



**APLAST**  
ROTOMOULDING



## Instructions for Installing an AQUAstay Tank



**for rainwater**



**for drinking water**  
(W 270 certificate)



**for waste water**

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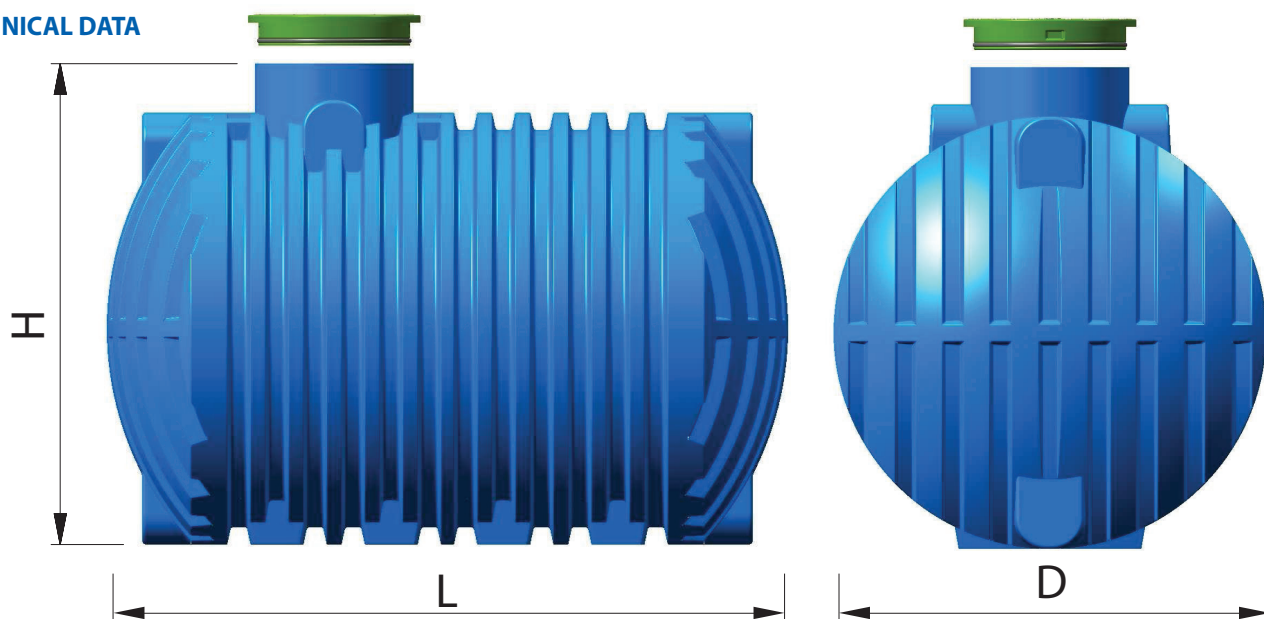
## 1. GENERAL INSTRUCTIONS FOR SAFE WORK

- The contents of the INSTRUCTIONS for installation and assembly must be followed carefully, otherwise warranty claims cannot be asserted. The tank must be inspected prior to installation and verified whether it has been manufactured in accordance with your requirements. The instructions, which are attached to the bottom of the lid, must be removed, together with the bag and clips.
- Installation shall be carried out by a professional company with qualified experts, who are familiar with the installation instructions.
- Follow the instructions for safe work when executing the works; another person must be present to protect you, especially when manipulating and installing the tank.
- The lid of the tank must be kept closed at all times to prevent the possibility of an accident.
- The tank shall be installed only into previously prepared construction pits and backfilled according to the manufacturer's instructions.
- Placing the tank out in the open is forbidden.
- The choice of lid type depends on the order and the buyer's wishes.
- Only those additional elements that have been specified and authorised by the manufacturer of the tank can be fitted onto the tank. In the event of the installation of unsuitable elements, the manufacturer cannot guarantee proper operation; hence, the buyer cannot assert the warranty rights.
- The images contained in the instructions for installation and maintenance are merely illustrative.

## 2. AQUAstay TANK

The AQUAstay tank has been manufactured by rotational moulding in three standard versions (L, XL and XXL). The dimensions of external clearances are shown in the table below.

