LAB BASIN NEUTRALIZATION TANKS

(Models LB-15, LB-25, LB-35, LB-50, LB-125, and LB-275)

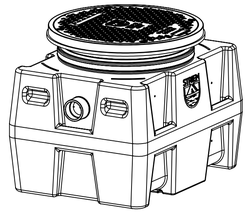
⚠ WARNING **AIR**

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.

LB-15
15 gallons

LB-25
21 gallons



LB-35
38 gallons

Sheet Descriptions

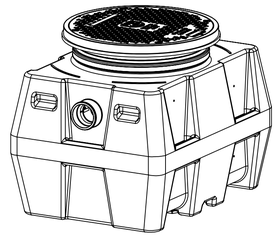
Sheet #1 - Series overview and Warranty information
Sheet #2 - General installation guidelines and Operation/Maintenance guidelines
Sheet #3 - Below Grade installation guidelines (LB-35, LB-50, LB-125, LB-275)
Sheet #4 - Below and Above Grade installation guidelines (LB-15, LB-25)
Sheet #5 - TeleGlide Riser installation guidelines (LB-35, LB-50, LB-125, LB-275)
Sheet #6 - TeleGlide Riser installation guidelines (LB-15, LB-25)

Leak/Seal Testing

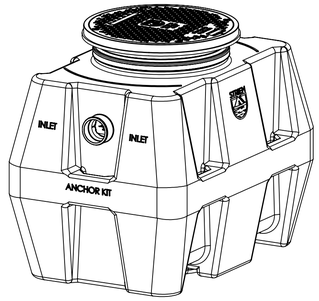
DO NOT AIR TEST UNIT OR TELEGLIDE RISER SYSTEM! Doing so may result in property damage, personal injury or death.

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 filling with water to keep from tipping over. Once the riser 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 the water level at specific time intervals per local code.



LB-50
57 gallons



LB-125
110 gallons

Lifetime Warranty

Effective March 2, 2015 Striem represents and warrants that polyethylene 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;
* Were installed in conformance with all applicable building and plumbing codes, and passed all applicable testing methods immediately following installation;
* Have not been subjected to misuse or abuse, whether negligent or intentional;
* Were never 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 as a consequence of any damage to, failure of, or defect in any products including, but not limited to, any claims for loss of profits, transportation, removal and installation charges. This warranty is exclusive and in lieu of all other warranties or conditions, written or oral, expressed or implied.

LB-275
250 gallons

NOTES:

Striem Lab Basins 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. Vent required on outlet pipe only if outlet diptube is present.

DESCRIPTION:

LAB BASIN SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE

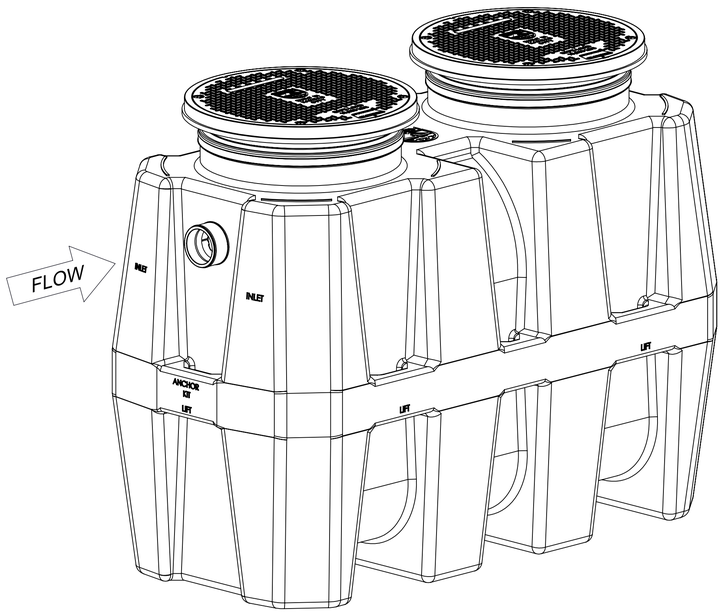
SHEET NUMBER: 1 of 6

DWG BY: MJ	**DATE:** 09/24/2019	**REV:**	**ECO:**

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

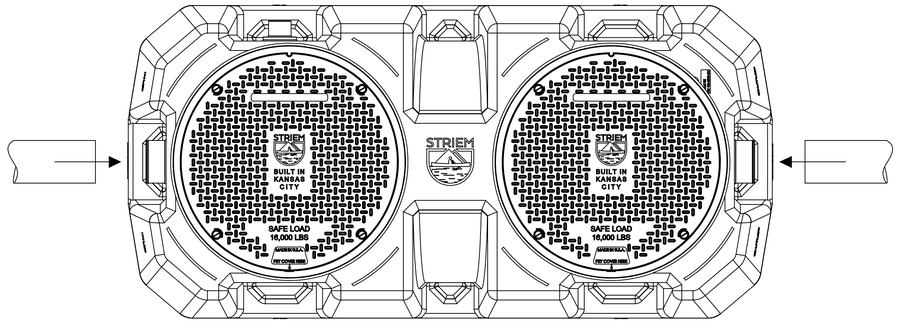
Made in the U.S.A

GENERAL NEUTRALIZATION TANK INSTALLATION INSTRUCTIONS
(LB-275 SHOWN)



