



Case Study: Steep Embankment Protection, Donside, Aberdeen

Albion Drilling Group Ltd were employed by the main contractor Safedem to stabilise and encapsulate an existing embankment which runs alongside the River Don. The works included stabilising the embankment with Soil Nailing which was followed by a 600mm thick encapsulation layer consisting of both class 6G stone and topsoil which was held in place with Rock Fall Netting and the Geoweb® Slope Protection System.

The original design consisted of two layers of a Geoweb-type material stacked however following discussions with the design team Greenfix put forward a solution which used one layer of the 300mm Geoweb which provided a significant saving to labour costs.



The Geoweb panels were secured using Atra® Tendons and Tendon Clips. Atra Tendon Clips are load transfer devices which transfer slope gravitational forces from the Geoweb cell wall to the tendon. They connect and lock securely through the I-Slots® within the Geoweb cells walls and can be pre-assembled before installation on the slope which minimises worker time on steep slopes therefore reducing the risk of accidents.

Greenfix provided Albion Drilling with a pinning pattern and was on site on the first day of installation to ensure the work proceeded smoothly. A total of 4,000m² Geoweb was installed on the site in March of 2015 with the system fully vegetated by the following summer.



Product
Geoweb® Slope Protection System



Contractor
Albion Drilling