PROSPECTOR SERIES SOLIDS INTERCEPTORS

(PS-SERIES)

Sheet Descriptions

Sheet #1 - Series overview and Warranty information

Sheet #2 - General installation guidelines and Operation/Maintenance guidelines

Sheet #3 - Below Grade installation guidelines (PS-35, PS-50, PS-125, PS-275)

Sheet #4 - Below and Above Grade installation guidelines

Sheet #5 - TeleGlide Riser installation guidelines (PS-35, PS-50, PS-125, PS-275)

Sheet #6 - TeleGlide Riser installation guidelines (PS-15, PS-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 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 water level at specific time intervals per local code.

Lifetime Warranty

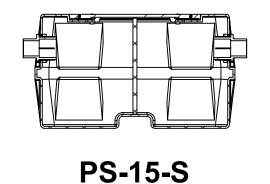
Effective March 2, 2015 Striem represents and warrants that polyethylene products will be free from any and all defects in material and workmanship, including corrosion, during the lifetime of the plumbing system in which the products were originally installed and will, at its option, agree to repair, 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.

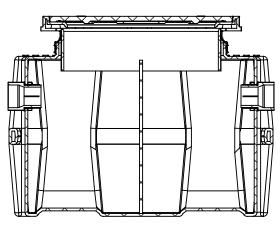
This warranty is the purchaser's sole and exclusive remedy, and acceptance of this exclusive remedy is a condition of the contract for the purchase of these products. In no event shall Striem be liable for any incidental, special, consequential or punitive damages, or for any costs, attorney fees, expenses, 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.

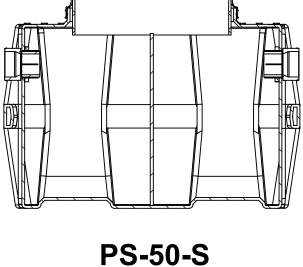


15 gallons

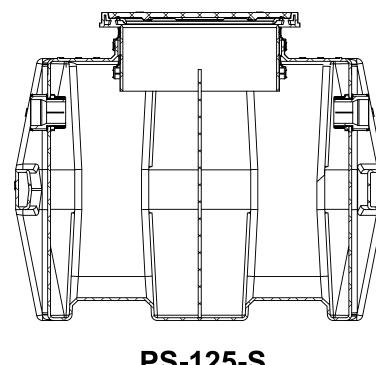
PS-25-S

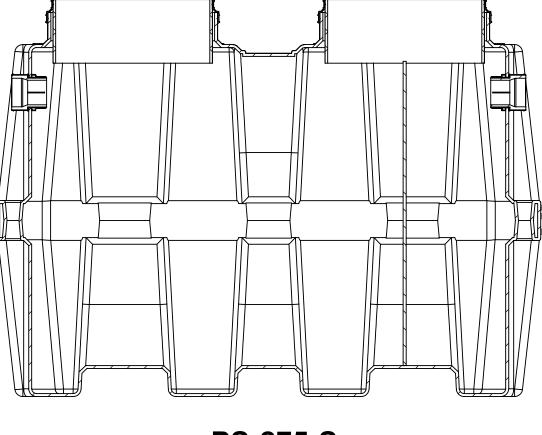
21 gallons





57 gallons





PS-35-S 38 gallons

PS-125-S 110 gallons

PS-275-S 250 gallons





DOING SO MAY RESULT IN PROPERTY DAMAGE, SERIOUS BODILY INJURY, OR DEATH! REFER TO INSTALLATION INSTRUCTIONS FOR CORRECT TESTING PROCEDURE.



Striem Solids Interceptors 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.

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DESCRIPTION:

PS SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE

ECO:

SHEET NUMBER: 1 of 6

DWG BY: MJ | **DATE:** 11/03/2020 | **REV:**

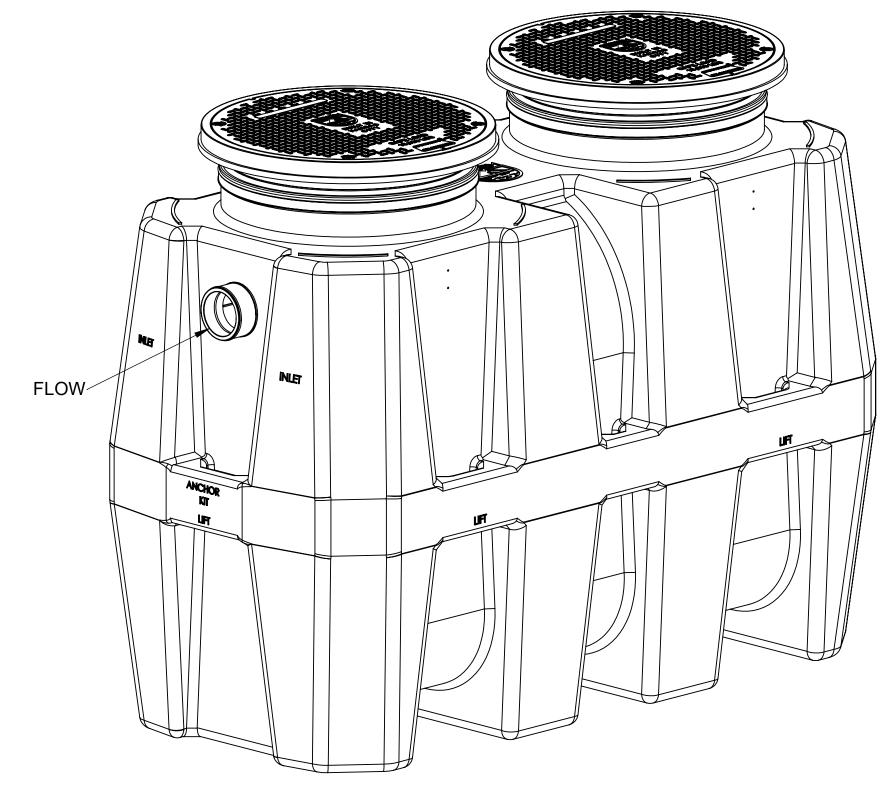
Striem 3100 Brinkerhoff Kansas City, KS 66115 Tel: 913-222-1500 orders@striemco.com www.striemco.com



