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The Future of Energy Conservation

200 Brook Drive, Green Park

Reading, Berkshire, RG2 6UB

Energy Locking Nano Technology

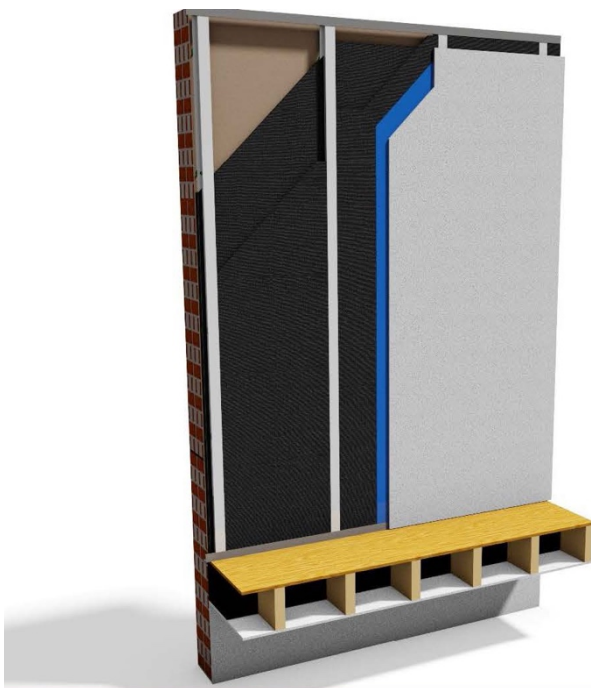


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Information, Installation and Finishing Guide



- 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.

Values below based on 225mm Solid Brick Wall

Aerogel Thickness	Total Thickness	U Value (W/m ² /K)
30mm	36mm	0.38
40mm	46mm	0.30
50mm	56mm	0.24
60mm	66mm	0.21

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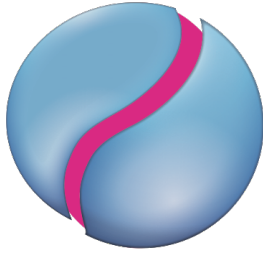
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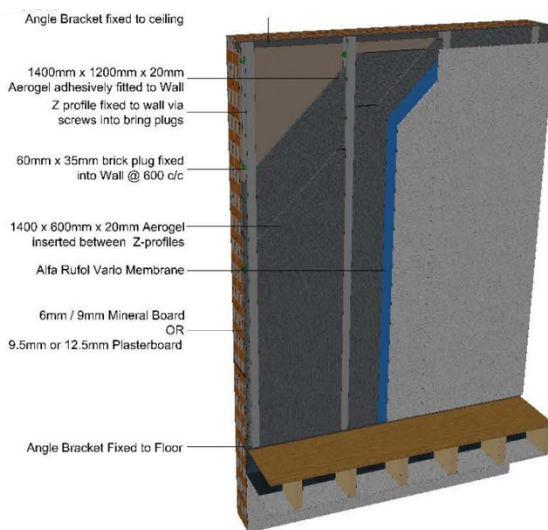
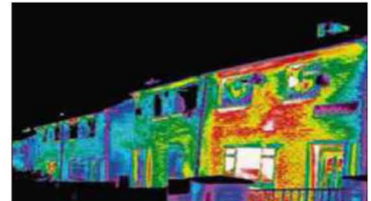
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Developed to simplify the process of applying multiple layers of Aerogel onto Solid Walls.

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.



