BIOROCK
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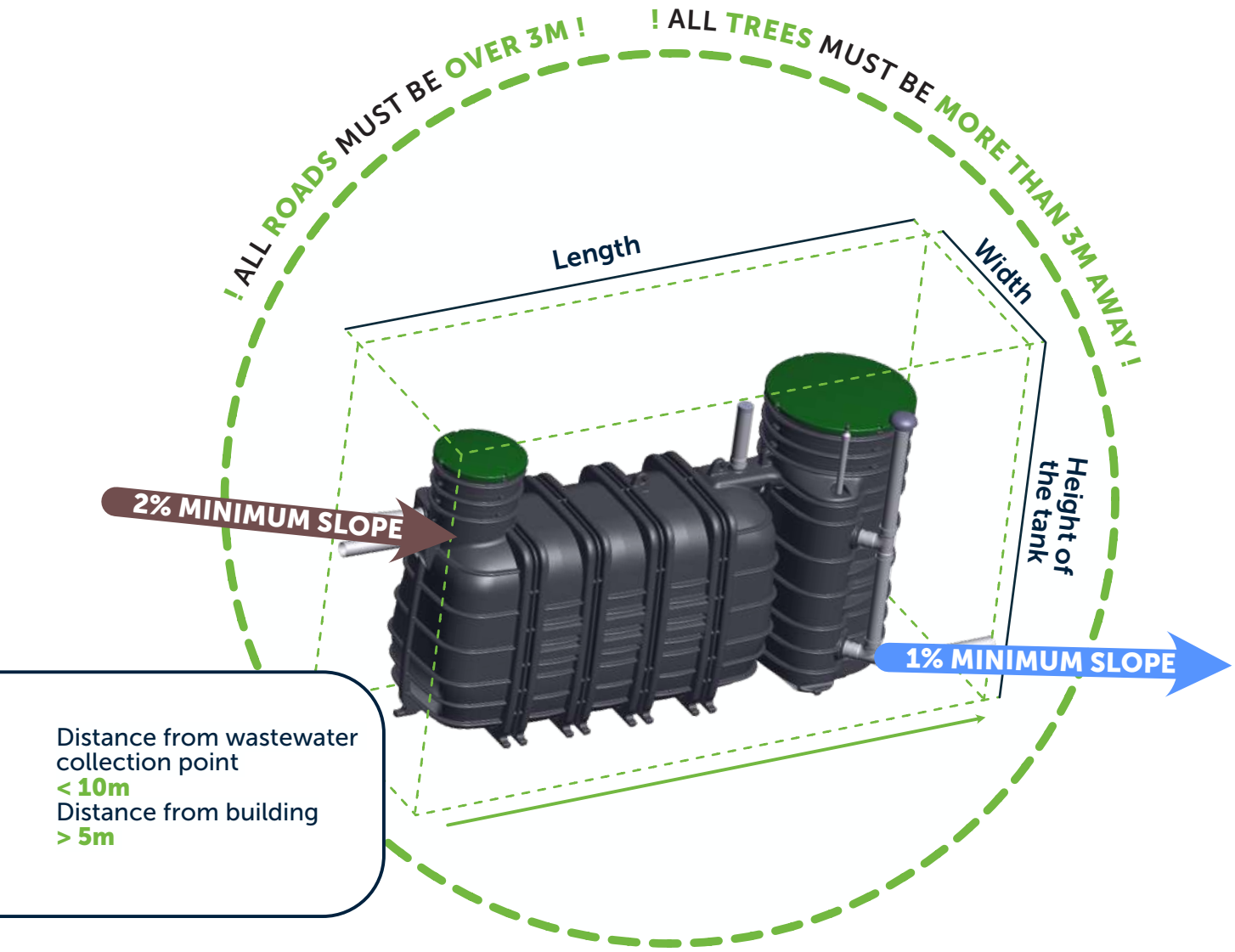
INSTALLATION GUIDELINES

MONOBLOCK V3

This mini guide is not a substitute for the User's Guide.

