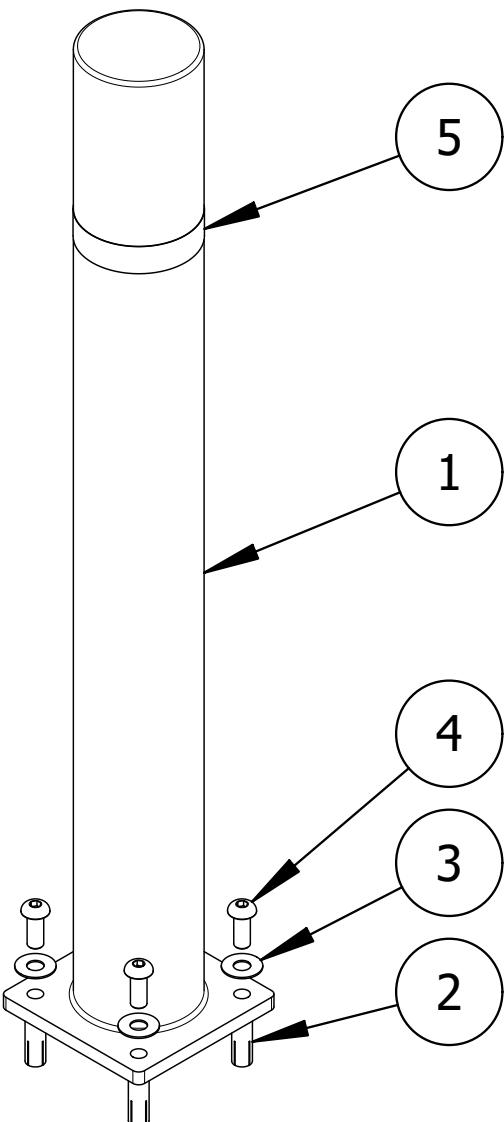


R-8302-FL

Flexible Bollard Installation

Flanged Surface Mounting



Parts List

#	PART	QTY
1	Flexible Bollard, Surface Mount	1
2	1/2" Drop-In Concrete Insert	4
3	1/2" Washer	4
4	1/2" Head Bolt	4
5	Reflective Tape (optional)	1

Installation Equipment

Hammer	5/8" Masonry Drill Bit
Chalk	1/2" Insert Setting Tool
Level	5/16" Hex Key
Measuring Tape	Broom/Pressure Washer
Vacuum	Hammer Drill or Rotary Hammer



To protect the finish, keep bollards in original 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: Study the site plans to locate and mark the precise center point of each bollard.

STEP 4: Keep the bollard in its protective packaging. Place the bollard over each center point marking so that the bollard's middle coincides with the center point.

STEP 5: Use chalk to create drill-markings for each bolt. For secure installation, ensure there is a minimum radius* of solid concrete around each hole for the drop-in insert. Remove the bollard. Note: Be sure to make any necessary adjustments to the orientation now. Once drilled and installed, there is no way to change the layout of bolt patterns for the bollard. Determine a consistent sight line first when installing multiple bollards.

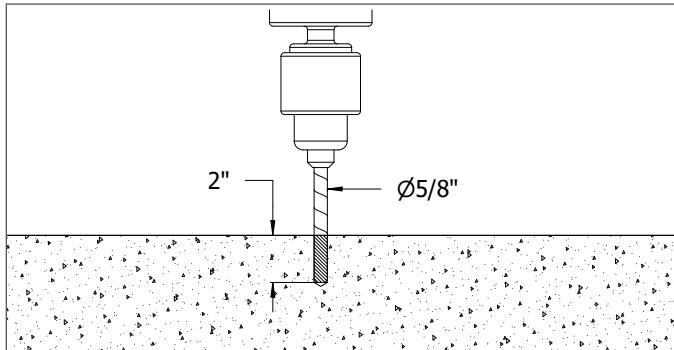
*Concrete insert manufacturers such as www.ucanfast.com recommend specific measurements for minimum radii.