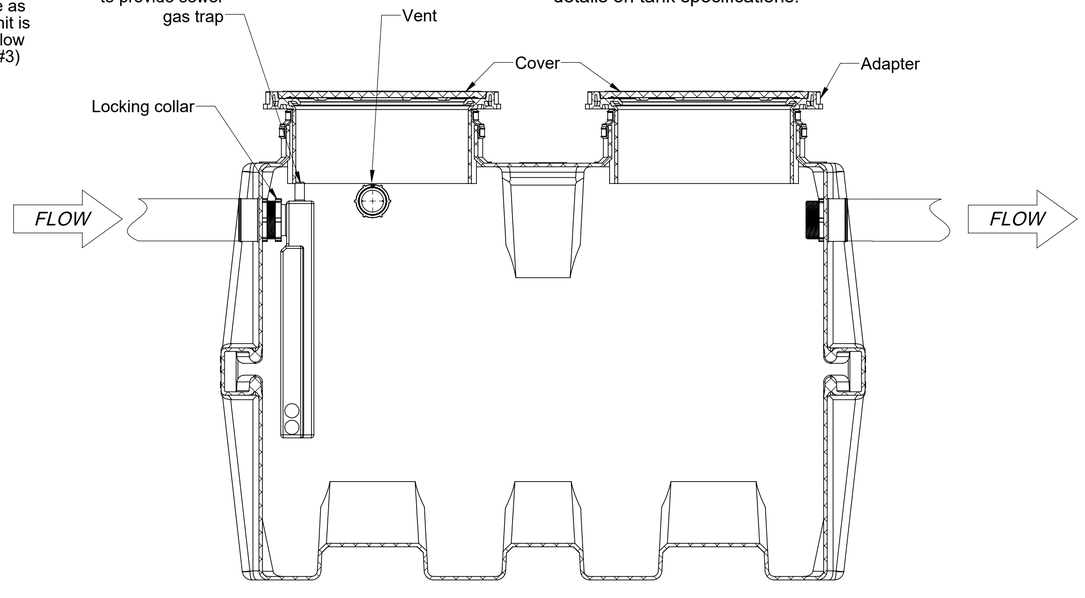
Isometric View

Set unit on level solid surface as close as possible to fixtures being served. If unit is to be installed below grade refer to below grade installation instructions. (sheet #3)



Top View

Connect inlet and outlet drainage lines to unit. Mechanically couple pipes to unit. **Do not solvent weld**.



LB-275 SHOWN

OPERATION:

Striem Lab Basins 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. Diffusion Flow design and extended flow path improve neutralization over traditional cylindrical tanks. The most common neutralization situation occurs when acidic waste is filtered through a neutralizing media, most often a specific size and composition of limetsone.

Wastewater flows through the inlet connection and is forced to the bottom of the unit via diffuser. 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 though 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.

MAINTENANCE

1. Remove the cover(s).
2. For the best maintenance contact a professional sewer and drain contractor. Proper mainentance is essential to keep the Neutralization Tank in proper working order. Debris entering the tank from a sink or lab station may plug the invert or foul the 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 the new neutralizing agent. **A qualified professional should be responsible for the 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. The frequency will depend on the tank capacity and the content of the chemical waste passing through the system.
4. Debris and sludge must be cleaned out periodically to allow the free flow of water through the tank. 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.

TROUBLESHOOTING TIPS:

Slow drainage is course for immediate inspection! Call a professional contractor for assistance. Call Striem for details on tank specifications.

NOTES:

Striem Lab Basins 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 Vent required on outlet pipe only if outlet diptube is present.

DESCRIPTION:

LAB BASIN SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE

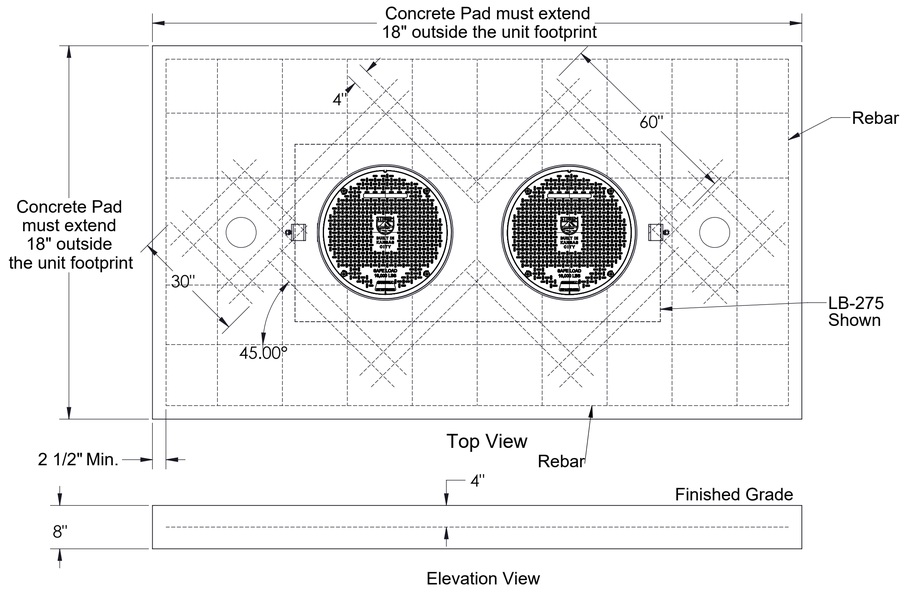
SHEET NUMBER: 2 of 6

DWG BY: MJ	**DATE:** 09/24/2019	**REV:**	**ECO:**

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

Made in the U.S.A

INTERIOR OR EXTERIOR BELOW GRADE INSTALLATION INSTRUCTIONS
(LB-35 (INTERIOR ONLY), LB-50, LB-125, LB-275)