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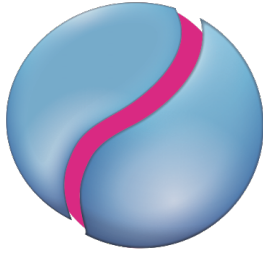
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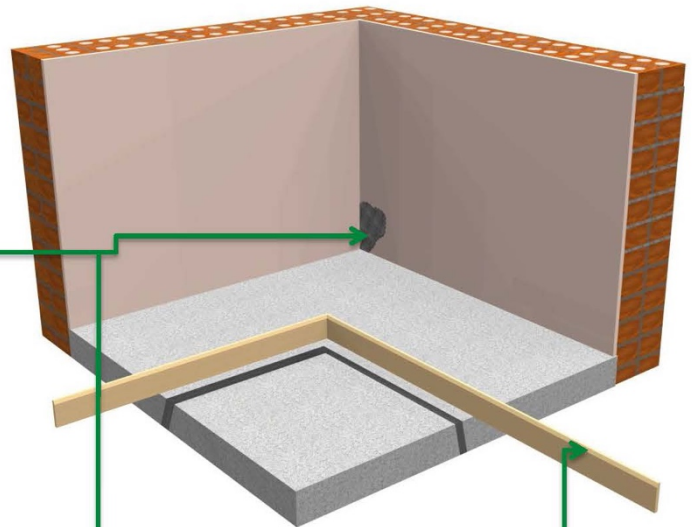


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STEP 1 - PREPARATION



- 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.

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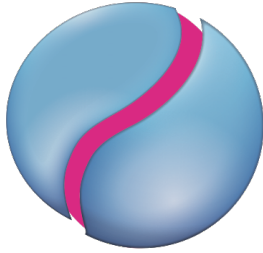
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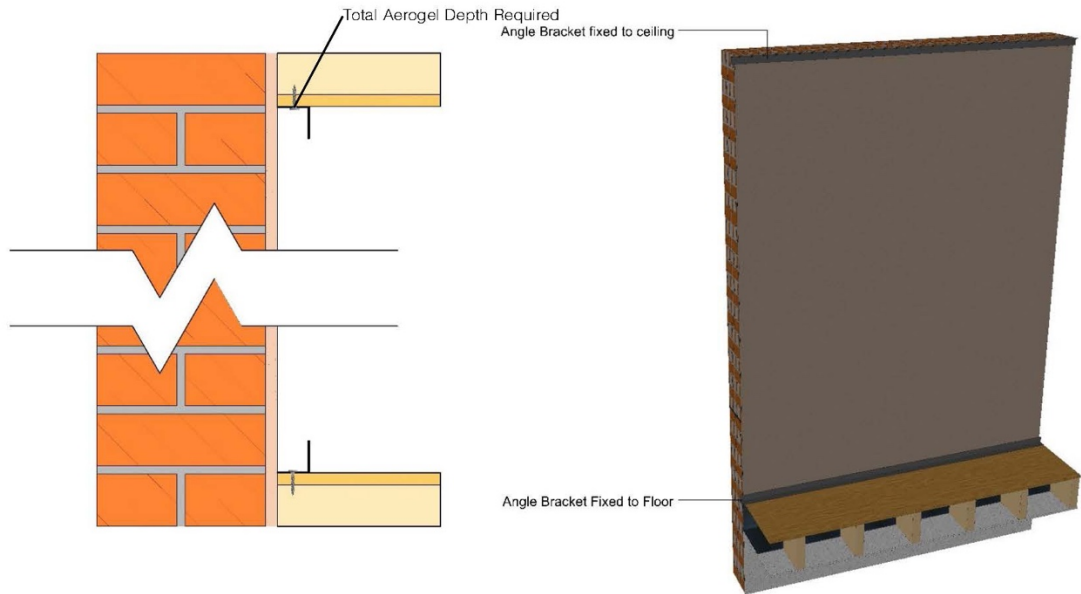


