Adapter Installation for Roth® Tanks

Orenco's Tank Adapter Kits help ensure watertight seals between tanks and access risers. These connections must be watertight for the proper functioning of an onsite septic system or effluent sewer system. **Orenco strongly recommends watertightness testing of all access riser-to-tank connections after installation**.

24-inch (600-mm) Roth Tank Adapters

Orenco's 24-inch (600-mm) Roth Tank Adapter Kit includes an adapter, eight stainless steel screws, and ¾-inch × ⅝-inch (19-mm × 16-mm) butyl sealant.

Step 1: Fit Adapter to Tank and Drill Pilot Holes

Center the adapter in the tank opening. Use the pre-drilled holes in the adapter as guides to drill ¼-inch (6.35 mm) pilot holes through the tank. Be careful not to widen the pilot holes. Remove the adapter and set it aside when finished.

Step 2: Clean Tank Opening and Apply Sealant

Step 2a: Wipe around the tank opening with a clean cloth and acetone.

Step 2b: Apply a ring of the butyl sealant around the tank opening as shown (against the lip, just inside the circle of pilot holes).

Step 3: Secure Tank Adapter and Install Riser

Step 3a: Remove the protective strip from the butyl tape. Place two screws in the adapter to use as guides to find the pilot holes. Carefully set the adapter in place.

Step 3b: Drive all of the screws into the tank until they are just barely snug; then tighten them in an alternating pattern around the adapter until all are snug.

NOTE: *If a screw begins to strip, stop tightening it. This won't harm the threads as long as the screw isn't tightened further.*

Step 3c: Roughen the bonding surfaces of the adapter and riser with sandpaper; then wipe the surfaces with a clean cloth and acetone.

Step 3d: Fill the riser channel with methacrylate adhesive. Smooth the adhesive.

Step 3e: If the riser has penetrations, align the riser correctly; then press it into the channel. Allow the adhesive to set up before performing watertightness testing.

Step 4: Perform Watertightness Test

NOTE: *Follow Roth's instructions for backfilling and watertightness testing. General guidelines for watertight testing are provided below.*
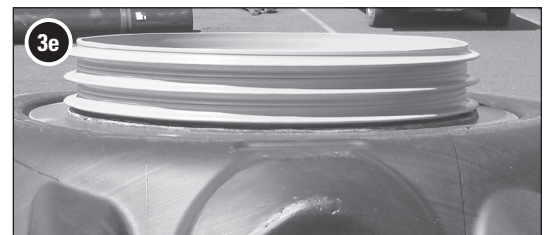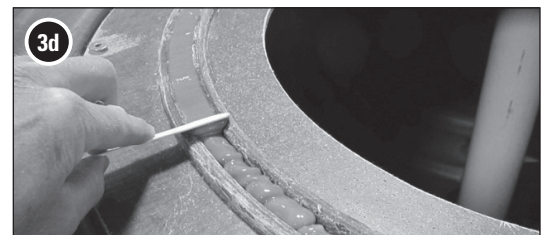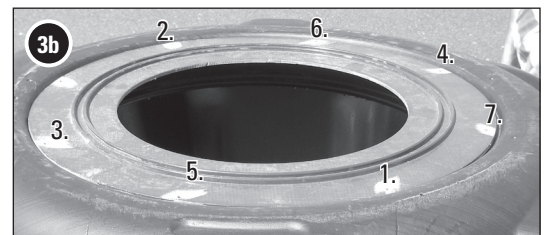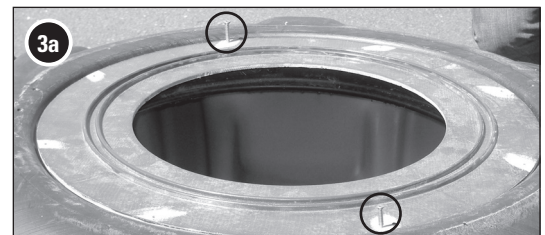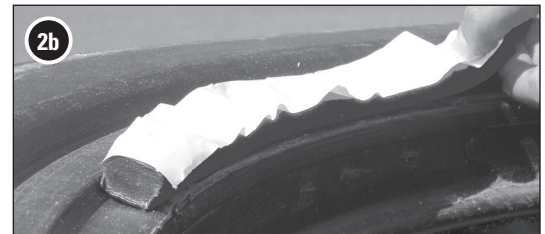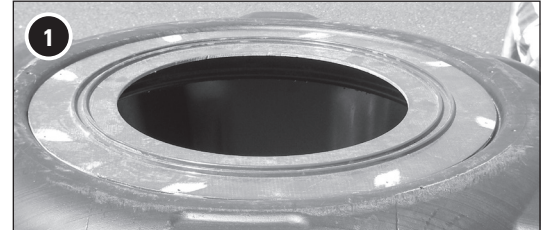
Step 4a: Make sure the tank has been backfilled according to Roth's instructions.