SUMMARY

2 INSTALLATION INSTRUCTIONS



	MONOBLOCK-2	MONOBLOCK-3
Length	2800 mm	3795 mm
Width	1200 mm	1150 mm
Total height	2000 mm	2000 mm
Minimum area of the excavation	6,12 m^2	7,69 m^2
Installation volume	12,24 m^3	15,38 m^3

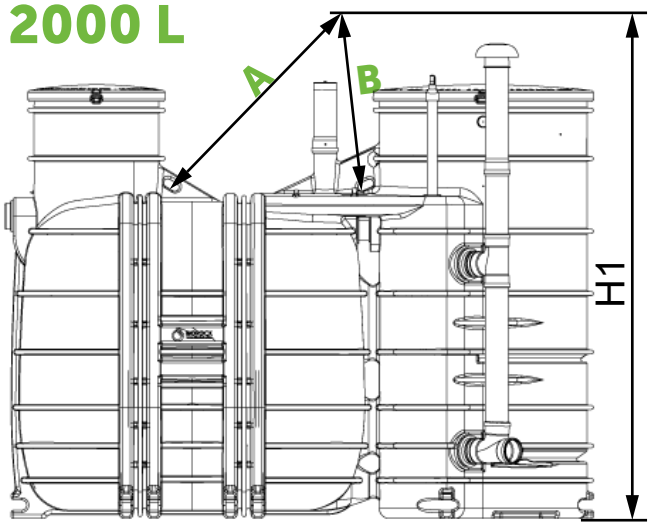
3

LIFTING AND HANDLING **INSTRUCTIONS**

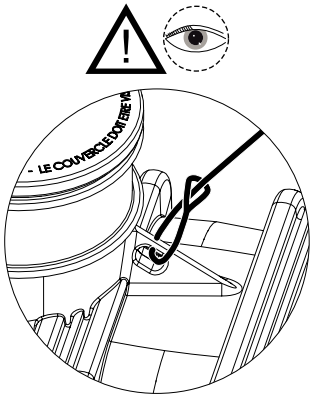
✓ Lifting rings are located on top of each tank, allowing crane lifting with the slings provided.

✓ Tanks should be handled, transported and stored carefully after delivery to prevent damage. Horizontality of the tank should be maintained during handling.