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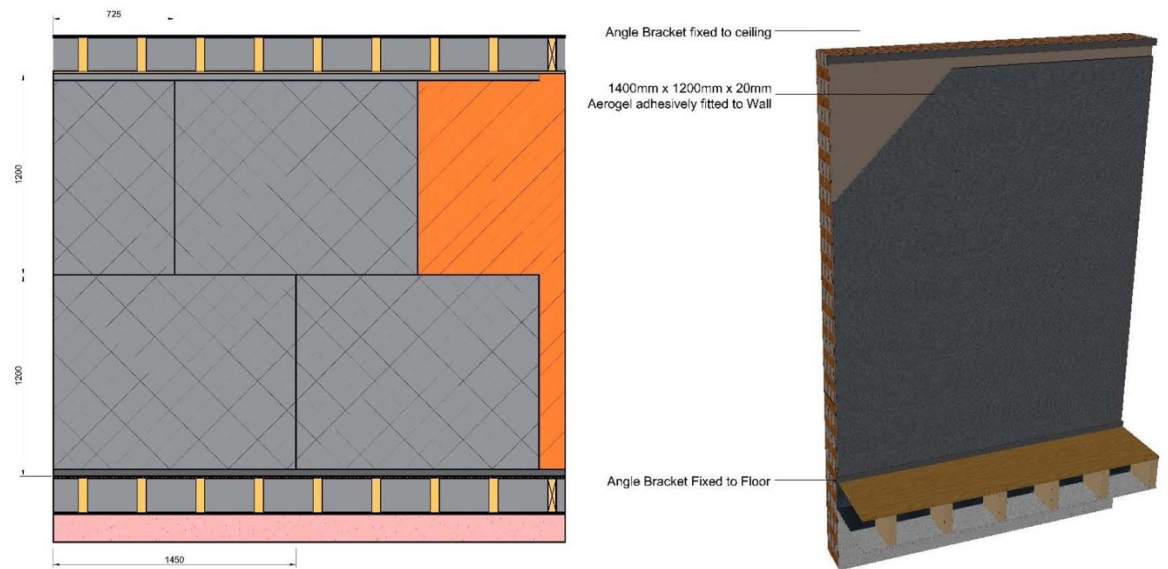


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Step 2- FIX TOP AND BOTTOM RAILS

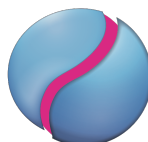


STEP 3- ADHERE 10,20,30,40,50MM AEROGEL PANELS TO WALL



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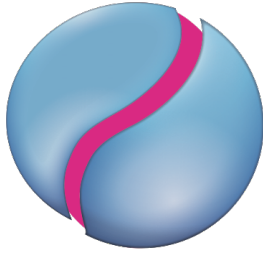
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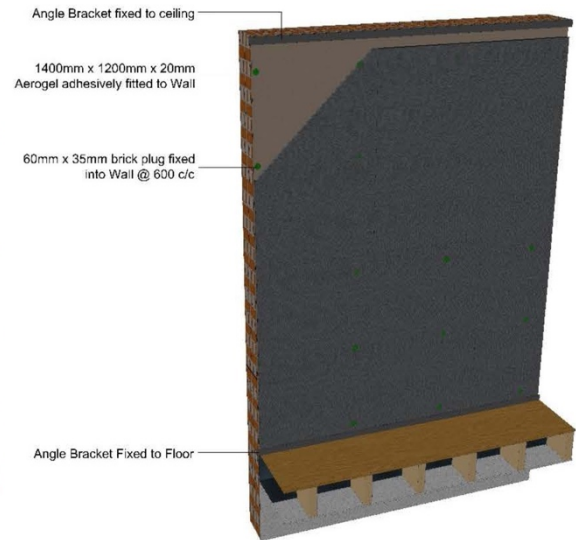
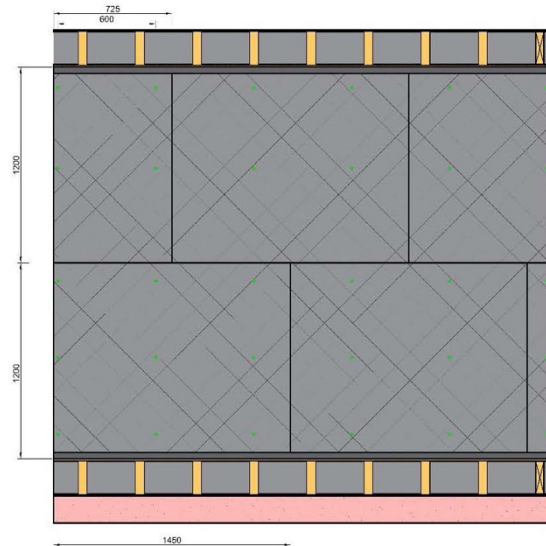