### 2.1 TECHNICAL DATA



Volumen	Height (H)	Diameter (D)	Length (L)	Weight
2.000 l - L	1,6 m	ø 1,4 m	1,45 m	104 kg
2.500 l - L			1,75 m	120 kg
3.500 l - XL	2,0 m	ø 1,7 m	1,80 m	158 kg
5.000 l - XL			2,45 m	216 kg
6.000 l - XL			2,90 m	258 kg
7.000 l - XL			3,35 m	298 kg
10.000 l - XL			4,40 m	384 kg
8.000 l - XXL	2,6 m	ø 2,3 m	2,60 m	262 kg
10.000 l - XXL			3,10 m	308 kg
12.000 l - XXL			3,65 m	352 kg
16.000 l - XXL			4,80 m	516 kg
18.000 l - XXL			5,30 m	556 kg
20.000 l - XXL			5,80 m	596 kg
30.000 l - XXL			8,50 m	856 kg
40.000 l - XXL			11,20 m	1.116 kg
50.000 l - XXL	13,40 m	1.376 kg		

- Entry diameter of inspection chamber Ø 625mm.

### 2.2 EXTRAS and FITTINGS

- Connectors for connecting to PE pipes,
- PVC and PE pipes of all dimensions,
- Sand traps of 400 and 500mm in diameter and from 1 to 3m in depth, with a gap of 250mm,
- Entry seals for PVC pipes of 75, 110, 125, 160 and 200mm in diameter,
- A steady inlet, an overflow siphon and filter,
- Lids such as (lid with seal and additional protection),
- TELESCOPE or RING (for raising the entrance to the tank).

