



CARRIÈRE DE MICHELAU N27, LUXEMBOURG

Rockfall Protection

Carrière de Michelau N27

Rockfall Protection

Project	Carrière de Michelau N27
Location	Erpeldange-Michelau
Country	Luxembourg
Year of installation	2014
Customer	Ministère du développement durable et des infrastructures, Adm. des Ponts et Chaussées, Division de la Voirie de Diekirch
Engineering	Dr. Spang GmbH, Witten, Germany
Contractor	GEO HAZARDS BV
Other participating companies	CAN Benelux

Initial situation

Former Quarry along the road N27, next to Erpeldange-Michelau

Close to the location Michelau (Luxembourg) on a steep, north exposed rock slope in a former limestone quarry, a rockfall incident with a volume of around 1000 m³ occurred. The cliff spreads along a distance of around 300 meters and reaches a maximum height of 30 meters. It is located on an eroding bank of the river Sure.

As an emergency measure the road was rerouted to the other side of the river, via a provisional bridge. Since further examination of the cliff showed a constant risk to the remaining road, rockfall protection measures had to be taken.

Description

The rockfall protection measures installed along the cliff are two RXI-500 Barriers:

- Barrier RXI 500, Length 78 m, Height 5.5 m
- Barrier RXI 500, Length 64 m, Height 7.0 m

The rockfall protection measures installed on the dam towards the road are:

- 1.7 m² TECCO G65/3 to stabilize the dam itself and atop
- A small GBE-100 AR rockfall barrier, Length 70 m, Height 2.0 m

Protected object

Road, Touristic infrastructure

Other installed applications

Slope Stability

Corrosion protection

GEOBRUGG SUPERCOATING

Energy absorption capacity

100 kJ, 5000 kJ

System height

2.0 m, 5.5 m, 7.0 m

System length

64 m - 78 m

For questions please contact our Geobrugg specialist at your side

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