



# SCHWÄBISCH GMÜND, GERMANY

Slope Stability

# Schwäbisch Gmünd

## Slope Stability

<b>Project</b>	Schwäbisch Gmünd
<b>Location</b>	Schwäbisch Gmünd
<b>Country</b>	Germany
<b>Year of installation</b>	2015
<b>Customer</b>	((... will be completed by STS/GRE))
<b>Other participating companies</b>	Sidla & Schönberger Spezialtiefbau GmbH
<b>Initial situation</b>	<p>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 revegetation.</p>
<b>Description</b>	<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"><li>- Cohesive soils / grounds with an appropriate supply of nutrients for successful revegetation,</li><li>- Active and immediate greening of the embankment by hydroseeding,</li><li>- Through future building the slope will be shaded,</li><li>- Four years ago, a similar project using TECCO® System was completed nearby and has shown successful revegetation.</li></ul>
<b>Protected object</b>	Building
<b>Corrosion protection</b>	GEOBRUGG SUPERCOATING
<b>Geology</b>	The slope incision is located in the Stubensandstein layer, and is therefore partly based on stiff loams.
<b>Stabilized area</b>	900 m²
<b>Maximum slope height</b>	15 m
<b>Slope inclination</b>	45 ° - 60 °
<b>Greening</b>	Yes
<b>Erosion control mat</b>	Yes
<b>Exposition</b>	

For questions please contact our Geobrugg specialist at your side

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