

1. ALL WATER TANK

FROM 10 TO 20 M³

POLYETHYLENE (PE)

LAYING OUTSIDE THE WATER TABLE

6308

1 Technical definition

One-piece polyethylene all-water tank **with built-in pre-filter**, designed to retain settleable matter present in domestic wastewater. Domestic wastewater includes black water (w.c....) and grey water (bathroom, kitchen, laundry). A complete wastewater treatment system consists of an all-water tank and a secondary treatment system, either through the soil or another filter bed.

2 Functioning

The wastewater is collected in the all-water tank. The suspended solids settle and are digested. Over time, the volume of sludge decreases and stabilizes. On the surface, the grease is trapped and slowly hydrolyzes.

3 Maintenance

Polyethylene pits are not susceptible to corrosion and do not require special maintenance. It is necessary to empty the tank when the volume of sludge reaches 50% of the volume of water in the tank.

Before draining, make sure that the water level in the piezometer is no higher than 1 m. If this is not the case, postpone draining or lower the water table. Avoid emptying during rainy periods. After each emptying operation, the tank must be immediately filled with clear water until it overflows through the outlet pipe. Integrated pre-filters should be cleaned with a hose, removing them if necessary.

4 Installation



Please refer to our website for current documents.

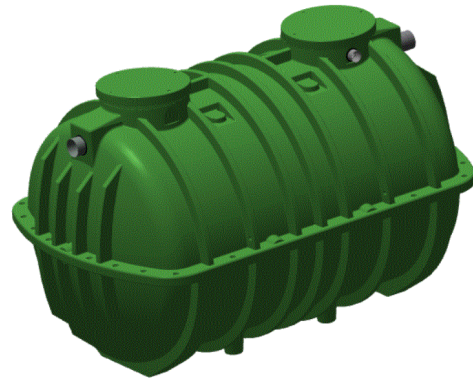
NOTE: Shackles are supplied and attached to the bowl for handling.

5 Sizing

The capacities of the SIMOP all-water tanks take into account 2 criteria:

- Sludge storage volume
- the admissible flow rate

These criteria have enabled SIMOP to characterize the type of tank adapted to the need according to the permanent or non-permanent use of the grouped habitat. On the basis of 150 liters of water consumed per day and per inhabitant, our all-water pits can be used according to table 01.



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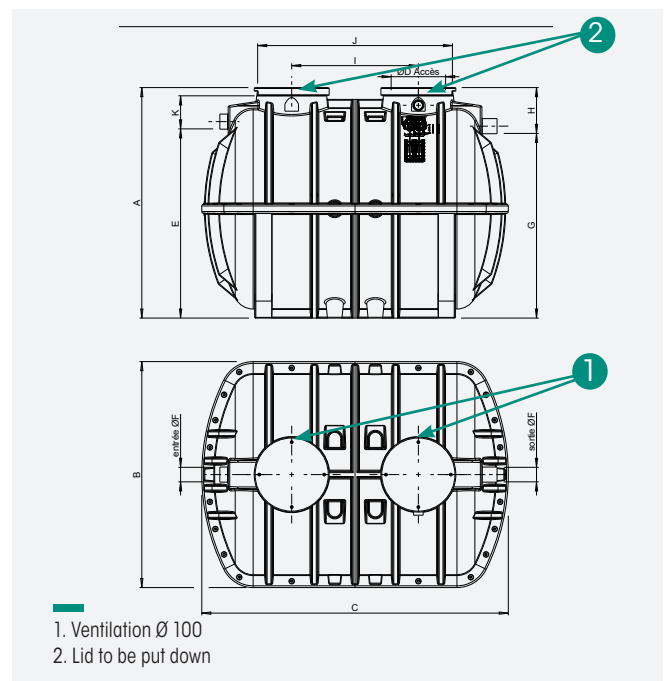


