

Aerogel Insulation Reduces Heat Loss on School Hot Water Pipes

Meets stringent energy conservation demands



CASE STUDY

DETAILS

Fabrication and Installation Partner: AGI
Location: Switzerland

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 could 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.

SOLUTIONS

- The Swiss engineering consultancy EJ Bertsch worked with AGI to develop an aerogel small-diameter pipe insulation solution that met all requirements.
- AGI installed a single layer of **Spaceloft® 6200** (6.5 mm) and 1 mm alu cladding was ideal to meet the required hot side temperature.

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 for Aspen Aerogels insulation.

