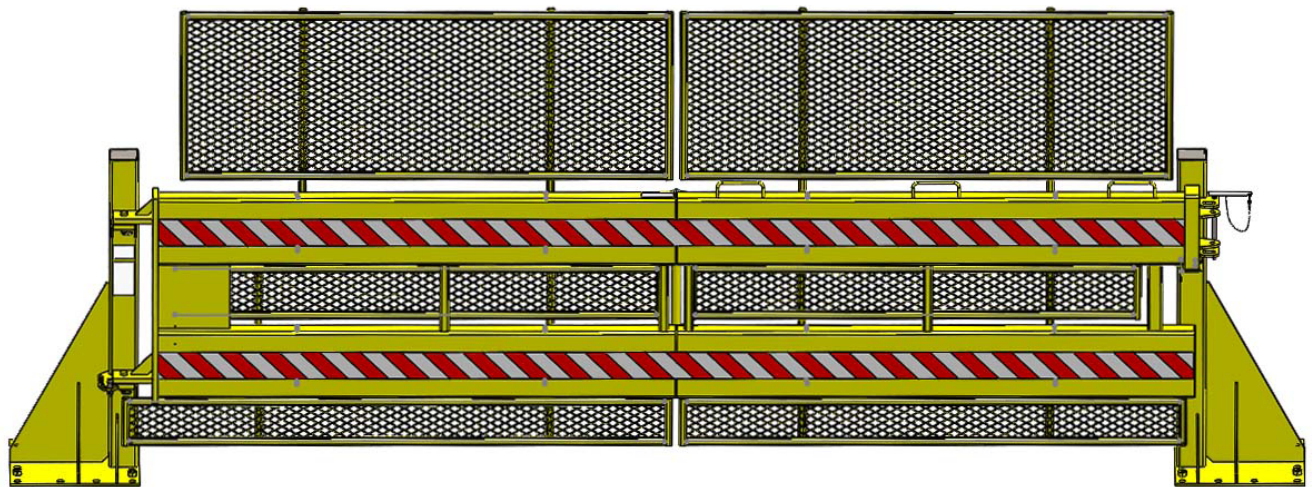
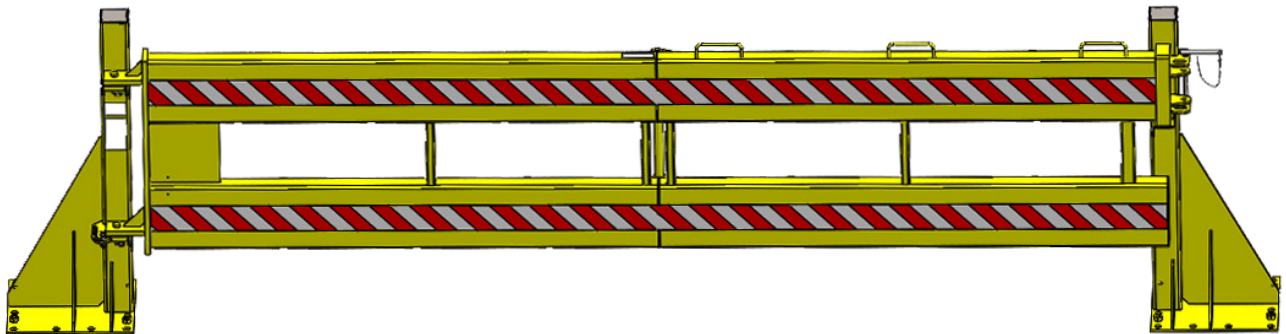
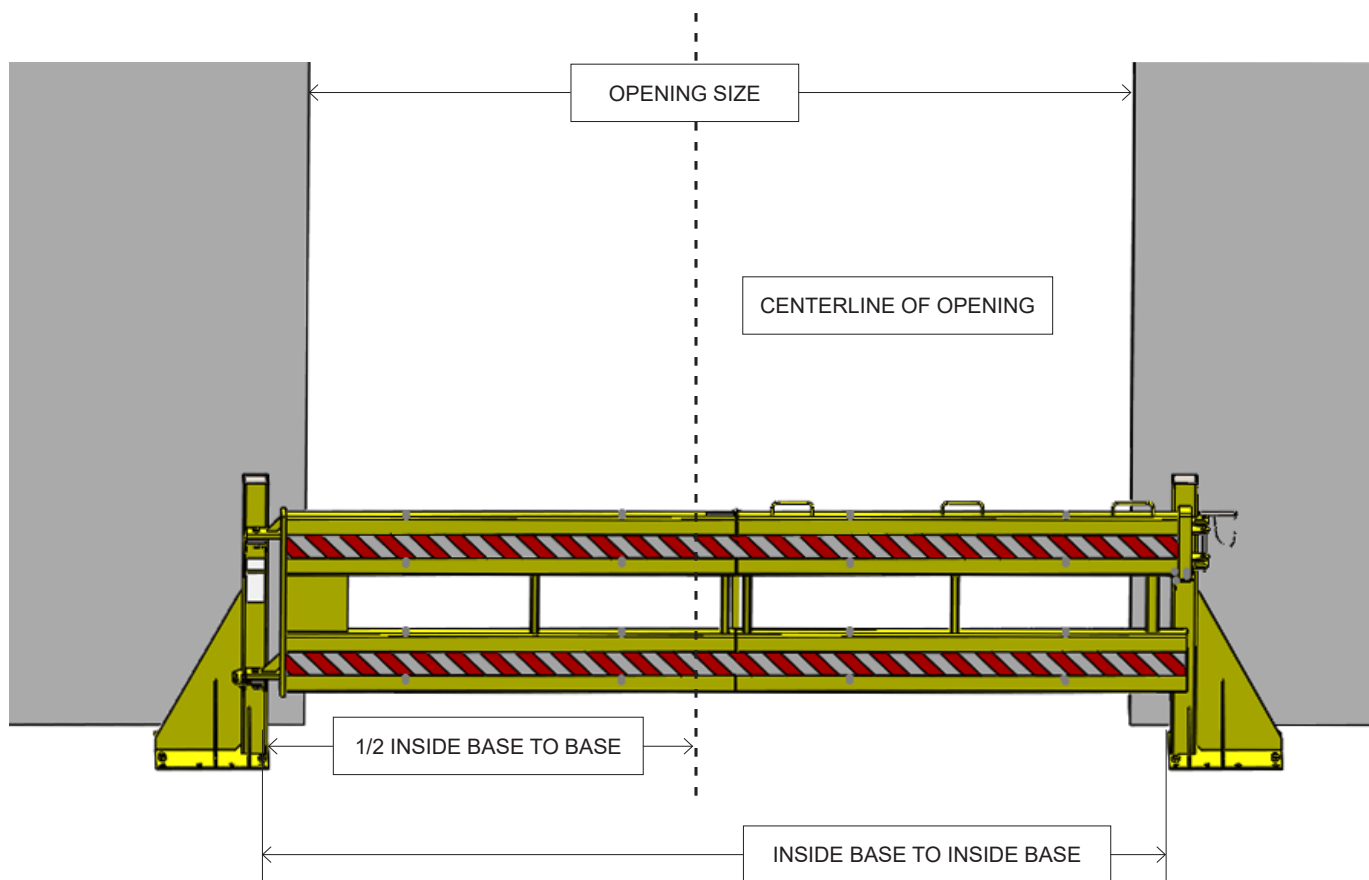