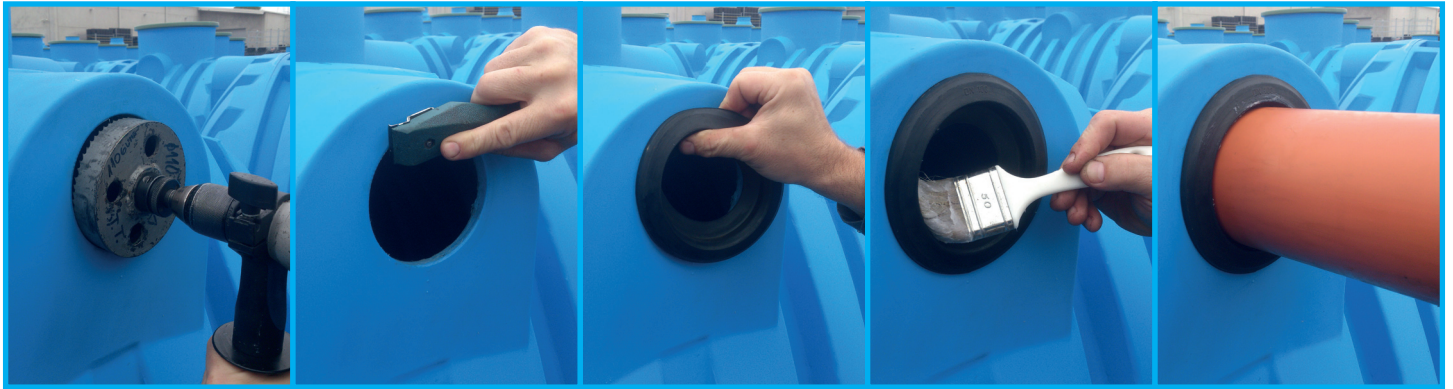
## 3. INSTALLATION OF TANK

### 3.1. PREPARATION OF TANK

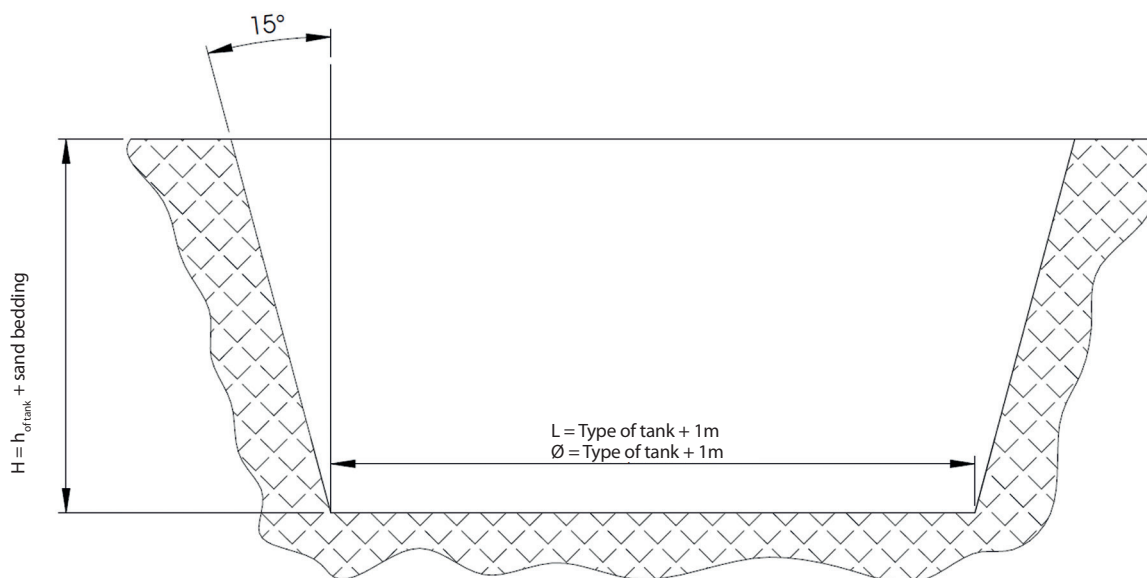
All the basic versions of tanks include a custom-made water outlet. Using a suitable double connector or reducing connector you can connect the outlets to the desired spot. Before lowering it into the construction pit, the tank must be inspected to make sure it was not damaged during transport and whether it appears flawless on the outside.

#### 3.1.1. Assembly of Fittings

The tank's entry fittings differ and are adapted to your requirements. You must choose a suitable pipe and the appropriate entry seal. The installation of the seal and the execution of a suitable opening must be carried out by a qualified individual with the tools suitable for such a task (a hole saw, a scraper, a food-grade lubricant etc.)

