



Product Used

Spaceloft®

Aerogel Insulation Composite Improves U-Value of Barrel Vault Ceiling

Floor to ceiling height conserved in London Imperial War Museum

Fabrication Partner

The Proctor Group
(www.spacetherm.com)

Challenges

- Provide ceiling insulation for Barrel Vault area of Imperial War Museum in London. This area was overheating in the summer and very cold in the winter.
- Improve u-value to below 0.2W/m2K, while not reducing the floor to ceiling height.

Aerogel Solution

- The Proctor Group installed 20 mm of its Spacetherm blanket insulation on the ceiling.
- Spacetherm is a composite of **Spaceloft®** insulation and fibrous matting. It has a thermal conductivity of only 0.013W/mk, enabling high thermal performance in a thin, flexible blanket.

Benefits

- Spacetherm achieved a u-value of 0.18W/m2K, which exceeded the specification.
- Spacetherm's 20 mm thickness barely reduced the floor to ceiling height.

