**WARNING**

**DO NOT AIR PRESSURE TEST UNIT!**
Doing so may result in property damage, serious bodily injury, or death!

Refer to Installation Instructions for Correct Testing Procedure.

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**Sheet Descriptions**

- Sheet #1 - Series overview and Warranty information
- Sheet #2 - Below Grade installation guidelines
- Sheet #3 - Above Grade installation guidelines and Operation/Maintenance guidelines
- Sheet #4 - TeleGlide Riser installation guidelines

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**Leak/Seal Testing**

**DO NOT AIR TEST UNIT OR TELEGLIDE RISER SYSTEM!** Doing so may result in property damage, personal injury or death.

**Base Unit:**
To perform a leak/seal test on the base unit, cap/plug all plumbing connections, remove the cover, and fill the unit with water just above the highest connection. Inspect unit and connections for leaks. Check water level at specific time intervals per local code.

**TeleGlide Riser System:**
If required by local code, the riser system may be leak/seal tested similar to the base unit. **CAUTION:** the riser(s) must be supported before testing to keep from tipping over. Once the system is in place and properly supported, cap/plug all plumbing connections on the main unit, remove the cover from the top of the riser assembly and fill the unit and riser system with water to finished grade level. Carefully, as the riser(s) will be very heavy from the weight of the water, inspect all gasket(s) and clamps (if applicable) for any leaks. Check water level at specific time intervals per local code.

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**Overview**

Striem Chemical Waste Tanks are designed to dilute or neutralize corrosive liquid waste, making it acceptable for the sanitary sewer system. Striem Chemical Waste Tanks are made of High Density Polyethylene (HDPE) or Polypropylene (PP) and customized to meet specifier requirements.

**Venting**

**Limestone**

When using limestone as a neutralizing agent, it is essential to use the correct size and type of limestone. Striem recommends limestone that is 2" to 3" in size, and has a Calcium Carbonate content of 90% or greater (Striem can supply limestone that meets these requirements).

**Lifetime Warranty**

Effective March 2, 2015 Striem represents and warrants that HDPE and PP products (“Products”) will be free from any and all defects in material and workmanship, including corrosion, during the lifetime of the plumbing system in which the Products were originally installed and will, at its option, agree to repair, replace, or supply credit to the original purchaser.

This warranty does not cover damage caused by the Products’ normal usage, or wear and tear, nor does it cover damage from naturally occurring phenomenon, including, but not limited to UV, freeze-related damage, or natural disasters. This warranty does not cover the purchaser’s cost of routine maintenance including replacement of parts required in routine maintenance.

This warranty does not cover fabricated steel products, or any monitoring equipment. This warranty shall be effective if, and only if, the Products:

* Were installed in accordance with Striem’s notes, specifications and instructions, for installation, operation, and maintenance;
* Have not been subjected to misuse or abuse, whether negligent or intentional;
* Have not been subjected to misuse or abuse, whether negligent or intentional;
* Have never been modified, repaired, or altered by any individual(s) not authorized by Striem.

This warranty is the purchaser’s sole and exclusive remedy, and acceptance of this exclusive remedy is a condition of the contract for the purchase of these Products. In no event shall Striem be liable for any incidental, special, consequential or punitive damages, or for any costs, attorney fees, expenses, losses or delays claimed to be a consequence of any damage to, failure of, or defect in any products including, but not limited to, any claims for loss of profit, transportation, removal and installation charges. This warranty is exclusive and in lieu of all other warranties or conditions, written or oral, expressed or implied.

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**NOTES:**

Striem Neutralization Tanks are not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.
INTERIOR OR EXTERIOR BELOW GRADE INSTALLATION INSTRUCTIONS (NT SERIES)

BELOW GRADE INSTALLATION INSTRUCTIONS

EXCAVATION
1. Install unit(s) as close as possible to fixtures being served.
2. Width and length of excavation shall be minimum 12" greater than the tank on all sides.
3. Depth of excavation shall be 6" deeper than tank bottom.
4. Set the tank in well-packed crushed aggregate material approximately 3/4" size rock, or sand, with no fines.