DEFENDER GATE

SAFETY BARRIER SYSTEMS

Defender Gate™ XL Installation Manual





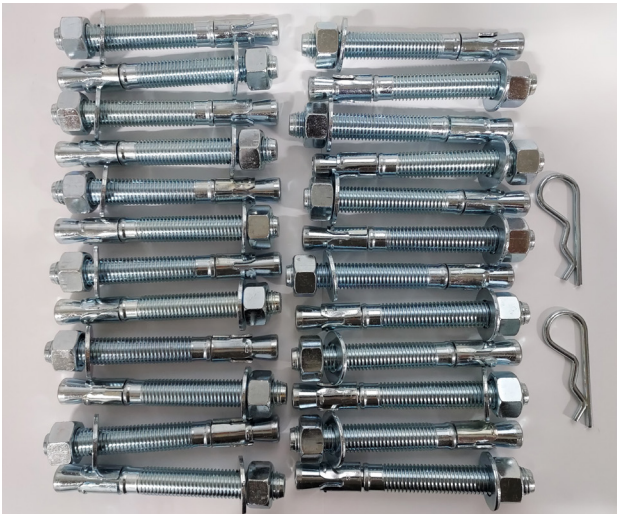
Defender Gate™ Sizing Chart

DEFENDER GATE™ SIZE	INSIDE BASE TO INSIDE BASE	1/2 FROM BASE TO BASE
12 FEET	144-1/4 INCHES	72-1/8 INCHES
13 FEET	156-1/4 INCHES	78-1/8 INCHES
14 FEET	168-1/4 INCHES	84-1/8 INCHES
15 FEET	180-1/4 INCHES	90-1/8 INCHES
16 FEET	192-1/4 INCHES	96-1/8 INCHES

The Defender Gate™ XL arrives in three pieces, all of which are securely wrapped and attached to a pallet. All hardware is included.

