

Project Report

Fire Station, Grindelwald



The Grindelwald fire station merges beautifully with the surrounding mountainside.

Project Data

Area: 1.260 m²

Construction Year: 2007

Architect/Design:
ARCHIDEE GmbH, Grindelwald

Contractor:
Künzli Gartenbau AG, Interlaken

System Build-up:
"Steep Pitched Green Roof" with
Georaster®

Coordinates:
46°37'22.32"N 8°01'37.78"E

Conception

The new fire station is located to the south of the new outdoor swimming pool, on the site of the former pool. The green roof flows wave-like upwards to the road above. As a result the building is incorporated aesthetically into the mountainside.

An extensive green roof was installed along with Georaster® elements fitted

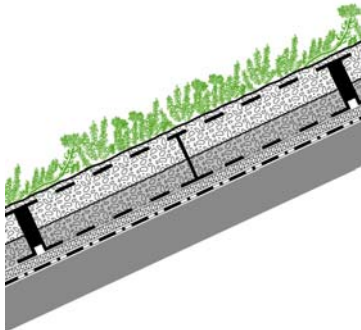
from the bottom upwards. Pre-cultivated vegetation mats, each 2 m² in size, were placed above the system substrate for quick surface coverage and immediate protection against erosion.

Flat plate solar collectors were fitted along parts of the roof ridge in order to generate warm water for the adjacent outdoor swimming pool.



The sloped roof with newly-installed pre-cultivated vegetation mats.

System Build-up



- Vegetation Mat "Sedum Carpet"
- System Substrate "Heather with Lavender-Light"
- Georaster®-elements
- Protection Mat WSM 150
- Roof construction with root resistant waterproofing



The collectors for warm water can be seen at the top right of the extensive green roof.

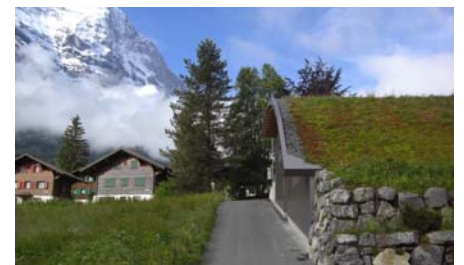
Development



The Georaster® elements are installed from the bottom up. In the background, the legendary Eiger North Face.



The rear of the fire station, taken from the new outdoor pool.



The road sloping slightly upwards to the fire station.

