

INSTALLATION INSTRUCTIONS

GENERAL

These installation instructions are applicable for Bailey Tanks underground storm water tanks only and do not apply for any other tank type.

Failure to follow these guidelines may result in tank failure or tank flotation. It is important to read, understand and follow the instructions below. Contact Bailey Tanks with any variations.

The tank installation is the responsibility of the installer and Bailey Tanks do not provide any warranty for any installation.

The tank has been designed for light traffic loads only and shall not be placed under driveways, garages etc, where heavier loads are expected. The riser area shall not have traffic loads under any circumstances.

BEDDING AND BACKFILL MATERIAL

Bedding material shall consist of a minimum thickness of 200 mm compacted sand or pea gravel.

Backfill material shall consist of crushed stone or gravel, GAP20 or similar. All aggregates shall meet sections 4 and 5 or NZS 3121: 1986.

All excavated soil is to be removed from the area. Do not mix soil with backfill material.

EXCAVATION

Excavate a hole in the desired location to the depth as shown. Allow 200 mm bedding thickness at base of excavation. Allow minimum of 500 mm horizontal clearance between tank walls and excavated surfaces.

Allow for a safe working batter to walls of excavation. Under no circumstances shall workman be allowed into an excavation without adequate safety equipment or with excavated walls at a safe batter. Consult OSH Guidelines.

The excavation is required to be kept dry while backfilling proceeds. Pump any groundwater away from the area or provide adequate drainage.

BACKFILLING PROCEDURE

The following procedure should be followed:

Apply 200 mm bedding material and lightly compact to achieve a level surface.

Install Bailey tank to centre of hole.

Place backfill material in lifts of 300 mm. Each 300 mm layer shall be lightly compacted using long handled stamper to remove air voids.

Backfill shall be pushed under the curved bottom portion of the tank in each 300 mm lift. Use a compacter with a curved section to suit the curvature of the tank. Ensure the entire perimeter of the tank base is compacted.

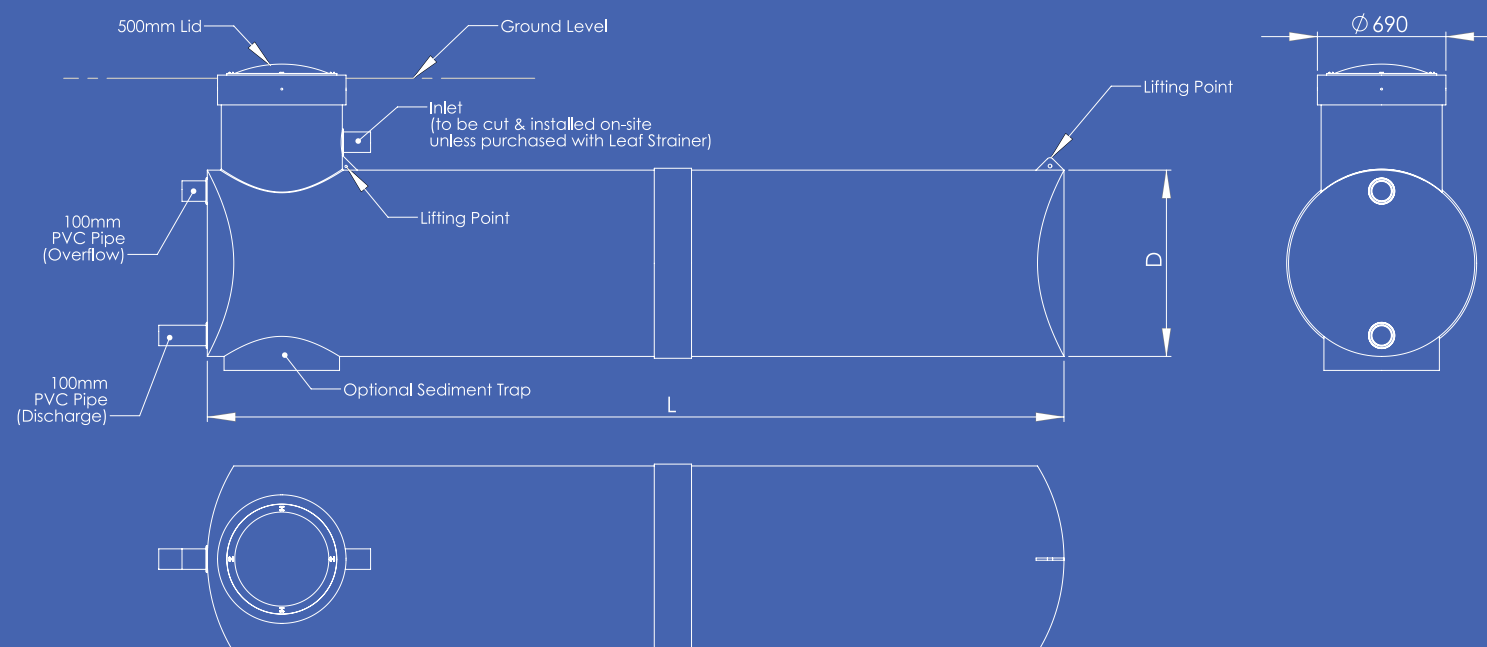
Continue backfill to surface using compaction as required in 300 mm lifts. Topsoil may be used for final 300 mm layer.

