



# FLI-1500

FLAMMABLE LIQUID INTERCEPTOR

Installation, Operation, & Maintenance Guide

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### OVERVIEW

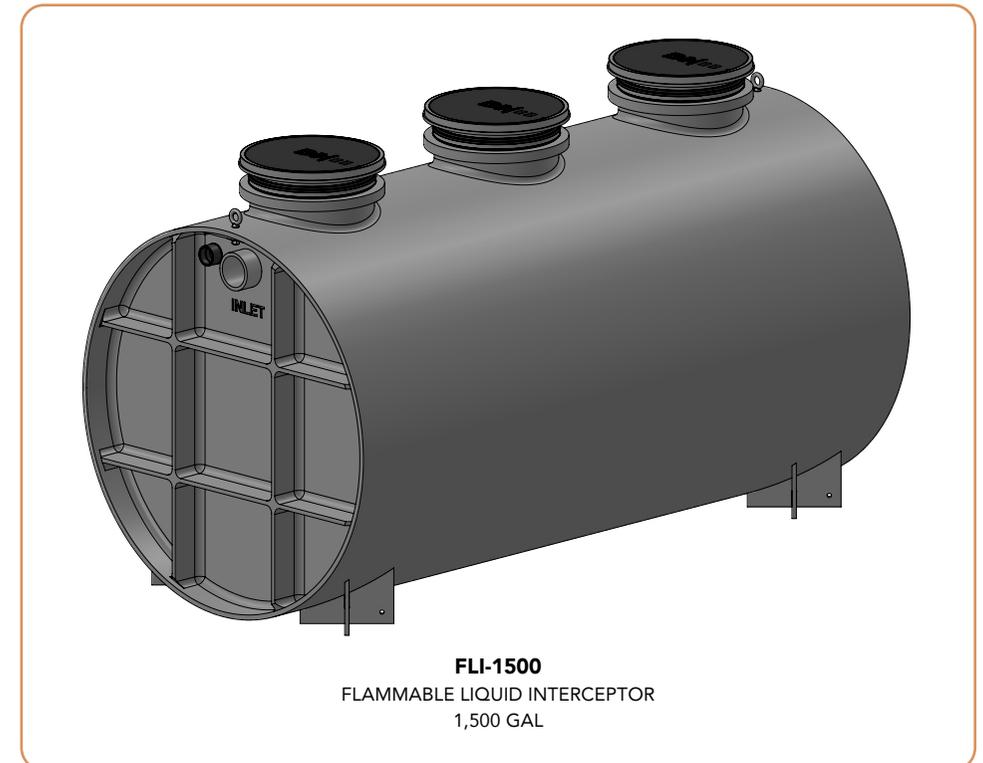
Striem Flammable Liquid Interceptor model FLI-1500 is a 1,500 gallon polyethylene flammable liquid interceptor intended for below-grade installation. It is designed to separate insoluble flammable liquids and solids from wastewater.

### OPERATION

Contaminated wastewater enters through the inlet connection. As wastewater moves through the unit, solids and immiscible lighter-than-water flammable liquids are separated based on Stokes' Law. The immiscible, lighter-than water, flammable liquid droplets rise out of the wastewater stream, while sediment and sludge settle to the bottom.

### 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. **FAILURE TO INSTALL IN ACCORDANCE WITH THE INSTALLATION, OPERATION, AND MAINTENANCE GUIDE WILL VOID YOUR WARRANTY.**



**FLI-1500**  
FLAMMABLE LIQUID INTERCEPTOR  
1,500 GAL

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

CUSTOMER SERVICE HOURS: 8 AM - 5 PM CST



WARNING: FAILURE TO INSTALL IN ACCORDANCE WITH THE INSTALLATION, OPERATION, AND MAINTENANCE GUIDE WILL VOID YOUR WARRANTY.



# 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.

**FOR BURIED APPLICATIONS ONLY**

## 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.



**WARNING:** FAILURE TO INSTALL IN ACCORDANCE WITH THE INSTALLATION, OPERATION, AND MAINTENANCE GUIDE WILL VOID YOUR WARRANTY.

## MAINTENANCE

- 1 Always take proper care to ensure a safe and healthy environment while maintaining the flammable liquid interceptor. Avoid the presence of sparks or open flames while maintaining the unit.
- 2 Remove covers.
- 3 Contact a professional pumper contractor to remove all contents of the flammable liquid interceptor, including flammable liquids, sediment, and wastewater.
- 4 Clean the drain lines and diffusers thoroughly of all debris.
- 5 Fill FLI-1500 with water to outlet invert.
- 6 Inspect cover gaskets for wear and tear and reinsert covers.
- 7 Dispose of contents per local code.