Made in the U.S.A

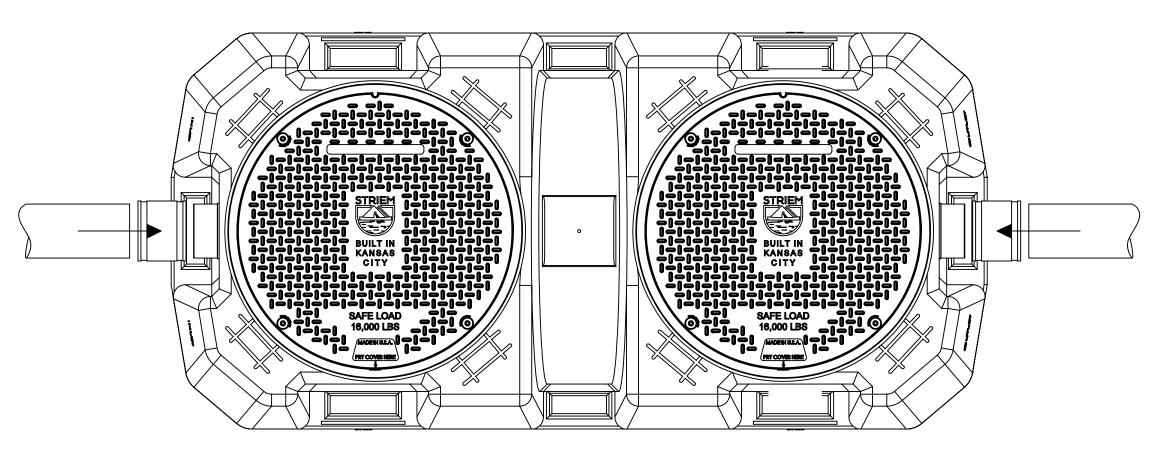


GENERAL INTERCEPTOR INSTALLATION INSTRUCTIONS (PS-275-S SHOWN)