NOTES

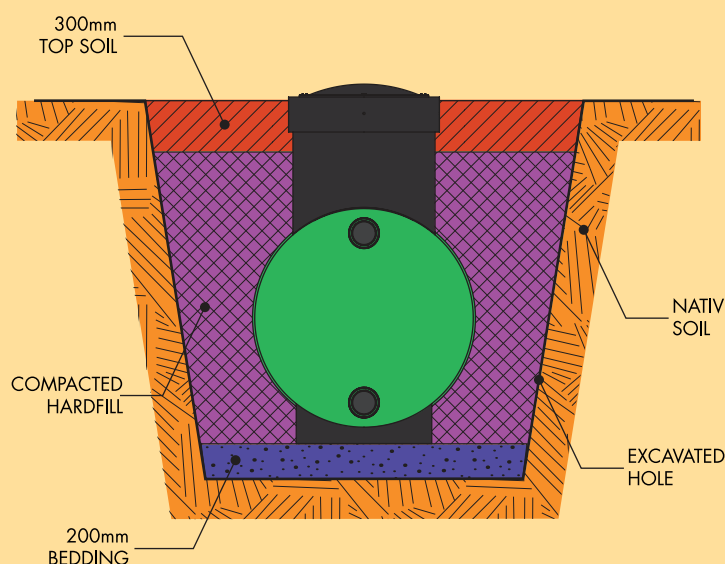
In an area where ground water levels are expected to be high or where ground permeability is low some form of restraint maybe required to prevent hydraulic uplift. It is the tank owner's responsibility to establish the ground water and soil conditions. If in doubt, refer to Technical Representative, Geotechnical Engineer.

In certain soil conditions such as silt, peat or soft soils filter fabric may be required between the native soil and the compacted hardfill.

Models and Specifications



CODE	D (DIAMETER) (mm)	L (LENGTH) (mm)	CAPACITY (LTRS)	CAPACITY (m3)
SUB650D.800	650	2500	800	0.8
SUB650D.900	650	2800	900	0.9
SUB650D.1000	650	3100	1,000	1.0
SUB650D.1100	650	3400	1,100	1.1
SUB650D.1200	650	3700	1,200	1.2
SUB650D.1300	650	4000	1,300	1.3
SUB650D.1400	650	4300	1,400	1.4
SUB650D.1500	650	4600	1,500	1.5
SUB800D.1000	800	2500	1,000	1.0
SUB800D.1100	800	2700	1,100	1.1
SUB800D.1200	800	2900	1,200	1.2
SUB800D.1300	800	3100	1,300	1.3
SUB800D.1400	800	3300	1,400	1.4
SUB800D.1500	800	3500	1,500	1.5
SUB800D.1600	800	3700	1,600	1.6
SUB800D.1700	800	3900	1,700	1.7
SUB800D.1800	800	4100	1,800	1.8
SUB800D.1900	800	4300	1,900	1.9
SUB800D.2000	800	4500	2,000	2.0
SUB1000D.1800	1000	2500	1,800	1.8
SUB1000D.2000	1000	2750	2,000	2.0
SUB1000D.2200	1000	3000	2,200	2.2
SUB1000D.2400	1000	3250	2,400	2.4
SUB1000D.2600	1000	3500	2,600	2.6
SUB1000D.2800	1000	3750	2,800	2.8
SUB1000D.3000	1000	4000	3,000	3.0
SUB1000D.3200	1000	4250	3,200	3.2
SUB1000D.3400	1000	4500	3,400	3.4