## MAINTENANCE FREQUENCY

FLI-1500 must be maintained prior to reaching maximum flammable liquid or sediment capacity for the unit to continue working efficiently.

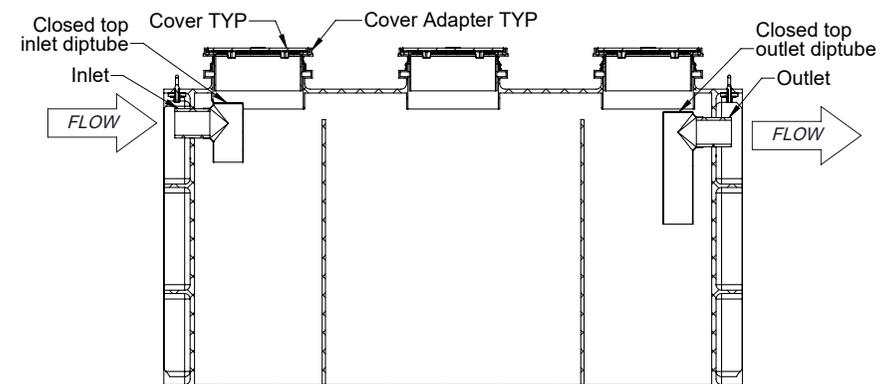
Pumping frequency depends on the amount of flammable liquids and sediment in the wastewater. Monitor flammable liquid and sediment levels to determine site specific maintenance schedule requirements.

Flammable liquid levels can be tested with a core sampler. Striem recommends a minimum pumping frequency of 6 months.

## TROUBLESHOOTING TIPS

Slower than usual drainage may indicate a blockage and a need to maintain the flammable liquid interceptor. Ensure the drain lines and diffuser are cleared of all debris in the presence of slow drainage.

Effluent flow fouled with free flammable liquids may indicate the FLI-1500 has exceeded the maximum flammable liquid capacity. In the presence of flammable liquids in the effluent flow, maintain the unit immediately.



# INSTALLATION

## EXCAVATION

- 1 Surrounding soil must be undisturbed native soil or well compacted engineering fill.
- 2 Measure the width and length of the tank and excavate a hole that is a minimum of 18" greater than the tank on all sides.
- 3 Depth of excavation shall be 12" deeper than tank bottom.
- 4 After the excavation is complete, create a well compacted support layer using approximately 3/4" clean, well-graded gravel, with no fines, so that the ground supporting the tank is a minimum 12" above native soil.