SHIPMENT CONTAINS:

- Bag of Hardware (1)
 - Latch Post Bollard (1)
 - Hinge Post Bollard (1)
 - Gate (1)
 - Instruction Manual (1)
-



HARDWARE:

- 3/4" x 6" Wedge Anchors (24)
 - Flat Washers (24)
 - Nuts (24)
 - Hitch Pins (2)
-



REQUIRED TOOLS: (not included)

- Hammer Drill
- Level
- Tape Measure
- 1-1/8" Wrench or Socket Wrench
- Hammer
- Allen Wrench
- 3/4" Masonry Drill Bit

INSTALLATION: PART ONE

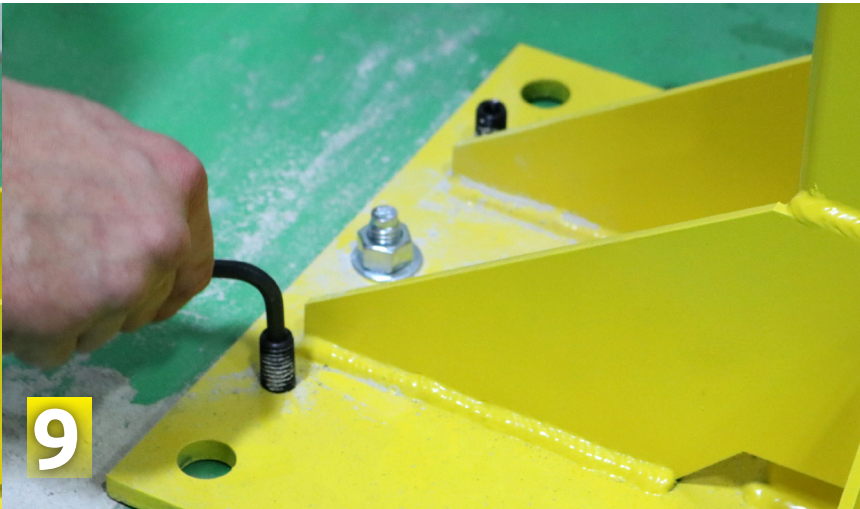
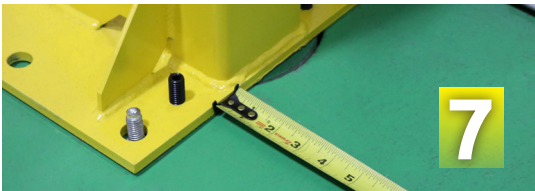
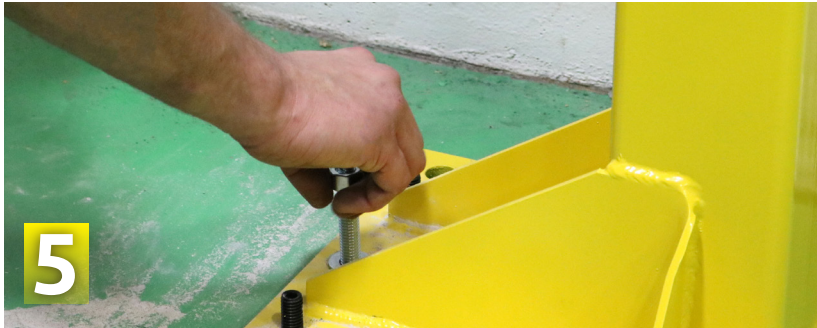
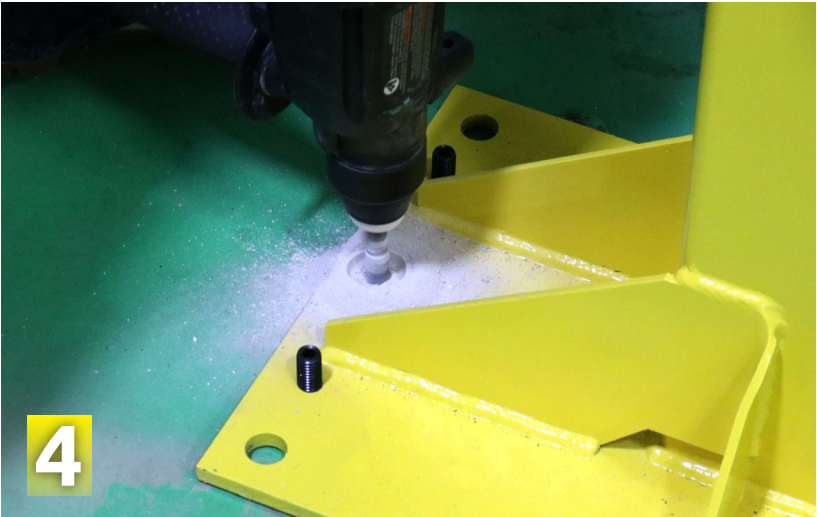
Installing the Bollards.

