Infiltrator Adapter Flange for use with EZset™ and TW™ Risers on Concrete Tanks

Infiltrator's 24" Adapter Flange provides a watertight connection when using EZset or TW Riser and Lid Systems on a concrete septic tank with 24" manhole

Adapter Flange Assembly Instructions

This document provides recommended procedures for the connection of the Infiltrator Adapter Flange to a concrete septic tank. These guidelines are applicable to any concrete tank with a 24" manhole.

The intent of this document is to provide procedures for making the connection between the adapter flange and the concrete tank in order to prepare it for an EZset by Infiltrator or TW Riser System installation. Once this connection has been made, Infiltrator's Riser Guidance Document should be used to complete the assembly of the riser system to the adapter flange.

State and/or local regulations supersede the guidelines in this document. If unsure of the requirements for a particular site, contact the local health department or permitting authority.

Material and Equipment Needed

- ☐ Concrete tank with 24" manhole/s
- ☐ Infiltrator Adapter Flange
- ☐ Tapcon 1/4" x 1 1/4" stainless steel hex head screws
- ☐ Stainless washer 1" x 3/8"
- ☐ 3/16" concrete drill bit
- ☐ Screw Gun
- ☐ ISI 1500 Sealant or equivalent
- ☐ Caulk Gun
- ☐ Utility Knife

General Guidelines

1. Complete riser installation, including the installation of adapter flange, and lid prior to backfilling.

2. Ensure that all connection surfaces are clean and dry.

3. Sealant shall be ISI 1500 or equivalent.

4. Sealants vary between 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.

5. Keep 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 sealant to the flange, ensure continuous application to avoid gaps that may cause leaks. Apply an adequate quantity to ensure a sealed connection.

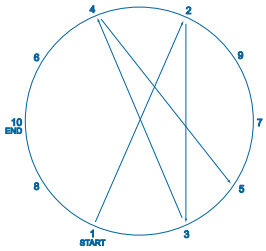
7. Physically spread the sealant onto the ISI adapter flange to ensure that it distributes properly during assembly.

8. 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. Be sure to insert screws in a "star" pattern, tightening opposite sides of the riser or pipe adapter.

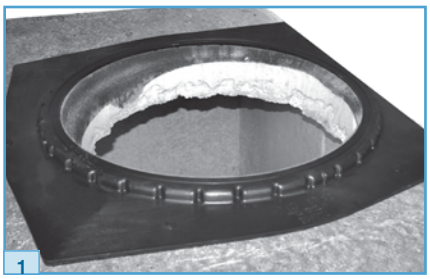
Note: Use 1/4" x 1 1/4" tapcon stainless steel screws with 1" stainless washers.

9. In addition to the measures shown in this document, additional sealant may also be applied to the exterior joint connection augment to help establish and maintain watertight connections.

Tightening in a "Star" Pattern



Installing the Adapter Flange to a Concrete Septic Tank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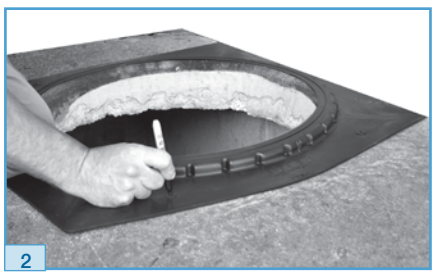
1. Position the adapter flange in place centered over manhole.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2. Mark ten evenly spaced drill hole locations on adapter flange.

3. Drill 3/16” diameter holes in 10 marked locations at a 1 1/4” depth.

4. Clean drilled holes and sealing surface to remove debris and dirt.

5. Inspect both sides of the adapter flange to ensure surface is clean and dry.

6. Apply ISI 1500 Adhesive Sealant in a continuous bead on the bottom surface of Infiltrator adapter flange. Sealant thickness must fill the space between adapter flange and surface of tank.


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7. Fasten Adapter Flange to tank using ten 1/4” x 1 1/4” (5.0 mm x 50 mm) stainless steel hex head tapcon screws with 1” x 3/8” stainless steel washers. Tighten in star pattern.


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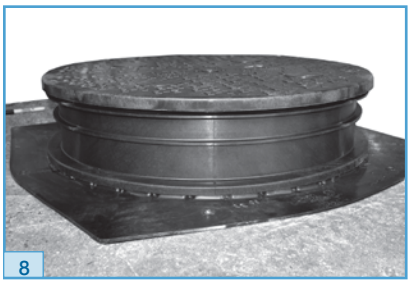
8. Install the EZset or TW risers and lids according to Infiltrator’s Riser Guidance document.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