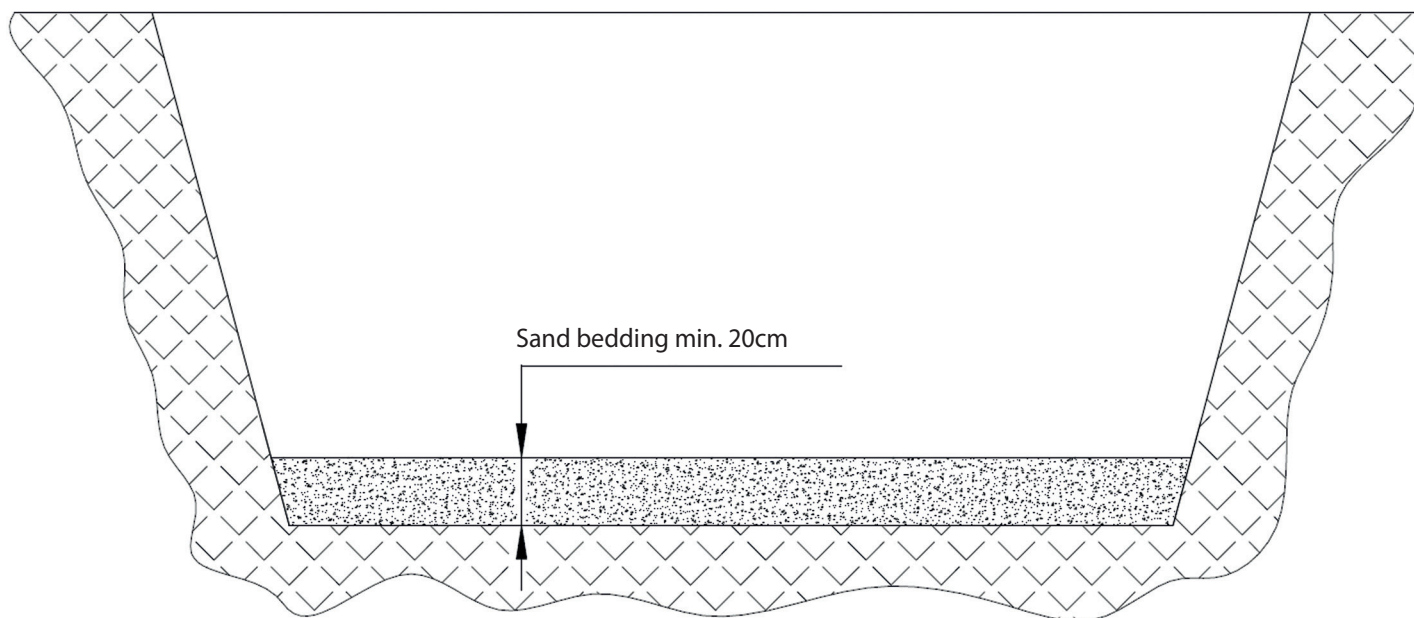


### 3.2. EXCAVATION OF A CONSTRUCTION PIT



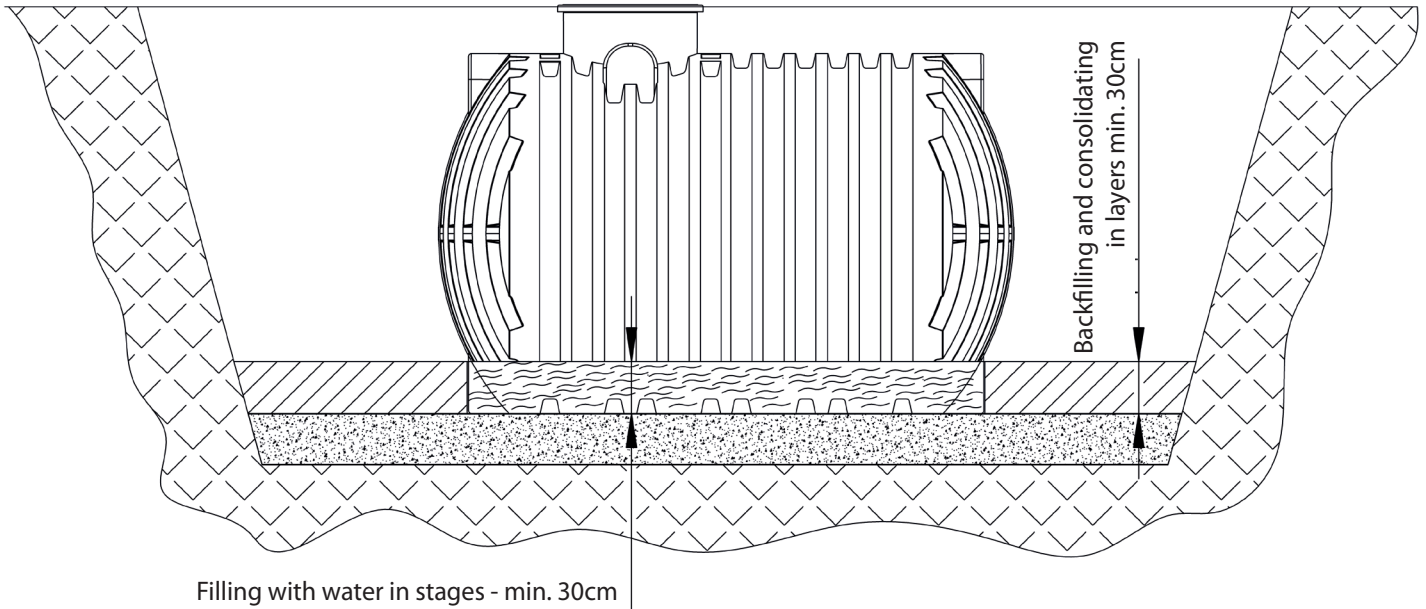
NOTE: maximum depth of tank entrenchment amounts to  $h + 500\text{mm}$ . The construction pit must be excavated at a min. angle of  $15^\circ$ .

### 3.3. MAKING AND PREPARING THE BEDDING



The body of the tank must be placed on top of suitable bedding. The latter must be solid and compact. Appropriate backfill material must be used. When using granular material, the permissible grain size is from 0 to 32mm or from 0 to 16mm when using crushed material. Do not use frozen material. Suitable bedding thickness is from 20 to 30cm and must be compressed to 97% Proctor compaction. When groundwater is present, the bedding must be made out of MB15 lean concrete.

