

OBERSCHEFFLENZ

OBERSCHEFFLENZ, BADEN-WÜRTTENBERG, GERMANY

Soil Nailing

Problem

The slope along the railway between km 65.881 and km 66.019 in Osterburken in had to be secured against landslides and erosion.

The rehabilitation area is located on the right-hand side of the railway directly before the entrance to the Schefflenzer tunnel. The construction area is classified as an approx. 17m deep cut. The area to be rehabilitated had a total length of approx. 110m with a slope inclination of 30°-35°. The sloping length of the embankment was approx. 24m long in the heighest point and 14m in the shortest part.

As a result of heavy rainfall in early February 2022, a superficial landslide occurred in the area around km 65.980. The area of the landslide extended was 9.0m (parallel to the track) to approx. 5.0m (fall line).

Solution

Maccaferri's partner Secon Systems GmbH supported the designer Geobay in the pre-design phase of the soil-nailing to secure the slope. the checks were carried out thanks to the on-line software "Mac S-Design" and the support of Maccaferri's experts. Thanks to the properties of MacMat HS 100 8127G0 it was possible to reduce the number of soil-anchors needed and a final raster of 4mx4m of 1m long steel-anchors was planned. The installation phase took only 3 weeks during the month of April-May 2023.

Client: Secon Systems GmbH

Designer / Consultant: GeoBay

Contractor: FELDHAUS Bergbau GmbH & Co. KG

Products used (Qty.)

Date of construction: 04/2023 - 05/2023

Google Maps Google Earth





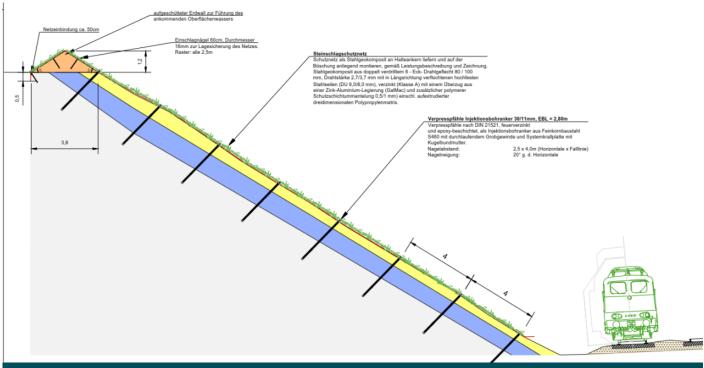
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Typical Section

MACCAFERRI CENTRAL EUROPE S.R.O. Kopčianska 3759 851 01 Petržalka Slovakia

Tel:+421 2/202 400 56 E-mail: info.sk@maccaferri.com