Step 4b: Plug the inlet (and outlet, if present) of the tank with watertight plugs.

Step 4c: Fill the tank with water to a level 2 inches (51 mm) into the riser.

Step 4d: Wait 30 minutes (or time designated by local regulations) before inspecting for leaks. At the end of the test, there should be no drop in liquid level and no visible leakage from any seams, pinholes, or other imperfections.

Step 4e: Once the tank is proven watertight, remove the plug(s) and drop the tank's water level to just below the lowest invert (inlet or outlet).
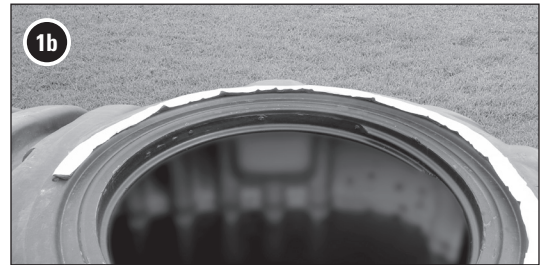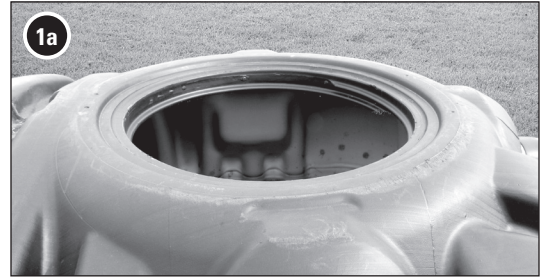
30-inch (750-mm) PRTA30 Adapters

Orenco's 30-inch (750-mm) PRTA30 bolt-down adapter kit includes an adapter, 10 stainless steel screws, and ¾-inch × ⅝-inch (19-mm × 16-mm) butyl sealant.

Step 1: Clean Tank Opening and Apply Sealant

Step 1a: Wipe around the tank opening with a clean cloth and acetone.

Step 1b: Apply a ring of the butyl sealant around the tank opening as shown (at the inside lip of the outer ring).
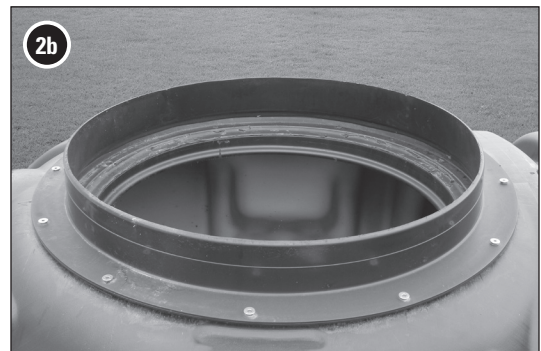
Step 2: Secure Tank Adapter

Step 2a: Remove the protective strip from the butyl tape; then carefully center the adapter over the tank opening and place it on the butyl tape.

Step 2b: Drive all of the screws into the tank until they are just barely snug; then tighten them in an alternating pattern around the adapter until all are snug.

NOTE: If a screws begin to strip, stop tightening it. This won't harm the threads as long as the screw isn't tightened further.

Step 3: Install Riser on Tank Adapter Sleeve

Step 3a: Apply a bead of methacrylate adhesive to outside of the adapter.

Step 3b: If the riser has penetrations, align the riser correctly; then firmly press down on the riser while twisting it slightly back and forth until the bottom of the riser is resting on the adapter flange.

Step 3c: Apply a bead of methacrylate adhesive to inside of the access riser-adapter joint; then use a putty knife, tongue depressor, or clean shop rag to make a continuous fillet on the inside of the access riser-adapter joint. Allow the adhesive to set up before performing watertightness testing.

Step 4: Perform Watertightness Test

NOTE: Follow Roth's instructions for backfilling and watertightness testing. General guidelines for watertight testing are provided below.

Step 4a: Make sure the tank has been backfilled according to Roth's instructions.

Step 4b: Plug the inlet (and outlet, if present) of the tank with watertight plugs.

Step 4c: Fill the tank with water to a level 2 inches (51 mm) into the riser.

Step 4d: Wait 30 minutes (or time per applicable local regulations) before inspecting the tank for leaks. At the end of the test, there should be no drop in liquid level and no visible leakage from seams, pinholes, or other imperfections.

Step 4e: Once the tank is proven watertight, remove the plug(s) and drop the tank's water level to just below the lowest invert (inlet or outlet).