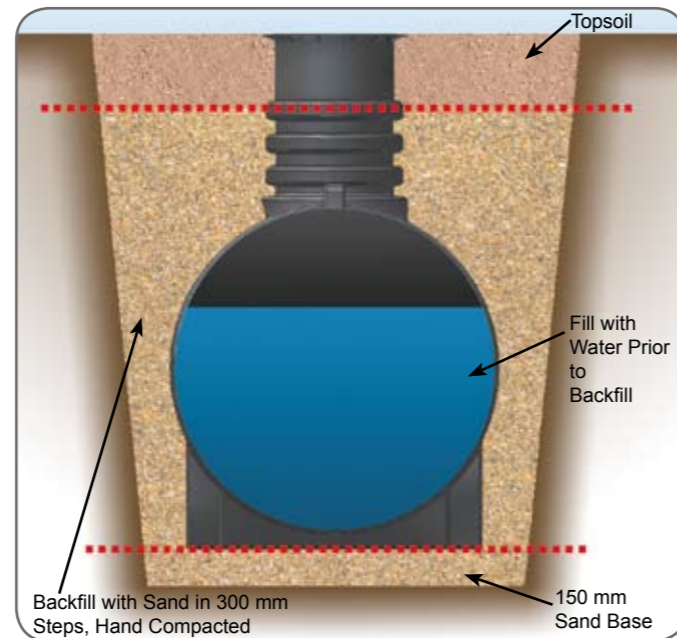


Embedding the Tank

- 1) Excavate to the appropriate dimensions, allowing for a 150 mm bed of sand at the base.
- 2) Lower the tank carefully into the excavation onto the sand base.
- 3) Fill the tank $\frac{2}{3}$ with water, then backfill around the tank with sand in layers of 30 cm and compact each layer by hand. Ensure the tank is evenly hand compacted on all sides.
- 4) Fill the tank with water to the overflow level and continue to back fill with sand and hand compact to the overflow level.
- 5) Make the push fit connections with 110 mm watertight pipework. The service duct should be run to the surface connection point, with a pull through cord left in.
- 6) Place the tank access cover onto the tank.
- 7) Fill the excavation to finished levels with topsoil.
- 8) Leave the water in the tank until installing the pump.



Note:

- A) In heavy clay soils, rainfall might permeate around the installation, but not drain away through the surrounding earth. This can collect below the tank and could cause buoyancy, particularly if the tank is left empty. In poor soil it is recommended that a concrete base is formed, with straps used to permanently hold the tank. Please contact HRD Technologies Ltd for further information.
- B) Any downpipes from the roof should run directly into the ground, without using a grille or gully, as these could allow grit and debris to be swept into the StormBank™ tank. Paved and concreted areas should be drained separately to the roof - water from these areas is not suitable for your StormBank™ system.

Installing the Pump

- 1) Using PTFE tape, screw in the larger 1" - 20 mm hose insert to the threaded hole on top of the pump.
- 2) Screw the plastic inlet filter on to the end of the pump.
- 3) Tie the lifting rope supplied through the handle on top of the pump.
- 4) Connect one end of the hose to the hose insert, and secure using two jubilee clips.
- 5) Tie the pull through cord to the end of the hose.
- 6) Carefully lower the pump into position on the base of the tank.
- 7) Pull the hose through the duct to the surface.
- 8) Screw the smaller 3/4" - 20 mm hose insert into the connection point, including the sealing washer.
- 9) If necessary trim the hose, and connect it to the connection point hose insert, again using two jubilee clips to secure.
- 10) Use expanding foam or other sealant to close off the duct ready for backfill.
- 11) Backfill around the connection point in the desired position.

HRD Technologies Ltd offers a free design advice service. Please contact us with details of your project and situation.

