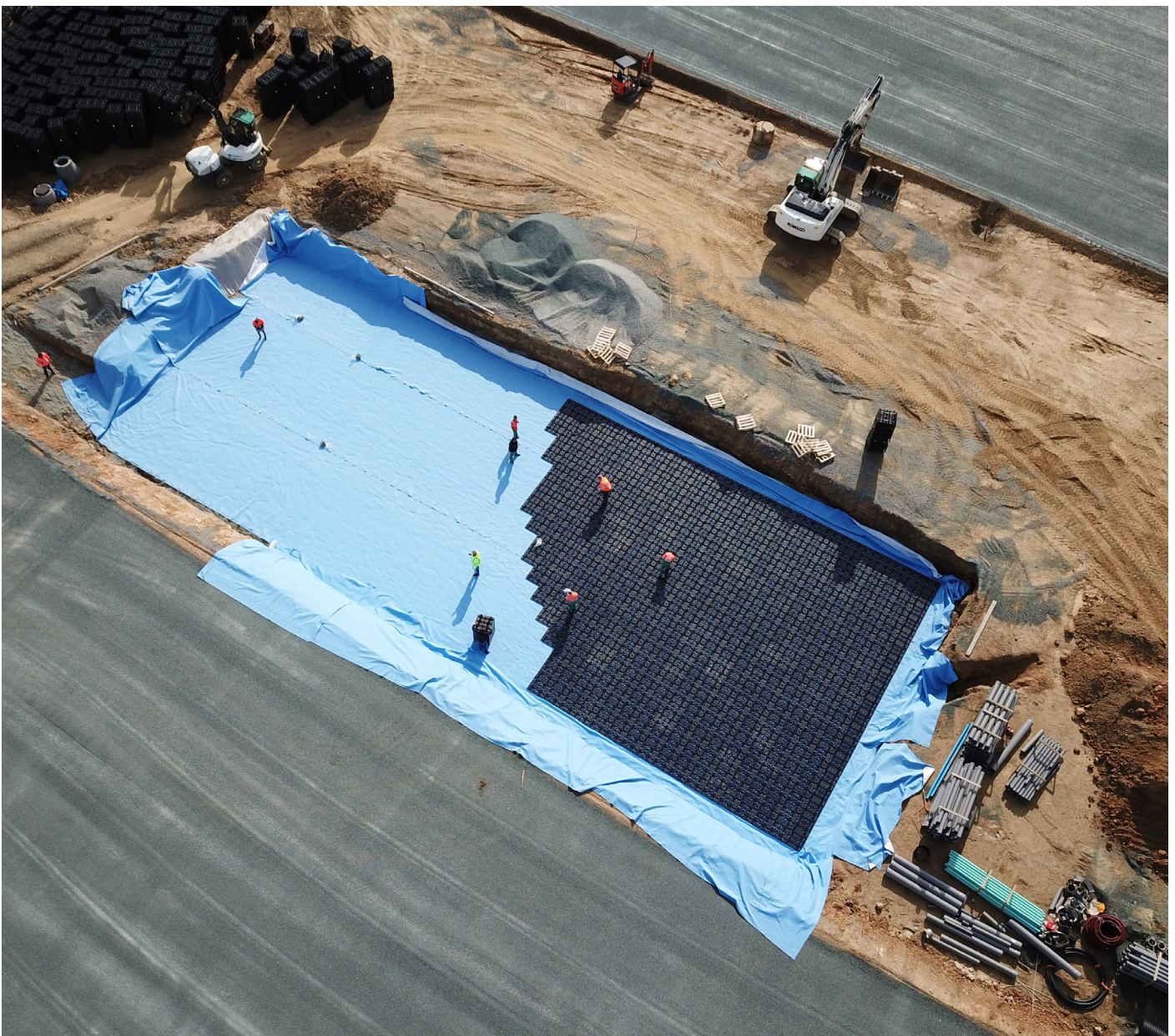


INSTALLATION GUIDELINE

OSMORIA Geoclean Buried tanks with crates

Removing hydrocarbons and PAHs from stormwater



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1. INTRODUCTION

OSMORIA™ Geoclean® aquatextile is a high-performance material designed to improve water quality by naturally filtering out hydrocarbons from stormwater runoff that infiltrates into the soil. This helps protect the environment from hydrocarbon pollution. The material is lightweight, easy to install, and built to withstand the demands of public works projects. However, to ensure optimal performance and durability, it is essential to follow these guidelines:

Follow the project manager's specifications regarding materials in contact with the aquatextile. Adhere to the installation instructions outlined in this document.

2. BEFORE INSTALLATION

1. Layout plan

Before installation, it is recommended to create a layout plan (see Figure 1), particularly for small volume basins. Ensure a 50 cm overlap between strips on the vertical flat sections and a 1-meter overlap at the outer edges of the crate structure.