CONCRETE SLAB DETAIL FOR TRAFFIC LOADING
(INTERIOR OR EXTERIOR)
(LB-275 Shown)

BELOW GRADE INSTALLATION INSTRUCTIONS

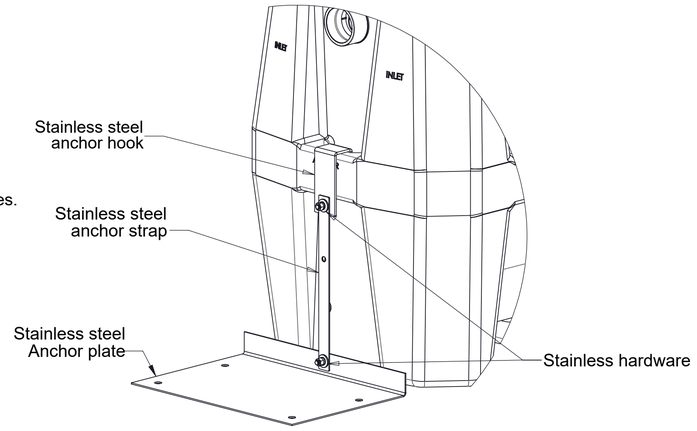
EXCAVATION

1. Install the unit(s) as close as possible to fixtures being serviced.
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.
5. Anchor kit is recommended for installations in high water table conditions to prevent float out. To be determined by specifying engineer. If necessary, order optional "Anchor Kit" (see detail right).

BACKFILLING & FINISHED CONCRETE SLAB

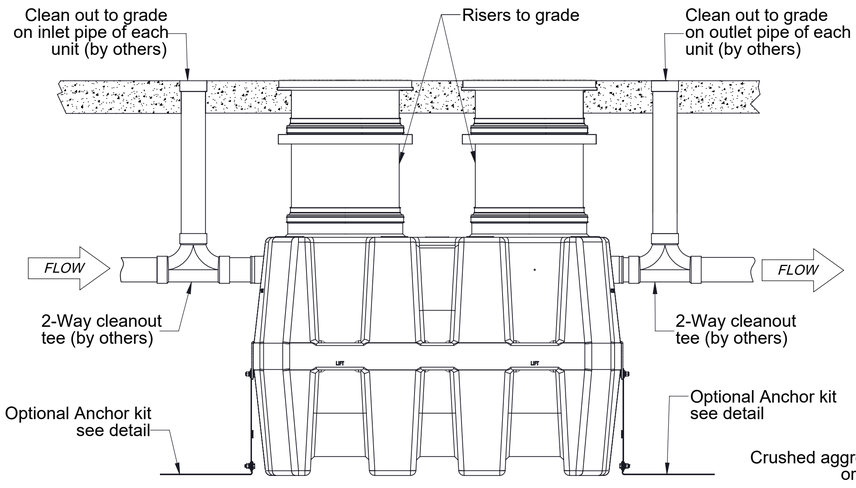
1. Preparation of sub grade per geotech recommendations.
2. Stabilize and compact sub grade to 95% proctor.
3. Fill the tank with water before backfilling to prevent float out during piping installation.
4. Before backfilling and pouring of slab secure cover(s) and riser/s (if necessary) to the unit(s)
5. Backfill using crushed aggregate material approximately 3/4" size rock, or sand, with no fines.
6. Place 6" of 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 2 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.

