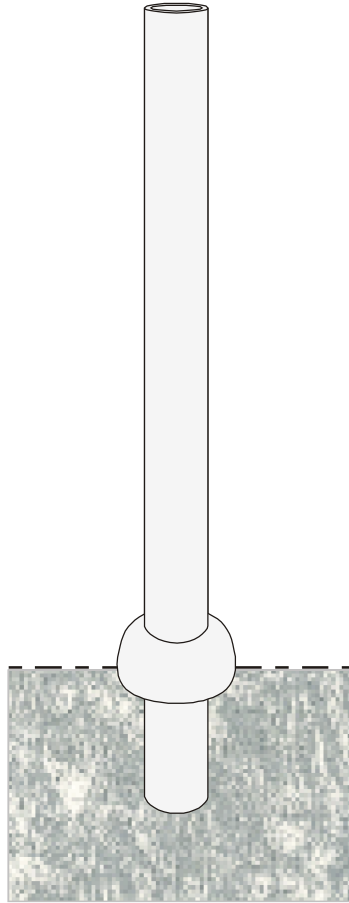


Core Drilled Bollard Installation Instructions

Precautions: Read this installation guide in its entirety before installing posts. Contact Alvarado for information on installing on terrazzo flooring. If there are any questions, call Alvarado at 909-591-8431 or 800-423-4143, Monday through Friday, 6:00 AM to 4:30PM PST.



Installation

Materials Enclosed

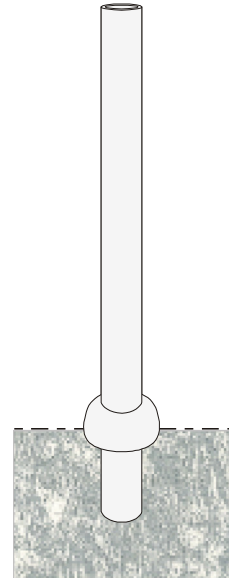
- Core Drilled Bollard
- Base Cover

Tools Required

- Impact Drill
- Core Drill
- 5/8" Concrete Drill Bit
- 5" or 5.5" Diameter Concrete Drill Bit
- Concrete Mixture
- Shop Vac
- Chalk Line

NOTE: Core Drilled Bollards are shipped ready for installation. The following steps assume that no modifications have been made to the product and is ready for installation on level concrete. Instructions for Posts with railing outlets are shown in Italic Font.

- 1) Remove the red shrink-wrap from the palette.
- 2) Carefully remove the 4.5" Diameter Core Drilled Bollard and Base Cover from the packaging.
- 3) Note the desired placement of the Bollard.
- 4) With an impact drill, make a 5/8" pilot hole in the marked location(s) and with a core drill make a 5 or a 5 1/2" diameter hole, 12" deep over the pilot holes. **Vacuum ALL dust and debris from each hole. If this is not done correctly, the posts will not seat properly.**
- 4) Insert the 4.5" Diameter Core Drilled Bollard into the center of the hole. Prop up the post so that it remains vertical.
- 5) Using the instructions on the package to mix the concrete mixture. Quickly fill the surrounding area of the Bollard and the inside of the Bollard with the mixture.
- 6) Prop up the Bollard so that it remains vertical while the Pour Stone sets. **NOTE: Clean up any excess concrete mixture around the Bollard before moving on to the next set of Bollards.**
- 7) Insert the Base Cover over the Bollard until it sits securely on the ground.



Installed Core Drilled Bollard
with Base Cover.

Maintenance

Clean Bollards with the correct type of cleaner for its finish:

Stainless Steel: Use a Stainless Steel polish or cleaner with a soft cloth. If a heavy scratch or mark is apparent, use a metal blend of finish pad.

Replace any bent or broken pieces IMMEDIATELY.

Warranty

Alvarado Manufacturing Company warrants the equipment being sold against defects in material and workmanship, for a period of one (1) year from the date of purchase providing recommended installation and maintenance procedures are followed. This warranty is void if damage was due to improper installation, maintenance or use. The manufacturer is not responsible for any shipping or labor charges incurred in the removal or replacement of defective parts.