### 3.4. BACKFILLING AND PLACEMENT OF TANK

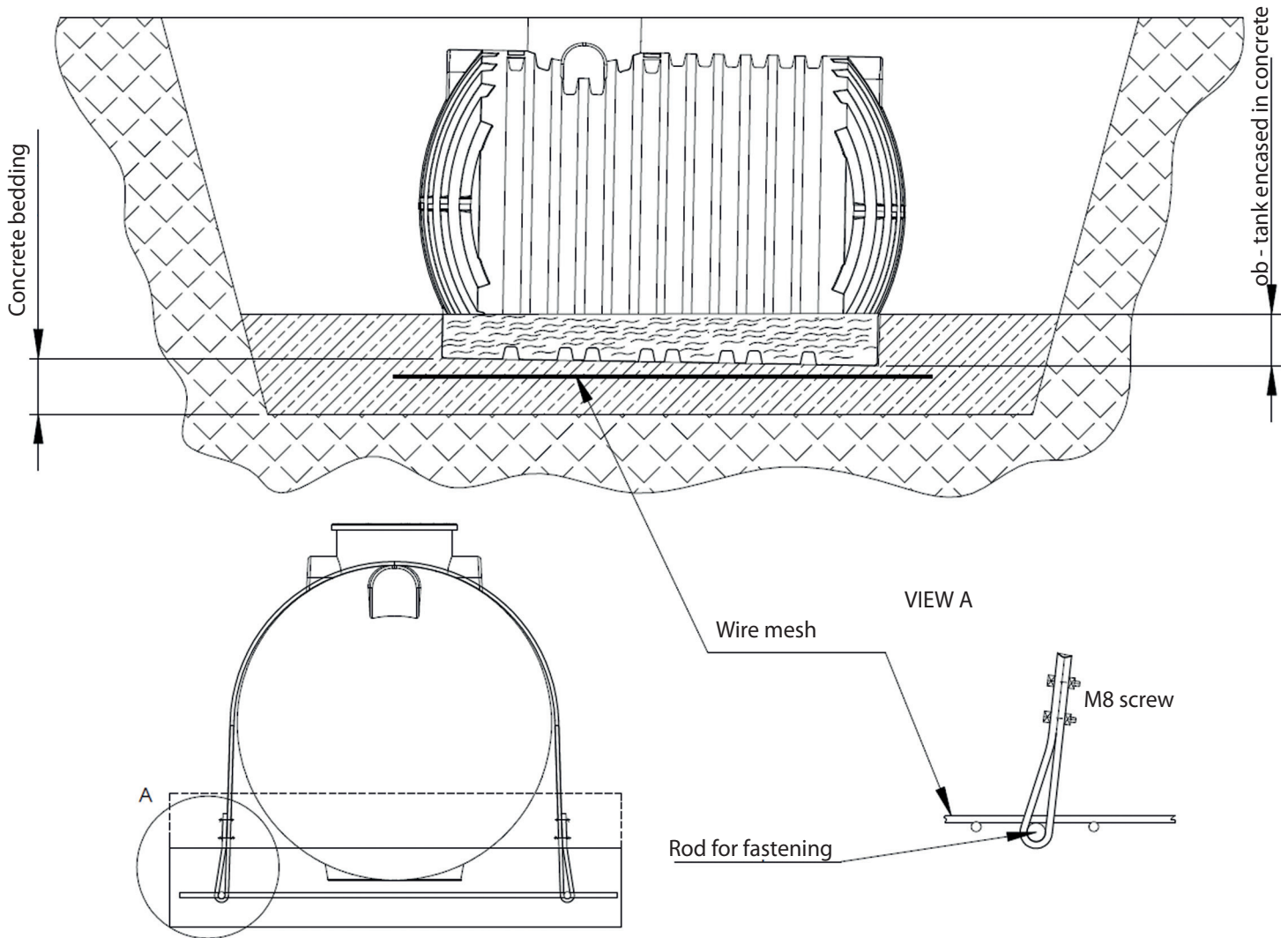


Backfilling the body of the tank requires the use of appropriate backfill material (the same as was used for making the bedding) and the proper execution of backfilling.

The backfill material has to be consolidated and compressed carefully and in layers (up to 30 cm in height) to 97% Proctor compaction over a minimum width of 50cm from the wall of the tank. Simultaneously with backfilling the body of the tank, water must be poured into the tank itself, so that the level of the backfill material equals the water level in the container. When backfilling, pay special attention to the space on the bottom. Using manual aids, fill in and consolidate the entire empty space, thus preventing potential subsequent deformation of the bottom.

When backfilling the PE container, make sure that heavy construction machinery does not drive over the body or in the area of backfilling.