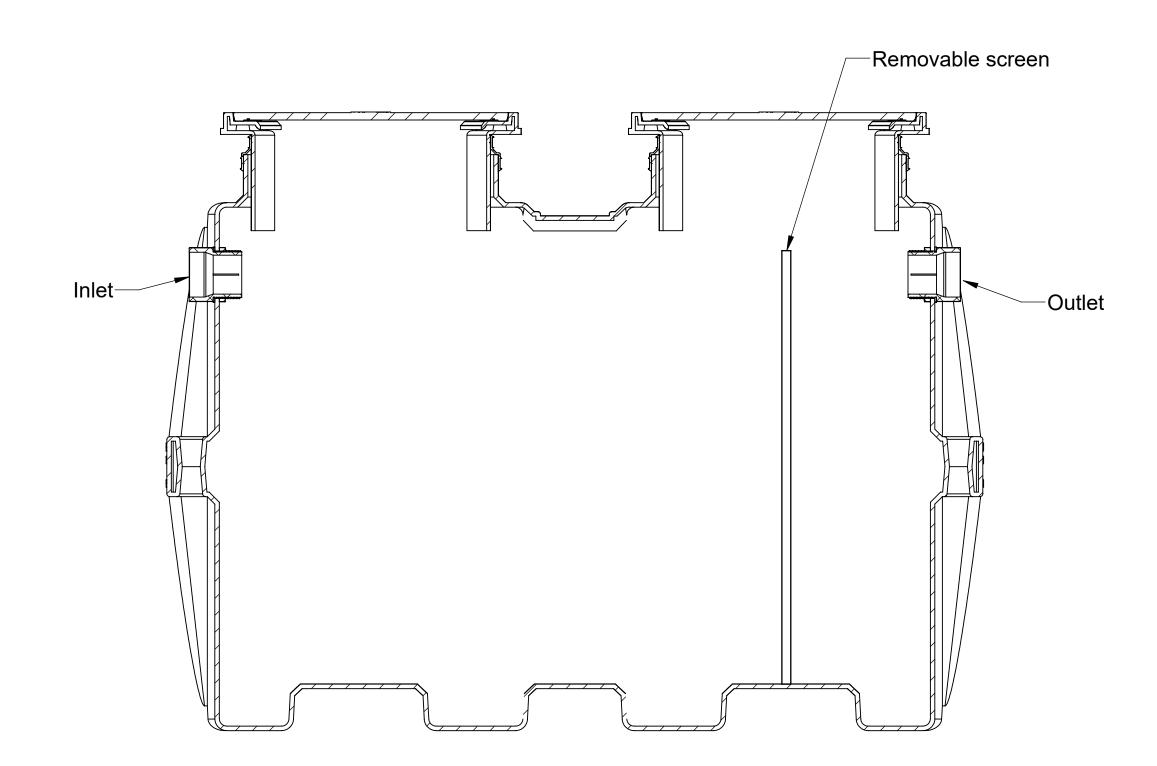
Isometric View

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**.



PS-275 Shown

NOTES:

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OPERATION

The prospector Series (PS-Series) solids interceptors are designed to capture heavy and suspended solids from in-line drainage applications before entering the public sewer or private septic system. This is done by means of a removable perforated basket or a removable perforated screen.

MAINTENANCE

- 1. Remove cover(s).
- Clean main body of the interceptor. Make sure to remove water and fine debris that may have accumulated.
 Remove screen and discard any material captured by the screen.
 Replace screen in proper location.
 Fill unit with water.

- 6. Replace cover(s). Inspect gasket on underside of cover for wear and tear.7. Properly dispose of collected material.

PUMPING FREQUENCY:

Frequency depends on the capacity of the separator and the amount of debris in the wastewater.

After initial installation, it is recommended that the basket or screen is inspected every 3 to 4 weeks. A proper maintenance schedule can be determined based off inspections.

TROUBLESHOOTING TIPS:

Slower than usual drainage may indicate the need to clean solids interceptor.

Always take proper care to ensure a safe and healthy environment while cleaning interceptor. For best cleaning and maintenance service, call your local sewer and drain contractor.

DESCRIPTION:

PS SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE

ECO:

SHEET NUMBER: 2 of 6

DWG BY: MJ | **DATE:** 11/03/2020 | **REV:**

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INTERIOR OR EXTERIOR BELOW GRADE INSTALLATION INSTRUCTIONS (PS-35-S, PS-50-S, PS-125-S, PS-275-S)

BELOW GRADE INSTALLATION INSTRUCTIONS

EXCAVATION

Rebar

-PS-275-S

Shown

- Install unit(s) as close as possible to fixtures being serviced.
 Width and length of excavation shall be minimum 12" greater
- than the tank on all sides.
- 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

- Preparation of sub grade per geotech recommendations.
- Stabilize and compact sub grade to 95% proctor.
- Fill tank with water before backfilling to prevent float out during piping installation.
 Before backfilling and pouring of slab secure cover(s) and riser/s (if necessary) to the unit(s)
 Backfill using crushed aggregate material approximately 3/4" size rock, or sand,
- 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 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.

CONNECTIONS

- Connect waste piping to the unit.

- 2. Handle of removable basket or screen bay be extended using 1-1/2" PVC pipe, if necessary.

Clean out to grade Risers to grade Clean out to grade on inlet pipe (by others) on outlet pipe (by others) Flow-2-Way cleanout 2-Way cleanout tee (by others) tee (by others) Optional Anchor kit Optional Anchor kit see detail see detail-Crushed aggregate or sand-

Concrete Pad must extend

18" outside the unit footprint

Top View

Elevation View

CONCRETE SLAB DETAIL FOR TRAFFIC LOADING

(INTERIOR OR EXTERIOR)

(PS-275-S Shown)

Rebar

Finished Grade

SIDE VIEW DETAIL

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

Concrete slab-Native soil Optional Anchor kit see detail

EXCAVATION AND BACKFILL DETAIL (INTERIOR OR EXTERIOR)

DESCRIPTION:

PS SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE

ECO:

Stainless steel

Stainless steel

Anchor plate

anchor strap-

SHEET NUMBER: 3 of 6

DWG BY: MJ | **DATE:** 11/03/2020 | **REV:**

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ANCHOR KIT INSTALLATION DETAIL

Anchor Kit Installation Steps

holes provided in Anchor Plate.

bolt together using provided hardware.

1. Slide "Anchor Strap" over tie down point on end wall and

Bolt "Anchor Strap" to "Anchor Plate" using provided hardware
 Hold down force achieved by backfill weight acting on Anchor Plate.