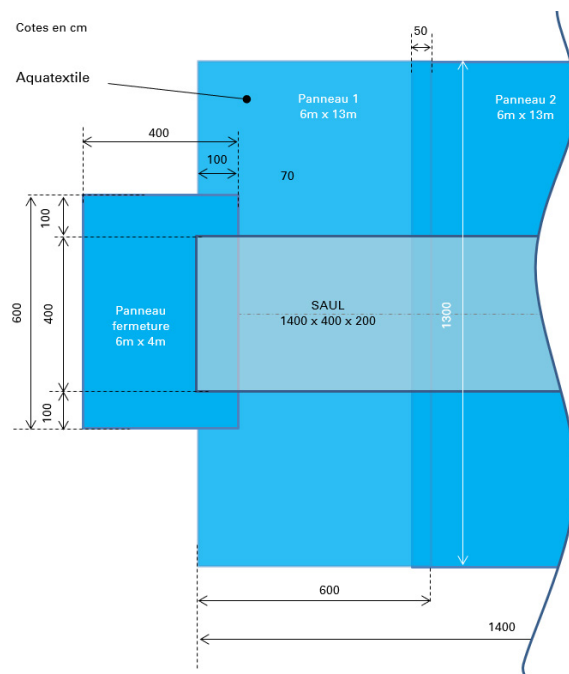


Figure 1: Layout plan

2. Storage of rolls before installation

Store the OSMORIA Geoclean rolls on a flat, clean, and level surface. Check for the following:

- No objects or sharp stones are present on the ground.
- The packaging remains undamaged, especially if exposed to weather or UV rays.

Rolls can be stacked in a pyramid shape, up to 3 rolls high, ensuring the base is stable. For prolonged storage, cover the rolls with a tarpaulin. Keep the rolls in their original packaging until installation, and repackage any unused rolls.

3. Cutting the strips

It is recommended to set up a designated cutting area outside the installation site. Prepare the strips as needed and label them according to the layout plan.

3. INSTALLATION

1. Unwinding the aquatextile

Unroll the aquatextile onto the prepared, flat surface, ensuring the area is free from objects or blunt stones. Follow the layout plan and maintain the required overlaps.

- The blue side of the aquatextile should face inward, toward the tank. Water flows from the blue side to the white side.
- Crates are placed directly on top of the aquatextile.

2. Securing the structure

Once the crates are installed, fold the waiting strips down onto the vertical walls and secure them flat on top of the crates. If rainwater is collected from the roof of the tank, cover the crates with the aquatextile, with the blue side facing up.

3. Piping through the aquatextile

In the event of raw water entering the infiltration structure via a pipe, it is strongly recommended that the OSMORIA Geoclean aquatextile should not be crossed, or at the very least that the crossing should be made above the highest water level in the structure.

If it is impossible to follow these recommendations, the aquatextile must be sealed off from the supply pipe with the utmost care, as follows, to prevent untreated water from passing along the pipe.

Cut the aquatextile crosswise at the point where the pipe passes through the aquatextile. This cut should be made with a cutter, taking the necessary safety precautions. The length of both cuts should be slightly smaller than the diameter of the pipe.

The pipe is then forced through this cut-out, from the outside (grey side) to the inside (blue side) of the structure. OSMORIA Geoclean deforms and applies with perfect contact all around the pipe. Secure the 4 aquatextile corners to the pipe with a stainless-steel clamp.



Figure 1: Cross-cutting of aquatextile for pipe passage



Figure 2: Pipe passes through aquatextile in the cut-out

Make sure the pipe is stable at the crossing point, so that it does not transfer stress to the aquatextile

4. Filling

Backfill carefully around and on top of the structure with the specified granular material.



Figure 3: Surface preparation (e.g., draining layer)



Figure 4: Installing aquatextile strips at the bottom and sides



Figure 5: Crate installation



Figure 6: Raising strips on the tank



Figure 7: Covering the crates

4. SCHEMATIC DIAGRAM

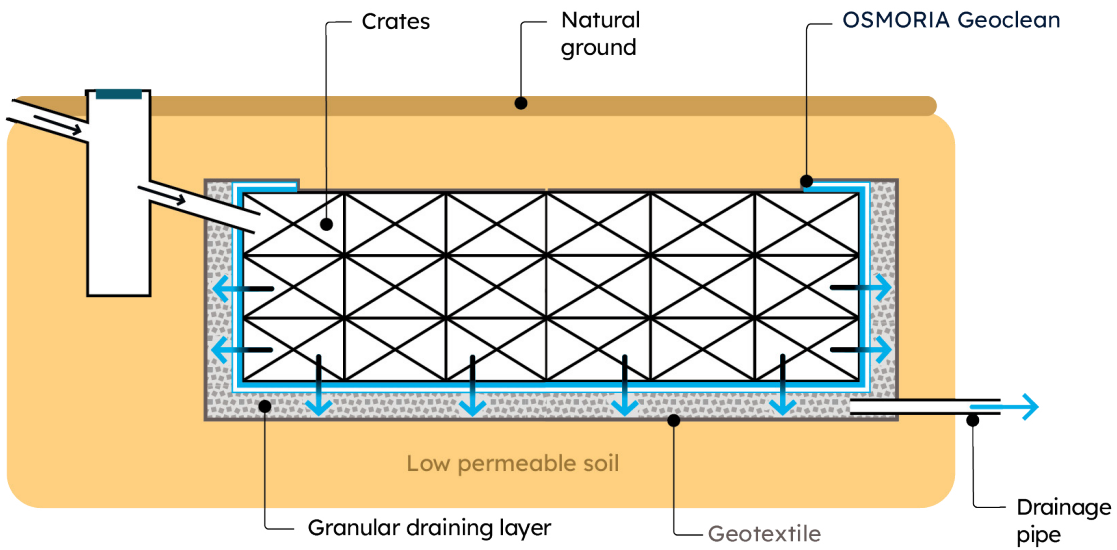


Diagram 1: Buried attenuation tank with crates on low permeable soil, with a granular draining layer and geotextile

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