## UNIT INSTALLATION

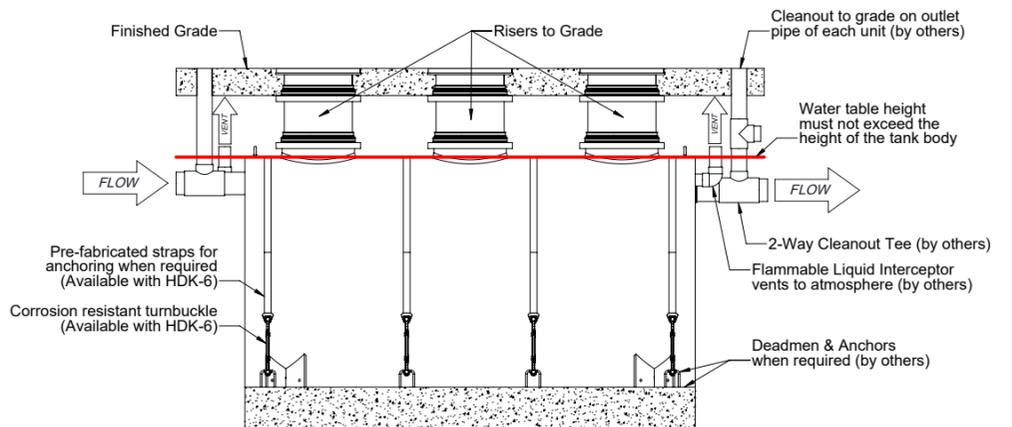
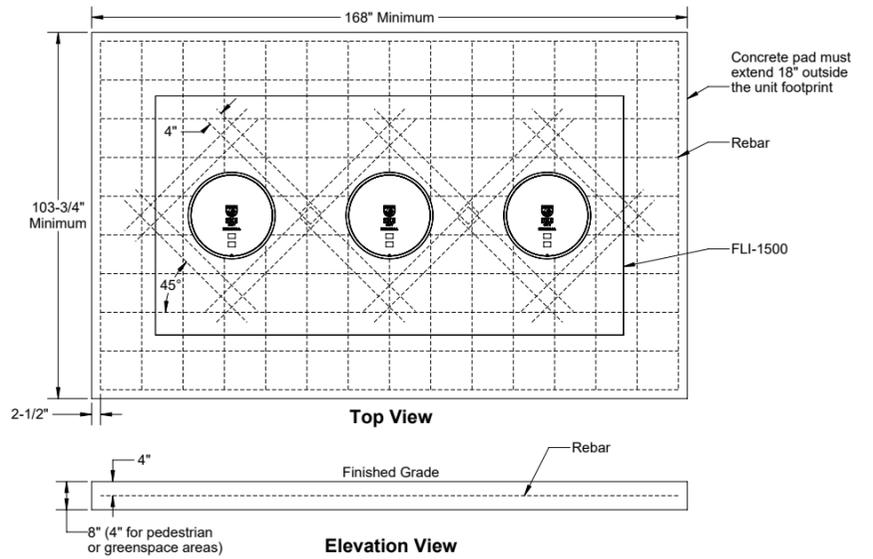
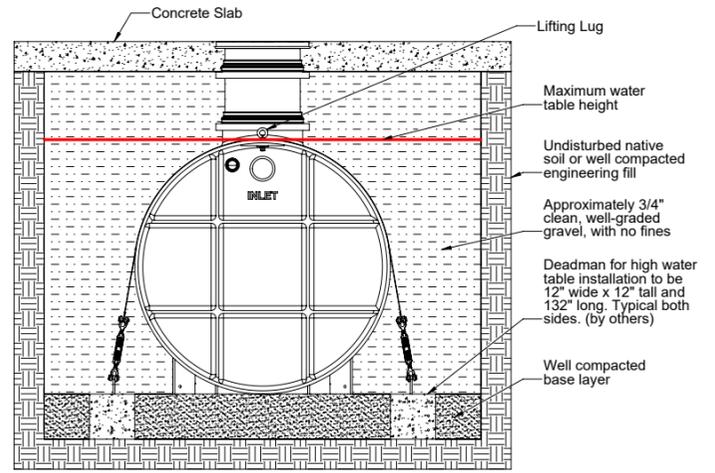
- 1 Lower and center the unit into hole using Striem lifting lug kit (included). Do not use chains or accessways to move the unit.
- 2 The water table height must not exceed the height of the tank body. The tank and risers are not intended to withstand groundwater levels above the height of the tank body. Exposure to high groundwater levels may compromise the structural integrity of the tank and risers.
- 3 Ensure the unit covers are level with finished grade.
- 4 Fill FLI-1500 with water before backfilling to stabilize the unit and prevent float out during backfilling.
- 5 Maximum burial depth: 106" from standard cover height.

## BACKFILLING & FINISHED CONCRETE SLAB

- 1 Before backfilling and pouring of the slab, secure cover and risers (if necessary) to the unit.
- 2 Backfill using 3/4" clean, well-graded gravel, with no fines (AASHTO M43 #57 Stone or similar). **Native soil, sand, and CLSM (aka, slurry or flowable fill) are not acceptable backfill materials.**
- 3 When backfilling, ensure backfill is worked under the unit using a probe to ensure the unit is fully supported.
- 4 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.
- 5 Concrete slab cannot interfere with the tank body below the risers.
- 6 Concrete to be 28 day compressive strength to 4000 PSI with 6 ± 1% air entrainment.
- 7 NO. 4 rebar ( 1/2" ) grade 60 steel per ASTM A615: connected with tie wire.
- 8 Rebar to be 2-1/2" from edge of concrete.
- 9 Rebar spacing 12" grid. 4" spacing around access openings.

