

# Underground Water Tank Installation

**Please note that we provide installation guidelines only. We strongly advise that you contact a local builder who will be able to assess your soil conditions and advise you accordingly.**

## Excavation

- Allow 100-150mm all round the tank.
- Use suitable planking and strutting as necessary.
- Dig out trenches for pipe work and inline filters.

## The Base

- The tank must be installed on a firm, smooth, level concrete base built in accordance with good building standards and engineering principles.
- **The depth of concrete used must be appropriate to the size of the tank and soil conditions.**



## Installing the Water Tank

- Once the concrete base has dried, lower the tank into the hole. Make sure that the tank is sitting flat and true before filling it with water.
- If you have been supplied with a neck ring, this should be cut to length to finish flush with the ground. If the neck ring is loose, apply some silicon seal. **Please note that the tank lid is designed to withstand foot traffic only. The neck ring must not finish any more than 500mm below ground level.**
- To stop the tank from rising up out of the ground when the water table

risers, we recommend that you backfill a minimum of 450-460mm deep around the tank with concrete. **If you live in a high water table area or in clay soil conditions, then we strongly recommend that you completely encase the tank in concrete. If you are unsure, contact your local builder.**

- Once the concrete has set, backfill any remaining space with pea shingle and surround materials.
- Superimposed loads should NOT be allowed within the protection area which is a minimum 2m from the outer edge of the tank. If this cannot be followed a reinforced concrete slab must be designed and installed by a qualified civil or structural engineer so that no loads are transmitted directly on to the tank.

## Aftercare

Most underground water tanks do not need aftercare immediately. If the water is undisturbed for a period of time, it may become stagnant. Over years of use the tank may require cleaning, which can be done using a mop.

## Filter Box Installation

- The filter box can be installed anywhere along the inlet pipe *between the tank and the down pipe*. Ensure you can gain access to the filter for cleaning. **Please note that the filter box lid is designed to withstand foot traffic only.**
- Run your pipe work, ensuring that the inlet from the filter has an adequate drop to ensure water flow. A fall of 25mm every meter is recommended.
- Ensure the inlet pipe from the down pipe, is fitted to the 4" connector on the filter box with the 90° elbow on it.
- Back fill the area around the filter box with pea shingle.



## Fitting a Pipe to Underground Water Tanks

- Drill out the hole for the pipe using a 108mm hole cutting saw.
- Cut the 110mm pipe square, using a fine tooth saw.
- Chamfer the end of the pipe, using a medium file or rasp.
- Remove dust and filings from the end of the pipe
- Push the pipe into the hole drilled in the tank. The end of the pipe can be lubricated