LAYING TIPS

Installing an INFILTRATION BASIN

EXCAVATION
The excavation size is based on the physical footprint of the tank increased of 0.5m for a safe access all around the structure. It will be carried out using a bladed bucket to avoid swelling.
You should preferably allow for clearance of 1 m between the base of the well and the top of the groundwater table (if applicable).

BEDDING AND GEOTEXTILE
Install bedding of 10 cm and ensure it is flat and level.
Place a 300 g/m² geotextile at the bottom and on the sides of the construction.
The geotextile strips should overlap by at least 0.50 m.

INSTALLATION OF THE FIRST DEMI-MODULES
Install the AZbox half-modules (plate with 4 pillars) on the geotextile to form the first half-layer and connect it all together using the connector clips with the help of a mallet.

BASIN / MANHOLE JUNCTION
Cut a hole in a side-plate and insert a Ø315mm PVC pipe between the basin and the manhole.
In case of the use of an internal perforated drain pipe (optional), please refer to step 3 on the next page.

COMPLETION THE FIRST LAYER
Install another pre-assembled plate on the first half modules that are already in place to finalize the first layer of AZbox modules.
Once again, connect it all together using the connector clips with the help of a mallet.

SECOND LEVEL CONNECTION
If the design of the tank includes an inspection and cleaning well, cut a Ø315mm circle between the 4 pillars on the top plate of each level.
Slot in the blocks to form the lower part of the second layer of AZbox® modules. Repeat step 5 to assemble the upper part of the second layer.

SIDE PLATES
Clip in the side plates all around the basin.

COVERS
Clip the covers into position on the last layer of the basin.
4 covers on each module.

INSPECTION ACCESS AND GEOTEXTILE
Cut Ø315 mm circle between 4 pillars and install and extension connector associated with a Ø300 mm twin wall corrugated pipe.
Wrap the basin in the geotextile 300 g/m² laid in step 2.

BACKFILLING
Carry out the lateral backfilling of the basin using coarse stones or 20/80 type gravel, then cover the construction with classical backfill.

*The tips provided may serve as guidelines for use of the product but should not be considered to guarantee proper installation. Furthermore, it is not possible for us to monitor use of the product and its use therefore takes place under the user’s responsibility.

Quick and easy installation thanks to the lightness of the AZbox® modules
Allows for high-pressure cleaning and structure monitoring at all levels
In the event of a connection to a network downstream of the basin, allow for the installation of a by-pass system in the downstream manhole of the basin.

Values for information purposes, please refer to the Technical Data Sheet – Photo credits: Nidaplast – Réalisation ENV_CDP_AZbox_UK_2018 - service Mkg Nidaplast

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Assembling an AZBOX MODULE

1. AZbox pallet
   Receipt of AZbox® pallets with optimised logistics. This palletisation allows for a reduction in transport costs and facilitates implementation on site.

2. DEMI-MODULES, LOWER PART
   Install the AZbox demi-modules (plate with 4 blocks) to form the first layer and connect it all together using the clips with the help of a mallet.

3. DRAIN PASSAGE
   For ease of laying, the drain must be positioned between the blocks at this stage of the assembly. The drain perforations must be directed upwards.

4. DEMI-MODULES, UPPER PART
   Install the pre-assembled plates on the demi-modules installed to finalise the first layer of AZbox® modules. Once again, connect it all together using the clips with the help of a mallet (4 clips on the long sides and 2 clips on the short sides).

5. SECOND LEVEL CONNECTION
   If the basin is made up of several layers, clip the blocks onto the lower plate to connect a new layer of modules.

6. BLOCKS
   To facilitate assembly, the blocks have markings. Arrows indicate the coded pins allowing for the interlocking of the block onto the plate.

7. DEMI-MODULES, UPPER PART
   Repeat step 4 to complete the assembly of the second layer of the basin. Don’t forget to put the clips in place to connect the entire structure together.

8. SIDE PLATES
   Close the sides of the basin by installing the side plates over the entire structure.

9. COVERS
   On the last layer, attach the covers so as to close the upper part of the basin (4 covers per AZbox® module).

10. COVERS
    Three arrows on the cover indicate the direction in which it should be installed.

- 95% of water storage volume
- You must remove the demi-modules from the pallet one by one.

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