BB-275
DECONTAMINATION TANK
Installation, Operation, & Maintenance Guide

913-222-1500 HELP@STRIEMCO.COM STRIEMCO.COM

CUSTOMER SERVICE HOURS: 8 AM - 5 PM CST

6/9/25

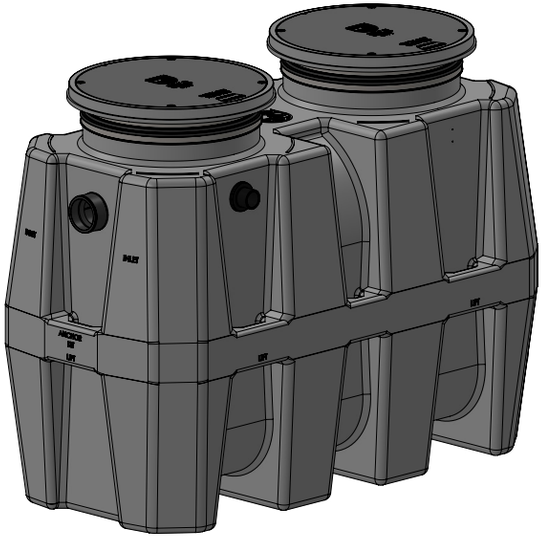
STRIEM

BB-275
DECONTAMINATION TANK
Installation, Operation, & Maintenance Guide

OVERVIEW
Bio Basin™ model BB-275 is a 250 gallon polyethylene decontamination tank intended for above- or below-grade installation. It is designed to offer a safe and economical way to contain potentially hazardous liquid waste.

OPERATION
Biological or contaminated liquid waste enters through the inlet connection where it is safely stored for testing, pumping, or to be released into the public sewer system after being determined suitable for evacuation.

LIFETIME WARRANTY
Our products are designed to last the lifetime of the plumbing system in which they are installed. If they don't, we will repair or replace them at no charge. Product damage due to normal wear and tear may be repaired or replaced at a reasonable charge. See website for full details.



BB-275
BIO BASIN SERIES
250 GALLON
DECONTAMINATION TANK

LIFETIME GUARANTEED

MADE IN THE USA
* BUILT in * KANSAS CITY

WARNING AIR

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.

LEAK/SEAL TESTING

Do not air test unit or Teleglide Riser system! Doing so may result in property damage, personal injury or death.

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.

MAINTENANCE

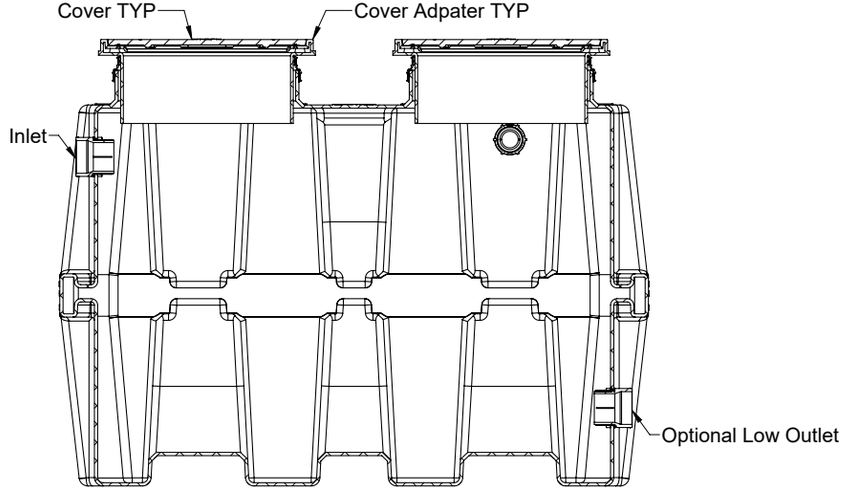
1. Always take proper care to ensure a safe and healthy environment while maintaining the decontamination tank.
2. Remove covers.
3. If the decontamination tank is not equipped with an outlet, then contact a professional pumper contractor to remove and dispose of the contents in the decontamination tank.
4. If the decontamination tank is equipped with an outlet, then verify the wastewater is acceptable to pass to the sewer system prior to evacuating the decontamination tank.
5. Inspect cover gaskets for wear and tear and reinsert covers.
6. Dispose of contents per local code.

MAINTENANCE FREQUENCY

BB-275 must be maintained prior to reaching maximum capacity. Tank is considered to be at maximum capacity when liquid waste is at or near inlet connection. Maintenance procedure varies based on outlet options. Maintenance frequency depends on the frequency and amount of wastewater introduced to the system. Monitor wastewater levels to determine site specific maintenance schedule requirements.

