



Swimming pool Lenk

SOLPOOL 101



Within the renovations of the heat supply of the swimming pool in Lenk, a replacement for the short-wave heating system, which provided heat for free for 20 years, had to be found. The idea of using solar energy not only for the heating of pool water but also for the showers, came into consideration as a result of the ban on the use of traditional energy sources like oil and gas for the heating of the outdoor pool. With the Solardach AS both the outdoor and the indoor pools are supplied with solar energy round the year. The priority in the summer time is the outdoor pool and in the winter time depending on the temperature, it is selected between the indoor pool and the combisystem. The absorber Solardach AS comprises a complete roof system a bottom roof layer, a waterproof roof panel, and roofing. Considering that the previous roof was permeable, the water tightness was a fundamental point to achieve during the

renovation works. The surface area needed for Solardach AS absorbers is significantly smaller than that for conventional swimming pool plastic absorbers, when similar annual yields are compared. The high-grade-steel Solardach has a durability of more than 30 years, which clearly makes it more resistant than conventional plastic absorbers.

Installation

Energie Solaire S.A. /
swt solar gmbh
www.energie-solaire.com
www.swt-solar.com

Planning and design

Ingenieurbüro Hanimann
Energie- und Gebäudetechnik,
Zweisimmen

Operator

Hallenbad AG
Wallbach Badi
CH 3775 Lenk
www.lenk-simmental.ch

Swimming Pool and Solar System

Installation year	1999
Pool surface area and depth	Outdoor pool 932 m ² , depth from 1,00 to 2,00 m Indoor pool 292 m ² , depth from 1,00 to 2,00 m
Area of absorber	492 m ²
Specific yield	700 kWh (m ² -a) (effective measured yield)
Type of absorber	Solardach AS – holohedral flow through high-grade-steel with selective coating
Energy savings	~ 400.000 kWh gas per year
CO₂-savings	~ 243 t CO ₂ per Year
Investment costs	250.000 EUR
System costs	514 EUR/m ² absorber surface area
Running costs savings	~ 40.000 EUR per year



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Intelligent Energy Europe

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