ANCHOR KIT INSTALLATION DETAIL



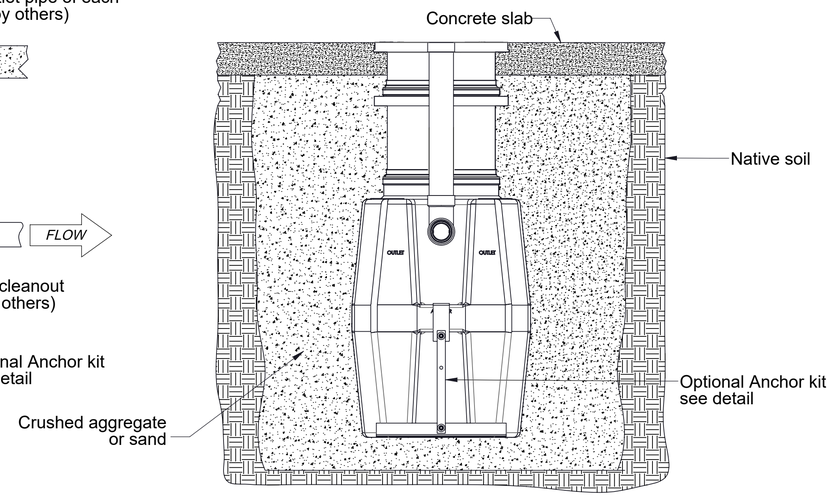
Anchor Kit Installation Steps

1. Slide "Anchor Hook" over tie down point on end wall and bolt to Anchor Strap.
2. Bolt "Anchor Strap" to "Anchor Plate" using provided hardware
3. For LB-50, Anchor Strap must be cut and shortened on-site to avoid piping.
4. Hold down force achieved by backfill weight acting on Anchor Plate.
5. Anchor Plate may be bolted to concrete slab, if required, by using holes provided in Anchor Plate.



SIDE VIEW DETAIL

For unit details see specification sheet for selected unit
(Connecting pipe and fittings by others)



EXCAVATION AND BACKFILL DETAIL
(INTERIOR OR EXTERIOR)

NOTES:

Striem Lab Basins 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. Vent required on outlet pipe only if outlet diptube is present.

DESCRIPTION: LAB BASIN SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE			
SHEET NUMBER: 3 of 6			
DWG BY: MJ	**DATE:** 09/24/2019	**REV:**	**ECO:**

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

Made in the U.S.A

STRIEM

INTERIOR BELOW GRADE INSTALLATION INSTRUCTIONS (LB-15, LB-25)

EXCAVATION

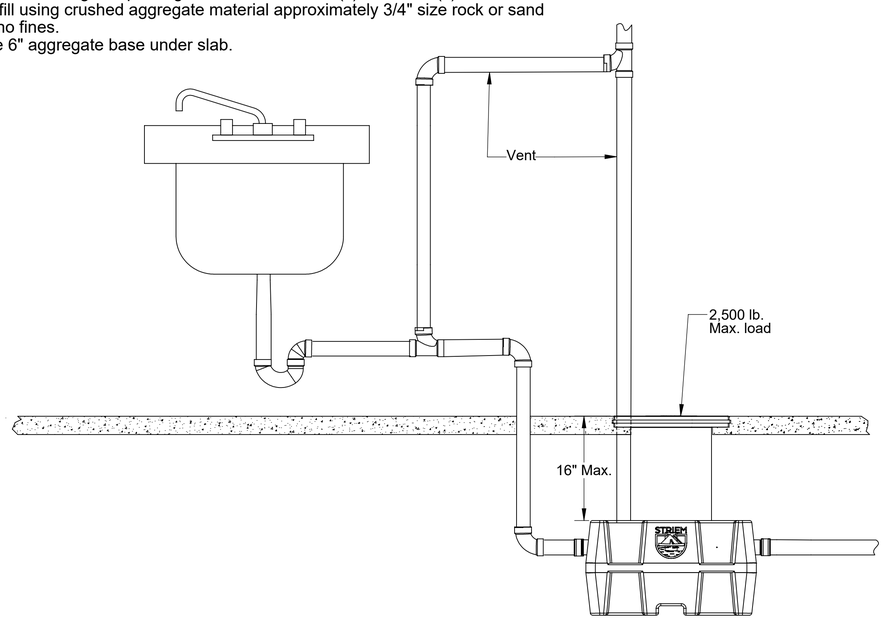
1. Install unit(s) as close as possible to fixtures being serviced.
2. Width and length of excavation shall be minimum 6" greater than the tank on all sides.
3. Depth of excavation shall be 6" deeper than tank bottom.
4. Set the tank in well-packed crushed aggregate material approximately 3/4" size rock,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

CONNECTIONS

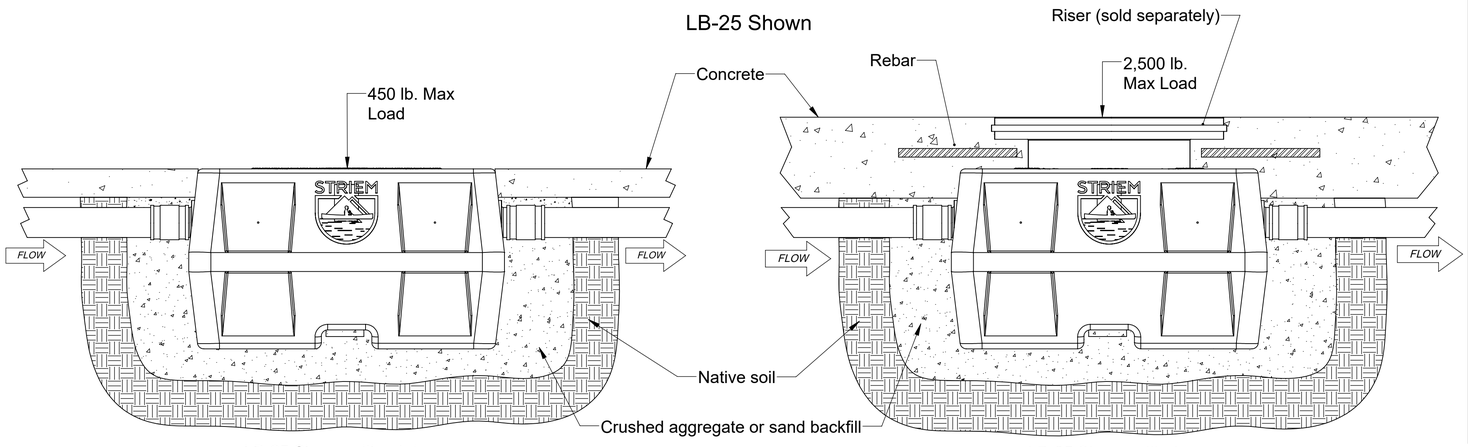
1. Connect waste piping to the unit.