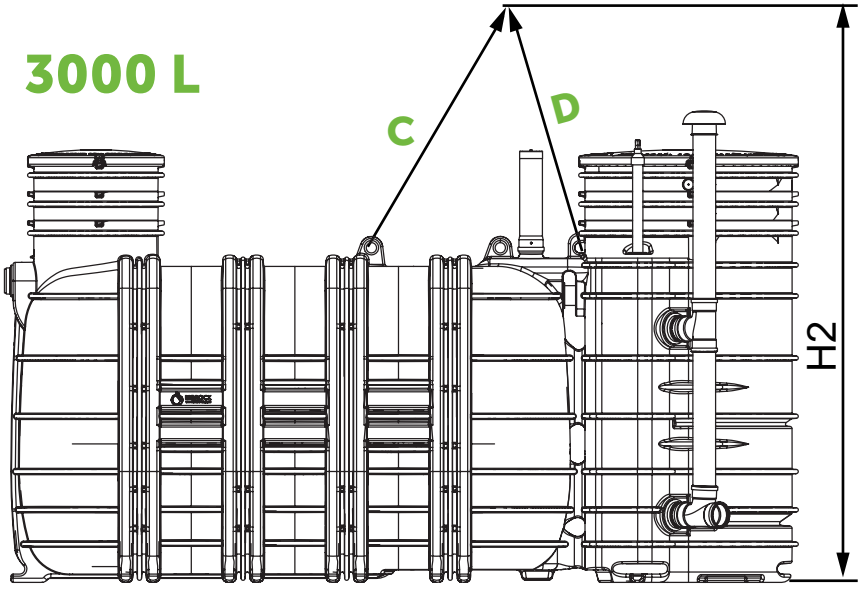
2000 L



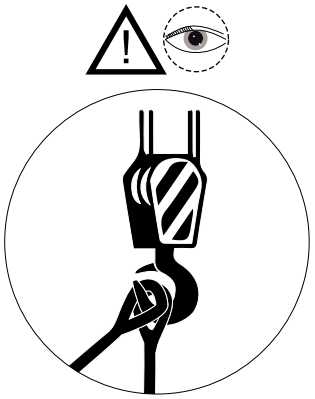
Total weight: 298 kg



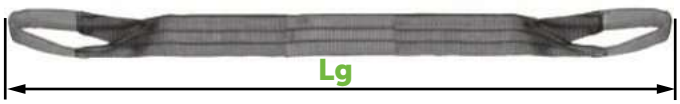
3000 L



Total weight: 395 kg



SLINGS

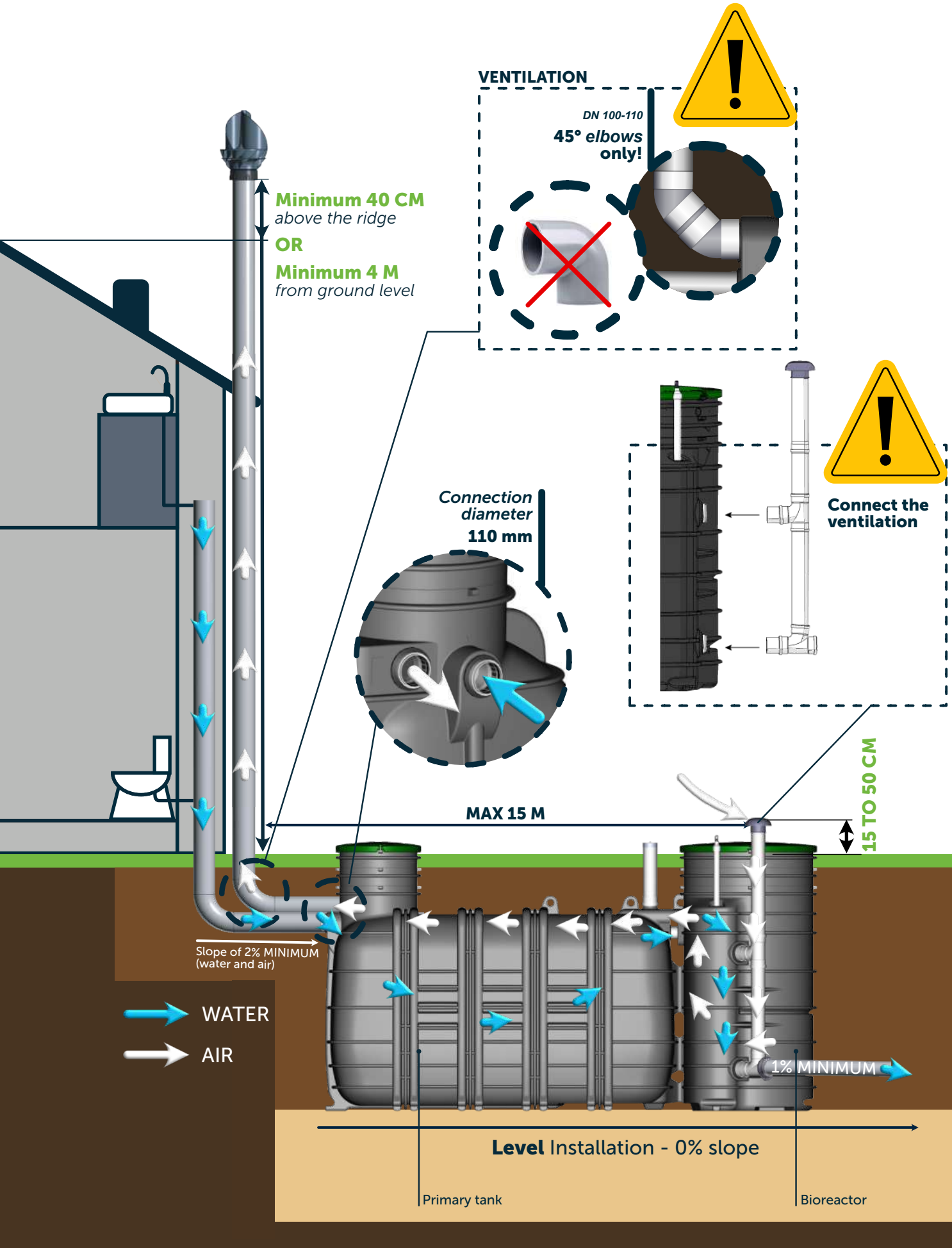


Maximum working load = 500 Kg	Lg	A	1190 mm	H1	< 2450 mm
		B	850 mm		
		C	1450 mm	H2	< 3000 mm
		D	1450 mm		

