



# Installation

## Water treatment system

Wastewater	Steel
Stormwater	Polyester

Cylindrical horizontal tank



**Installation instructions delivered with the system remain reference instructions.**

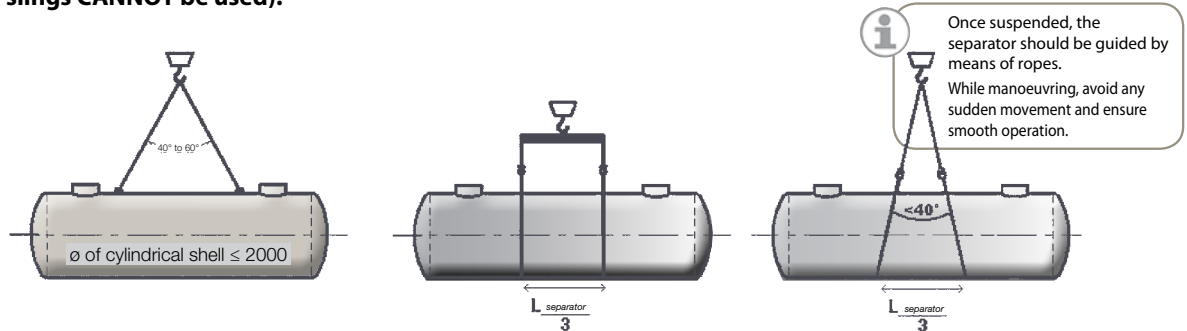
### A / Preface

#### 1- Manoeuvring:

**Before attempting to manoeuvre the separator, make sure there is absolutely no water in either of the two compartments.**

Any manoeuvring of the separator should be undertaken using appropriate lifting machinery. In case the separator is fitted with lifting brackets, use them.

If the separator is not fitted with lifting brackets, respect the lifting diagram below. Only textile slings should be used (**steel slings CANNOT be used**).



#### 2 - Delivery and storage:

Make sure, by visual inspection, that the outer shell has not been damaged during transit. Any defect should be noted on the transporter's delivery document.

Place the separator on chocks, away from any potential risk of impacts. Make sure no rainwater enters the tank (the separator shall be emptied before manoeuvring).

#### 3 - Basic precautions:

- Refer to the **technical datasheet or contact us** in order to **get the limiting conditions of installation** (backfill height, ground water level).
- **Under no circumstances fill the tank with water whilst above ground.** Should a water tightness test be required, it should only be undertaken after having completed step 5 of the underground installation procedure or by observing the above ground installation procedure. A comparison of the water level should then be made 12 hours after filling.
- **No compaction equipment shall be used** to stabilise the backfill around the separator. Only hosing with water is recommended.
- In case of **additional static loads** (talus, steep slope, big depth...), contact us for additional reinforcement or protection of the tank as the case may be. In case of dynamic loads (vehicular traffic) a load-protection slab is absolutely necessary.
- In case of **vehicular traffic** concrete extension shafts or cast iron covers can be used provided that they are supported by adequate load-spreading slabs with a 500mm sand/gravel layer between the tank and the slab.  
*The structural dimensions of such a slab will be calculated by a design office conversant with this field.*
- Water saturation (even to a partial extent) of the excavation soil by a ground water table or by runoff waters may require the anchoring of the tank (see the **chassis-speed option** or anchoring to a concrete bottom slab).
- Should you have any doubts, refer to the installation standards **NF P16-442, NF 976-2** or contact Techneau.

### B / Procedure for underground installation:

- 1 • Stabilise the bottom of the excavation and make sure it is horizontal. If necessary to anchor the separator (see § 'Precautions'), pour a concred base slab incorporating anchor steel rods. *The necessary volume of concrete should be calculated to compensate the buoyancy of the empty separator*
- 2 • Lay a 100 mm bed of sand on the stabilised floor of the excavation. .
- 3 • Place the separator in the excavated trench **after having removed the transportation cradle and the protective material** .
- 4 • Adjust the anchoring straps / belts or turnbuckles (option) without prestressing the tank. If no anchoring device is provided, put clean water in the tank (20% of the total capacity) in order to stabilise it.