Anchor Plate may be bolted to concrete slab, if required, by using

Stainless hardware



NOTES:

Concrete Pad must extend

18" outside

the unit footprint

2 1/2" Min. →

30"

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INTERIOR BELOW GRADE INSTALLATION INSTRUCTIONS (PS-15-S, PS-25-S)

EXCAVATION

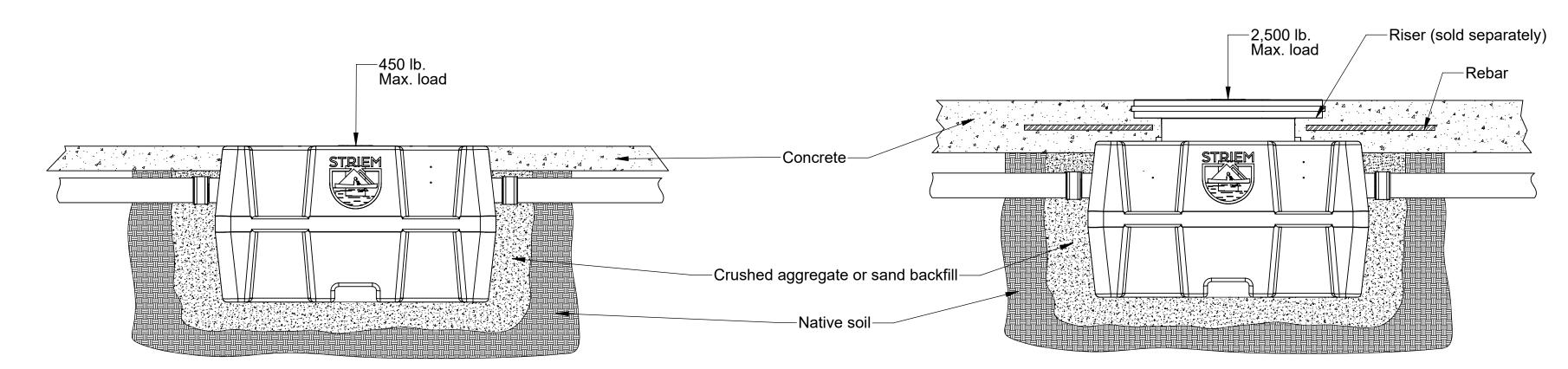
- Install unit(s) as close as possible to fixtures being serviced.
 Width and length of excavation shall be minimum 6" greater than the tank on all sides.
- Depth of excavation shall be 6" deeper than tank bottom.
 Set the tank in well-packed crushed aggregate #7 backfill material approximately 3/4" size rock, or sand, with no fines.

BACKFILLING & FINISHED CONCRETE SLAB

- Before backfilling and pouring of slab secure cover(s) to the unit(s).
 Backfill using crushed aggregate #7 backfill material approximately 3/4" size rock or sand
- 3. Place 6" aggregate base under slab.

CONNECTIONS

1. Connect waste piping to the unit.



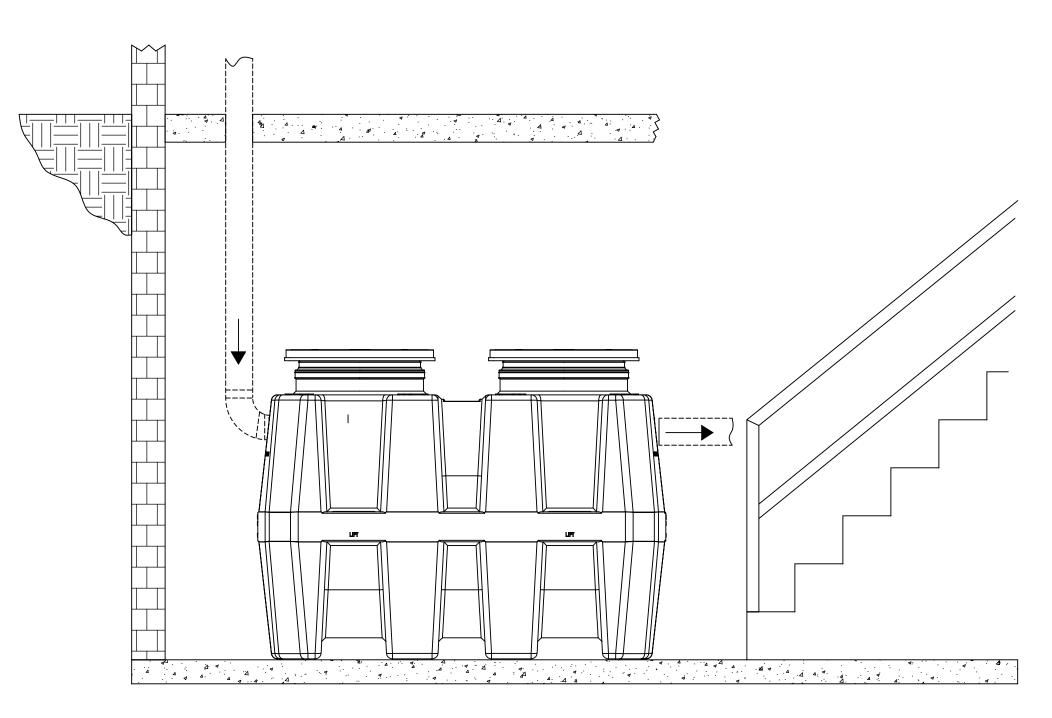
PS-25-S Shown

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

PS-25-S 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 (PS-SERIES)



ON-THE-FLOOR DETAIL

(PS-275-S SHOWN)

ECO:

Install unit as close as possible to fixtures being serviced.

