



# GRÜNER SEE - SCHMIEDEWALDE, GERMANY

**Slope Stability**



# Grüner See - Schmiedewalde

## Slope Stability

<b>Project</b>	Grüner See - Schmiedewalde
<b>Location</b>	Klipphausen/Schmiedewalde, Kreis Meissen
<b>Country</b>	Germany
<b>Year of installation</b>	2016
<b>Customer</b>	Saxon Superior Mining Agency, Freiberg
<b>Contractor</b>	Bergsicherung Freital GmbH

### Initial situation

In the early days of its existence, Schmiedewalde, a small village that neighbours Dresden, was home to a chalk mine that was commercially excavated. Over time, the excavation left a hole that has long since flooded and become known locally as Grüner See (Green Lake). After a heavy rainfall in 2013, one slope of the former surface mine slipped and became severely unstable. A rural road just north of the lake was ruled impassable and required slope stabilization to again be considered safe for passage. The Saxon Superior Mining Agency invited the engineering firm Eckert to develop a permanent solution thereby reassuring the safety of the traffic infrastructure.

### Description

Approximately 50 m of the slope was stabilized from an average height of 10 m (vertical extension). The high-tensile TECCO® GREEN G65/3 mesh was anchored to the slope with approximately 130 soil nails. The soil nails range in length from 3.0 m to 6.0 m and were arranged in a grid pattern of 2.0 m x 2.5 m. TECCO® GREEN G65/3 consists of combination of a high-tensile steel mesh combined with an erosion control mat. While the TECCO® mesh assures full stabilization of the instable soil the polypropylene (PP) mat serves as grip and substrate for hydroseeding. The solution also provides protection against damage caused by rodents such as beavers.

[Datasheet](#) TECCO® GREEN

<b>Protected object</b>	Road
<b>Corrosion protection</b>	GEOBRUGG SUPERCOATING
<b>Geology</b>	Substrate: cohesive artificial infills dating from the times of commercial depletion.
<b>Stabilized area</b>	500 m²
<b>Maximum slope height</b>	10 m
<b>Slope inclination</b>	50 ° - 70 °
<b>Greening</b>	Yes
<b>Exposition</b>	South-West

**For questions please contact our Geobrugg specialist at your side**

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