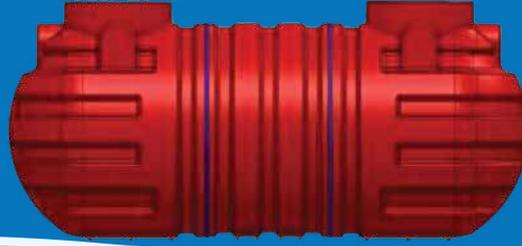


# STR



## Septic/Grease Separator



Septic tank is used where a building, a house or a development can not be connected to the mains sewer line as it is too difficult for access or inexistent.

Septic tank is made of UV stabilized polyethylene (PE) material and it is intended for use in underground drainage and sewerage systems. It can be installed in both traffic areas and non traffic areas. The ribs on the septic tank have been carefully designed to provide extra strength to the product and to allow for installation without concrete backfilling and/or walls.

Units are available in several capacities suitable for applications from a single household to a large industrial or commercial complex.

### Benefits:

- High quality industrial strength design
- Robust construction for challenging site conditions
- Can be installed on or off road
- Unique cylindrical design for strength and reduced excavation depth

A septic tank consists of a chamber that retains sewer from a property for sufficient time to allow the solid to form into sludge at the base of the tank, where it is partially broken down through anaerobic digestion. The remaining liquid in the tank then over-flow from the tank by means of an outlet pipe to a pit or leaching field as per local regulations & engineer's instructions.

Polyflow cylindrical septic tank are available from 3000 litres to 10000 litres (please refer to the table below) and allows reduced depth excavation in comparison with the same size of spherical septic tank, offering considerable savings where ground conditions are difficult or where there is a high water table.

## Septic tank dimensions

Product Code	Total Capacity L	Working Capacity L	Height at cover level mm	Length mm	Inlet/Outlet Ø mm	No of openings	Top openings mm
ST 3000	3200	3000	1570	2465	110/160	2	600
*ST 3000/2	3200	3000	1200	3750	110/160	2	600
ST 4000	4400	4000	1570	3270	110/160	2	600
ST 5000	5500	5000	1570	4075	110/160	2	600
ST 10000	10800	10000	1570	8100	110/160	3	600

\* with screw type lids.

- All septic tank supplied with 110mm inlet/outlet fittings. 160/200mm inlet/outlet can be provided at additional cost.
- Recommended size for household use is 3000L as per local norms.
- Total no. of people is calculated for household as an estimate only.

When installing a septic there are a number of factors to be considered as per the Government guidelines such as proximity to any premises, watercourse and boreholes. Adequate access to tankers for emptying should also be taken into consideration.

STR is one stop shop for all your house discharge works. Our well established ranges of quality PE products include:

- Sewerage inspection/manholes chambers.
- Gully traps.
- Grease traps for individual and industrial use.
- Water tank 500L, 750L, 1000L, 1500L and 2000L.
- Septic tanks.
- Multi-use, flat base chambers for pumps, valves, electrical and other connections.

Advanced technical support is available for all products from our technical support team and specialist sales.

### STR Marketing Ltée

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## A. General Installation procedures

The instructions are intended for installation up to 1.5m depth from bottom to ground level. This type of installation is meant for non-traffic areas. Please refer to section F below for depths of more than 1.5m and in traffic area installation.

**Important :** Do not install in place where ground water might be found. Please consult STR for such installation. Rain water should not be allowed in septic tank.

