

INNOVATION BUILT ON EXPERIENCE



Project Profile

Angus Council, Forfar, Scotland

Building Project Team

Angus Council
Alba Building Sciences

Proctor Representative

John Johnston

Products

Spacetherm HP Laminate

Project Description

The trial project for Angus Council has shown an improvement factor of almost 100% on the existing walls. Independently tested by ALBA Building Sciences, the average U Value for the building was 0.628 W/m²K prior to the upgrading work. Lining the internal walls with Spacetherm HP Laminate panels improved this average to 0.35 W/m²K.

The thermal images in figure 2 clearly show a vast improvement on the thermal performance of the wall, with reduced cold spots and thermal bridging, thus reducing the energy consumption of the building. Spacetherm HP Laminate offers cost savings over traditional enveloping schemes where the insulation is applied to the external fabric of the building.



Close up view of Spacetherm

Because Spacetherm HP Laminate is applied internally there is no need for scaffolding during installation, thus negating any associated health and safety risks. The use of an internal insulation system removes problems associated with the use of external insulation systems in blocks where there are owner-occupiers. The internal application process is unaffected by adverse weather conditions and the hydrophobic nature of the Aerogel insulation used allows application directly onto a damp substrate. Additionally, the Spacetherm HP Laminate panels can be supplied with a Fermacell facing, giving an exceptionally hard wearing and fire resistant internal surface.

For more information and technical details please visit our website

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Heat loss appears as red, orange and yellow.

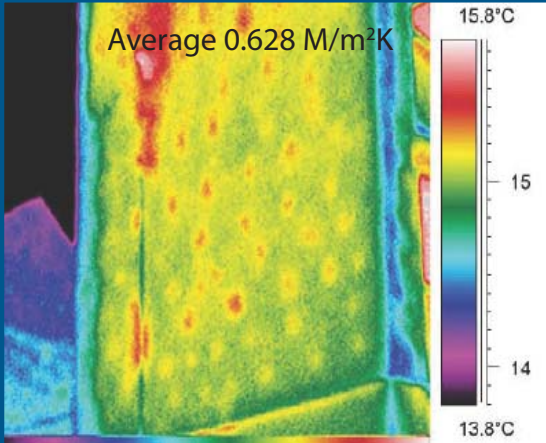


Fig 1. Infa-red image of building before application of Spacetherm.

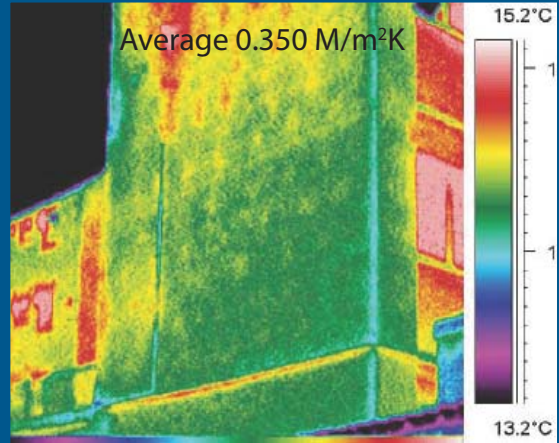


Fig 2. Infa-red image of building after application of Spacetherm.



Picture showing easy application of Spacetherm



Close up view of Spacetherm after installation

In Summary by using Spacetherm the reductions were:-

U-Value Reduction:	0.28 W/m²k, (0.63-0.35 W/m²K)
Energy Reduction:	900 KWhr/yr
Carbon Emission Reduction:	400 kg/yr