CONNECTIONS

1. Connect waste piping to the unit.

NOTES:

PS SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE

SHEET NUMBER: 4 of 6

DWG BY: MJ | **DATE:** 11/03/2020 | **REV:**

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Tools included (with base solids interceptor 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:

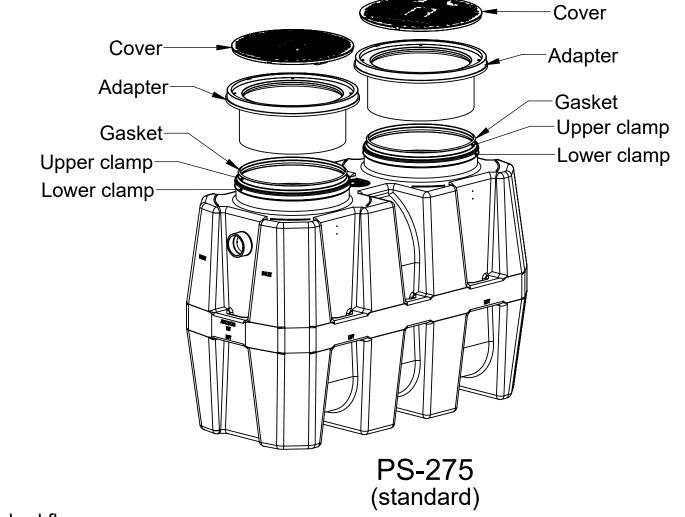
- Jigsaw or
- Cordless circular saw or
- Reciprocating saw

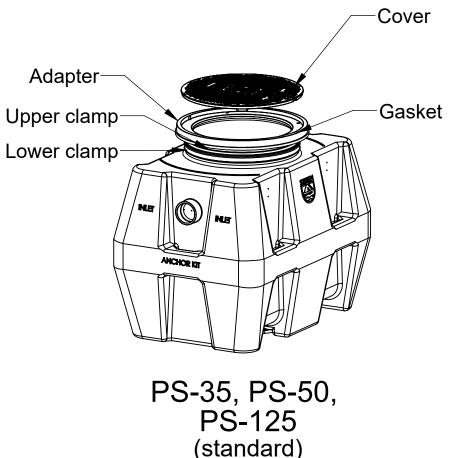
Riser Assembly Instructions/Steps:

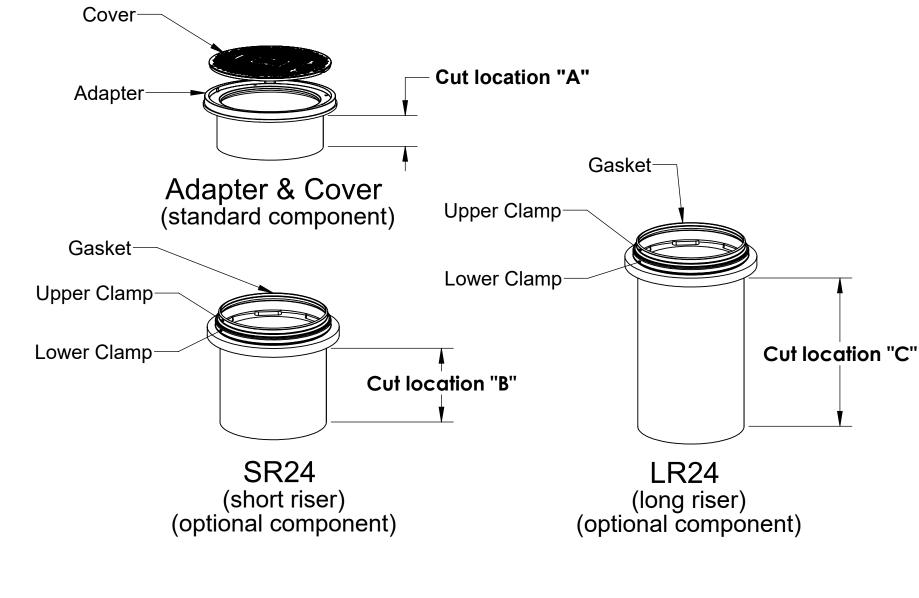
- 1. If unit is to be installed on grade (on-the-floor), there is no need for any adjustments. Unit is ready to be put into service.
- 2. If unit is to be buried: Once unit is set so that the pipe connections line up with jobsite piping, measure total riser height needed from top of cover to finished grade. Make sure you include any future tile work, etc. that may be installed in your finished grade measurements. See figure 1
- 3. Select 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 adaptor 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 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 5" (for PS-35 or PS-50) or 6" (for PS-125, or PS-275) For example, if you have a PS-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 <u>+dimension from step 5</u>. 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 <u>4 INCHES</u> (3 INCHES for a OS-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:
 - 1. Make sure both diffusers are installed inside the main unit at the appropriate locations and check if there needs to be any flow control adjustment on the inlet diffuser. Refer to sheet 2 of the installation instructions for flow control adjustment.
- 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. Schier 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 <u>upward</u> 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

