

## Installation Instructions

### Before You Begin

This document includes required procedures for the installation of the Infiltrator Guardian, which is designed to be installed on Infiltrator's EZsnap or EZset (24-inch diameter only) risers, dual-wall corrugated pipe, and ultra-rib pipe. Risers must be installed according to state and/or local regulations, which supersede the guidelines provided by the manufacturer. If unsure of the requirements for a particular site, contact the local health department or permitting authority. Before installing the Guardian, review the following documents for detailed riser installation instructions which can be found on Infiltrator's website.

- Infiltrator IM- and CM-Series Tank Riser Connection Document for EZsnap Risers
- IM-Series Septic Tanks Pipe Adapter Ring Assembly Instructions
- Infiltrator Adapter Flange for use with EZsnap, EZset, and TW- Risers on Concrete Tanks

Description	Item Number (Green and Black)
EZsnap 24" x 2" Riser	SNAPRIS-2402 or SNAPRIS-B2402
EZsnap 24" x 6" Riser	SNAPRIS-2406 or SNAPRIS-B2406
EZsnap 24" x 12" Riser	SNAPRIS-2412 or SNAPRIS-B2412
EZsnap 24" x 6" HD Riser	SNAPRIS-HD-2406 or SNAPRIS-HD-B2406
EZsnap 24" x 12" HD Riser	SNAPRIS-HD-2412 or SNAPRIS-HD-B2412
EZsnap 24" Riser-Tank Lid	IMLID-2400 or IMLID-B2400
EZset 24" x 6" Riser	RIS-2406 or RIS-B2406
EZset 24" x 12" Riser	RIS-2412 or RIS-B2412
EZset 24" x 18" Riser	RIS-2418 or RIS-B2418
EZset 24" Riser Lid	LID-2400 or LID-B2400

### Pipe Riser Compatibility

- Dual Wall Corrugated Pipe: ADS N-12® Dual Wall Pipe (24-inch Diameter)
- Ultra Rib Pipe: IPEX Ultra-Rib® PVC Pipe (24-inch Diameter)

### MATERIALS AND EQUIPMENT NEEDED

<input type="checkbox"/> Drill or Impact Driver	<input type="checkbox"/> Caulk Gun (Pipe Installation Requirement)
<input type="checkbox"/> (10) #14 x 2" Stainless Steel Screws (supplied)	<input type="checkbox"/> ISI-1500 Sealant (EZset & Pipe Installation Requirement)
<input type="checkbox"/> (1) 3/16" Drill Bit (Pipe Installation Requirement)	<input type="checkbox"/> Rags
<input type="checkbox"/> 3/8" Hex Head Driver Bit	<input type="checkbox"/> Rubber Mallet
<input type="checkbox"/> 7/16" Hex Head Driver Bit	

### General Guidelines

Complete riser and Infiltrator Guardian installation prior to backfilling the tank excavation. Ensure all connection surfaces are clean and dry.

For pipe installations, sealant shall be ISI-1500, mastic or equivalent. Sealants vary between riser manufacturers. Sealant identified herein represents a minimum recommendation. The installer must use discretion in determining the size and amount of sealant needed to craft and maintain a watertight seal. Keep sealant at a minimum temperature of 60° Fahrenheit (16° Celsius) to maintain workability.

Note: Use a drill or impact driver with a low speed and torque setting to prevent cross threading or stripping screws on the adapter ring and/or safety gate (screw).

### Installation Instructions

#### EZsnap Risers

1. After installing the riser(s), identify if the EZsnap riser(s) is either narrow or wide end up. This will indicate whether the wide or narrow end screw bosses on the Guardian's adapter ring will be used.



Wide end up



Narrow end up

2. Place the Infiltrator Guardian over the riser so that the screw bosses align and the safety gate closes towards the inlet or outlet tee. This will prevent the adapter ring from blocking access to the sanitary tees.



3. Reduce the torque and speed of your drill driver and screw the (10) #14 2" stainless steel screws into the screw bosses located on either the outer or inner ring of the adapter to complete the connection between the Guardian and EZsnap riser.

4. Check to ensure the screw on top of the safety gate is firmly tightened down to the adapter ring. This may require changing to a 7/16" hex head driver.

5. Rotate the EZsnap lid over the adapter ring until it indexes into place. Use the outer screw locations on the lid to fasten the lid to the Guardian.

## EZset Risers

**1.** Using the ISI-1500 sealant, apply two 3/8" beads of sealant 1/2" from the inner wall of the riser on the flange. This sealant will ensure a water and odor-tight seal exists between the EZset riser and Infiltrator Guardian™.



