



StormLite

OWNER'S MANUAL & INSTALLATION INSTRUCTIONS





StormLite

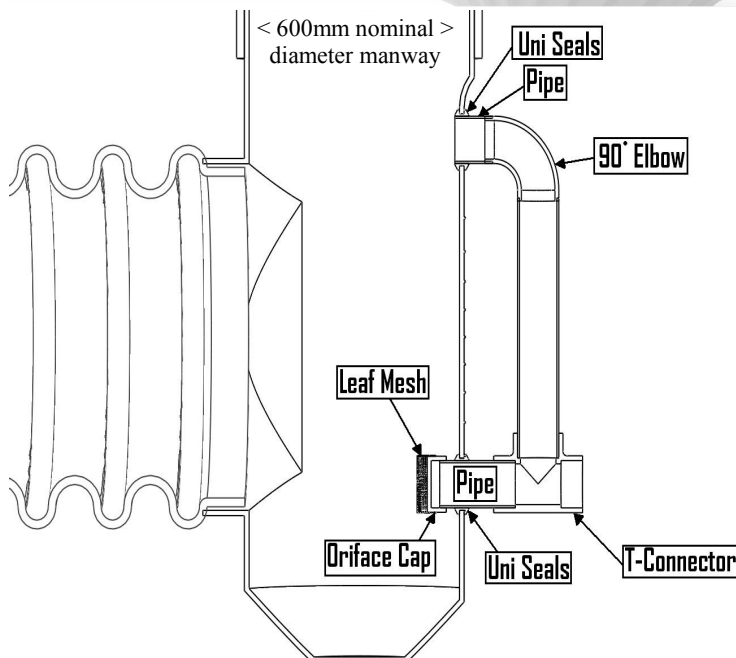
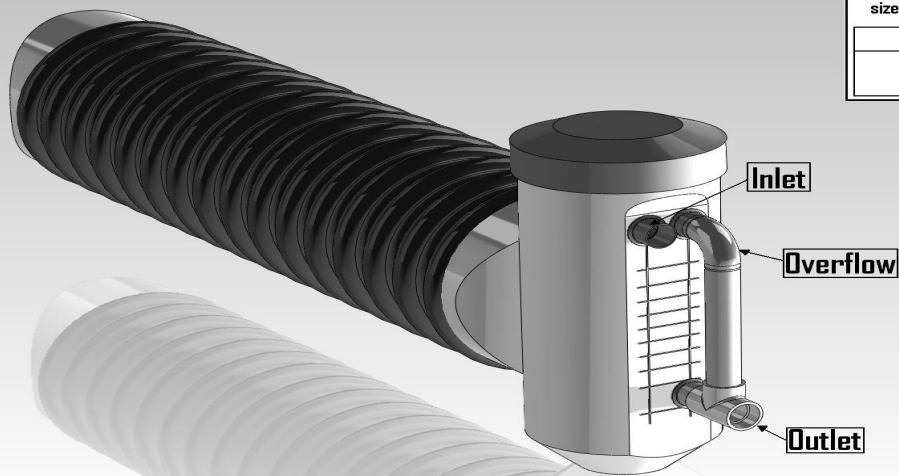
Congratulations on the purchase of a StormLite detention/retention tank. All of our StormLite tanks are designed and manufactured to your individual site requirements, to give you easy installation and provide a long trouble free life.

- StormLite tanks are supplied complete in one piece ready to install
- Made from tough recycled polyethylene that will not rot or corrode.
- Lift tanks with slings not chains—be careful not to damage tank
- 645mm diameter tanks will snake noticeably because of their corrugated construction. This does not affect their structural integrity
- Silt trap included—A separate silt trap is not required with StormLite tanks
- Inlet/s can be in either or both ends
- Outlets should to be drilled inline with the bottom of the tank chamber (330mm from base of sump)
- Plastic lids available are suitable for lawn or garden locations. Ensure the plastic lids are screwed down securely to stop access by children.
- Cast iron man way lid/s & frames are available from drainage merchants for traffic areas.
- The man way riser should be cut back so the lid sits flush with the surface. Extensions are also available if required.
- ***Caution** – Because of their light weight, newly installed tanks can float out of the trench even after backfilling, if the trench is flooded by rain or a high water table. Please follow installation guidelines carefully.