BACKFILLING & FINISHED CONCRETE SLAB

1. Before backfilling and pouring of slab secure cover(s) to the unit(s).
2. Backfill using crushed aggregate material approximately 3/4" size rock or sand with no fines.
3. Place 6" aggregate base under slab.



LB-25 Shown



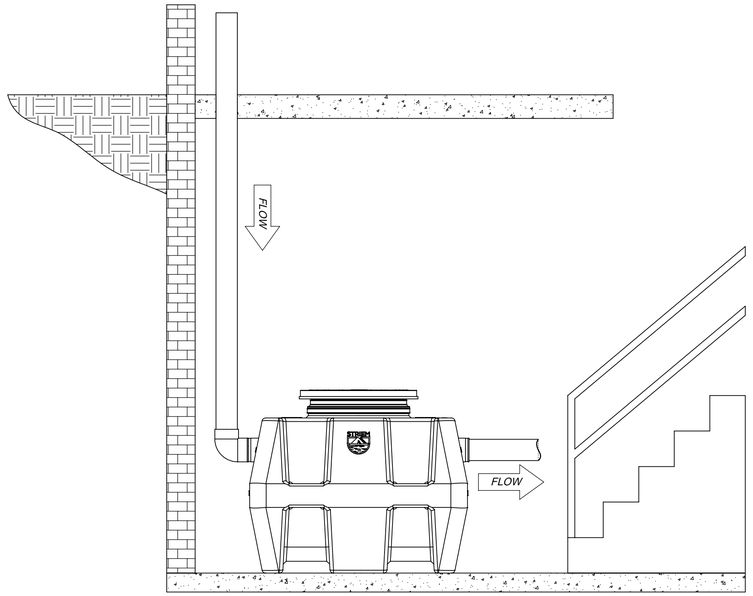
LB-25 Shown without riser

When the jobsite requires burying unit flush with floor without using a riser kit, maximum cover/unit top load rating is 450 lbs.

LB-25 Shown with riser

If concrete slab falls within body of unit, reinforce with rebar, extending 6" beyond footprint of unit to connect main floor slab.

INTERIOR ABOVE GRADE INSTALLATION INSTRUCTIONS (LB-15, LB-25, LB-35, LB-50, LB-125, LB-275)



ON-THE-FLOOR DETAIL

(LB-125 SHOWN)

CONNECTIONS

1. Install unit(s) as close as possible to fixtures/drains being serviced.
2. Connect waste piping to the unit.

NOTES:

Striem Lab Basins 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. Vent required on outlet pipe only if outlet diptube is present.

DESCRIPTION:

LAB BASIN SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE

SHEET NUMBER: 4 of 6

DWG BY: MJ	DATE: 09/24/2019	REV:	ECO:

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

Made in the U.S.A

TeleGlide Riser (24 Series) Installation Guidelines
(LB-35, LB-50, LB-125, LB-275)

Tools included (with base lab basin unit(s))
- 7/16" Nut driver tool/bit
- Silver permanent marker

Tools Needed:
- Tape measure
- Regular or cordless drill with 1/2" chuck

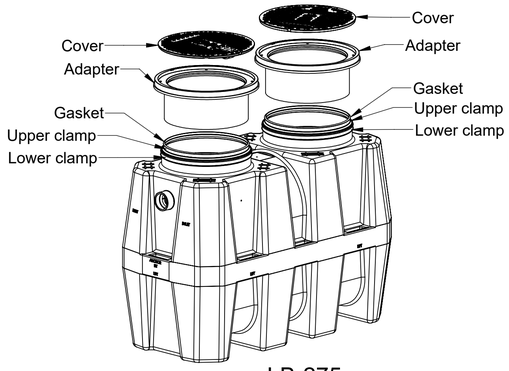
Tools needed if Riser(s) require cutting:
- Jigsaw or
- Cordless circular saw or
- Reciprocating saw

Riser Assembly Instructions/Steps:

