

TerraCast[®]

P R O D U C T S

Guide to Installing PolySteel™ Direct Burial Light Poles

NOTE: NEVER erect pole without the Post Top Luminaire, as specified, attached

Thank you for choosing a TerraCast[®] PolySteel™ light pole for your project. Below you will find a general outline with recommendations on how to install the poles and the suggested burial depth. Please note that this is not a complete installation manual. Always refer to local contractors and electricians before any hole is dug or any wire is connected.

Once you've determined the perfect location for your poles, it's of equal important to check the soil and determine if soil tamping or adding additional backfill is necessary. Consult a local Engineer to determine your soil type and conditions.

TerraCast[®] cannot be responsible for decisions made regarding the soil factors related to the specific site location.

Be sure that the installer provides a grounding system for the electrical components and all wiring is done in accordance with applicable local codes.

The direct burial PolySteel™ post is available only with our unique direct burial base. Typical installations should take less than an hour.

Direct Burial Foundation – Dig a hole

TerraCast[®] recommends that holes be round or square. The holes should have smooth sides and be free of all large dirt and debris. The walls and floor of the hole should be tamped so that they are firm to the touch and will not crumble. The diameter and depth of the hole should be about twice that of the pole's base and/or 25% of the above ground, Overall height. Holes may be hand dug, but for larger holes TerraCast[®] recommends the use of an augur.

Mounting Height Burial Depth

- 10' to 13' 3'
- 14' to 24' 4'
- 25' to 30' 5'
- 31' to 35' 6'
- 36' to 40' 7'

Install the Luminaire

Affix the predetermined Post Top Luminaire to the pole.

Wire the Pole

Using a local electrician, and adhering to all local codes and regulations, wire the pole utilizing approved methods.

Install the Pole

One or two people should be able to lift the pole and set it into the excavated hole doing their best to keep it level.

Align the Pole

Enlist the use of a plumb bob to straighten and align the pole. Several inches of a sand and gravel mixture may be added at the base of the shaft to provide additional stability and resistance to rotation.

Installation

1. Remove any cardboard or protective wrapping from the pole. Do not use a blade to penetrate packaging, only to cut tape and seams. Deep cuts may lead to cuts or scratches on the poles' surface.
2. While the pole is easily accessible, install fixture(s) and any accessories, and thread the wiring between the luminaire and the bottom of the pole or the hand hole.
3. Insert the pole into pre-dug or augured hole of correct size and depth. The hole should be several inches larger than the diameter of the poles' base. For example, we recommend a 3' x 3' x 3' Square or circular hole for our 12' Burial Base Pole, and a foundation of wet concrete no less than 2' x 2' x 2' for our 9' series.
4. Using the steps above to align the pole, be sure the pole is plumb and level.
5. Check the hole depth carefully and backfill the hole with wet concrete whose tensile strength is no less than 3000PSI. Tamp the wet slurry mixture well every 6" in height to be sure its compacted and all air bubbles are removed.
6. Plumb the pole again. To be sure it's centered and true, be sure to check the plumb bob from two different locations approximately 90° to each other at a short distance to the pole.
7. Straighten the pole again as needed. Brace for straightness using 2x4 pieces of wood or similar.

8. Allow wet concrete to dry.

Anchor Bolt Foundations

The concrete foundation must be designed by a qualified engineer with knowledge of the local soil conditions, however, as a general guideline, please refer to the chart and notes found below.

Anchor bolts can be provided by TerraCast®; the dimensions of those bolts have been specified by TerraCast® for the installer's unique conditions. Without knowledge of the Intended Post Top and wind load calculations, TerraCast® cannot assume bolt size. Please be sure that you have received the correct bolts for your intended projects load. Significant gaps between the decorative pole base and the installation surface can cause undue stress on the anchor bolts. Always be sure the pole is plumb.

TerraCast® always recommends direct burial poles be set into wet slurry concrete whose tensile strength is 3000 psi.

Anchorage supplied by others:

Contact TerraCast® the correct diameter and length.

TerraCast® is not responsible for any failure of the system when bolts are supplied by others.

TerraCast® can provide a bolt circle template ahead of the arrival of your poles.

Installation Guidelines

- One or more persons should pick up pole and unwrap packaging or otherwise make ready to erect.
- Now, affix all Post Top luminaire and run all wires.
- Place leveling nuts (if applicable) and washers on anchor bolts.
- One or more people should now stand the pole up straight.
- Position the pole over the anchor bolts; put on all nuts and washers.
- Be sure pole is plumb.
- Tighten all bolts.
- Check again to be sure pole is plumb.