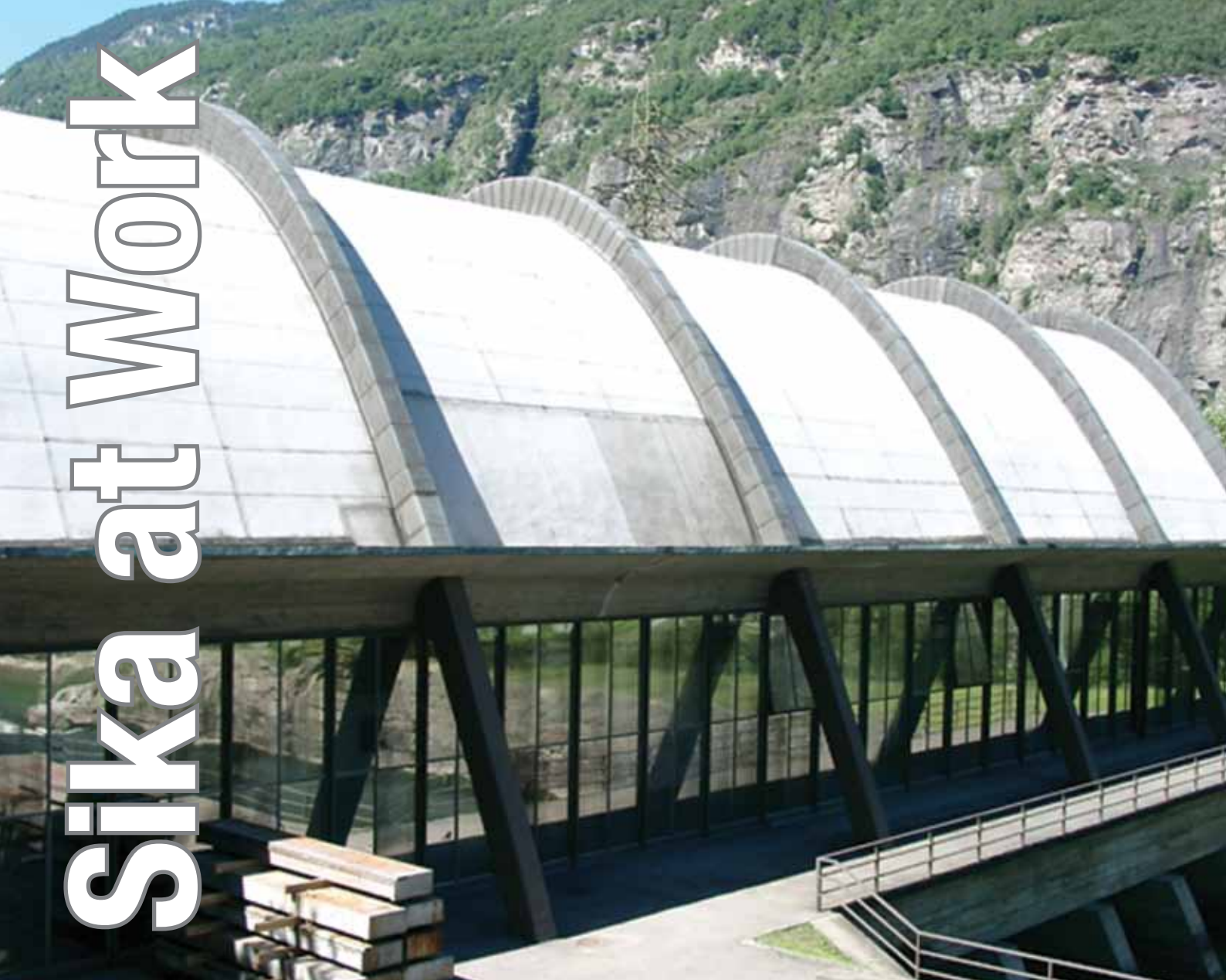


**Sika at Work**



## **Roofing**

**Hydro Power Station, Personico, Switzerland**

**Roofing: Sarnafil G410-12**



**Sarnafil®**



### Project Background

The unusually shaped roof of the Nuova Biaschina Hydroelectric Plant in Personico was first waterproofed with a Sika Sarnafil membrane during its original construction in 1967. Since that time a number of field tests have been conducted to determine the durability and effectiveness of the single ply membrane, and today 45 years after installation and 35 years after the end of the original guarantee period, the membrane is still proven to be waterproof.

### Sika Sarnafil Life Expectancy

Roofs and roof waterproofing membranes are designed to have extremely long service lives but when a new material is introduced knowledge on the service life is restricted to data obtained from accelerated ageing tests. However physical properties of all roof systems change with age and outdoor exposure.

Sika Sarnafil, as part of its commitment to providing the very best single ply membranes, undertakes regular reviews of the life expectancy of its systems. One such investigation was carried out on the Personico roof when the building was 34 years old. Although various kinds of soiling were present, the PVC membrane did not reveal any signs of deterioration. Seams were cut out and tested on site and all proved to be flawless.

Following the comprehensive investigations, a new piece of membrane was hot air welded to the existing material, with strong seams being achieved even after the long exposure of the old material to all kinds of weathering conditions.

With over 50 years' experience Sika Sarnafil has developed a comprehensive catalogue of worldwide investigative roof surveys that prove our single ply systems perform beyond expectations. This work has enabled the BBA to provide an independently assessed 40 year durability statement.\*

\*For full details of Sika Sarnafil's BBA certification, please refer to [www.sarnafil.co.uk](http://www.sarnafil.co.uk)



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