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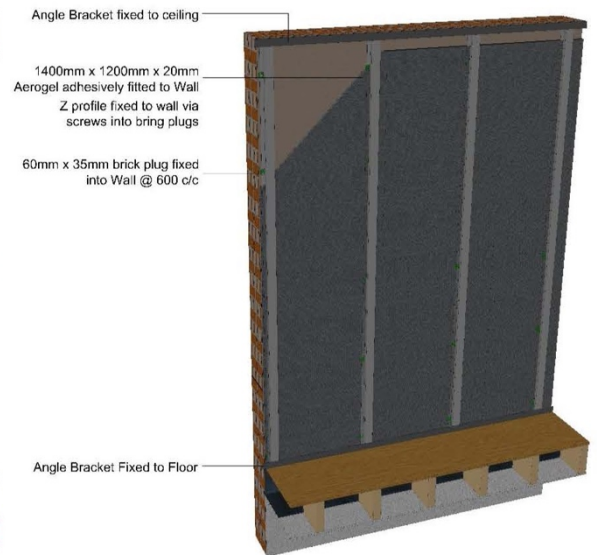
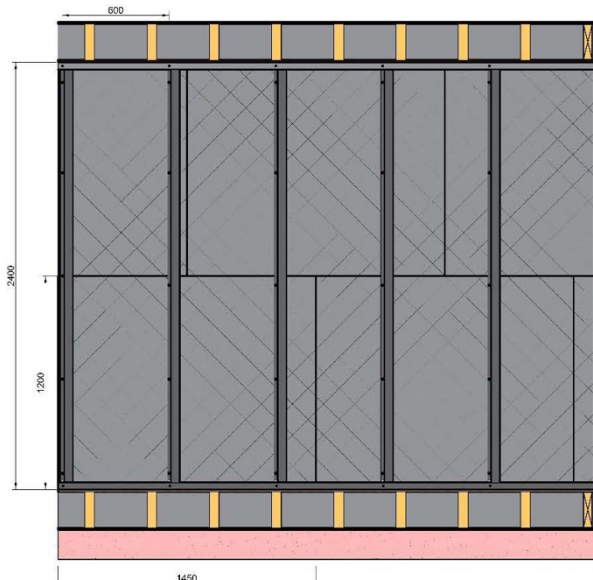


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STEP 4- FIX BRICK PLUGS INTO WALL AT 600mm c/c