TROUBLESHOOTING TIPS

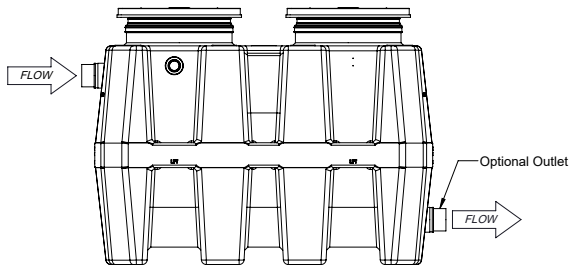
Slow drainage is cause for immediate inspection! Required maintenance depends on outlet option. Call a professional contractor for assistance. Call Striem for details on tank specifications.



ABOVE GRADE INSTALLATION INSTRUCTIONS

UNIT INSTALLATION

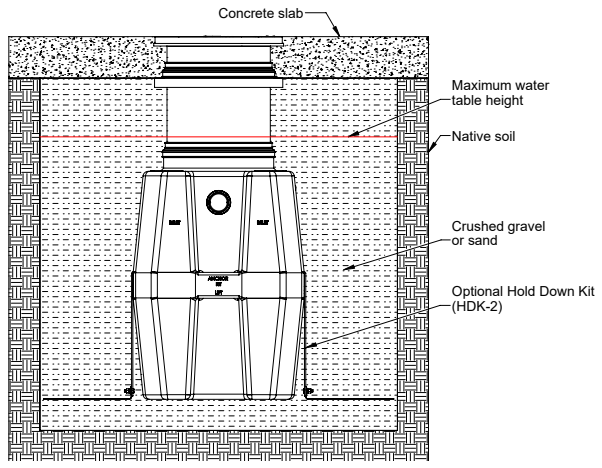
1. Connect waste piping to unit via mechanical coupler.
2. Ensure covers are properly installed.



BELOW GRADE INSTALLATION INSTRUCTIONS

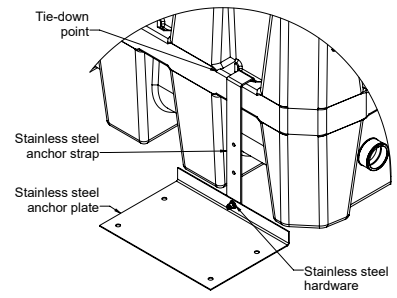
EXCAVATION

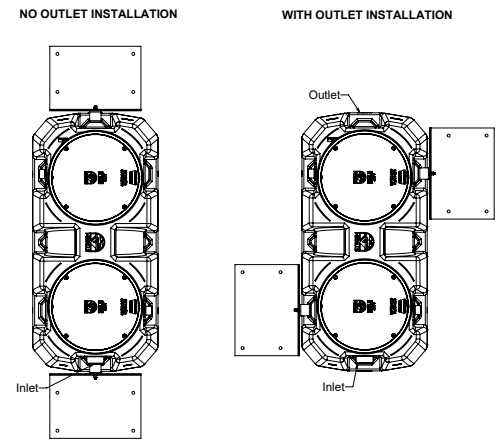
1. Surrounding soil must be undisturbed soil or well compacted engineering fill.
2. Width and length of excavation shall be minimum 12" greater than the tank on all sides. If using HDK-2, width and length of excavation shall be minimum 18" greater than the tank on all sides.
3. Depth of excavation shall be 6" deeper than tank bottom.
4. Hold Down Kit is recommended for installations in high water table conditions to prevent float out. To be determined by specifying engineer. If necessary, order optional "High Water Table Hold Down Kit (HDK-2)". *See detail adjacent.*



HOLD DOWN KIT INSTALLATION STEPS

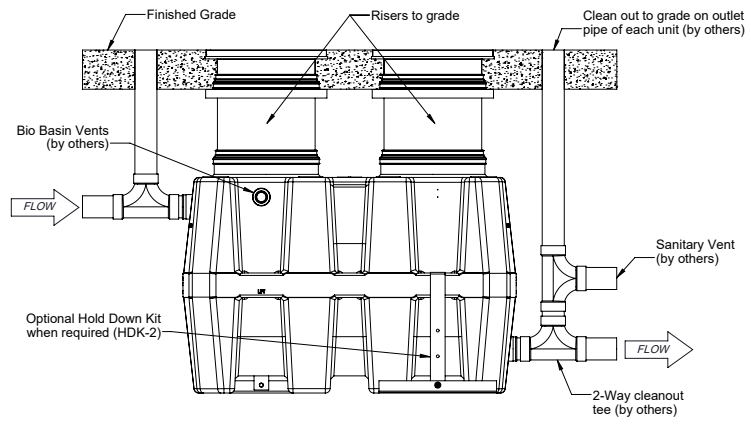
1. Slide Anchor Strap over tie down point on tank wall.
   - For units with no outlet, place the HDK-2 on the endwalls as shown in NO OUTLET INSTALLATION.
   - For units with an outlet, place the HDK-2 on the sidewalls as shown in WITH OUTLET INSTALLATION.
2. Bolt "Anchor Strap" to "Anchor Plate" using provided hardware.
3. Hold down force achieved by backfill weight acting on Anchor Plate.
4. Anchor Plate may be bolted to concrete slab, if required, by using holes provided in Anchor Plate.