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Underground Stormwater Retention/Detention Tanks



Bailey Tanks Range of Underground Storm Water Retention/Detention Tanks

The new SUB's from Bailey Tanks

Bailey Tanks range of horizontal SUB tanks are the ultimate in underground water management.

The SUB's are light enough to be manhandled which is a major benefit when section access is limited and once installed the only part visible is a low profile childproof manhole cover. With 28 different diameter and length combinations and capacities ranging from 800 litres to 3,400 litres, the SUB's suit almost all applications. But should more volume be required, it is a straightforward procedure to link multiple tanks together.

Stormwater Detention

New development often places additional demands on stormwater systems, these systems may not have the capacity to handle further loads. Often in these situations a stormwater detention tank is the best solution. Stormwater detention tanks are designed to store rainwater from roofs, drives, paths and other impervious areas. The water is then discharged to the stormwater system from the tank through a small diameter orifice pipe at a rate the stormwater system can cope with.

The SUB's are perfect for stormwater detention and make light work of council requirements. Each tank comes pre-plumbed with a 100mm overflow and discharge pipe. It is a simple procedure to fit the specified orifice.

Water can be reused by installing a reuse tank that is separate from the detention tank, or by allowing for some detention at the top of the reuse tank that enables you to use a portion of the rainwater in the tank. This water can be used in non-critical areas such as toilets, washing machines and for garden irrigation, creating a more sustainable approach to water management.

If a storm water detention tank is required for a project you're working on, your local council can often provide a worksheet to calculate the tank capacity and orifice size. Otherwise an engineer can calculate this.

Quality, Strength & Expertise

Made for ultra tough polyethylene the SUB's have been engineered to handle the extreme loads caused by soil pressure. The SUB's are 100% recyclable.