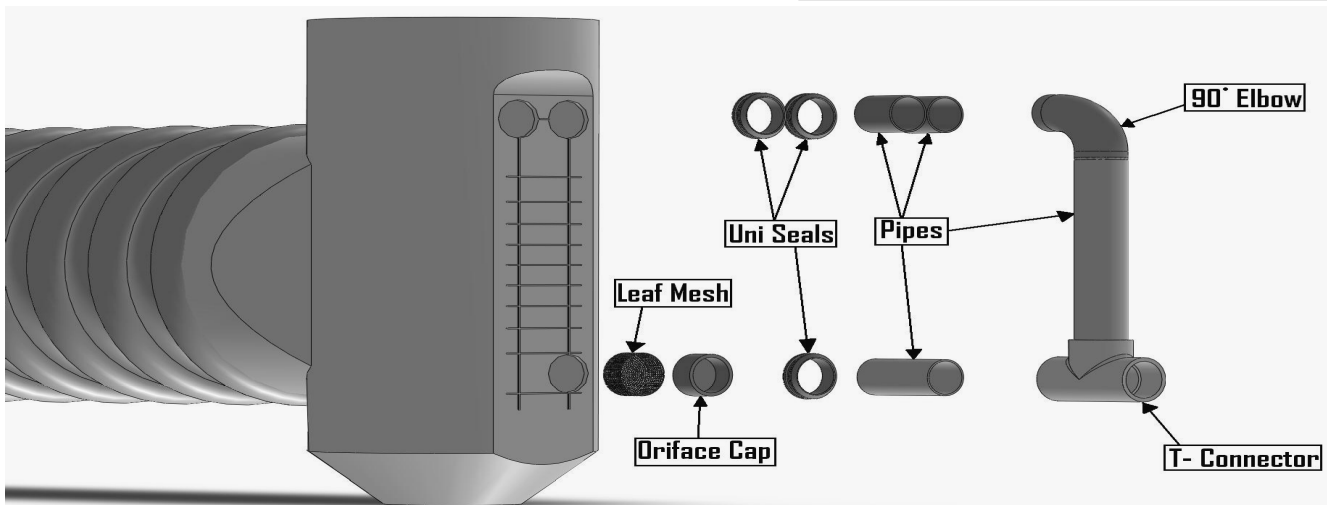
Typical Tank Fitting Assembly Example

NB: You need to use the following hole saws for the different pipe sizes:

| Pipe | Hole Saw Size |
|-------|---------------|
| 100NB | 121mm |
| 150NB | 168mm |



1. Use 121mm hole saw to drill holes for inlet, outlet & overflow.
2. Insert supplied uni-seals.
3. Insert your PVC pipes.
4. Drill Orifice hole into supplied push on cap to required size.
5. Place Orifice cap onto outlet pipe inside sump.
6. Place supplied wire mesh screen over orifice cap.
7. Cut riser back so lid sits flush with surface if needed.
8. Place plastic lid on & screw down to secure.





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StormLite Detention/Retention Tank Inspection and Maintenance Instructions

Thank you for choosing an APD StormLite detention/retention tank. Please read these instructions carefully before attempting to maintain the tank.

These tanks are designed to council requirements to limit the flow of water to the stormwater system during heavy rain fall events. APD tanks feature a silt trap designed to minimize silt flowing into the stormwater system. All of our detention tanks are supplied with a mesh screen that is fitted over the outlet orifice and is designed to prevent large debris from blocking it.

APD recommends an annual visual inspection of the silt trap, mesh and orifice(s) to determine if the silt trap requires removal of silt build up and to ensure the mesh screen and fixed orifice are free of debris. For ease of inspection these items are located directly below the manway access.

Inspection and Maintenance Procedure

- Using a Phillips head or square head driver remove the screws holding the lid of the tank in place. If the man way access riser is located in a driveway, remove the cast iron lid.
- Using a torch if necessary, inspect the mesh covering the outlet orifice(s), the orifice outlet and the level of silt build up in the silt trap.

Outlet Mesh Screen and Orifice

- Ensure the mesh is not blocked with debris as this may affect the rate at which water can exit the tank. If the mesh and orifice are clear, no further action is required.
- If the mesh has debris covering it and depending upon the nature of the debris, it may be possible to remove with a suction device or with a long stick and clamp. If this is not practical then it will be necessary to enter the tank to manually clear the debris.
- Caution: Entering the tank should be treated as a confined space. See confined space warning below.
- Clear debris from the mesh and inspect the orifice(s) for any obstructions. If the orifice is obstructed, it may be necessary to remove the mesh.
- To remove the mesh, cut the plastic cable tie and pull the mesh from the orifice endcap. Clean and remove all debris and other obstructions from the orifice.
- Dispose of all debris and obstructive materials outside of the tank as leaving them in the tank may lead to a fresh blockage. Refit the mesh and secure using a new cable tie that is at least 350mm long for a 100mm outlet or 500mm long for a 150mm outlet.

Silt Trap

- Check the level of silt build up in the sump. If the silt level is within 50mm from the bottom of the tank, it is recommended that it be removed. APD recommends that professionals with a vacuum suction truck or similar be used to perform this task as the silt can be removed without the need to enter the tank.

Please ensure the tank lid is fastened down on completion.



DO NOT inspect the tank if it is raining or has recently rained. Allow time for the water level to reduce to the minimum level.



Caution – Confined space

If it is necessary to enter the detention tank to undertake inspection or maintenance, you must follow the “Safe working in a Confined Space” guidelines provided by WorkSafe NZ or use professionals who are trained in these requirements. It is the responsibility of the person or persons entering the tank to formulate an appropriate entry plan and rescue plan. APD recommends a minimum of two (2) competent persons using suitable harness and winch equipment for tank access, with one (1) person to remain outside the tank at all times.