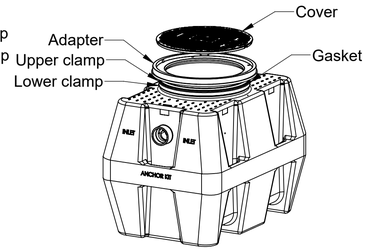
1. If the unit is to be installed on grade (on-the-floor), there is no need for any adjustments. The unit is ready to be put into service.
2. If the unit is to be buried: Once the unit is set so that the pipe connections line up with the jobsite piping, measure the total riser height needed from the top of the cover to finished grade. Make sure you include any future tile work, etc. that may be installed in your finished grade measurements. See figure 1.
3. Select the according riser(s) needed based off Table 1.
4. If riser(s) are needed, remove the cover(s) from the adapter and remove the adapter from the main unit by loosening the upper clamp with the included nut driver bit (lower band is factory set, do not adjust or remove). On the floor near the unit, insert the adapter into the first riser until it stops. If needed, insert the bottom of the first riser into the top of the second riser until it stops. You may need to tighten the upper clamps during this step to keep the risers from shifting. Adapter and riser(s) should sit level with each other. Removal of the 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 5" (for LB-35 or LB-50) or 6" (for LB-125, or LB-275). For example, if you have a LB-275 and need a 15-1/2" extension, you would measure down from the top of the adapter 21-1/2" (15-1/2" + 6" = 21-1/2"). See Figure 2.
6. Refer to Table 2, Table 3 or Table 3a 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. Whether the riser needs to be cut or not, make another mark with the silver marker on the sidewall of the riser a distance of 4 INCHES (3 INCHES for a LB-35 w/ 4" connections) above the edge just cut. If you did not make a cut (meaning your riser height + dimension from step 5 line 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 line would have been. DO NOT cut this new line. Once the riser is installed 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.
8. IMPORTANT: Before the next step: Make sure diffuser is installed inside the main unit at the appropriate location.
9. Refer to sheet 1 of the installation instructions for leak/water testing procedures.
10. Take riser(s) and adapters apart to reduce the weight during installation. Wipe all sidewalls and inside of gasket with a damp cloth to remove jobsite dust/debris. Install components into the 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.
11. Verify that the bottom of the lowest riser is protruding at least 2-1/2" but no more than 4" into 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.
12. 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)/adaptor 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 entire riser assembly to make sure your riser height is maintained.
13. Tighten all clamps to a minimum of 5 and a maximum of 8 ft lbs. of torque. Use the same torque as you would tighten a rubber no-hub coupling.
14. The adapter must be adjusted upward to achieve certain extension heights. See Table 2, Table 3 or Table 3a.
15. 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/cut 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

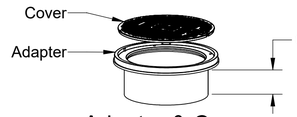
NOTES:
Striem Lab Basins are not to be installed in any other manner except as shown. Consult local codes for separate trapping requirements, cleanout locations and additional installation instructions. Vent required on outlet pipe only if outlet diptube is present.



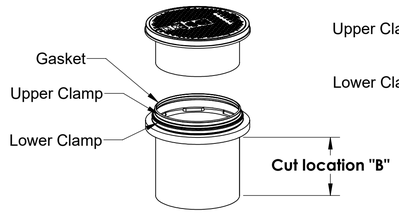
LB-275
(standard)



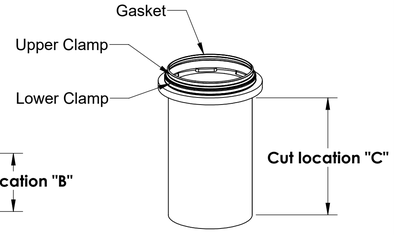
LB-35, LB-50,
LB-125 & LB-275
(standard)



Adapter & Cover
(standard component)



SR24
(short riser)
(optional component)



LR24
(long riser)
(optional component)

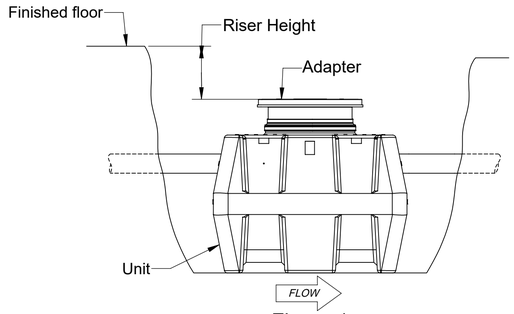


Figure 1

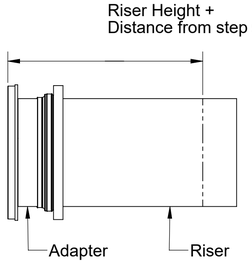


Figure 2

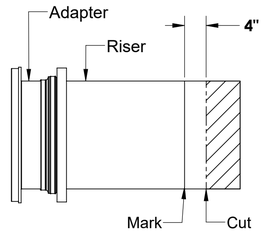


Figure 3

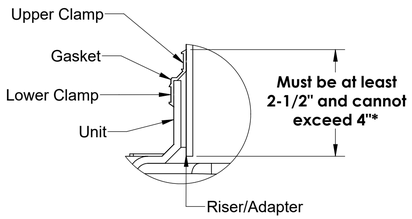


Figure 4
*3" for a LB-35 with 4" connections

Table 1
TeleGlide Riser Order Guide

LB-35 & LB-50			LB-35 w/ 4" Connections			LB-125			LB-275		
Riser Height	Riser Qty.		Riser Height	Riser Qty.		Riser Height	Riser Qty.		Riser Height	Riser Qty.	
	SR24	LR24		SR24	LR24		SR24	LR24		SR24	LR24
>3-1/2" to 22"	1	0	>2-1/2" to 21"	1	0	>6" to 24"	1	0	>6" to 24"	2	0
>22" to 37"	0	1	>21" to 36"	0	1	>24" to 39"	0	1	>24" to 39"	0	2
			Note: Available range of adapter only is 2-1/2".			>39" to 43"	2	0	>39" to 43"	4	0
						>43" to 58"	1	1	>43" to 58"	2	2
						>58" to 72"	0	2	>58" to 72"	0	4