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







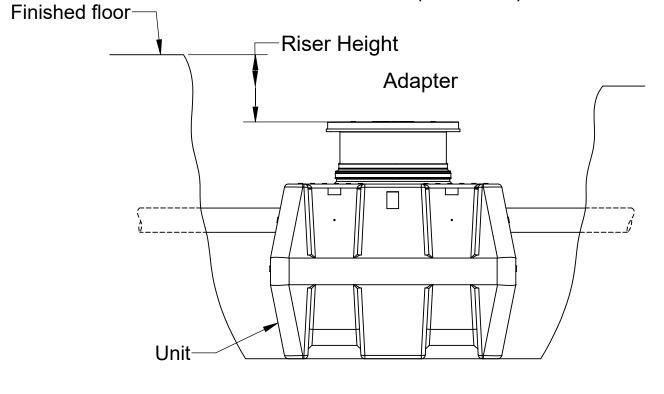
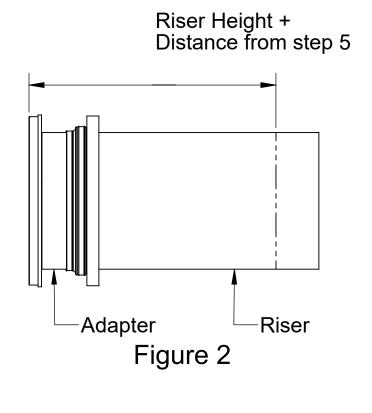
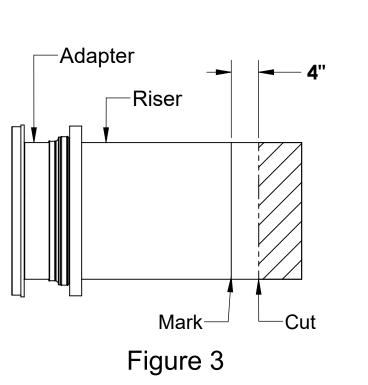


Figure 1





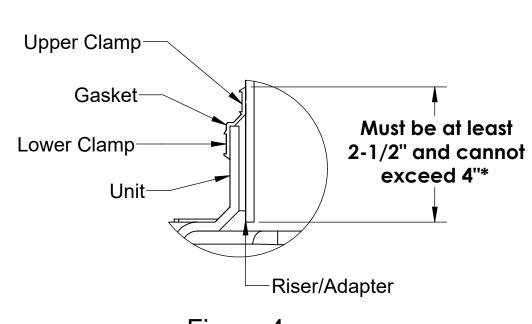


Figure 4 *3" for a GB-35 with 4" connections

Table 1 TeleGlide Riser Order Guide											
PS-35 & PS-50			PS-35 w/ 4" Connections			PS-125			PS-275		
Riser Height	Riser Qty.		Riser Height	Riser Qty.		Riser	Riser	Qty.	Riser Height	Riser Qty.	
	SR24	LR24	Kisel Heigh	SR24	LR24	Height	SR24	LR24	Kisel Heighi	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			>39" to 43"	2	0	>39" to 43"	4	0
			adapter only is 2-1/2".			>43" to 58"	1	1	>43" to 58"	2	2
						>58" to 72"	0	2	>58" to 72"	0	4

	ble 3 5 and PS-50)		Table 3a (for PS-35 w/ 4" Connections)				
Riser Height Needed	Riser P/N Needed	Riser Qty. Needed	Cut Location(s) (See figures above)	Riser Height Needed	Riser P/N Needed	Riser Qty. Needed	Cut Location(s) (See figures above)
0" to 3-1/2"	None	0	None	0" to 2-1/2"	None	0	None
>3-1/2" to 6-1/2"	SR24	1	a,b	>2-1/2" to 5-1/2"	SR24	1	a,b
>6-1/2" to 17"	SR24	1	b	>5-1/2" to 16"	SR24	1	b
>17" to 22"	SR24	1	None⁵	>16" to 21"	SR24	1	None ⁷
>22" to 32"	LR24	1	С	>21" to 31"	LR24	1	С
>32" to 37"	LR24]	None ⁶	>31" to 36"	LR24	1	None ⁸

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

DESCRIPTION:

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

Table 2								
(for PS-125 and PS-275)								
Disar Haight Noodad	Riser P/N	Riser Qty. Ne	Cut					
Riser Height Needed	Needed	PS-125	PS-275	Location(s)				
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	р				
>19-3/4" to 24"	SR24	1	2	None ¹				
>24" to 35"	LR24	1	2	O				
>35" to 39"	LR24	1	2	None ²				
>39" to 43"	SR24	2	4	b				
> 42" to 51 1/0"	SR24	1	2	•				
>43" to 51-1/2"	LR24	1	2	C				
> 51 1/0" + a 50"	SR24	1	2	N 3				
>51-1/2" to 58"	LR24	1	2	None ³				
>58" to 66-1/2"	LR24	2	4	C				
>66-1/2" to 72"	LR24	2	4	None⁴				

- 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"

ECO:

- 4. Adjust adapter upwards to reach 70" to 72"
- * For model PS-125-B with 6" connections, the adapter will need to be trimmed if the riser height needed is between 0" - 2".

