

**GRADE II LISTED TOWNHOUSE, BATH**  
**A. PROCTOR GROUP LIMITED**



The heat efficiency of a Grade II listed Georgian townhouse in the historic city of Bath is set to be dramatically improved as a result of the introduction of Spacetherm® Multi insulation.

The challenge of dealing with heating inefficiencies, major heat loss and high heating costs are a common problem with many listed buildings and solid wall dwellings.

Property owner Mike Mower explains, “I obtained planning permission to insulate the top floor of my Grade II listed Georgian townhouse as it is single skin 6” Bath stone (Oolite) and very heat inefficient, all walls have the original lime render and skim and so they need to breathe.

The property in Bath was built in 1818 and has been in my family for 101 years since 1919! I am the third generation to live in it and it was last renovated in 1935 so it needs serious upgrading!

“The architect originally specified another insulation but this would have required encroaching 100mm into the room and would necessitate moving door frames and rebuilding window reveals. After extensive research, I identified the Spacetherm Multi aerogel product from the A. Proctor Group.

“The architect was so impressed by the thermal efficiency of the Spacetherm Multi. With a total thickness of 20mm when rendered, this will not encroach onto the floor space, and the door frames and windows will not need to be altered. Subsequently we included Spacetherm Multi on the planning application as an alternative to the traditional insulation originally specified, which was approved by the Conservation officer and building control.” The renovation of the house is being managed and installed directly by the owner and a lime plaster finish will be applied professionally by a contractor upon completion of the installation.

Spacetherm Multi is a high-performance laminate specifically designed to be laid directly onto existing floors and walls. Spacetherm Multi consists of Spacetherm Aerogel insulation blanket bonded to a 6mm magnesium oxide board.



At just 16mm thick, the use of Spacetherm Multi has virtually no negative impact on floor space, making it ideal for refurbishment projects where space is at a premium.

Typically, a solid wall will have a U value of around 2.1 W/m<sup>2</sup>K. Following the application of Spacetherm Multi, this can be reduced to around 0.8 W/m<sup>2</sup>K, dependent on the wall structure.



Finally, Mike Mower commented “I think Spacetherm Multi is ideal for listed building insulation as it has a minimal effect on the infrastructure of the original building. It has the potential to be used extensively in old buildings such as we have in Bath where heat loss is at a maximum, the original walls need to be able to breathe when insulated and insulation has hitherto been impossible due to the visual impact encroaching on the listed building. I am also seeking planning permission to use the product to insulate the basement floor and walls.”



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