



## Product Used

Spaceloft™ 6200

## Fabrication and Installation Partner

AGI, Switzerland  
(www.agigu.ch)

# Aerogel Insulation Reduces Heat Loss on Small Pipes in Confined Spaces

Meets Stringent Energy Conservation Demands

## Challenges

- Insulation of school hot water pipes in confined spaces.
- The insulation was used to prevent heat loss and protect personnel. Maximum temperature of pipes can exceed 80°C (176°F).
- This application demanded a highly efficient insulation system to meet the required heat loss and energy conservation demands of the local government.
- Traditional materials such as fiberglass and PIR could not meet the energy savings requirements in the confined spaces available.

## Aerogel Solution

- The Swiss engineering consultancy EJ Bertsch worked with AGI to develop an aerogel small-diameter pipe insulation solution that met all requirements.
- A single layer of 6.5 mm **Spaceloft™ 6200** and 1 mm alu cladding was ideal to meet the required hot side temperature.
- The full installation was carried out by AGI.

## Benefits

- The heat loss was reduced to 7.3 W/mt.
- The touch temperature was reduced to below 30°C (86°F).
- The engineering company specified a new hospital project in Lucerne to be insulated with Aspen Aerogels materials.

