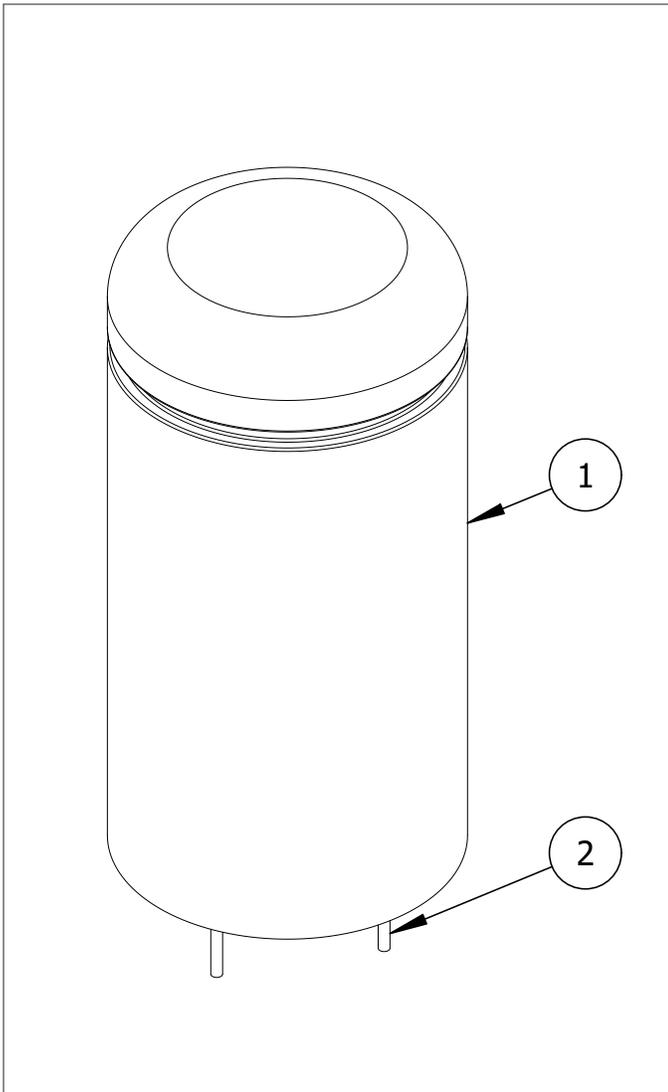


# Concrete Bollard Installation

## Existing Concrete

Bollards shown in the diagrams may not be the same model as the bollards shipped in this order. This does not affect the integrity of the installation.



To protect the finish, keep bollards in packaging until exact moment of installation.



Handle with care to avoid scratching or damaging bollard surfaces.

### Before Installation

**STEP 1:** Always check for hazards such as water pipes, gas lines, and underground wiring before drilling.

**STEP 2:** Use a broom or pressure washer to clean the concrete surface prior to bollard installation.

**STEP 3:** Refer to site plans to locate and mark the precise center point of each bollard.

**STEP 4:** Use the fitted rebar template to mark accurate installation holes around the previously marked center point. *Note: Be sure to make any necessary adjustments to the orientation now. Once drilled and installed, there is no way to reposition the bollard.*

### Drill the Hole

**STEP 5:** Tap a pilot divot hole in the center of each mark.

**STEP 6:** Set the depth control on the hammer drill (or rotary hammer) to 6". If depth control is not available, mark 6" on the masonry bit.

*\* Please refer to the adhesive manufacturer's MSDS before using*

### Parts List

#	PART	QTY
1	Concrete Bollard	1
2	Steel Rebar	Varies
3	Fitted Rebar Template (supplied)	1

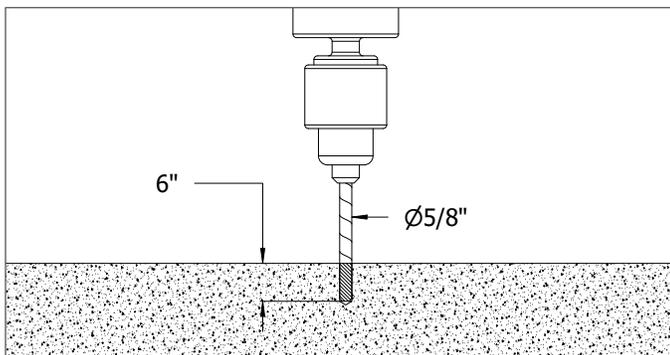
### Installation Equipment

5/8" Masonry Drill Bit	Level
Fitted Rebar Template	Chalk/Marker
Hammer Drill or Rotary Hammer	Measuring Tape
Adhesive Anchoring System* (included)	

# Concrete Bollard Installation

## Existing Concrete

### STEP 7



**STEP 7:** Drill a hole that has a 5/8" diameter and 6" depth. Drill on high speed, using the hammer function if available.

**STEP 8:** Clear the hole of all debris and/or standing water using the vacuum. Use a brush to remove any remaining loose particles.

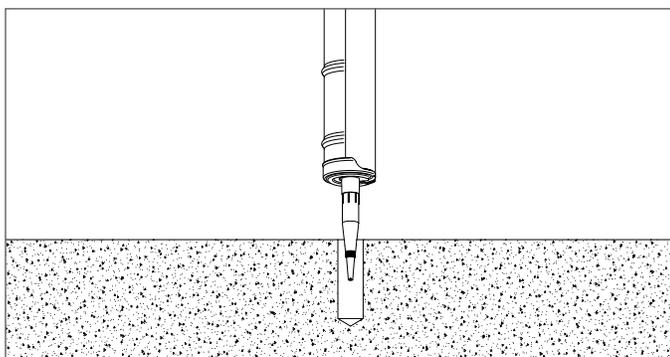
### Secure the Bollard

**STEP 9:** Using the caulking gun, dispense the adhesive from the bottom up until the hole is one-quarter full. Prevent air pockets by withdrawing the mixing nozzle slowly.

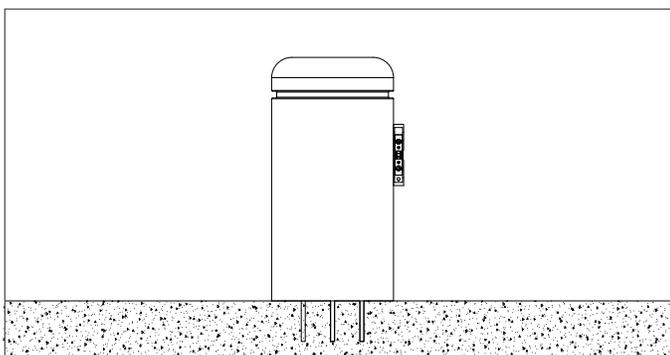
**STEP 10:** Set the bollard over the site, lining up the steel rebars with the holes. Insert and lower the steel rebars into the holes.

**STEP 11:** Use a level to ensure that the bollard is plumb and make any necessary adjustments. *Note: A minimum of 45 minutes at 68°F is required for the anchoring system to set. Do not disturb until adhesive has fully cured.*

### STEP 9



### STEP 11



**Inspect the installation.** Abrasions should be covered as soon as possible. For damage repair or other servicing needs, please contact Reliance Foundry's sales department.