PACKING

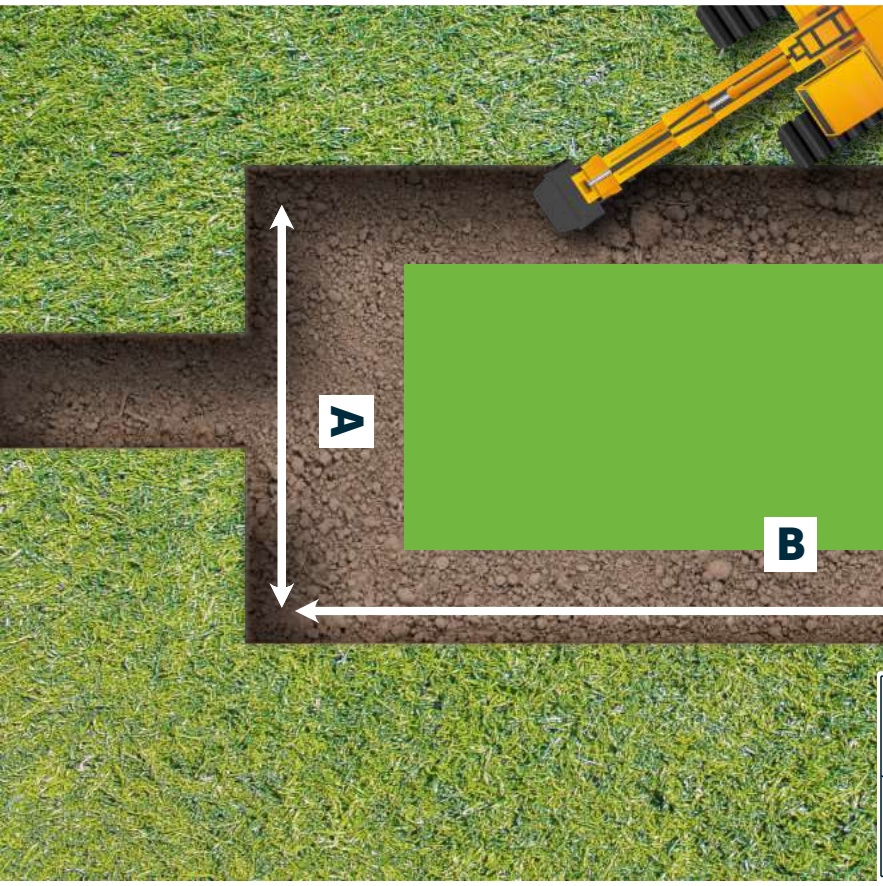
Ventilation kit in the treatment unit (+ connection kit if pump shaft)

4 HYDRAULIC CONNECTIONS AND VENTILATION



GENERAL INSTALLATION **INSTRUCTIONS**

EXCAVATION



MONOBLOCK 2000L	A	1800 mm
	B	3400 mm
MONOBLOCK 3000L	A	1800 mm
	B	4400 mm

The excavation must be located at least 5m from any building and 3m from roads, trees and property lines.

6 INSTALLATION IN DRY GROUND

- ✓ Sound soil of good bearing capacity
- ✓ Absence of water at the invert of the structures

INSTALLATION STEPS

1- After excavation, **stabilize the bottom of the dig with a 10 to 30 cm layer of sand,** or gravel of 6 mm maximum. Carefully compact this first layer and make sure the surface is level.

Sound material with a grain size of 4 to 6 mm

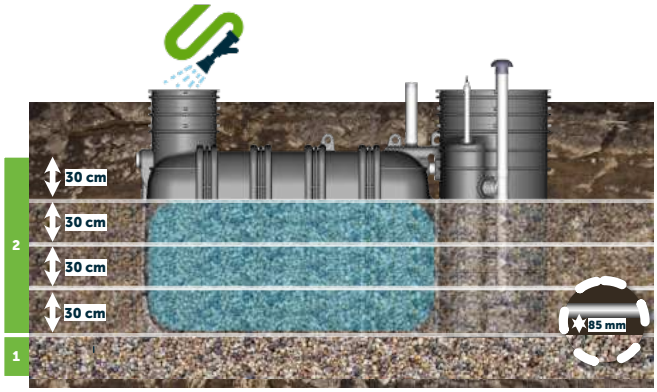
sand, gravel, etc.

