



AMDEN,

Amden
Weesen

/

2011

Tiefbauamt des Kantons St. Gallen, Abteilung Strassen- und Kunstbauten
Casutt Wyrsh Zwicki AG
Locher Bauunternehmer AG, Zürich, Switzerland

The Swiss National Road No. 17 between Weesen and Amden was endangered by stone and block striking. Between autumn 1978 and August 1981 the Mattstock Gallery with a length of 110 meters and the Churfirsten Gallery with a length of 155 meters were created.

After various rockfall events and activities the danger situation of the whole street section was checked. The static calculation showed that the two galleries would only cover energies of 300 to max. 500 kJ as standard.

Based on a risk assessment, it was decided to fortify the two galleries for the scenario with a probability of a recovery period of 10 to 30 years with energies of 200 to 1'900 kJ.

ROCKFALL-X G Damping system with cellular glass fill material and TECCO® mesh as protection for the rockfall galleries Mattstock and Churfirsten.

Modules: 1'300 pieces 1,3 m und 575 pieces 2,0 m heigh cellular glass filled ROCKFALL-X G damping modules.

Rockfall energies: 200 kJ to 1'900 kJ.

Road

1.5 m, 2.0 m

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