TOOLS NEEDED:

- Hammer Drill
- Level
- Tape Measure
- 1-1/8" Wrench or Socket Wrench
- Hammer
- Allen Wrench

Begin with **HINGE BOLLARD**.

1. Measure the size of the door opening.
2. Divide this measurement in half to find the centerline of the door opening, which will align with the center of the gate. Mark the centerline.
3. Line the HINGE BOLLARD up with the dock plate and make sure the bollard is at least 4 inches from the wall or dock rails. Set the inside edge of the HINGE BOLLARD baseplate with half of the centerline measurement.
4. Use a hammer drill with a 3/4" drill bit to drill 12 holes for the anchor bolts. Holes must be at a minimum depth of 5 inches. Use the bollard as a template and mark the holes or simply hold the bollard in place while drilling.
5. Place washer and nut on the bolt **before striking**.
6. With the bollard in place, insert the 12 3/4" x 6" anchor bolts with a hammer.
7. Measure the distance from the inside edge of the HINGE BOLLARD baseplate to the inside edge of the LATCH BOLLARD baseplate. Make sure both bollards are evenly distanced from the wall or frame.
8. Repeat steps 3-7 to install LATCH BOLLARD.
9. Level both bollards using an Allen wrench and leveling screws. Begin with the HINGE BOLLARD. Use supplied shims as required.
 - a. Place the level on the far left side to check plumb
 - b. Tighten screws until level
 - c. Place the level on the adjacent side
 - d. Loosen/tighten nuts on bollard to level
 - e. Repeat on LATCH BOLLARD



INSTALLATION: PART TWO

Installing the Gate.

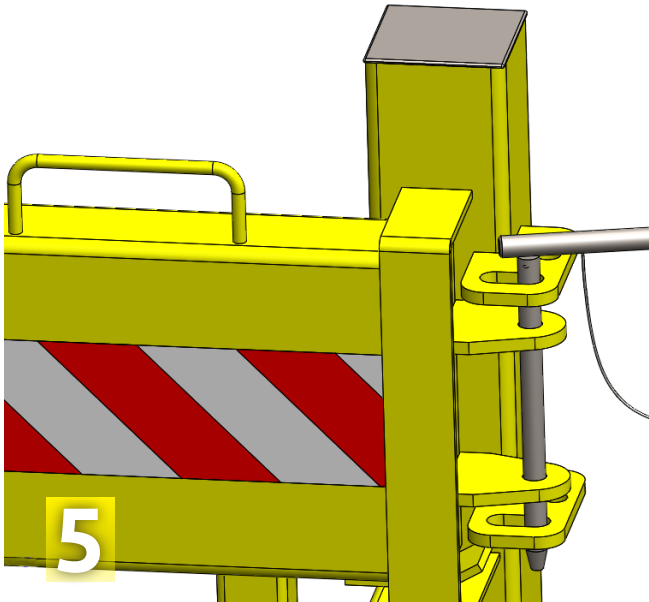
TOOLS NEEDED:

- Hammer Drill
- Level
- 1-1/8" Wrench or Socket Wrench

It is recommended using a forklift or an additional helper while lifting or carrying the gate.

1. Remove the zip tie that holds the thrust washer to the bollard. Keep the washer in place so that it remains over the hole for the pivot pin.
2. With the GATE still folded, insert the pivot pins into the HINGE BOLLARD holes. The handles must be on top and the 3M® striped reflective tape must be facing the dock's interior. Move the GATE slightly back and forth until the GATE is firmly seated.
3. Insert the hitch pins into the two pivot pins on the GATE.
4. Open gate and check leveling at multiple points.
5. Close the gate, drop in the closure pin. A slight leveling adjustment may be necessary to assure a smooth fit in the latch bollard.

Defender Gate™ installation is complete and the safety barrier system is now ready to use.





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