NOTES:

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SHEET NUMBER: 5 of 6 PROPRIETARY AND CONFIDENTIAL

PS SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE

DWG BY: MJ | **DATE:** 11/03/2020 | **REV:**

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Tools included (with riser kit)

Silver permanent marker

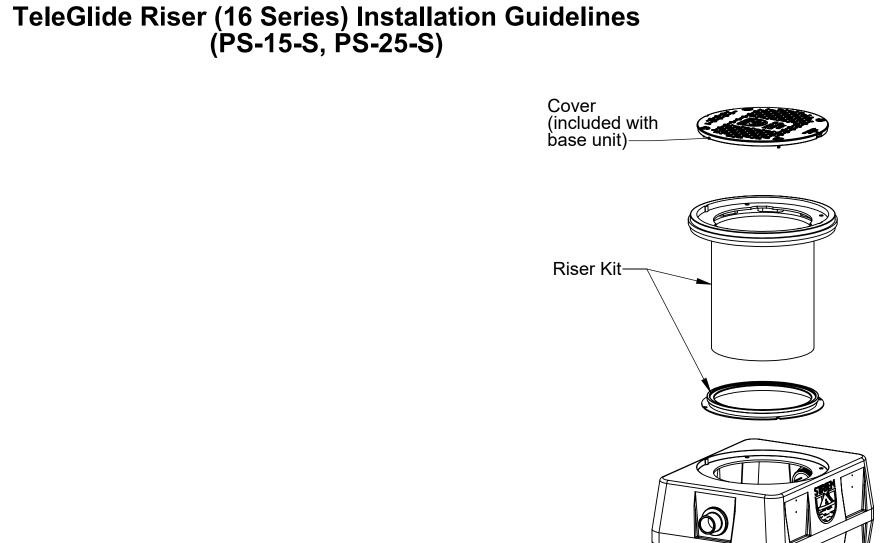
Tools Needed:

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

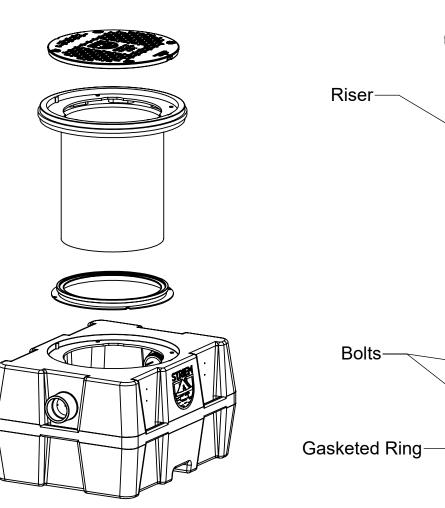
Riser Assembly Instructions/Steps:

- If 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.
 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.
 Once unit is set so that pipe connections line up with jobsite piping, remove cover from unit. Fasten yellow gasketed ring to unit with hardware provided in separate riser kit. Ring flange with 4 bolt notches faces down against the unit. See Figure 1.
 Push riser into ring until it stops (about 1 inch). See Figure 2.
 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 measurement. See Figure 2.

- in your measurment. See Figure 2.
- 6. Remove riser from ring. Take 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 handsaw, jig saw, or reciprocating saw. Remove debris from cut edge with scraper, utility knife, or gloves. See Figure 3.
- Place cut riser back into ring on unit until it stops. Fasten cover from unit into riser with the same 4 bolts from the unit. Unit is ready to be water tested and backfilled. Install finished floor. See Figure 4.







PS-25-S

SR16 Riser Kit (Sold Separately)