INSTALLATION
1. Inspect unit for defects and make sure it meets specifier requirements. Make sure no damage has been done to tank or fittings during transportation.
2. Install tank as close to fixture(s) as possible, making sure there is enough room above and around tank for proper cleaning and maintenance.
3. Tank must be fully supported either by a concrete pad or compacted sand bed free of stone and strong enough to hold the unit weight and water capacity.
4. Connect Inlet, Outlet, and Vent connections. Polyethylene tanks are supplied with Polyethylene connections only. Polypropylene tanks are supplied with Polypropylene connections only. All tanks must be independently supported to avoid stress on fitting connections.
5. If multiple fixtures are being serviced, it is recommended that each fixture should be individually trapped and vented according to specifier requirements and state and/or local codes.
6. After piping in installed, inspect all pipe joints to ensure there are no leaks.
7. If required to conduct a pressure test on pipes, use expandable test plugs so that tank itself is not subjected to pressure. Do not pressure test unit!

BACKFILLING & FINISHED CONCRETE SLAB
1. Preparation of sub grade per geotech recommendations.
2. Stabilize and compact sub grade to 95% proctor.
3. Fill tank with water before backfilling to prevent float out during piping installation.
4. Before backfilling and pouring of slab secure cover(s) and riser(s) (if necessary) to the unit(s).
5. Backfill using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
6. Place 6" aggregate base under slab. Aggregate should be 3/4" size rock, or sand, with no fines.
7. Thickness of concrete around cover to be determined by specifying engineer. If traffic loading is required the concrete slab dimensions shown are for guideline purposes only.
8. Concrete to be 28 day compressive strength to 4000 PSI.
9. No. 4 rebar (1/2") grade 60 steel per ASTM A615: connected with tie wire.
10. Rebar to be at 1/2" from edge of concrete.
11. Rebar spacing 12" grid. 4" spacing around access openings.
12. All pipe penetrations to be sleeved or have slip connections.

FOR UNIT DETAILS SEE SPECIFICATION SHEET FOR SELECTED UNIT (CONNECTING PIPE AND FITTINGS BY OTHERS)

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DESCRIPTION:
NT INSTALLATION GUIDE

SHEET NUMBER: 2 of 4

DWG BY: KS  DATE: 10/11/16  REV: ECO:
ABOVE GRADE INSTALLATION INSTRUCTIONS
(NT SERIES)

For unit details see specification sheet for selected unit

(INSTANT PIPE and fittings by others)

SIDE VIEW DETAIL

Concrete slab

Flow

Flow

INSTALLATION
1. Inspect unit for defects and make sure it meets specifier requirements. Make sure no damage has been done to tank or fittings during transportation.
2. Install tank as close to fixture(s) as possible, making sure there is enough room above and around tank for proper cleaning and maintenance.
3. Tank must be fully supported by a concrete pad strong enough to hold the unit weight and water capacity.
4. Connect Inlet, Outlet, and Vent connections. Polyethylene tanks are supplied with Polyethylene connections only. Polypropylene tanks are supplied with Polypropylene connections only. All tanks must be independently supported to avoid stress on fitting connections.
5. If multiple fixtures are being serviced, it is recommended that each fixture should be individually trapped and vented according to specifier requirements and state and/or local codes.
6. After piping in installed, inspect all pipe joints to ensure there are no leaks.
7. If required to conduct a pressure test on pipes, use expandable test plugs so that tank itself is not subjected to pressure.

TROUBLESHOOTING TIPS:
Slow drainage is course for immediate inspection! Call a professional contractor for assistance.

Call Striem for details on tank specifications.

MAINTENANCE
1. Remove cover(s).
2. For best maintenance contact a professional sewer and drain contractor. Proper maintenance is essential to keep Neutralization Tank in proper working order. Debris entering the tank from sink or lab station may plug invert or foul neutralizing agent. If limestone is to be used as a neutralizing agent, the limestone will be depleted as it works to neutralize the incoming effluent. Once the limestone is depleted, the tank should be cleared of sludge, sediment, and debris before adding new neutralizing agent. A qualified professional should be responsible for analysis of effluent, inspection, maintenance, and replacement of neutralizing agent.
3. Observe a regular schedule of maintenance. Start by inspecting the new system every month to three months until a proper schedule can be established. Frequency will depend on tank capacity and content of chemical waste passing through the system.
4. Debris and sludge must be cleaned out periodically to allow free flow of water through tanks. If it is determined that the Neutralization Tank or System will encounter large amounts of debris or sediment, specify a Striem Solids Interceptor.
5. As the limestone is depleted, the tank should be cleared of sludge, sediment, and debris before new neutralizing agent is added. When limestone begins to foul, it often dissipates into a muddy substance and the level of the stone will begin to recede. When the stone is mostly fouled, the tank should be flushed with fresh water, the fouled debris removed from the tank, the tank cleaned, and new limestone added.

