



SCHWÄBISCH GMÜND, GERMANY

Slope Stability

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Project	Schwäbisch Gmünd
Location	Schwäbisch Gmünd
Country	Germany
Year of installation	2015
Customer	((... will be completed by STS/GRE))
Other participating companies	Sidla & Schönberger Spezialtiefbau GmbH
Initial situation	The developer was planning several residential buildings on the hillside north of the river Rems in Schwäbisch Gmünd (near Stuttgart). The pit was created with a pile wall for excavation support. This area was backfilled after the buildings were completed. In the upper slope area, which remains visible; however, the developer chose to implement a solution that allows revegation.
Description	<p>For dimensioning the nail grid pattern global stability was observed and recorded first. In a second step the near-surface instabilities were dimensioned. As is typical for most excavation activity, this slope was excavated from the top down in 1.5 m increments. Immediately following excavation the erosion control mat and TECCO® System were anchored in place with soil nails.</p> <p>The solution was chosen because:</p> <ul style="list-style-type: none">- Cohesive soils / grounds with an appropriate supply of nutrients for successful revegation,- Active and immediate greening of the embankment by hydroseeding,- Through future building the slope will be shaded,- Four years ago, a similar project using TECCO® System was completed nearby and has shown successful revegetation.
Protected object	Building
Corrosion protection	GEOBRUGG SUPERCOATING
Geology	The slope incision is located in the Stubensandstein layer, and is therefore partly based on stiff loams.
Stabilized area	900 m ²
Maximum slope height	15 m
Slope inclination	45 ° - 60 °
Greening	Yes
Erosion control mat	Yes
Exposition	

For questions please contact our Geobrugg specialist at your side

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