



SCHWIEBERDINGEN, GERMANY

Slope Stability

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Project Location Country	Schwieberdingen Schwieberdingen Germany
Year of installation	2016
Customer Engineering Contractor	Private Henke und Partner GmbH, Ingenieurbüro für Geotechnik Bramm Bau GmbH
Initial situation	<p>The apartment house Holdergasse, in Schwieberdingen (near Stuttgart) was built in a former stone quarry in the second half of the 20th century. At that time, the stone walls were in a good condition. The first rockfalls occurred some years ago, caused by weather conditions. Extremely loud impacts from rocks concerned the residents.</p> <p>An initial assessment by the <i>Henke and Partner</i> in Stuttgart, showed that a full area support was necessary. At the customer's request, different measurements were evaluated. The comprehensive search for suitable solutions took about two years. The solution proposed by Henke and Partner including TECCO® SYSTEM³, proved to be the most logical and economical application.</p>
Description	<p>The rock wall was divided into various areas of protection such as steep rock faces, overhanging formations, layered rocks with covered with with loose soils . Due to the tightness in some areas between the building and the rock face, a suitable solution had to be found here as well.</p> <p>According to the dimensioning using RUVOLUM® software high tensile steel mesh type TECCO® 65/2 proved to be the most economical solution.</p> <p>In some areas with overhangs, shotcrete filling had to be planned. The areas with loose rock were additionally covered with the anti-erosion protection mat TECMAT®. Areas where the distance to the building was less than one meter, extra lacing was implemented.</p> <p>After completion, the initially skeptical residents were enthusiastic about the good adaptation to the terrain. The work was carried out by the company Bramm Bau GmbH.</p>
Protected object	Building, Mine / Quarry
Other installed applications	Underground & Open Pit Mining
Corrosion protection	GEOBRUGG SUPERCOATING
Geology	Shell limestone
Stabilized area	700 m ²
Maximum slope height Slope inclination	40 m 30 ° - 90 °
Exposition	South-West

For questions please contact our Geobrugg specialist at your side

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