

## PROJECT CASE

### A63 stormwater ponds Saint Geours de Maremne (40)

<b>Date</b> 2019/2020	<b>Surface area</b> 67,000 m <sup>2</sup>	<b>Product(s)</b> DRAINTUBE of multiple compositions
<b>Company</b> ALPE GEOS ETANCHEITE	<b>Project owner</b> ASF	<b>Project management</b> GINGER + EGIS

#### Issue(s)

A soil permeability problem was identified during the creation of the A63 motorway ponds in Saint Geours de Maremne (40). As groundwater was rising very quickly, advanced studies had to be carried out by consulting firms in conjunction with AFITEXINOV, to come up with a solution to this critical situation.

#### Solution(s)

To ensure the sustainable waterproofing of these motorway ponds, a solution combining specifically designed ballasts with DRAINTUBE FT drainage geocomposites with high drainage capacity was implemented. This solution made it possible, in particular, to:

- Replace the traditional drainage material solution and limit the use of granular material;
- Significantly improve work performance;
- Guarantee rendering quality thanks to a factory-controlled manufactured solution;

The study was carried out by AFITEXINOV's teams in conjunction with the consulting firms involved in the project.



*DRAINTUBE at the bottom*



*Installation and welding of the geomembrane on the DRAINTUBE*



*Installation of the puncture-resistant geotextile*

## Description and purpose of the product

DRAINTUBE is a filtering, drainage and protective geocomposite resulting from the factory assembly of the following elements:

- non-woven needled filter,
- polypropylene mini-drains with regular perforations along 2 alternating axes at 90° to each other,
- non-woven needled drainage layer.

The elements are coupled together by needling.

DRAINTUBE FT comes in rolls 3.90 m wide and 50 to 100 m long depending on the desired weight.



*Packaging of the geocomposite*

## Work progress



*Monitoring of several ponds studied*

## Advantages of the proposed solution

This solution helps:

- Replace the layer of granular drainage materials and the huge ballast originally planned on site;
- Receive a solution on site with optimised packaging and delivery;
- Obtain a manufactured product;