Illustration of the installation at up to 1.5m depth from bottom to ground level



## B. Excavating, digging and assembling

- 1 Excavate 60 cm wider and 15cm deeper than the septic tank size.
- 2 A base layer of 15 cm should be filled and compacted to 95% with rock sand or selected material with size less than 32mm and without any sharp objects/rocks.
- 3 Place the septic on the compacted layer of 15cm.
- 4 Check the levelling.
- 5 Connect your inlet and outlet with inlet seals. The direction of the inlet/outlet should be taken into consideration as it can be adjusted. Please note that the diameter of the outlet pipe should be equal to or larger than the diameter of the inlet pipe.
- 6 **The height difference between the inlet and the outlet should be at least 3 cm. If this difference is less than 3 cm then the installation will not work efficiently. Gradient of inlet and outlet pipes should be maintained at 2% for proper drainage.**

## C. Back filling

Back filling material should be inserted under the septic tank in order to fill-in the gap between the septic and the compacted layer.

Back fill around the septic tank with rock sand or selected material with size less than 32mm and without any sharp objects/rocks in layer of 30 cm and compact to 95%. In parallel fill the septic with water up to same height. When the compacted layers around the septic reach half the height of the septic, the inlet/outlet level should be checked. Continue to fill-in and compact layers up to ground/cover level while filling the septic with water at the same time.

## D. Opening height adjustment

In case the ground level is higher than the septic cover level, PE elevation/extension can be used. The extension should be installed using silicone in-between or in certain cases we recommend welding of units. (Please contact STR if required)

In situation where ventilation is necessary, a 50cm pipe should be connected with a rubber seal on the opening neck of the septic.

## E. Cover

PE covers can be used for installation in the garden or non-traffic areas (PE cover come with the septic tank). For installation in parking area a cover of CLASS C is required. For installation in traffic areas a cover of CLASS D is required. Local government regulations must be respected.

## F. Depths more than 1.5m from bottom of septic tank/ Road installation instruction.

For installation over 1.5m in depth from bottom of septic tank or in traffic areas, a concrete ceiling of 20-25cm thick should be placed above the 25-30cm backfill on top of the tank. This concrete ceiling should be 60cm longer and wider than the septic tank. Please refer to the illustration below. Please consult site engineer for concrete specifications.

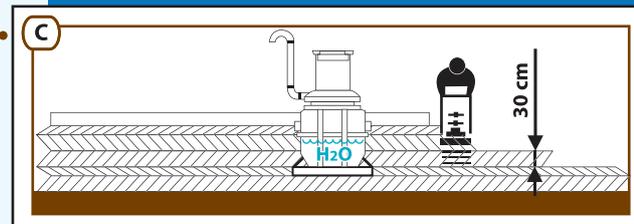
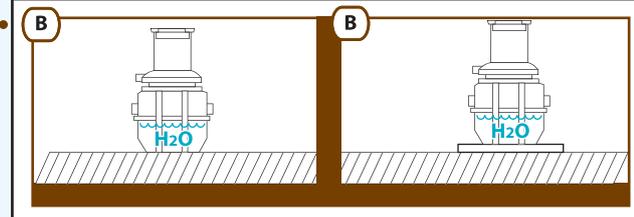
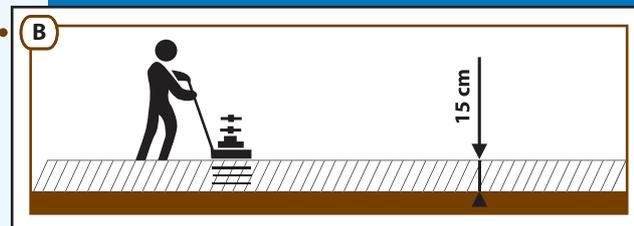


Note : In traffic areas – concrete ceiling is a must. Non-traffic areas – maximum backfill allowed – 25-30cm.

## Reference Projects:

- Trou aux Biches Hotel
- Les Allées d'Helvetia
- Athena Villas
- St Regis Hotel
- Belle Rivière Hotel
- West Rock
- Jeetoo Hospital
- Bagatelle Mall of Mauritius
- Azure Villas
- La Mivoie commercial center
- Long Beach Hotel
- Villas Tamarin
- Beach House Hotel
- MCB Ebène

# STR



PE Cover



DI Cover ( Class C/D )



AUG 2023