

TW™-Series Septic Tanks Riser Connection Guidance Document



Before You Begin

This document provides recommended procedures for the connection of commercially available riser products to Infiltrator® Systems' (Infiltrator's) TW-Series septic and pump tanks. These guidelines are applicable to Infiltrator's TW-375™, TW-900™, TW-1050™, TW-1250™, and TW-1500™ model tanks.

The intent of this document is to provide procedures for making the connection between the riser and tank. Once this connection has been made, the riser manufacturer's standard installation instructions should be used to complete the assembly.

Risers must be installed according to state and/or local regulations, which supersede the guidelines in this document. If unsure of the requirements for a particular site, contact the local health department or permitting authority.

Parts and Supplies

The parts and supplies necessary for installation of a riser system on an Infiltrator TW-Series tank must be purchased separately from the tank. All parts and supplies are commercially available. Contact Infiltrator or the riser manufacturer for assistance obtaining parts and supplies.

General Guidelines

1. Complete riser assembly installation, including installation of adapter ring, riser(s), and lid prior to backfilling tank.

Note: Risers are to be connected to Infiltrator's factory-installed access port reinforcing ring (reinforcing ring). TW-Series tanks are assembled at the factory with reinforcing rings and lids at the inlet and outlet access port locations.

2. Ensure that all connection surfaces are clean and dry.
3. Butyl sealant shall meet ASTM C990-91 requirements.
4. Butyl sealant dimensions vary between manufacturers. Butyl sealant sizing identified herein represents a minimum recommendation. The installer must use discretion in determining the size and amount of butyl sealant needed to craft and maintain a watertight seal.
5. Keep butyl sealant at a temperature (at least 60° F/16° C) that maintains its workability. Keep it free from dirt and debris that may compromise a watertight seal.
6. When applying butyl sealant to a part, ensure continuous application to avoid gaps that may cause leaks. Apply an adequate quantity to ensure a sealed connection.
7. Physically press the butyl sealant onto the part to ensure that it stays properly positioned during assembly.
8. Ensure that all screws supplied with riser products are installed for connection of adapter rings, risers, and lids.
9. Do not over tighten screws. This may damage the plastic parts being connected, causing the screw connection to fail. This may also strip the screw head.

Note: Use Type 304 stainless steel screws

10. In addition to the measures shown in this document, a caulk-type sealant may also be applied to augment the butyl sealant and to help establish and maintain watertight connections.

Compatible Products

The TW-Series Septic Tanks are compatible with 24-inch (600-mm) diameter riser products from the following manufacturers:

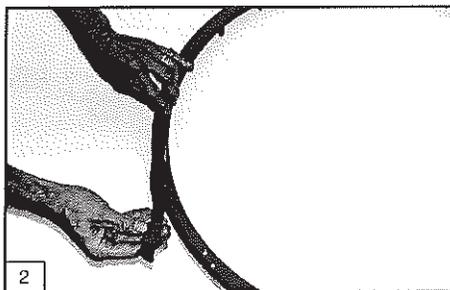
- Polylok®, Inc.
- Tuf-Tite® Corporation
- E-Z SET Company

The following 24-inch (600-mm) diameter pipe products are also compatible with the TW-Series septic and pump tanks:

- IPEX Ultra-Rib™ polyvinyl chloride pipe
- Corrugated high density polyethylene (HDPE) pipe

Polylok™, Inc. Riser

1. Install riser assembly prior to backfilling tank.
2. Apply 1/2-inch x 3/8-inch (13 mm x 10 mm) butyl sealant in the channel on the bottom surface of the Polylok riser-to-riser adapter.

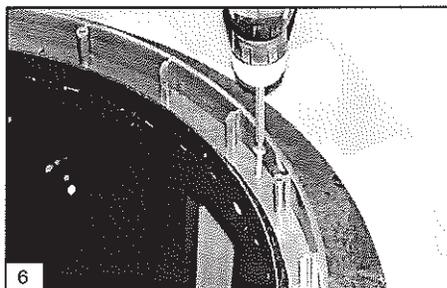


Note: Use proper Polylok adapter

- Compatible - Polylok part #3009-RTR24 (riser-to-riser adapter)

- Not compatible - Polylok part #3009-AR (riser adapter)

3. Invert Polylok riser-to-riser adapter and center over the Infiltrator reinforcing ring.
4. Verify that the butyl sealant remains properly aligned on the Polylok riser-to-riser adapter.
5. Fasten the Polylok riser-to-riser adapter to the Infiltrator reinforcing ring with eight #10 x 1.5 inch (4.9 mm x 38 mm) stainless steel screws.
6. Tighten screws in a "star" pattern, tightening screws on opposite sides of the Polylok riser-to-riser adapter. Repeat the star pattern at least twice, without over tightening screws. Compress the butyl sealant to the tank evenly during fastening.



7. Connect the Polylok riser to the Polylok riser-to-riser adapter and install lid according to Polylok's instructions.

Note: Do not use the Infiltrator tank lid, as it does not provide a watertight seal with the Polylok riser.

8. Backfill tank in accordance with Infiltrator's TW-Series septic tank installation instructions.
9. Following tank backfilling, visually examine the riser to Infiltrator reinforcing ring connection for damage resulting from fill placement. Repair or replace if damaged.