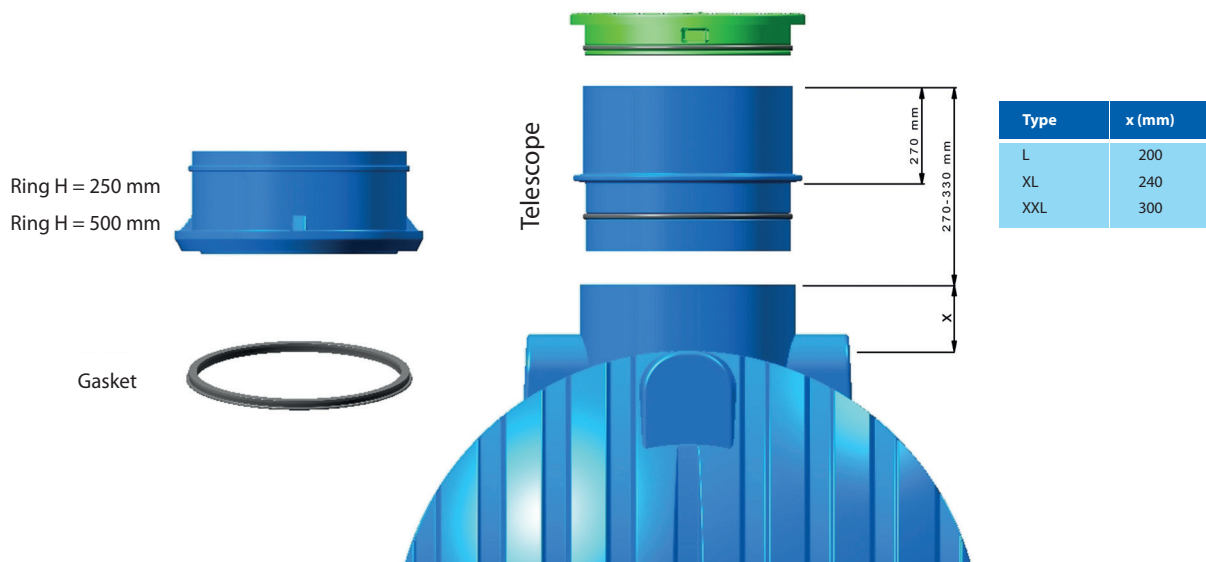
### 3.5. ASSEMBLY OF THE TANK IN THE EVENT OF GROUNDWATER



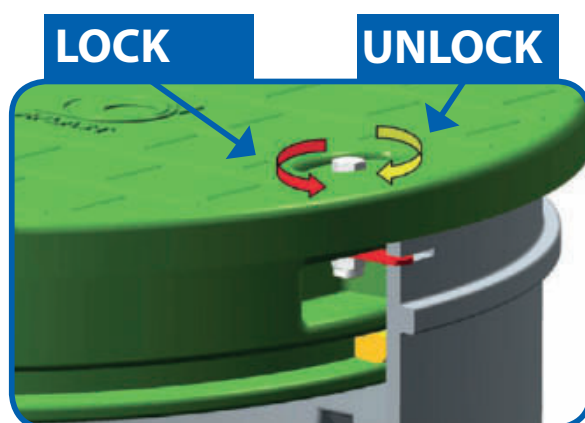
In the event that groundwater is present throughout the entire height of the tank, the body of the tank must be encased in 30cm thick concrete, up to the height of the maximum groundwater level or minimally to the height of 70cm. Wire mesh and an additional wire rod are inserted into the foundation slab in order to attach a galvanised fastening steel tape. The fastening tape is fixed in place with three M8x40 stainless screws. The fastening tape may enclose the body of the tank and must not be subjected to a tensile force that would deform the shape of the body of the tank.

## 4. ASSEMBLY OF THE LID AND FINISHING WORKS

After the backfilling of the tank is finished, the height of the manhole has to be adjusted to the surrounding terrain by cutting the ring of the tank. Factory-made tags, which allow horizontal cutting, have been made for this purpose. The tank can be made higher, but the total height of the reservoir must not exceed  $h + 500\text{mm}$ .



The tank has a factory-installed walkable PE lid with seal, which can be replaced with a cast-iron lid at the request of the buyer. Prior to any assembly of the lid, the seal of the lid must be cleaned and lubricated with a food-grade lubricant. In the case of a lid with a seal, a safeguard can be ordered as an extra, which protects the lid from being opened. This is especially important when children or under-age persons are in the vicinity of the tank. The decision of choosing a lid with a safeguard is made by the buyer; hence in the event of an accident, the seller and manufacturer shall not be held liable for potential consequences if a lid without a safeguard has been chosen.



**Safeguard**

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ROTOMOULDING

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