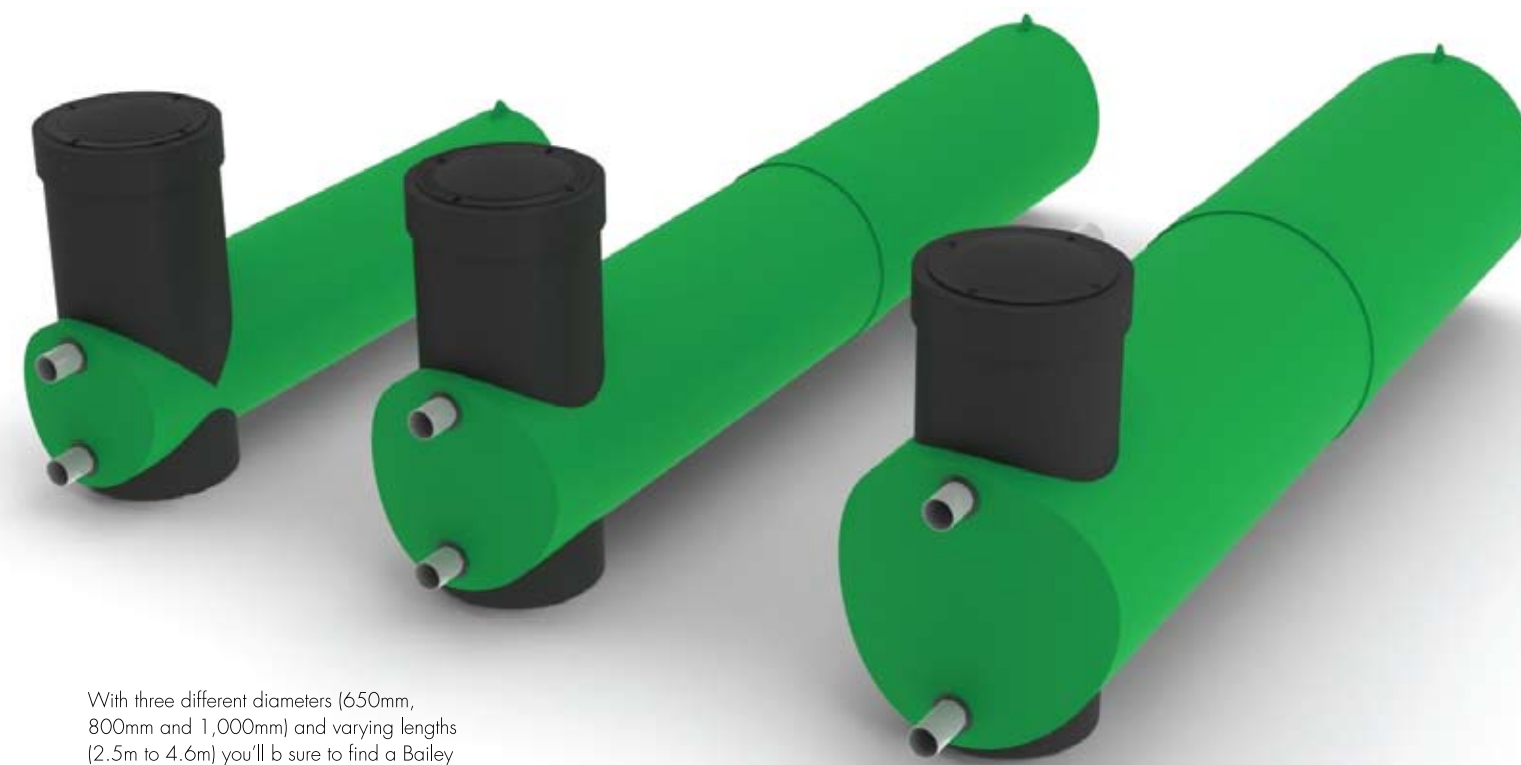
Delivery

Order your SUB from Bailey Tanks and we'll deliver it direct to site to most areas of the country – North or South Island.

