

HELMHOLTZ-ZENTRUM BERLIN ADLERSHOF BERLIN, BERLIN, GERMANY

Slope Protection

Problem

The University Campus in Berlin-Adlershof is well known for the many research institutions present in its area. One of those is the HZB Helmholtz - Zentrum Berlin, where a prototype of a linear accelerator with energy recovery is placed. In this building, electrons are accelerated to almost the speed of light using a great deal of energy. After passing through a high-speed path, the electrons are to be recaptured in bERLinPro and their energy recovered. Therefore the hall is protected by a reinforced soil structure made with the wrap-around system. In the last times, some foxes started to dig and excavate tunnels inside the embankment, creating some instability problems.

Solution

The company Secon Systems GmbH, partner of Maccaferri for the German market, provided full assistance, proposing a solution with the so-called "beaver-netting". the product is made of heavy galvanized double twisted netting with an additional polymer coating to assure durability of 120 years in a C5 environment (according to EN10223-3). This product is already largely used for protecting the environment against borrowing animals like beavers and boars. In total 2.000 sqm of DT Netting, mesh 6x8, steelwire 2,2mm and PoliMac coating were successfully installed.

Client: Secon Systems GmbH

Designer / Consultant: hochC LANDSCHAFTS
ARCHITEKTEN PartGmbH

Contractor: Schob GaLaBau

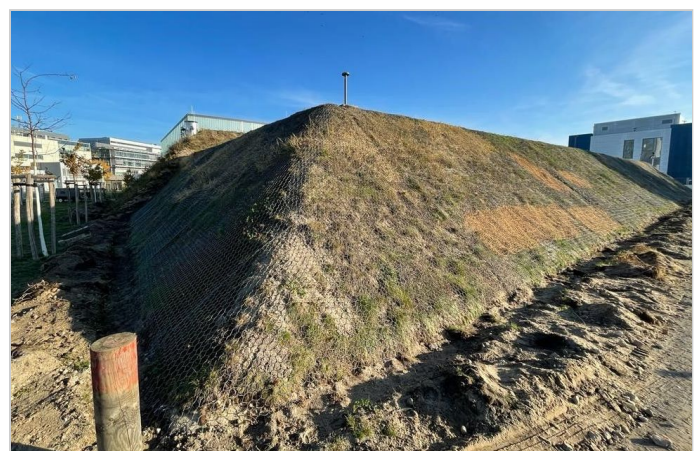
Products used (Qty.)

- DT Mesh 2000 sqm

Date of construction: 10/2021 - 11/2021



After installation



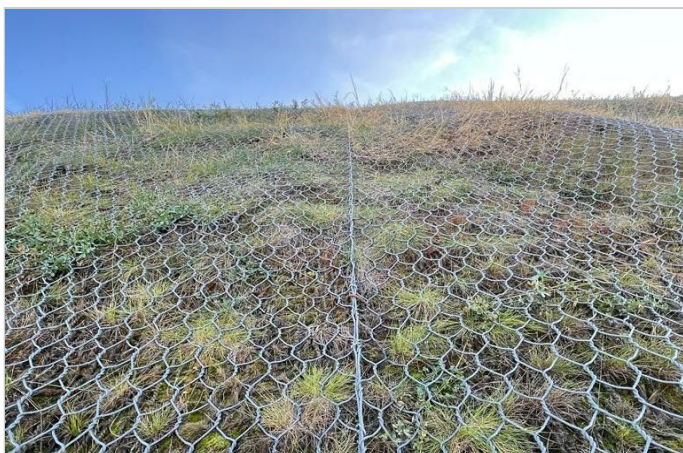
Corner detail



Spenax machine



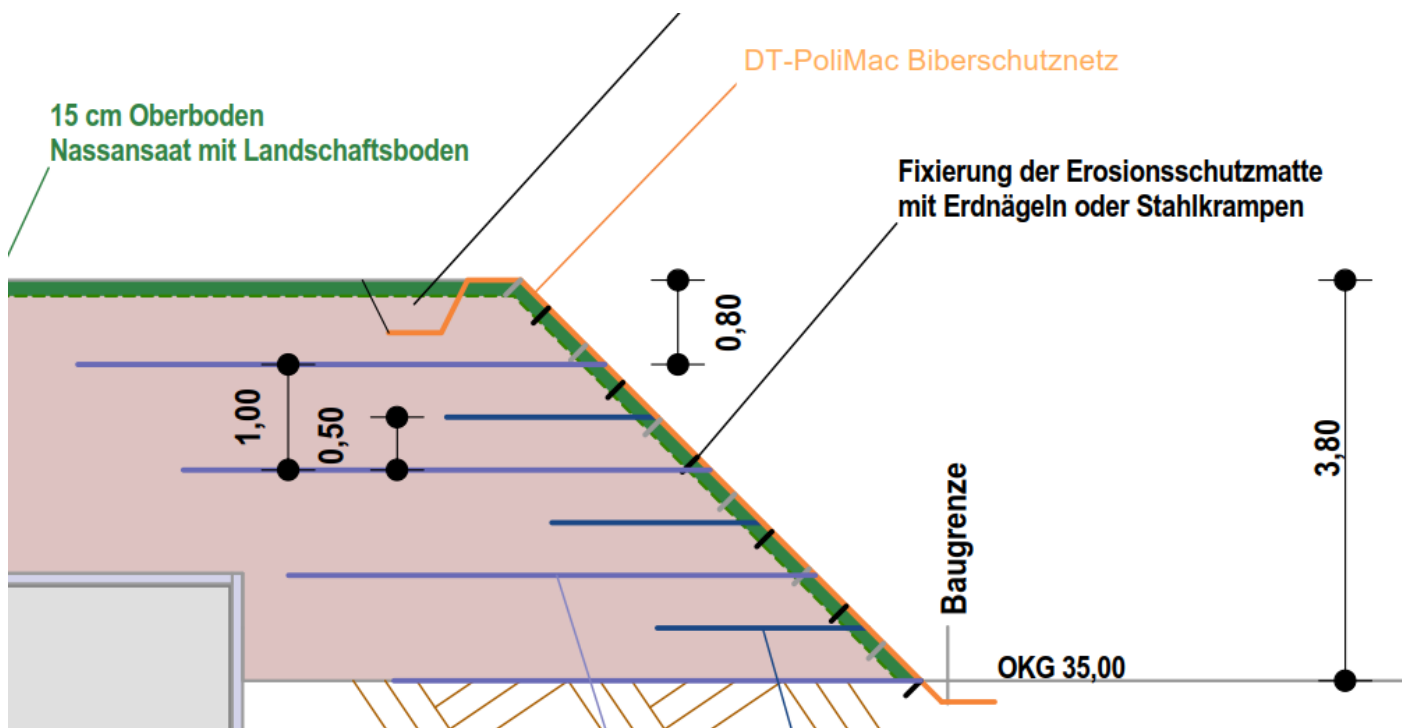
During the installation



After installation: side view detail



3D design of the building



Cross-section detail

Maccaferri Balkans Sh. P. k.
Autostrada DR-TR; KM 6, SH2, Xhafzotaj, Durrës, Albania

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