**2.** Place the Guardian over the riser so the safety gate closes towards the inlet or outlet tee. This will prevent the adapter ring from blocking access to the sanitary tees.

**3.** Reduce the torque and speed of your drill driver and screw the Guardian to the EZset riser using the (10) #14 2" stainless steel screws provided with the Guardian. Use the (10) screw bosses located on the Guardian's adapter ring labeled "EZset Riser".

**NOTE:** An alternative installation approach may be necessary if the EZset riser is undersized and the screws fail to drill into the riser's flange. If this happens to be the case, follow steps 4-7 in the "24-inch Diameter Dual Wall Corrugated and Ultra Rib Pipe" section of this installation manual.

**4.** Check to ensure the screw on top of the safety gate is firmly tightened down to the adapter ring. This may require changing to a 7/16" hex head driver.

**5.** When placing the EZset lid on top of the Guardian, align one of the six EZset lid screw bosses directly beneath the "EZsnap Riser" screw location on the outer ring of the Guardian. Drill all EZset screw bosses out using a 3/16" drill bit before fastening the EZset lid to the Guardian using screws supplied with the riser.



## 24-inch Diameter Dual Wall Corrugated and Ultra Rib Pipe

**1.** Dry fit the Infiltrator Guardian™ to either the dual wall corrugated pipe or ultra rib pipe, which ever is being used as a riser(s). Diameters of these pipe materials tend to fluctuate; dry fitting the Guardian so that the adapter ring's sleeve seats properly on the pipe confirms the Guardian can be installed successfully. 24-inch diameter ultra rib pipe should sit on the first ledge of the adapter ring's sleeve while dual wall corrugated pipe should sit on the second ledge. See images below.



**NOTE:** The Infiltrator Guardian™ is designed to fit 24-inch diameter dual-wall corrugated and ultra-rib pipe when they are within their stated specification. Pipe diameters will vary based on geography and manufacturer.

**2.** Flip the adapter ring upside down and apply one 1/2" bead of ISI-1500 or equivalent sealant to the adapter's sleeve, where it contacted the pipe during step 1.

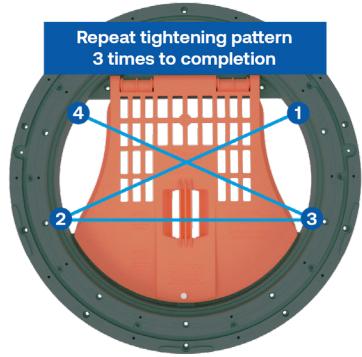


**3.** Apply another 1/2" bead of sealant to the top of the riser to ensure a watertight seal is created between riser and Guardian. Adding more sealant to the Guardian and/or riser might be necessary depending on the shape or size of the riser.



**4.** Place the Guardian over the riser so that the safety gate closes towards the inlet or outlet tee. This will prevent the adapter ring from blocking access to the sanitary tees.

**5.** Drill (4) 3/16" pilot holes through the inner sidewall of the Guardian's adapter ring and the pipe, as illustrated in the image to the right. **Do Not Drill These Pilot Holes Over the Closed Safety Gate.** This could interfere with the opening and closing of the safety gate.



**6.** Fill pilot holes with the ISI-1500 sealant.



**7.** Reduce the torque and speed of your drill driver and screw (4) #14 2" stainless steel screws into the pilot holes that have been filled with sealant. Tighten these screws in an alternating pattern, just as you would on a vehicle's tire, to prevent the Guardian shifting too much in one direction. Each screw should be tightened over the course of at least 3 intervals (see image in step 5). These screws are included with the Guardian.

**8.** Check to ensure the screw on top of the safety gate is firmly tightened down to the adapter ring. This may require changing to a 7/16" hex head driver.

**9.** Lids approved to be used with the Guardian are the EZsnap or EZset lids.

**NOTE:** When using the EZsnap lid, rotate the EZsnap lid over the adapter ring until it indexes into place. Use the outer screw locations on the lid to fasten the lid to the Guardian.

When placing the EZset lid on top of the Guardian, align one of the six EZset lid screw bosses directly beneath the "EZsnap Riser" screw location on the outer ring of the Guardian. Drill all EZset screw bosses out using a 3/16" drill bit before fastening the EZset lid to the Guardian using screws supplied with the riser.

**Contact Infiltrator's Technical Services Department for assistance at 1-800-221-4436 or [info@infiltratorwater.com](mailto:info@infiltratorwater.com)**