Table 2
(for LB-125 and LB-275)

Riser Height Needed	Riser P/N Needed	Riser Qty. Needed		Cut Location(s)
		LB-125	LB-275	
0" to 6"	None	0	0	None
>6" to 8-1/4"	SR24	1	2	a,b
>8-1/4" to 19-3/4"	SR24	1	2	b
>19-3/4" to 24"	SR24	1	2	None[1]
>24" to 35"	LR24	1	2	c
>35" to 39"	LR24	1	2	None[2]
>39" to 43"	SR24	2	4	b
>43" to 51-1/2"	SR24	1	2	c
	LR24	1	2	
>51-1/2" to 58"	SR24	1	2	None[3]
	LR24	1	2	
>58" to 66-1/2"	LR24	2	4	c
>66-1/2" to 72"	LR24	2	4	None[4]

1. Adjust adapter upwards to reach 22" to 24"
2. Adjust adapter upwards to reach 37" to 39"
3. Adjust adapter upwards to reach 56" to 58"
4. Adjust adapter upwards to reach 70" to 72"

Table 3
(for LB-35 and LB-50)

Riser Height Needed	Riser P/N Needed	Riser Qty. Needed	Cut Location(s) (See figures above)
0" to 3-1/2"	None	0	None
>3-1/2" to 6-1/2"	SR24	1	a,b
>6-1/2" to 17"	SR24	1	b
>17" to 22"	SR24	1	None[5]
>22" to 32"	LR24	1	c
>32" to 37"	LR24	1	None[6]

5. Adjust adapter upwards to reach 20" to 22"
6. Adjust adapter upwards to reach 35" to 37"

Table 3a
(for LB-35 w/ 4" Connections)

Riser Height Needed	Riser P/N Needed	Riser Qty. Needed	Cut Location(s) (See figures above)
0" to 2-1/2"	None	0	None
>2-1/2" to 5-1/2"	SR24	1	a,b
>5-1/2" to 16"	SR24	1	b
>16" to 21"	SR24	1	None[7]
>21" to 31"	LR24	1	c
>31" to 36"	LR24	1	None[8]

7. Adjust adapter upwards to reach 19" to 21"
8. Adjust adapter upwards to reach 34" to 36"

DESCRIPTION:
LAB BASIN SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE

SHEET NUMBER: 5 of 6

DWG BY: MJ	DATE: 09/24/2019	REV:	ECO:

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

Made in the U.S.A

TeleGlide Riser (16 Series) Installation Guidelines
(LB-15, LB-25)

Tools included (with riser kit)

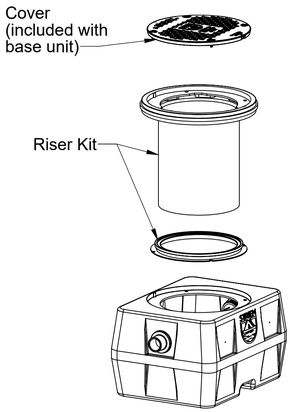
- Silver permanent marker

Tools Needed:

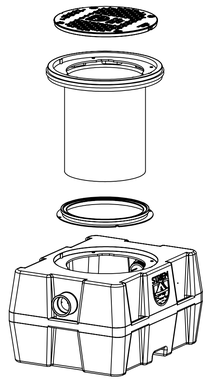
- Tape measure
- Phillips head screwdriver
- Jigsaw or
- Cordless circular saw or
- Reciprocating saw

Riser Assembly Instructions/Steps:

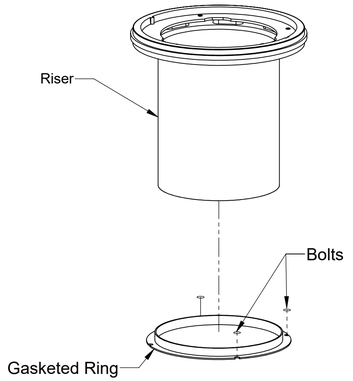
1. If the unit is to be buried, you will need a riser kit (sold separately). The 16 Series TeleGlide Riser System for these models allows riser heights from 2-1/8" above standard unit up to 16". Only ONE riser may be used per base unit to allow sufficient access to internal serviecable components. See Figure 5.
2. If more than 16" of riser height is needed, you will need to adjust jobsite requirements OR purchase the next available model with a 24 Series TeleGlide Riser System which allows taller riser heights.
3. Once the unit is set so that pipe connections line up with jobsite piping, remove the cover from the unit. Fasten the yellow gasketed ring to the unit with hardware provided in separate riser kit. The ring flange with 4 bolt notches faces down against the unit. See Figure 1.
4. Push the riser into the ring until it stops (about 1 inch). See Figure 2.
5. Measure the distance from the top edge of the riser down to the finished floor. Make sure to account for any future tile work in your measurment. See Figure 2.
6. Remove the riser from the ring. Take the measurement from step 5 from the BOTTOM of the riser upwards towards the top of the riser. Mark a line around the riser, and cut with a handsaw, jig saw, or reciprocating saw. Remove the debris from the cut edge with a scraper, utility knife, or gloves. See Figure 3.
7. Place the cut riser back into the ring on the unit until it stops. Fasten the cover from unit into riser with the same 4 bolts from the unit. The unit is ready to be water tested and backfilled. Install finished floor. See Figure 4.



