



HUEPACH, CANTON OF BERNE, ELVEȚIA

Protecția împotriva torenților și a alunecărilor superficiale

Huepach, Canton of Berne

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| Proiect | Huepach, Canton of Berne |
| Loc | Oberwil, Simmental |
| Țară | Elveția |
| Anul instalării | 2013 |
| Client | Community of Oberwil, dept for flood control |
| Tehnologie | Emch & Berger, Berne |
| Situația inițială | <p>As a result of three heavy thunderstorms during the nineties, the mountain creek Hüpach caused shallow landslides, debris flows, and deluges. Debris and boulders blocked roads and railways in Oberwil near Interlaken. To prevent future hazards, our customer <i>Schwellenkorporation Oberwil</i> decided to install two retention structures. The construction is designed for a 300-year debris flow event. This project was a joint endeavor of the sister companies Geobrugg and Fatzer.</p> <p>Benefits of the chosen solution:</p> <ul style="list-style-type: none">• Minimal material requirement – an important factor because of limited site accessibility• Low total costs• Minimized impact to nature• Highest possible drainage permeability• Full functionality of the entire system |
| Descriere | <p>The barrier was planned and installed to protect settled areas within the community, highly endangered by debris flow and flooding. The goal for the client (and therewith for GEOBRUGG and the planner) was to find a cost effective solution to safeguard lives, buildings and property.</p> <p>Key figures of the drainage basin:</p> <ul style="list-style-type: none">• Retention capacity: 16'000 m³• Average slope inclination in the flow channel: 32 %• Length of the main channel: 4150 m• The peak discharge for a return period of 300 years is 350 m³/s. Debris flow modelling was calculated using the software RAMMS from SLF / WSL (Switzerland). <p>This solution is also documented in a video</p> |
| Obiect protejat | Road, Calea ferata, Clădire, Residential area |
| Protecție împotriva coroziunii | GEOBRUGG SUPERCOATING |
| Înălțime sistem | 6.0 m, 14.0 m |
| Lungime sistem | 10 m - 40 m |
| Număr de bariere | 2 |
| Capacitate de retenție | > 1000 m ³ |

Pentru întrebări, vă rugăm să contactați specialistul Geobrugg din zona dvs.

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