Nearly 40 Years Making Tanks

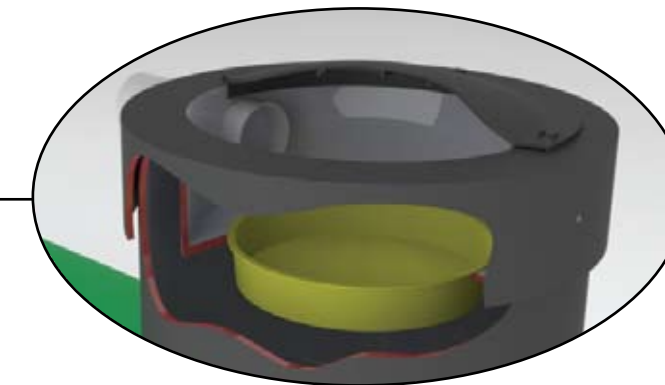
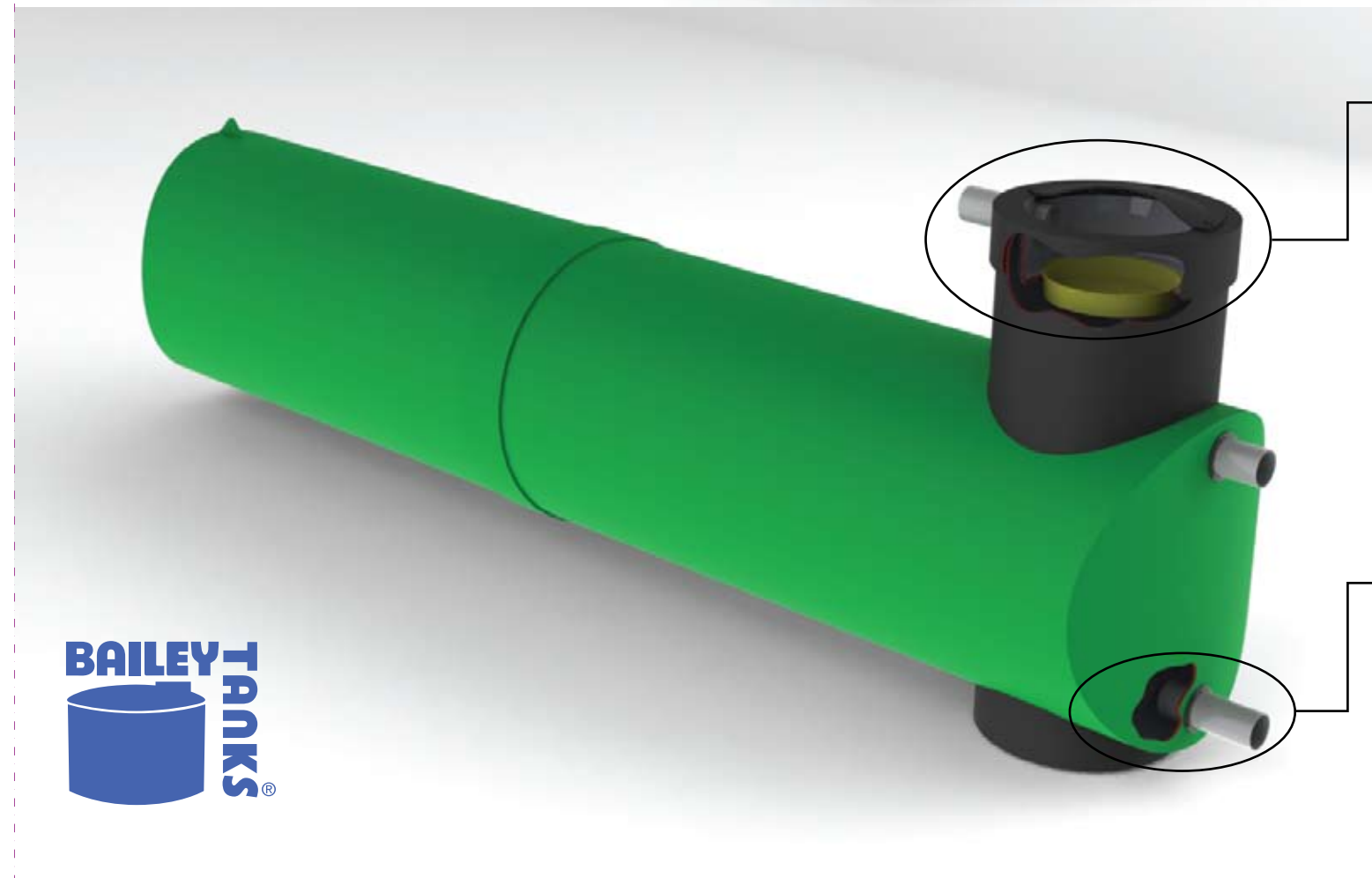
With nearly 40 years in the business you can be assured that the SUB's from Bailey Tanks come with a pedigree of quality and toughness.

“with 28 different diameter & length options there's a tank for almost every application”

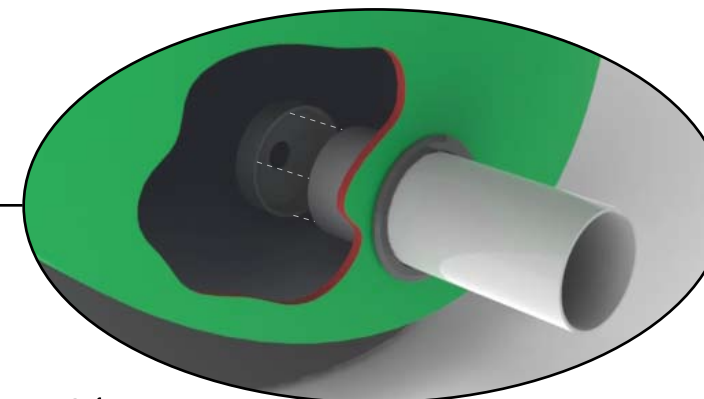


With three different diameters (650mm, 800mm and 1,000mm) and varying lengths (2.5m to 4.6m) you'll be sure to find a Bailey underground tank to suit your requirements.

“the ultimate solution for underground stormwater retention/detention”



Optional leaf strainer
To eliminate the risk of an orifice becoming blocked an optional leaf strainer can be fitted.



Orifice
A 100mm PVC cap (Marley Part 137-100) is drilled to the required diameter and fitted to the discharge pipe.