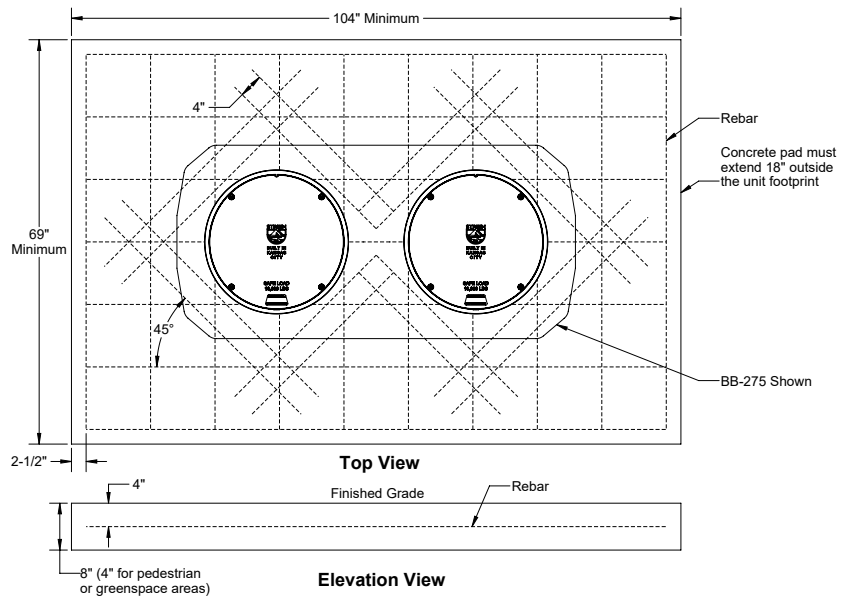
UNIT INSTALLATION

1. Lower and center the unit into the excavated hole. Do not use chains or accessways to move the unit.
2. The water table must not exceed the tank height prior to the addition of risers.
3. Ensure the unit cover is level with finished grade.
4. Fill BB-275 with water before backfilling to stabilize the unit and prevent float out during backfilling.
5. After unit has been properly installed, evacuate water from BB-275 to prepare for contaminated wastewater.
6. Maximum burial depth: 90" from standard cover height.



BACKFILLING & FINISHED CONCRETE SLAB

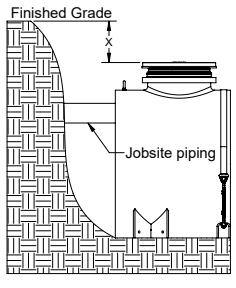
1. Preparation of sub grade per geotech recommendations.
2. Stabilize and compact sub grade to 95% proctor.
3. Before backfilling and pouring of slab, secure cover and risers (if used) to the unit.
4. Place 6" aggregate base under slab. Aggregate should be 3/4" size rock, or sand, with no fines.
5. Backfill using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
6. Thickness of concrete slab around the covers to be 8" for traffic loading. Thickness of concrete slab around the covers to be 4" for pedestrian or greenspace areas.
7. Concrete slab cannot interfere with the tank body below the risers.
8. Concrete to be 28 day compressive strength to 4000 PSI with 6 ± 1% air entrainment.
9. NO. 4 rebar (1/2") grade 60 steel per ASTM A615: connected with tie wire.
10. Rebar to be 2-1/2" from edge of concrete.
11. Rebar spacing 12" grid. 4" spacing around access opening.



TELEGLIDE RISER | INSTALLATION INSTRUCTIONS

1

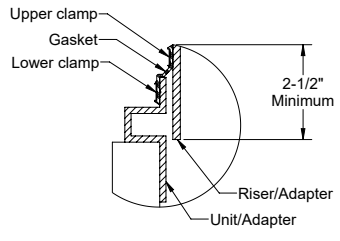
- Place BB-275 so that the pipe connections line up with jobsite piping.
- Measure dimension X to determine riser height needed.
- Select the required risers from the adjacent table. Riser chart shows quantity for each tank manway.