LB-15



LB-25



SR16 Riser Kit
(Sold Separately)

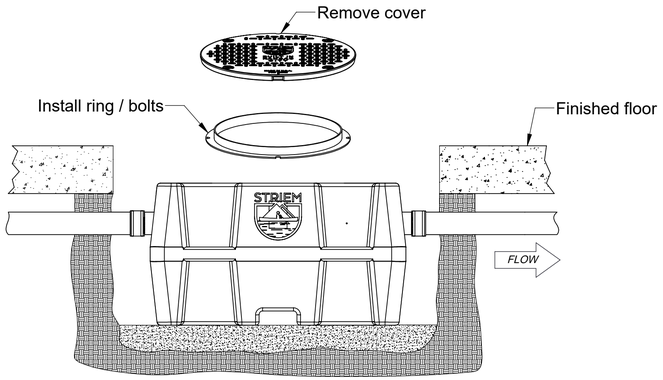


Figure 1

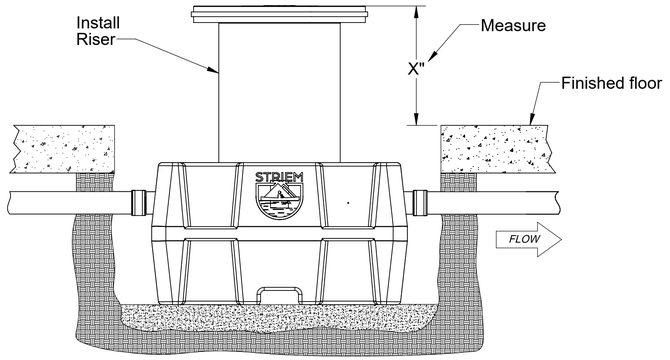


Figure 2

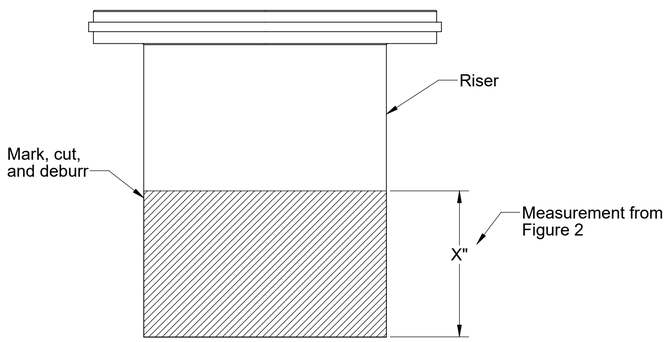


Figure 3

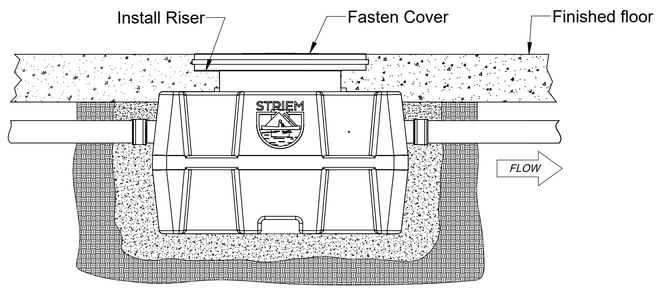
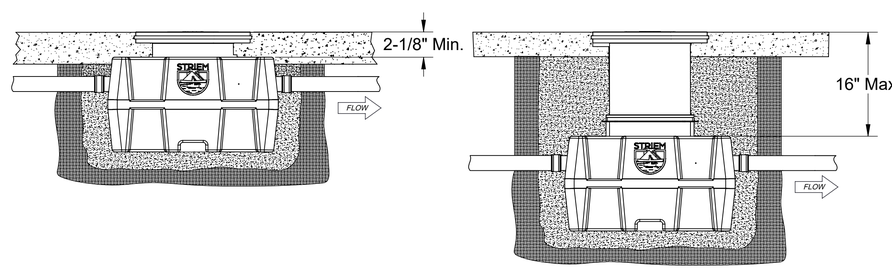


Figure 4



Minimum and maximum riser heights when units are buried.

Figure 5

NOTES:

Striem Lab Basins 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. Vent required on outlet pipe only if outlet diptube is present.

DESCRIPTION: LAB BASIN SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE			
SHEET NUMBER: 6 of 6			
DWG BY: MJ	**DATE:** 09/24/2019	**REV:**	**ECO:**

Striem
3100 Brinkerhoff
Kansas City, KS 66115
Tel: 913-222-1500
Fax: 913-291-0457
www.striemco.com

Made in the U.S.A