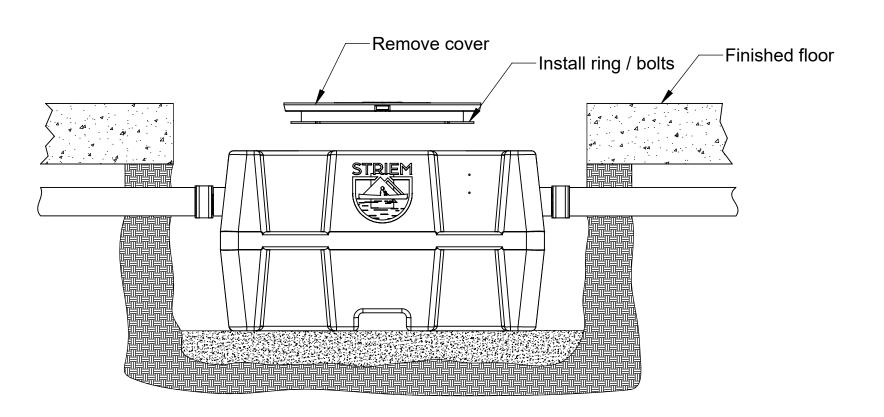


Figure 1

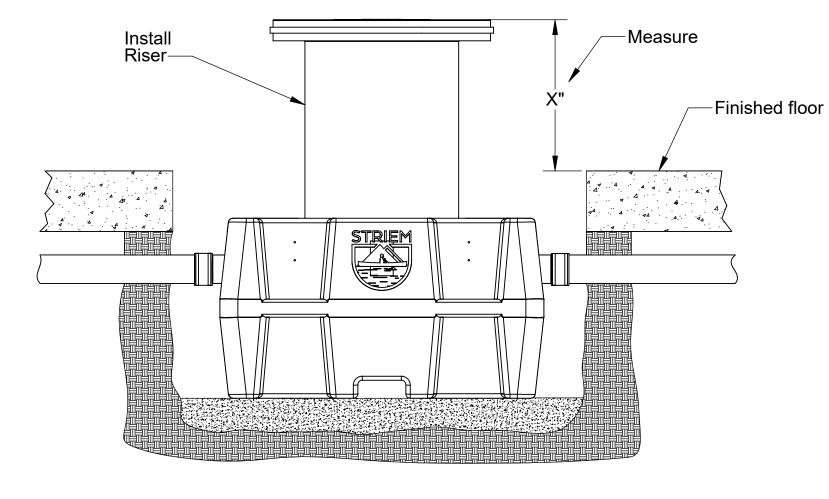


Figure 2

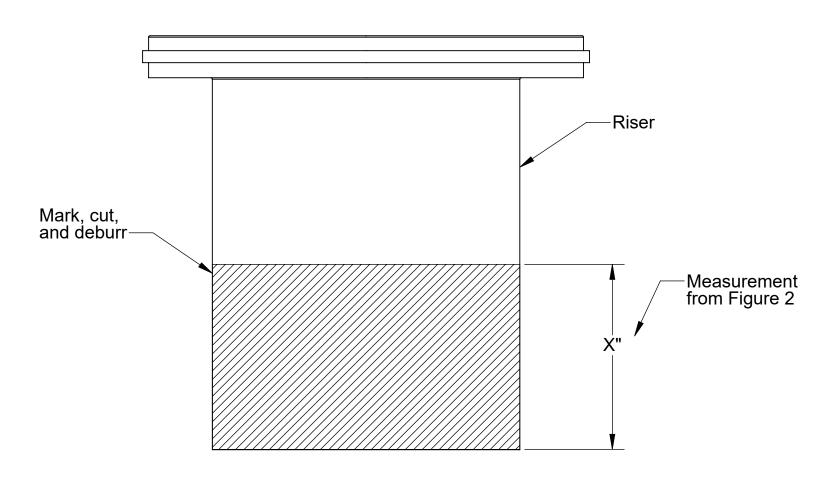


Figure 3

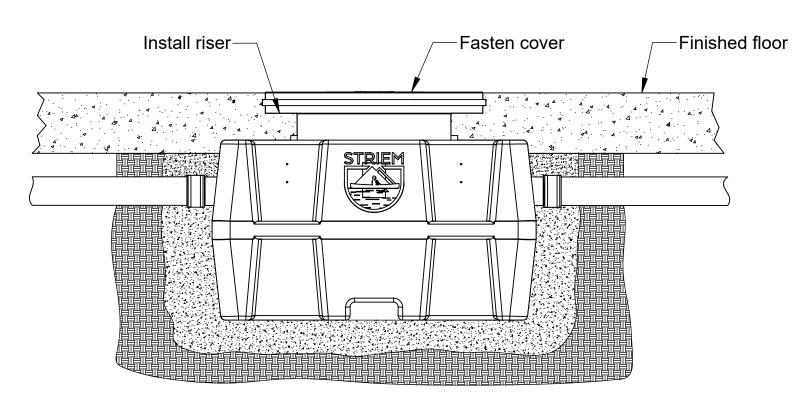
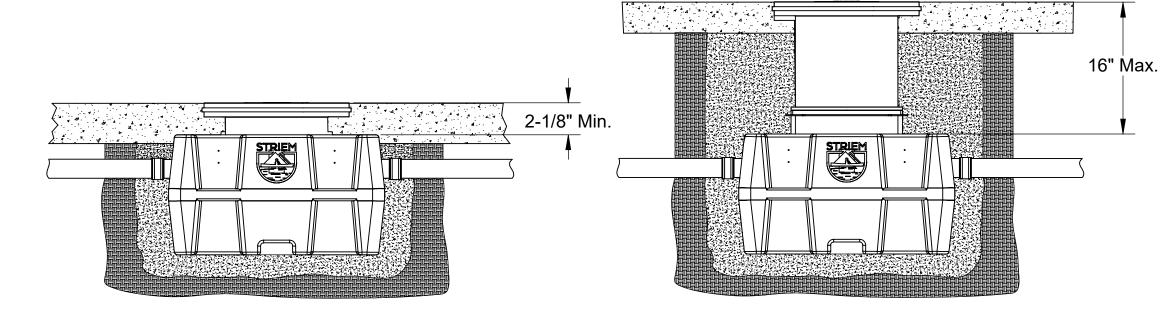


Figure 4



Minimum and maximum riser heights when units are buried.

Figure 5

ECO:

DESCRIPTION:

PS SERIES INSTALLATION, OPERATION AND MAINTENANCE GUIDE

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DWG BY: MJ | **DATE:** 11/03/2020 | **REV:**

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Made in the U.S.A



NOTES:

Striem Solids Interceptors 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.

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