Thickness of the bottom of the excavation : 10 - 30 cm

2 - After placing the tank and connecting the ventilation kit, **backfill in 30 cm increments while simultaneously filling the primary tank with clear water**. Compact **manually** between each section.

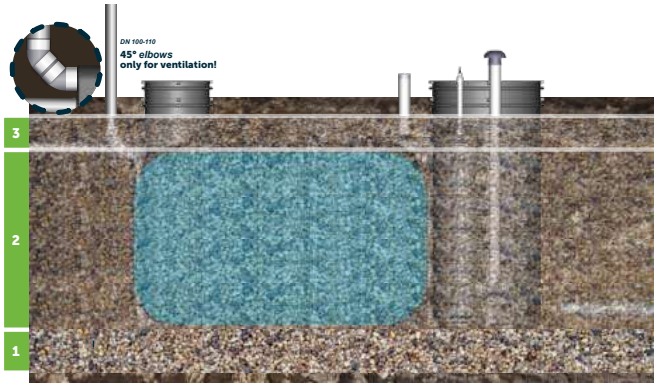
Alternating water filling and compaction

No mechanical compaction



3 - When the backfill level reaches just below the level of the hydraulic and ventilation connections, **make the connections. Backfill to 20 cm under the lids and compact.**

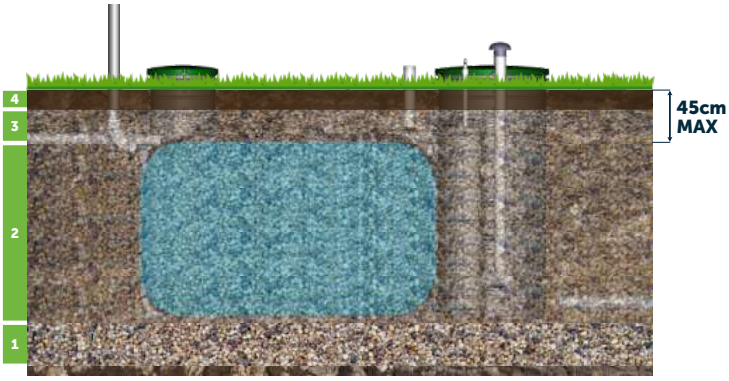
Ventilation: 45° elbows only



4 - To finalize the installation, **backfill the surface to a height of 20 cm** using the excavated topsoil, **previously cleared of any stony or sharp elements**, then position and secure the lids.

Never exceed 45 cm of backfill height on the tank (including topsoil).

Use of additional extensions: See recommendations in § 3.7 of the User's Guide.



7 INSTALLATION IN WETLANDS

- ✓ Wet land, presence of groundwater
- ✓ Presence or variation of water table

Water level < water level of the installation

INSTALLATION STEPS

1- After excavation, **stabilize the bottom of the excavation with a minimum 20 cm layer of reinforced concrete invert** on a geotextile mat. Carefully compact this first layer and make sure the surface is level.

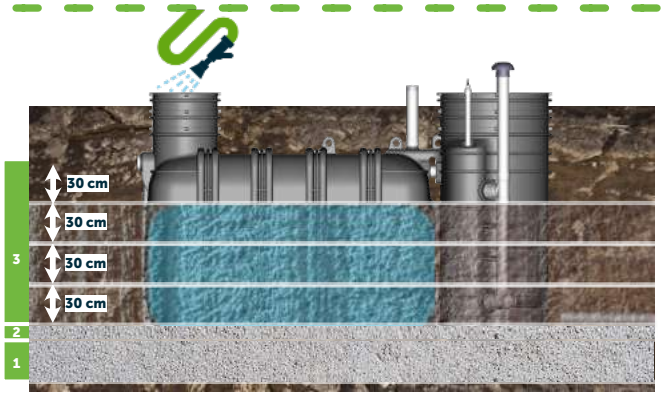
Characteristics of the concrete slab to be determined by a Design Office

2 - To anchor the tank, place **2x 1 cm diameter Tor iron** around it, at the level of the brackets. Place the tank on the bottom of the excavation, making sure that it is **level**. Finally, pour **10 cm of concrete** to enclose the Tor Irons.