## DEADMAN ANCHORING (IF NECESSARY)

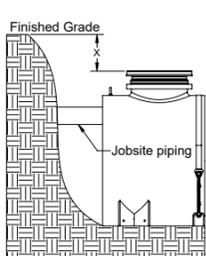
- 1 Deadmen should be constructed according to the American Concrete Institute (ACI) code.
- 2 Deadmen should be 12" wide x 12" tall and 132" long.
- 3 Each deadman should have (4) anchor points for connection to (4) 3,500 lbs. rated turnbuckles.
- 4 The deadmen shall be installed tangent to the tank footprint.
- 5 Pre-fabricated straps rated to 3,333 lbs. each should be connected to a turnbuckle on each side. Turnbuckles should be secured to the deadmen anchor points on each side of the tank such that the tank is held down.



## TELEGLIDE RISER | INSTALLATION INSTRUCTIONS

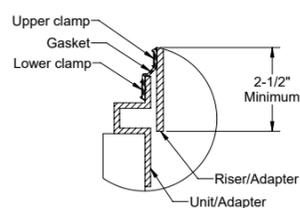
CORRUGATED PIPE RISER KIT (CPRK) AVAILABLE AS ALTERNATE RISER SOLUTION. SEE CPRK INSTALLATION INSTRUCTIONS FOR MORE DETAILS.

- 1 Place unit 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.

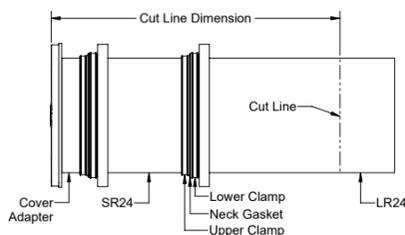


| Cover Adapter                |                              |                     |
|------------------------------|------------------------------|---------------------|
| X from Standard Cover Height | X from Cover with Monitoring | Risers Per Manway   |
| Up to 5"                     | Up to 2"                     | Included            |
| Up to 24"                    | Up to 21"                    | SR24 (3)            |
| Up to 39"                    | Up to 36"                    | LR24 (3)            |
| Up to 43"                    | Up to 40"                    | SR24 (6)            |
| Up to 58"                    | Up to 55"                    | SR24 (3) + LR24 (3) |
| Up to 72"                    | Up to 69"                    | LR24 (6)            |
| Up to 90"                    | Up to 87"                    | SR24 (3) + LR24 (6) |
| Up to 106"                   | Up to 103"                   | LR24 (9)            |

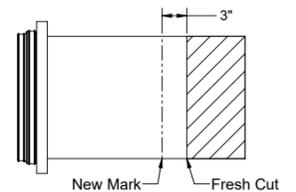
- 2 Loosen upper clamp with nut driver bit (included with tank). If no risers are needed, adjust cover adapter height as needed. Ensure 2-1/2" minimum engagement is maintained. If risers are needed, remove cover from cover adapter, and cover adapter from the unit.



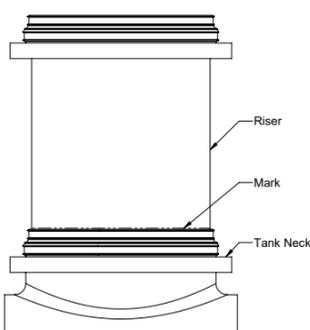
- 3 Insert cover adapter into the required risers until they stop. Tighten upper clamp to keep risers from shifting. Risers are installed from short to long. If using a standard cover adapter, measure the riser height needed, X + 5.25" down the sidewall of the risers. Mark the location with china marker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



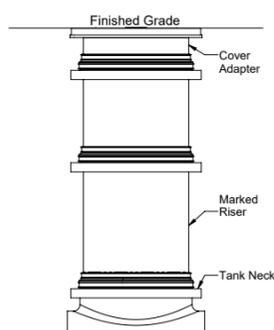
- 4 Uninstall cover adapter and risers. Extend mark made in step 3 around the circumference of the riser. Cut along line with jigsaw, circular saw, or reciprocating saw. Make a mark around the circumference of the riser 3" from the cut end of riser. If no cuts were needed, make the mark 3" from the bottom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



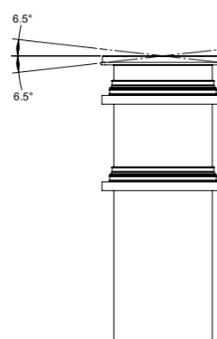
- 5 Wipe clean all riser and cover adapter sidewalls. Insert the first riser into the tank neck until the mark made in step 4 is in-line with the top of the neck gasket. This will ensure your risers reach the finished grade measured in step 1.



- 6 Install risers and cover adapter 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 cover on cover adapter. 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 adapter and risers may be adjusted/cut as many times as necessary.