Stormwater Hotline: +353 (0) 1 4013964 • enquiries@hrdtec.com

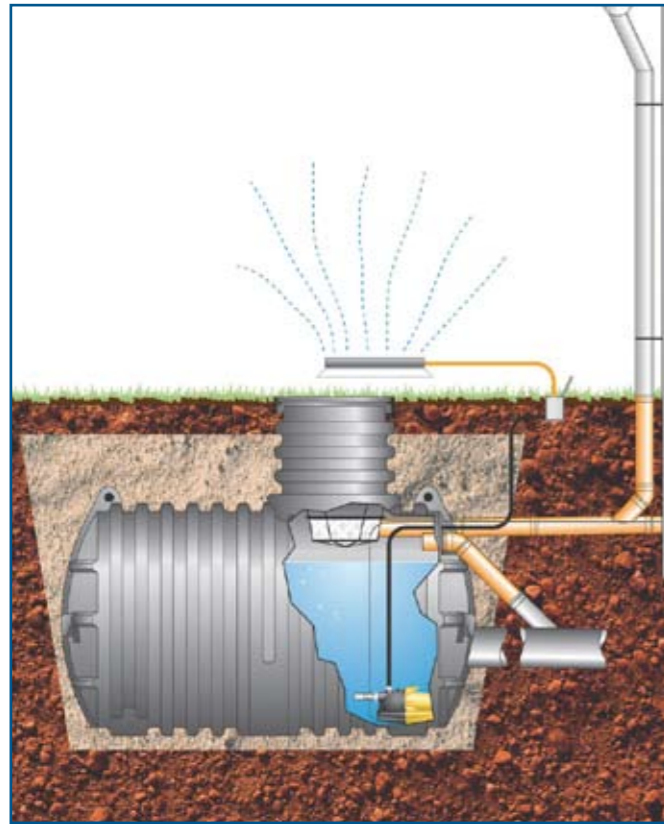
StormBank™ Garden User Manual



StormBank™ Garden

Rainwater Harvesting System

StormBank™ Garden *Beat the Hosepipe Ban!*



A large part of overall water consumption by a household can be due to garden use, especially in the summer months. As well as the full rainwater harvesting system, HRD Technologies Ltd can also supply a unique StormBank™ Garden system.

The StormBank™ Garden collects water from the roof in the same way as the full system, but no control panel is required inside the house. Instead, a supplied hose runs from a pump in the tank to a connection at the surface ready for your garden hose or sprinkler.

Perfect for Retrofit

The StormBank™ Garden system is ideal for retrofitting to existing buildings. No internal pipework need be changed and the only connection to the house required is a fused power supply. The installation is simple and quick, and using the system is as easy as turning on the tap!

Since there is no mains water connection, this system can continue to be used without contravening any hosepipe restrictions in force in your area.

The StormBank™ Garden system uses a high strength, ribbed, polyethylene tank, rotamoulded in a single piece to guarantee against cracks and leaks. The tank is covered by a 15 year material guarantee, when installed in accordance with our recommendations.

High Strength, Rotomoulded LDPE Tank

- Complete with inlet, overflow and cable duct connections.
- Pre-fitted internal filter.
- Overflow.

A range of tank sizes is available for the StormBank™ Garden:

- 1000 litres
- 1800 litres
- 3300 litres
- 5000 litres
- 6000 litres



Components

The StormBank™ Garden Kit comes complete with all the components and accessories required. Please check on delivery that all the components pictured have been supplied. If you have any queries please call us on: +353 (0)1 4013964.

<p>1 No. Automatic Pump Complete with 10 m sealed cable. 1100W, Maximum flow 51 l/min, 41 m Head.</p> 	<p>1 No. Hose Connection Point</p> 	
<p>1 No. Pump Lifting Rope</p> 	<p>1 No. Plastic Pump Inlet Filter</p> 	<p>1 No. Delivery Hose (10 m x 20 mm external diameter)</p> 
<p>1 No. 3/4" Female 20 mm Hose Insert and Washer</p> 	<p>1 No. 1" Male 20 mm Hose Insert</p> 	<p>4 No. 20 mm Stainless Steel Jubilee Clips</p> 

StormBank™ Garden Installation

The tank installation is very simple, requiring only a sand base and backfill. However, there are some important points to bear in mind:

- 1) It is essential that the inside of the tank is kept clean during installation. Any debris extracted through the system may damage the pump.
- 2) To avoid any lateral forces acting on the tank, it should be situated outside of a 45 degree angle of the base of any nearby foundations. This typically means the tank should be at least 2-3 m away from any building.
- 3) In the presence of a high water table or where the backfill material may be subject to saturation during construction, the advice of a suitable engineer should be sought in order to avoid unwanted buoyancy and deformation. Similarly, in a hillside location a retaining wall may be required and professional advice should be sought.
- 4) The excavation should not be made in a depression to prevent ingress of water.