OPERATION:
Striem NT Series tanks are designed to neutralize or dilute (based on specific requirements) chemical wastewater and bring it to a more neutral state, rendering it acceptable for local wastewater treatment facilities. The most common neutralization situation occurs when acidic waste is filtered through a neutralizing media, most often a specific size and composition of limestone.

Wastewater flows through the inlet connection and is forced to the bottom of the unit via inlet invert pipe or diptube. For neutralization tanks, the wastewater is then filtered through a neutralizing agent (Limestone with a Calcium Carbonate level of 90% or better is most common) and then exits the chemical waste tank through the outlet. For dilution tanks, intermittent chemical waste moves through a majority water solution from previous batches and then exits the chemical waste tank through the outlet.

NOTES:
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DESCRIPTION:
NT INSTALLATION GUIDE

06/01/15
RS
REV
ECO

SHEET NUMBER: 3 of 4

Striem Neutralization Tanks are not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions.
Tools Needed:
- Tape measure
- Regular or cordless drill with 1/2" chuck

Tools needed if Riser(s) require cutting:
- Shears or scissors
- Reciprocating saw

Riser Assembly Instructions/Steps:
1. If unit is to be installed on grade (on-the-floor), there is no need for any adjustments. Unit is ready to be put into service.
2. If unit is to be buried: Once unit is set so that the pipe connections line up with jobite piping, measure total riser height needed from top of cover to finished grade. Make sure you include any future floor work, etc. that may be installed in your finished grade measurements. See figure 1.
3. Select according riser(s) needed based off Table 1.
4. If riser(s) is needed, remove cover(s) from adapter and remove adapter from main unit by loosening upper clamp with included nut driver bit (lower band is factory set do not adjust or remove). On the floor near the unit, insert adapter into first riser until it stops. If needed, insert bottom of first riser into top of second riser until it stops. You may need to tighten upper clamps during this step to keep risers from shifting. Adapter(s) and riser(s) should sit level with each other. Removal of cover during this process will ease assembly.
5. From the top of the adapter, measure your needed total riser height downward to the sidewall of the riser. Then, add 21-1/2" (15-1/2" + 6" = 21-1/2"). See Figure 2.
6. To refer To Table 2 and Table 3 to determine if, and where, any cuts need to be made. If a cut needs to be made, make a circular line around the sidewall of the riser with the included silver marker at your riser height +dimension from step 5. Using a jigsaw, circular saw or reciprocating saw, cut along your line. Discard/recycle the cutoff scrap.
7. If unit is to be installed in the main unit from the top of the gasket. Your mark from step 7 should be at the top edge of the gasket on the main unit. If measurements were made correctly, this should happen automatically. See figure 4.
8. If tilting of the adapter is required to be flush with finished grade, it must be done AFTER all clamps have been tightened with riser(s)/adapter in a vertical and level position. Tilting is achieved by using the flexibility of the gasket. If tilting is done before clamps are tightened, a perfect gasket seal may be compromised. Striem recommends tilting only the adapter versus the riser(s). If a cut needs to be made, make a circular line around the sidewall of the riser with the included silver marker at your riser height +dimension from step 5. Using a jigsaw, circular saw or reciprocating saw, cut along your line. Discard/recycle the cutoff scrap.
9. Select according riser(s) needed based off Table 1.
10. Verify that the bottom of the lowest riser is protruding at least 2-1/2" but no more than 4" into the riser, still mark the sidewall of the riser 4 INCHES above where your riser height +dimension from step 5 was beyond the bottom edge of your riser, still mark the sidewall of the riser 4 INCHES above where your riser height +dimension from step 5 would have been. DO NOT cut this new line. Once the riser is inserted into the main unit, this new line will end up at the top of the gasket and will aid in re-assembly. See figure 3.
11. If a cut is needed, remove cover(s) from adapter and remove riser(s) from main unit starting from the lowest (cut) riser and working your way toward the finished floor level. Upper clamps at each gasket need to be loosened or removed to aid in assembly. Once riser(s)/adapter is inserted into gasket, upper clamp can be tightened.
12. Tighten all clamps at a minimum of 5 and a maximum of 8 ft lbs. of torque. Use the same torque for all clamps. Torque should be maintained.
13. If jobsite riser height conditions change after the above steps have been completed, there may still be room for vertical adjustment in both directions. As long as minimum and maximum overlaps are maintained (see Figure 4), the adapter/riser(s) can be adjusted as many times as necessary. Please follow these steps from the beginning to ensure the proper overlaps are maintained.

Call Striem with questions or suggestions @ 1-913-222-1500 Customer Service Hours: 8 AM-5 PM CST

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