

## **PROJECT CASE**

A22 motorway – Waterproofing layer of the central reservation Roncq – Tourcoing (59)

# Drainage and protection under waterproofing layer

**Date** Surface area 2018

43.000 m<sup>2</sup>

**Project manager** 

SIR Lille DRAINTUBE FT

Company

DIR Nord

AQUAGEO Etanchéité

**Project Owner** 

## Description of the project

Product(s)

Work was carried out on the A22 motorway, in northern France, to make the central reservation waterproof in 3 different sectors, with the creation of treatment and buffer structures.

#### Issue

The waterproof area of the central reservation is affected by gas leaks. To guarantee the integrity of the geomembrane, a drainage system must be installed under the entire waterproofing layer.



#### **Solutions**

The DRAINTUBE FT geocomposite was used to:

- Provide effective puncture-resistant protection
- Drain gases towards the vents
- Combine these two functions within a single product.

Exhaust vents are connected by a \$25-mm drain. A geotextile was installed on the geomembrane to protect it during backfilling.

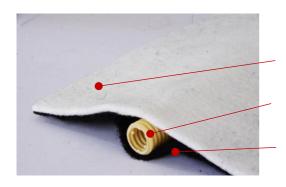


Ronca - Tourcoina (50)

## **Description and purpose of the product**

DRAINTUBE FT consists of a non-woven needled drainage layer made of PP, ringed mini-drains made of PP with regular perforations, and a non-woven needled filtering geotextile made of PP. The components are combined by means of needling; mini-drains are inserted during the process.





Drainage layer

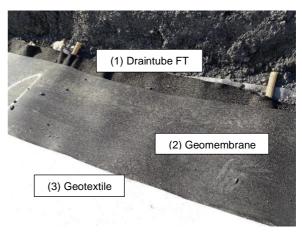
Mini-drain

Filtering geotextile

### Work progress



Installation of the  $\varphi 25\text{-}mm$  drain



The 3 layers of the geosynthetic waterproofing and drainage system

## Advantages of the proposed solution

- No use of granular materials
- Discharge of gases in contact with the geomembrane
- Mechanical protection and drainage in a single product
- ASQUAL certification

### **Contacts**

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