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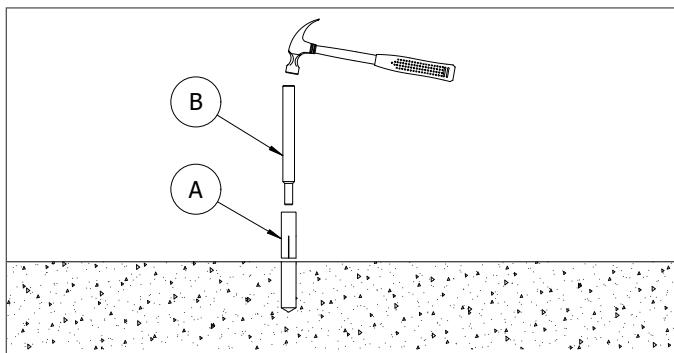
Flexible Bollard Installation

Flanged Surface Mounting

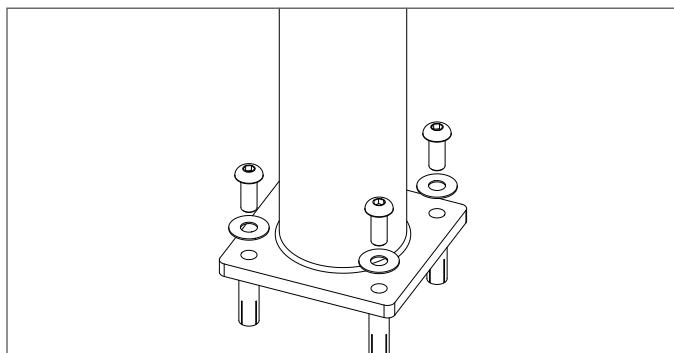
STEP 8



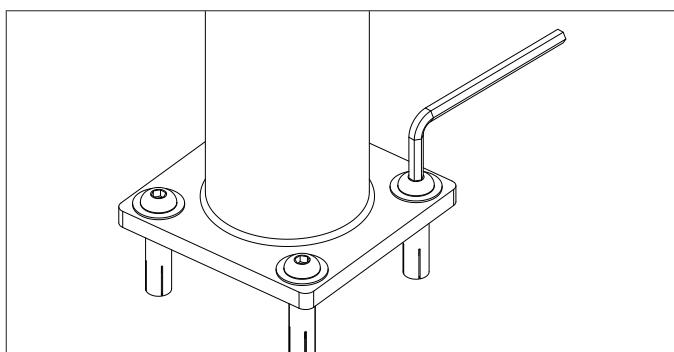
STEP 10



STEP 12



STEP 13



Drill the Holes

STEP 6: Tap pilot divot holes in the center of each mark.

STEP 7: Set the depth control on the hammer drill (or rotary hammer) to 2". If depth control is not available, mark 2" on the masonry bit.

STEP 8: Drill holes that have a 5/8" diameter and 2" depth. Drill on high speed, using the hammer function if available.

Secure the Bollard

STEP 9: Clear the holes of all debris and/or standing water using the vacuum.

STEP 10: Tap the drop-in insert (**A**) into the hole with the slotted end facing down, and drive it down until its top sits flush with the concrete surface. Insert a setting tool (**B**) into the threaded hole, then hammer down. This will cause the internal expansion plug to set the concrete insert in place.
Note: If a proper setting tool is not available, an equivalent flat-end punch can be used.

STEP 11: Keep the bollard in its protective packaging. Carefully set the bollard base over the installation position so that the bollard's bolt holes are directly on top of the drilled holes and concrete inserts. When ready to install, remove the protective packaging.

STEP 12: Place the washers over the holes on the bollard and set the bolts into place.

STEP 13: Use a hex key to tighten the bolts until secure. Tighten bolts evenly in a cycle.



Inspect the installation. For damage repair or other servicing needs, please contact Reliance Foundry's sales department.