



# ALTENA, DISTRICT ROAD B236, GERMANY

**Rockfall Protection**

# Altena, district road B236

## Rockfall Protection

<b>Project</b>	Altena, district road B236
<b>Location</b>	Altena
<b>Country</b>	Germany
<b>Year of installation</b>	2013
<b>Customer</b>	Road Administration North Rhein - Westfalia
<b>Engineering</b>	ILG Giessen
<b>Contractor</b>	Feldhaus Bergbau GmbH

**Initial situation** After a rockfall incident, it became of vital importance to secure the slope along district road B236 in North Rhine-Westphalia. The hillside is characterized by weathered, rugged rocks. There already was an old fence of unknown origin but it would never have withstood the expected impacts.

**Description** The existing fence was a system of 260 meters. It was torn down, and Geobrugg installed a total of five fences GBE-500A and GBE1000A with a length of more than 300 meters. Additionally, single securing systems were installed to reduce forces acting on the system (anchoring and concrete plug). Three sections of about 60 meters in length were covered with TECCO®.

<b>Protected object</b>	Road
<b>Energy absorption capacity</b>	500 kJ, 1000 kJ
<b>System height</b>	3.0 m, 4.0 m
<b>System length</b>	335 m

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

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