Connect the hydraulic and ventilation outlets in a watertight manner once the concrete is dry.

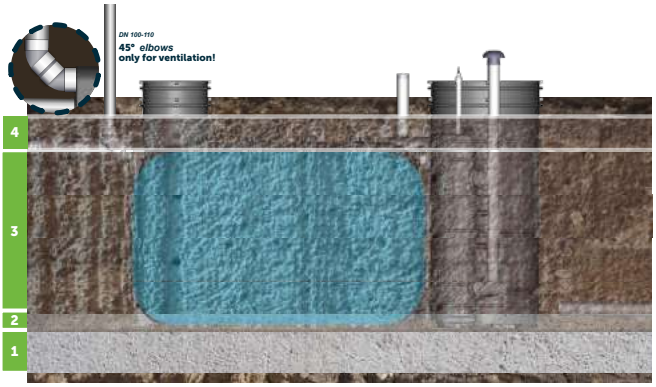
3 - Backfill in 30 cm increments while simultaneously filling the primary tank with clean water. Compact **manually** between each slice.

Sound material of stabilized sand
Sand 0-4 with cement, dosed at 200kg of cement per m³



4 - When the backfill level reaches just below the level of the hydraulic and ventilation connections, **make the connections. Backfill to 20 cm under the lids and compact.**

Ventilation: 45° elbows only



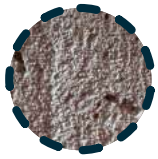
5 - Same step as step 4 page 6 of the dry ground installation

8 INSTALLATION IN DIFFICULT TERRAIN

✓ Difficult terrain: presence of clays, rocks, etc.

INSTALLATION STEPS

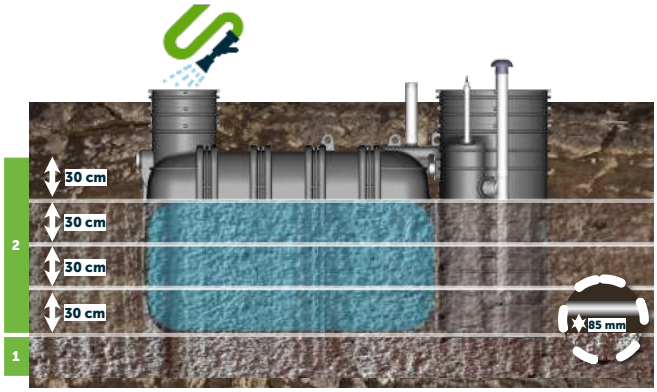
1- After excavation, **stabilize the bottom of the dig with a 30 cm layer of stabilized sand.** Carefully compact this first layer and make sure the surface is level.



Sound material of stabilized sand
Sand 0-4 with cement, dosed at 200kg of cement per m³
Thickness of the bottom of the excavation: 10-30 cm

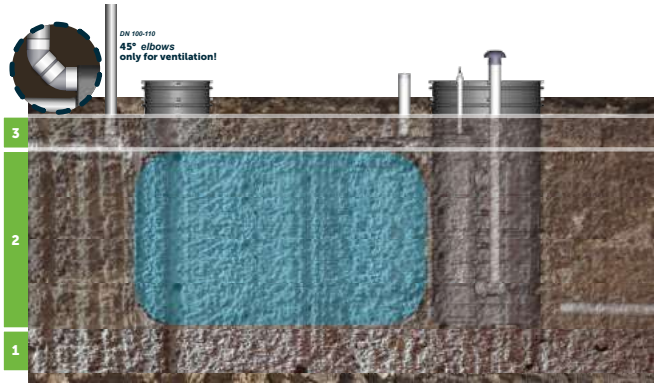
2 - **Backfill in 30 cm increments while simultaneously filling the primary tank with clean water.** *Compact* **manually** *between each slice.*

