



MÜHLEHORN, HIGHWAY A3, GLARUS NORD, SUÍÇA

Estabilização de taludes

Mühlehorn, Highway A3, Glarus Nord

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Projeto	Mühlehorn, Highway A3, Glarus Nord
Lugar	Filzbach
País	Suíça
Ano de instalação	2015
Promotor	FEDRO Federal Roads Office, Switzerland
Empreiteiro	Project Partners Ltd Consulting Engineers, Grancia-Lugano, Switzerland
Contratante	CRESTAGEO, Chur, Switzerland
Situação inicial	<p>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.</p> <p>With increasing traffic and widening the formerly narrow path to a highway, also protection measures had to be adapted and extended.</p> <p>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.</p> <p>Hot-spots along the passage have been the various tunnel entrances, opening to steep slopes or even sheer rock faces.</p> <p>Official project name at the FEDRO, Federal Office for Roads: Glarus Nord</p> <p>Overall costs of the protection project (estimated in 2014): 11 Million Swiss Francs</p>
Descrição	<p>This description shows the part stabilized with TECCO® System. A parallel project, Kerenzerberg Highway A3 is showing rockfall barriers type RXE-8000 (also partly visible on the pictures).</p> <p>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.</p>
Objecto protegido	Estrada, Caminho de ferro
Outras aplicações instaladas	Proteção contra desprendimentos
Proteção contra a corrosão	GEOBRUGG SUPERCOATING
Geologia	Geological Map (GEOPORTAL.CH)
Área estabilizada	2000 m²
Altura do talude	75 m
Inclinação do talude	30 ° - 85 °

Em caso de dúvidas por favor contacte com nosso especialista Geobrugg na sua área

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