Table 01

| Useful volume | Maximum number of permanent users |
|-------------------|-----------------------------------|
| 10 m ³ | 22 |
| 12 m ³ | 26 |
| 15 m ³ | 33 |
| 17 m ³ | 37 |
| 20 m ³ | 44 |

| Reference | Dimensions in mm | | | | | | | | | | | Useful volume (m ³) | Max. backfill height (mm) |
|--------------|--|------|------|-----|------|-----|------|-----|------|------|-----|---------------------------------|---------------------------|
| | A | Ø B | C | Ø D | E | Ø F | G | H | I | J | K | | |
| FTE2/6308/10 | 2840 | 2490 | 3378 | 600 | 2085 | 160 | 2035 | 505 | 1396 | 2146 | 365 | 10 | 300 |
| FTE2/6308/12 | 2840 | 2490 | 3928 | 600 | 2085 | 160 | 2035 | 505 | 1946 | 2696 | 365 | 12 | 300 |
| FTE2/6308/15 | 2840 | 2490 | 4782 | 600 | 2085 | 160 | 2035 | 505 | 2800 | 3550 | 365 | 15 | 300 |
| FTE2/6308/17 | 2840 | 2490 | 5332 | 600 | 2085 | 160 | 2035 | 505 | 3350 | 4100 | 365 | 17 | 300 |
| FTE2/6308/20 | 2840 | 2490 | 6232 | 600 | 2085 | 160 | 2035 | 505 | 4250 | 5000 | 365 | 20 | 300 |
| RH2/6030 | Extension to be placed height 300 mm | | | | | | | | | | | | |
| CA3/6394/10T | Anchoring belt to be clicked for installation in the presence of groundwater | | | | | | | | | | | | |

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6 Earthworks

Please note the height of the tank must be calculated in such a way as to ensure that **the height of the groundwater table does not exceed 1 m above the bottom of the tank.**

Make an independent excavation for each tank and if necessary, lower the groundwater table until the backfilling of the device is completed

The walls of the excavation should be about 50 cm all around the tank.

The bottom of the embankment constituting an earthen merlon must be at least 4 m around the tank.

7 Special precautions

After the lateral sand backfill has been completed and the pit has been completely filled, a self-supporting reinforced concrete slab should be built just above the upper generatrix of the tank, resting on the stabilized and undisturbed ground all around the excavation in the following cases :

1. In case of backfill of more than 30 cm above the upper generatrix of the tank.
2. In case of punctual overload due to the passage of vehicles at less than 4 m from the edge of the excavation.
3. When using concrete sockets.
4. In case of overloads due to extreme weather conditions

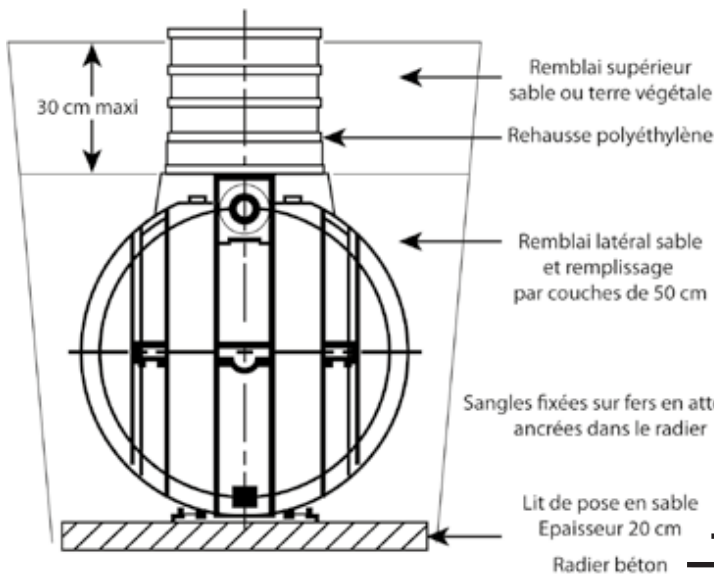
8 Advice

To reduce the proliferation of mosquitoes in the system, the effluent must not be accessible from the outside, therefore :

- close all lids tightly,
- check and clean the insect screens on the outside air intake caps regularly,
- ensure that the secondary ventilation outlet is equipped with a mosquito screen or odor filter.

WASTEWATER TREATMENT

POSE EN TERRAIN NON HYDROMORPHE NON ARGILEUX SANS NAPPE PHRÉATIQUE



POSE EN TERRAIN HYDROMORPHE ARGILEUX AVEC NAPPE PHRÉATIQUE