Alternating water filling and compaction
No mechanical compaction



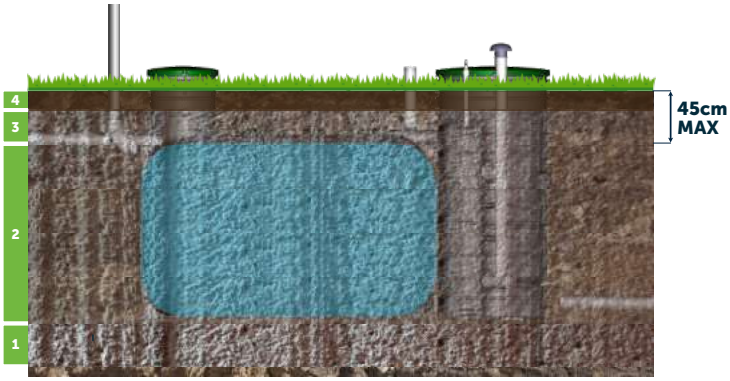
3 - When the backfill level reaches just below the level of the hydraulic and ventilation connections, **make the connections. Backfill to 20 cm under the lids and compact.**

Ventilation: 45° elbows only



4 - To finalize the installation, **backfill the surface to a height of 20 cm** using the excavated topsoil, **previously cleared of any stony or sharp elements,** then position and secure the covers.

Never exceed 45 cm of backfill height on the tank (including topsoil).
Use of additional extensions: See recommendations in § 3.7. of the User's Guide.

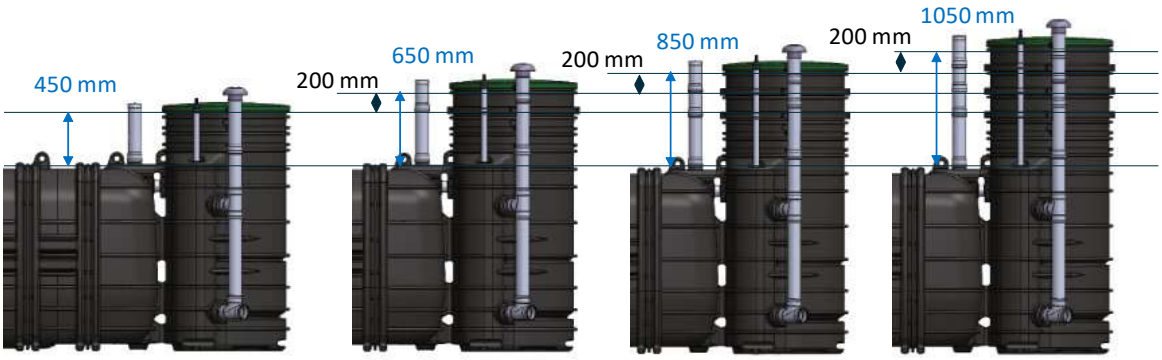


9 OPTIONS

EXTENSIONS

✓ It is possible to raise the MONOBLOCK V3 tank by adding 3 polyethylene extensions of 200 mm high each. **(Provide a distribution slab).**

✓ The installation in the presence of extensions must be submitted to a specialized design office to determine the implementation and installation methods. (Cf § 3.7. of the User's Guide)



MONOBLOCK V3
Not raised

1 extension

2 extensions

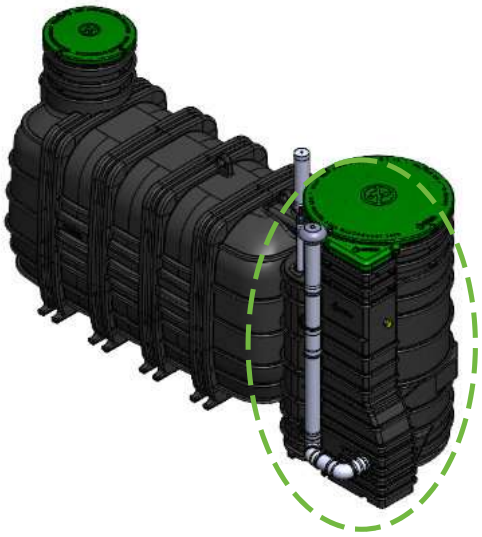
3 extensions

TRIANGLE PUMP SHAFT

✓ It is possible to combine the MONOBLOCK V3 with the triangle pump shaft to obtain a high outlet.

✓ This station is CE marked EN-12050-2.

CE



BURIED INSTALLATION

✓ It is possible to envisage a buried assimilated installation of the MONOBLOCK V3 by recreating the conditions of a burial, in order to respect the structural constraints of the tank.

✓ The principle must be validated by a specialized engineering office (Cf § 3.6.2 of the User's Guide).

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