Cover Adapter		
X from Standard Cover Height	**X from Cover with Monitoring**	**Risers Per Manway**
Up to 5"	Up to 2"	Included
Up to 24"	Up to 21"	SR24
Up to 39"	Up to 36"	LR24
Up to 43"	Up to 40"	SR24 (x2)
Up to 58"	Up to 55"	SR24 + LR24
Up to 72"	Up to 69"	LR24 (x2)
Up to 90"	Up to 87"	SR24 (x2) + LR24 (x2)

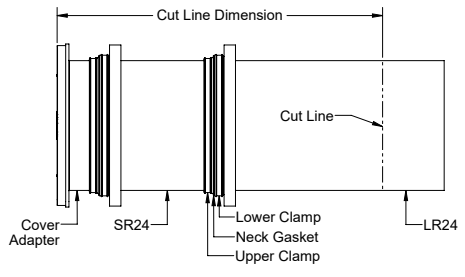
2

- Loosen upper clamp with **nut driver bit (included with tank).**
- If no risers are needed, adjust cover adapter height as needed.
- Ensure 2-1/2" minimum engagement is maintained.
- If risers are needed, remove covers from cover adapters, and cover adapters from the unit.



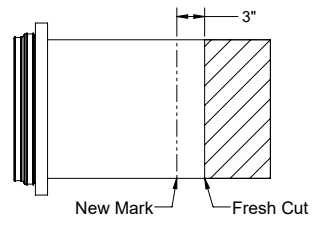
3

- Insert cover adapters into the required risers until they stop.
- Tighten upper clamp to keep risers from shifting. Risers are installed from short to long.
- Measure the riser height needed, **X + 5.25"** down the sidewall of the risers.
- Mark the location with **china marker (included with tank)**.
- If using a cover adapter with monitoring, measure the riser height needed, **X + 7.75"** down the sidewall of the risers.
- Cover adapter may need to be adjusted outward for some dimension ranges. If mark is at the end of riser, no cutting is required.



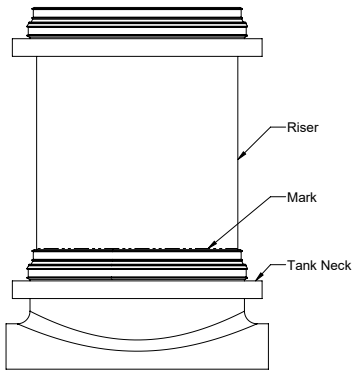
4

- Uninstall cover adapters and risers
- Extend mark made in **step 3** around the circumference of the riser.
- Cut along line with jigsaw, circular saw, or reciprocating saw.
- Make a mark around the circumference of the riser 3" from the cut end of riser.
- If no cuts were needed, make the mark 3" from the bottom of the bottom riser.



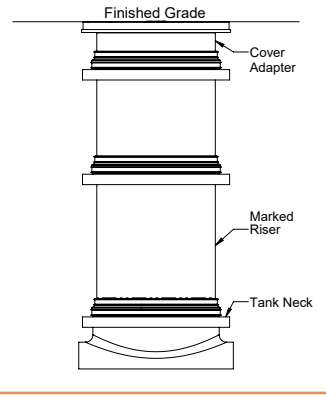
5

- Wipe clean all riser and cover adapter sidewalls.
- Insert the first riser into the tank neck until the mark made in **step 4** is in-line with the top of the neck gasket. This will ensure your risers reach the finished grade measured in **step 1**.



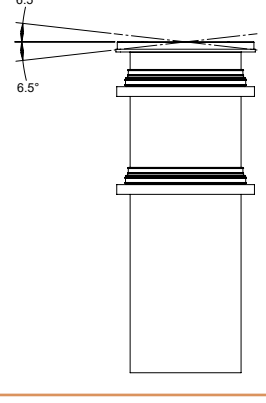
6

- Install risers and cover adapters into the tank neck starting from the marked riser, moving up to finished grade.
- Upper clamps may need to be loosened or removed to aid in assembly.



7

- Tighten all clamps. Striem recommends 57 in•lbs of torque.
- Reinstall covers on cover adapters.
- If tilting of the cover adapter is required to be flush with finished floor, it must be done after all clamps are tightened. A 6.5° tilt is the maximum.



8

- If jobsite riser height conditions change after the previous steps have been completed, there is still room for vertical adjustment.
- As long as the minimum engagement of 2-1/2" on all joints are maintained, the adapters and risers may be adjusted/cut as many times as necessary.