



MÜHLEHORN, HIGHWAY A3, GLARUS NORD, SUISSE

Stabilisation des pentes

Mühlehorn, Highway A3, Glarus Nord

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Projet	Mühlehorn, Highway A3, Glarus Nord
Ville	Filzbach
Pays	Suisse
Année d'installation	2015
Client	FEDRO Federal Roads Office, Switzerland
Ingénierie	Project Partners Ltd Consulting Engineers, Grancia-Lugano, Switzerland
Entrepreneur	CRESTAGEO, Chur, Switzerland

Situation de départ

The highway A3 was opened in 1964 and passed as a 2-lane road the topographic bottleneck of the Walensee, one of the main threats on the way from the Swiss plains to the mountainous regions and ski resorts. In 1986 one of the most frequented tunnels was extended to four lanes. Due to a significant exposition to rockfall and rockslides, from the beginning of its existence the route had to be protected against natural hazards.

With increasing traffic and widening the formerly narrow path to a highway, also protection measures had to be adapted and extended.

In 2012 the Swiss Federal Roads Office FEDRO decided to realize several urgent maintenance works being unavoidable in order to keep the road open. In parallel risks and protection needs were re-evaluated and a general project to ensure safety of the highway was initiated. After the planning phase from 2013 to 2015 the first protection systems of the new generation were installed.

Hot-spots along the passage have been the various tunnel entrances, opening to steep slopes or even sheer rock faces.

Official project name at the FEDRO, Federal Office for Roads: Glarus Nord

Overall costs of the protection project (estimated in 2014): 11 Million Swiss Francs

Description

This description shows the part stabilized with TECCO® System. A parallel project, [Kerenzerberg HighKerenzerberg Highway A3](#) is showing rockfall barriers type RXE-8000 (also partly visible on the pictures).

Unstable slope and rock sections between and behind the fence lines were stabilized using TECCO® G65/4. Geology and topography required using the unique performance of TECCO® mesh as well as the strength of 4 mm high-tensile strength steel wire to bear the shearing forces and puncturing loads of stabilized rock masses.

Site protégé

Route/Rue, Chemin de fer

Autres applications installées

Protection contre les chutes de pierres

Protection anticorrosion

GEOBRUGG SUPERCOATING

Géologie

[Geological Map \(GEOPORTAL.CH\)](#)

Zone stabilisée

2000 m²

Hauteur de la pente

75 m

Inclinaison de la pente

30 ° - 85 °

Pour toute question, contactez votre spécialiste Geobrugg le plus proche

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