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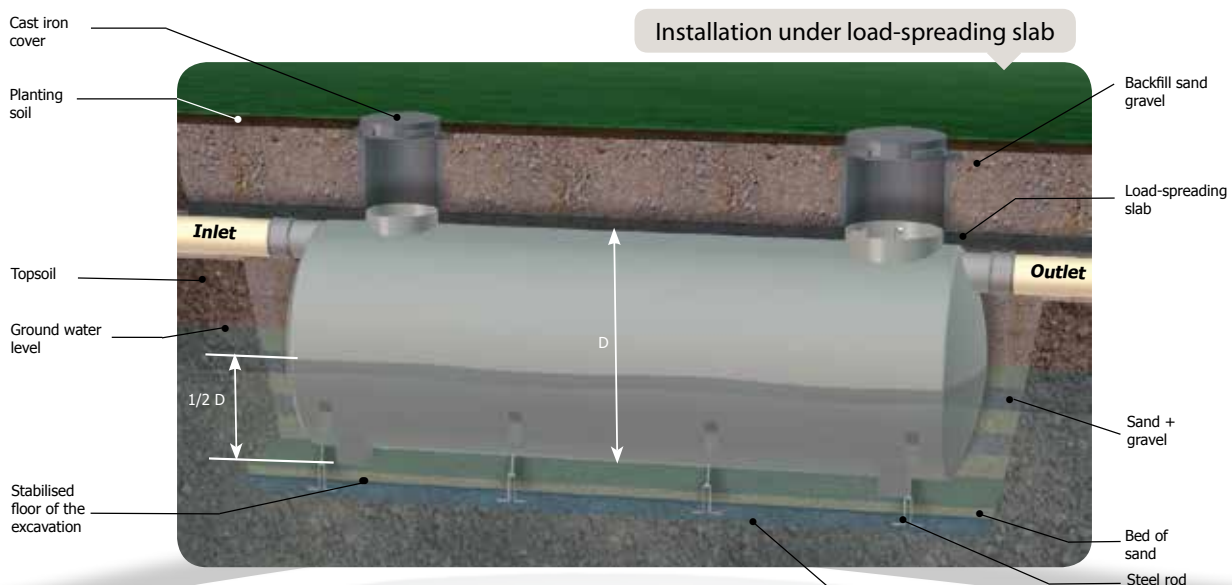
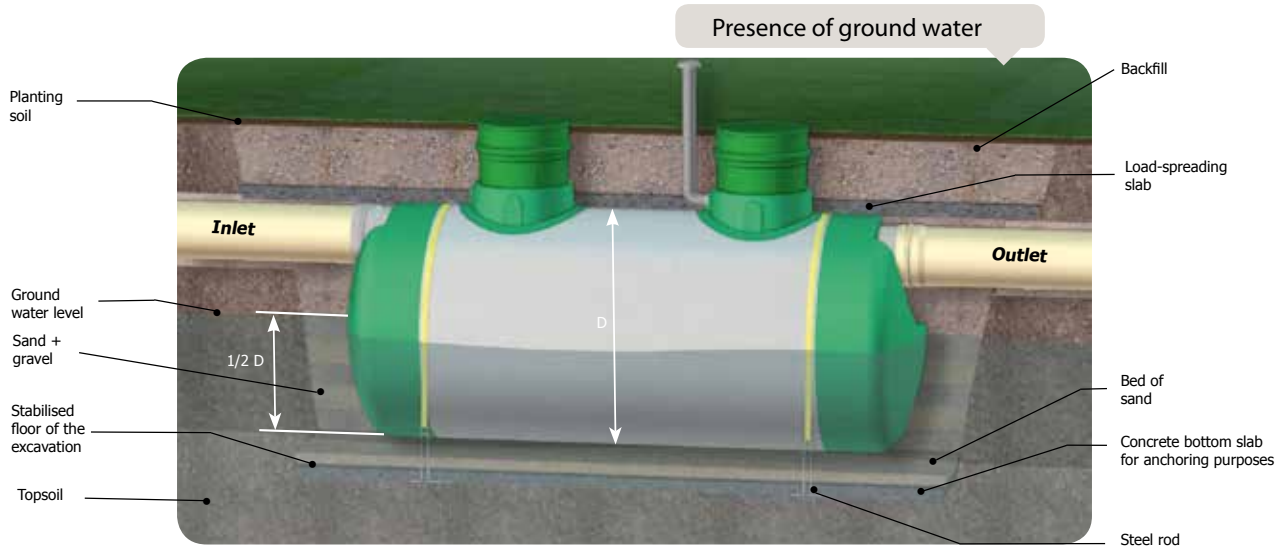
Horizontal cylindrical tanks



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## B / Procedure for underground installation (continued):

- 5 • Backfill around the separator using sand and/or gravel 10-14 in consecutive layers no more than 300 mm deep. Stabilise the backfill by hosing each layer with water ( **No mechanical compacter shall be used** ). **Pay attention to fill any gaps around the separator especially at the bottom of the separator in order to ensure a good installation of the tank**, Continue to do this way at least until you reach 50% of the tank total height.
- 6 • Connect the inlet and the outlet. *Sleeves are provided for PVC tube.*
- 7 • Backfill with sand or gravel 10-14 until the outlet pipe is completely covered.
- 8 • Stabilise the backfill by hosing each layer with water
- 9 • If necessary (see § 'Basic precautions') pour the load-protection slab.
- 10 • Fit the manhole extension shafts (if necessary) and adjust their height to that of the surrounding ground level.
- 11 • Complete backfilling with topsoil.



Concrete bottom slab for anchoring purposes

INS01 Version, 20-01-2014 edition, Non-contractual information.

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