



**Product Used**  
Spaceloft® 9251

## Aerogel Insulation Converts Old Mill House Into Modern Energy-Saving Passive House

Aerogel dramatically improves energy efficiency while conserving space and maintaining building's character features

**Fabrication and Installation Partner**

AGI, Switzerland

---

### Challenges

- Insulate a Swiss home built in the 1600s to achieve passive energy status – not requiring heating or cooling.
- Conserve living space.
- Use a flexible insulation to maintain the original shape and reveals of the house.

---

### Aerogel Solution

- An aerogel solution consisting of multiple layers of 9 mm **Spaceloft® 9251** was used externally and internally on the walls and also internally on the floors.
- Externally – traditional rendering systems were applied with a standard metal mesh incorporated to protect the system.
- Internally – standard plaster was used to allow a breathable solution that let entrapped vapor “breathe” through the wall.

---

### Benefits

- The U value of the walls improved from 1 W/m<sup>2</sup>K to 0.2 W/m<sup>2</sup>K.
- The contractor experienced faster installation rates for the walls and floors.
- The building retained its character features.

