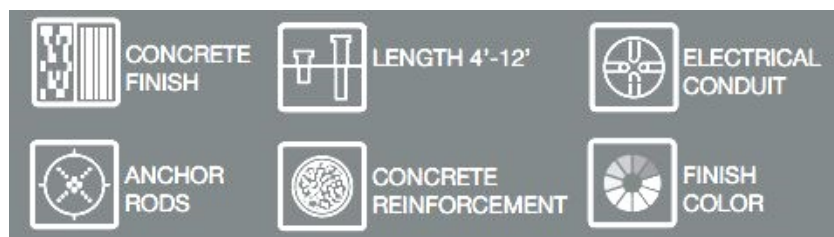
**Answer:** They are solid concrete and generally weigh between 2,000 and 4,000 pounds (4,400 to 8,800 Kg) each depending upon texture pattern, diameter, and height.

## 7.) INSTALLATION TIME

**Question:** How long does it take to install Pole Base units?

**Answer:** Installing Pole Base units is fairly simple. Depending upon the soil conditions and equipment, they can typically be installed between 45 and 90 minutes. First, you need to auger or excavate a hole in the earth. Then, a 6" (150 mm) thick stone foundation is placed at the bottom of the excavation to provide good base support and to fine adjust the final base elevation. Next, the Pole Base unit is set on the stone foundation, leveled and backfilled. During the backfilling operation, the site electrical conduit is connected to the embedded conduit in the base. The final step is the backfilling and compaction of the excavation around the Pole Base.

## 8.) CUSTOMIZE TO YOUR SPECS



**Question:** Can I get Pole Base units customized for my project?

**Answer:** Absolutely! Customization is something that Pole Base does best. We build all of our bases to your specification for your particular project. You are able to specify the concrete finish texture, length, (4'-12'), electrical conduit, anchor rod size and spacing, concrete reinforcement, finished color, etc.

## 9.) SPECIAL EQUIPMENT

**Question:** What special equipment do I need to unload the truck, lift the Pole Base units and install them into the ground?

**Answer:** Typically the Pole Base units arrive on wooden pallets and are removed from the delivery truck and moved around the jobsite with a rough terrain fork lift. The units are set into the ground with either a lifting plate or choked nylon sling hoisted from a chain hook on one of the previously mentioned equipment, an excavator, or a crane.



## 10.) LEAD TIME



**Question:** What is the lead time to have Pole Base units delivered?

**Answer:** Depending upon the precast manufacturer, Pole Base units could be available in stock or within a few short weeks depending on level of customization. Feel Free to contact Dan Buckley at North Coast Redi-Rock about your required delivery schedule.

