Values below based on 225mm Solid Brick Wall

<table>
<thead>
<tr>
<th>Aerogel Thickness</th>
<th>Total Thickness</th>
<th>U Value (W/m²/K)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30mm</td>
<td>36mm</td>
<td>0.38</td>
</tr>
<tr>
<td>40mm</td>
<td>46mm</td>
<td>0.30</td>
</tr>
<tr>
<td>50mm</td>
<td>56mm</td>
<td>0.24</td>
</tr>
<tr>
<td>60mm</td>
<td>66mm</td>
<td>0.21</td>
</tr>
</tbody>
</table>

- Thinnest and most thermally efficient internal wall insulation system available.
- Ideally suited to situations where space is at a premium.
- Vapour open.
- Vapour Tight with a variable diffusion membrane.
- No wet trades.
Developed to simplify the process of applying multiple layers of Aerogel onto Solid Walls.

Negates the need to use a direct fix method - increasing its overall thermal performance.

System designed to be finished with boards of the client’s choice.

Available in Aerogel thicknesses ranging from 30mm-80mm, solid walls can now be made very thermally efficient without the loss of internal space.
STEP 1 - PREPARATION

- Before starting check the allocated rooms for any signs of mould growth.
- If mould growth is present apply the affected area with an anti-fungal wash.

Fixtures & Fittings

- Remove the skirting from the walls and any other fixtures such as light switches, plug sockets, radiators, etc.
- All plumbing or electrical work must be carried out by a qualified person.

Rising and penetration Damp

- A survey is recommended to ensure the property is in a suitable condition to receive an insulation upgrade. Do not insulate walls if there is any sign of either rising or penetration damp. Seek expert opinions if unsure.
Step 2- Fix Top and Bottom Rails

Total Aerogel Depth Required
Angle Bracket fixed to ceiling
Angle Bracket fixed to Floor

Step 3- Adhere 10, 20, 30, 40, 50mm Aerogel Panels to Wall

Angle Bracket fixed to ceiling
1400mm x 1300mm x 20mm Aerogel adhesive fixed to Wall
Angle Bracket fixed to Floor
STEP 4 - FIX BRICK PLUGS INTO WALL AT 600mm c/c

- 1400mm x 1200mm x 25mm Aerogel adhesively fitted to Wall
- 65mm x 25mm brick plug fixed into Wall @ 600 c/c

STEP 5 - FIX Z-PROFILE TO BRICK PLUGS

- 1400mm x 1200mm x 25mm Aerogel adhesively fitted to Wall
- Z profile fixed to wall via screws into brick plugs
- 65mm x 25mm brick plug fixed into Wall @ 600 c/c
STEP 6- ADD 20MM AEROGEL STRIPS BETWEEN Z-PROFILES

STEP 7- ADD VARIABLE VAPOUR CONTROL LAYER (OPTIONAL)
STEP 8- BOARDING

Angle Bracket fixed to ceiling
1400mm x 1200mm x 20mm Aerogel sheeting fixed to wall Z profile fixed to wall via screws into wall plugs
60mm x 35mm blank plug fixed into wall @ 600 c/c
1400 x 600mm x 20mm Aerogel inserted between Z profiles
Alfa Rutil Vario Membrane
6mm / 9mm Mineral Board OR 9.5mm or 12.5mm Plasterboard
Angle Bracket: Road to Floor

FINISHES
- Dryline + Paint
- Skim Plaster + Paint
- Lime Plaster + Paint

Fix boards at 300mm vertical and horizontal centres into Z-profile and bottom/stop tracks
Floor and Joist Detail

- Thermal Joist
- Angle Bracket
- 20mm Aerogel Adhered to wall
- 20mm Aerogel between Z Profile
- 30x60mm Brick plug
- Fixing through mineral board
- Plasterboard into Z profile

Reveal Detail

- U-Channel
- 10mm Aerogel
- Mineral board / Plasterboard
- VCL
- 20mm Aerogel Adhered to wall
- 20mm Aerogel between Z Profile
- Angle Bracket
- 30x60mm Brick plug
- Fixing through mineral board
- Plasterboard into Z profile
COMPONENTS

- L-Bracket
- Z-Profile
- Aerogel Infill Panel
- Alfa Rufol Vario Membrana
- Aerogel Back Panel