Retractable Bollard Installation

Before installation

⚠️ Ensure that the installation site does not intersect any utility lines or other hazards

Drainage

Proper drainage is essential for long-term operation of retractable bollards. Retracted bollards must not sit in standing water for extended periods. If water is visible in excavated installation areas, more drainage may be required.

Minimum drainage and foundation dimensions may vary depending on local soil conditions and climate. To ensure best performance, consult a qualified engineer for all retractable bollard installations.

- Follow all minimum drainage requirements specified by an engineer
- Ensure drain hole remains open at bottom of receiver. Receiver will not drain if hole is blocked

Bollard Alignment

Retractable bollards are manufactured with minimum required clearances for effective operation. Receivers may need to be offset (up to 3°) from extended bollards to achieve vertical alignment.

- Align all deadbolt housing for visual consistency
- When establishing vertical alignment, ensure bollards stand in their natural position

Stainless Steel Corrosion

To protect stainless steel surfaces, cover with protective plastic bag (provided with bollard hardware) during installation [Step 5].

⚠️ Use only stainless steel fasteners and tools

- Avoid physical contact between stainless steel and other metals.
- Protect from cement splatter and pressure wash spray
- Do not weld, cut, drill or grind carbon steel near stainless steel. Resulting sparks or grit will damage stainless steel surfaces.
- Do not allow contact with chemical cleaners, especially products containing hydrochloric acid, unless designated specifically for stainless steel. If exposed to chemicals, rinse thoroughly with clean water.

*Minimum drainage recommendations may not apply to all regions and climates. Consult an engineer prior to installation.*
Step 1: Excavate installation area and tamp ground materials

Step 2: Place drain rock to sit below bollard receiver. Reserve enough drain rock to surround the receiver base. Follow all drain instructions ["Drainage," Page 1].

Step 3: Place bollard receiver directly on drain rock. Top of receiver must stand at least 0.3” above planned surface grade. To ensure consistency between multiple bollards, align all deadbolt housings.

Step 4: Extend bollard. Fill drain rock around the receiver for stability. Adjust receiver position to establish vertical alignment of the bollard’s natural standing position. See ["Bollard alignment," Page 1].

Step 5: To protect stainless steel finish from concrete staining, cover bollard with protective plastic bag and secure with rubber band (included with bollard hardware).

Step 6: Pour concrete, leaving space for a concrete berm. Check bollard alignment while concrete is still wet.

Step 7: Form a concrete berm, approximately 14” diameter around the receiver cover (3” on all sides). Slope the berm from receiver to surface grade.

Step 8: For powder-coated bollards, if protective coating was damaged during installation, it should be repaired with touch-up paint immediately to prevent corrosion.