

## PROJECT CASE

### Les Bordes golf course (41)

#### Date

July 2019

#### Surface area

60,000 m<sup>2</sup>

#### Product(s)

AFITER 2D 50

ST300

1.5 mm HDPE geomembrane

#### Company

GEO BTP

#### Issue(s)

A frequent issue with ponds made waterproof by geomembranes is the need to satisfy the project owner's vegetated aesthetic requirement. These decorative ponds for the Les Bordes golf course (41) were no exception, and required fully vegetated slopes.

As the stability of a thin layer of topsoil on a smooth interface cannot be achieved without reinforcement, a study had to be carried out to respond to the project's requirements.

#### Solution(s)

To enable earth retention to a depth of 30 cm, the AFITER 2D solution was selected and implemented on the slopes of watertight ponds. This solution, combined with an anchor trench, facilitates load bearing and earth retention for long-term revegetation.

- Stress and anchor calculation by AFITEXINOV's technical department
- Supply of the rest of the waterproofing system (geomembrane and ST300 puncture-resistant geotextile)



*ST300 unrolling on bare soil*



*Handling the rolls*

## Description and purpose of the product

The AFITER 2D earth retention geocomposite consists of a polyethylene geogrid with a 20 mm x 40 mm rectangular mesh reinforced with high-tenacity polyester cables. It comes in rolls 3 m wide.

## Packaging

AFITER 2D rolls are 3 m wide and 100 m long.



*Product appearance*

## Work progress



*Installation of the ST300 puncture-resistant geotextile and HDPE*



*Installation of soil retention netting and backfilling*

## Advantages of the proposed solution

This solution helps:

- Retain earth and vegetate slopes with a gradient of up to 2:1
- Seal, protect and revegetate a retention pond

## Contact

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