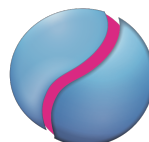


STEP 5 - FIX Z-PROFILE TO BRICK PLUGS



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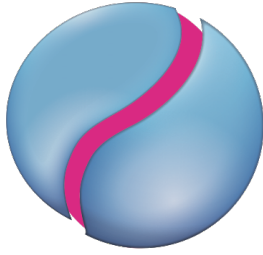
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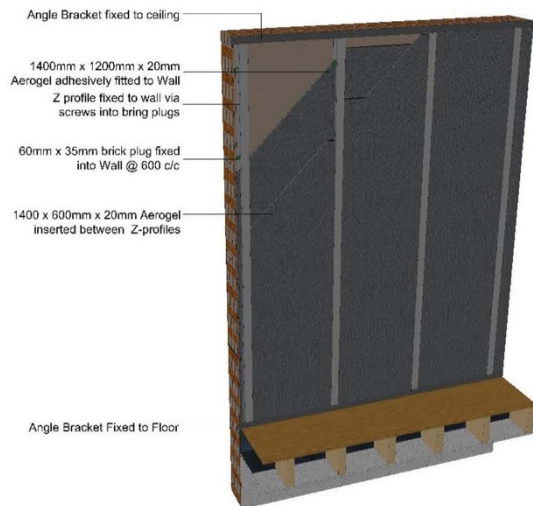
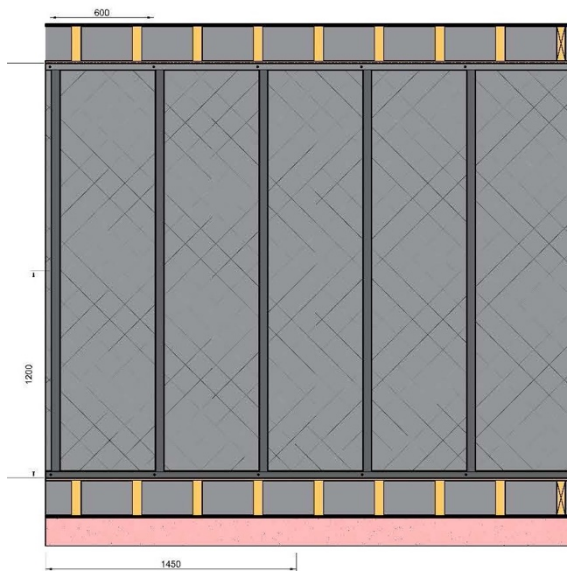


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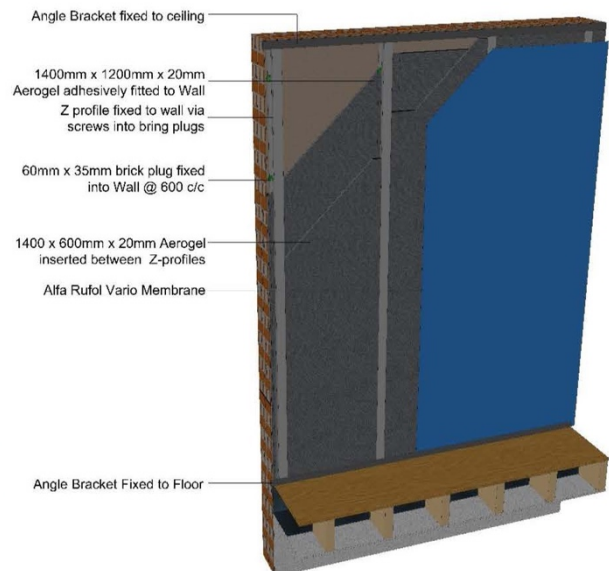
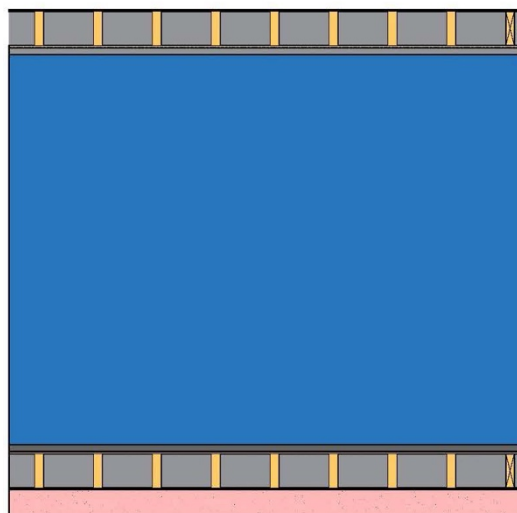


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STEP 6- ADD 20MM AEROGEL STRIPS BETWEEN Z-PROFILES

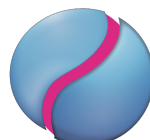


STEP 7- ADD VARIABLE VAPOUR CONTROL LAYER (OPTIONAL)



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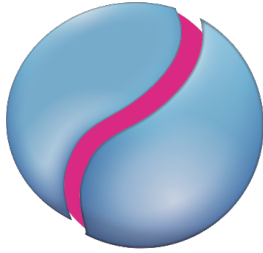
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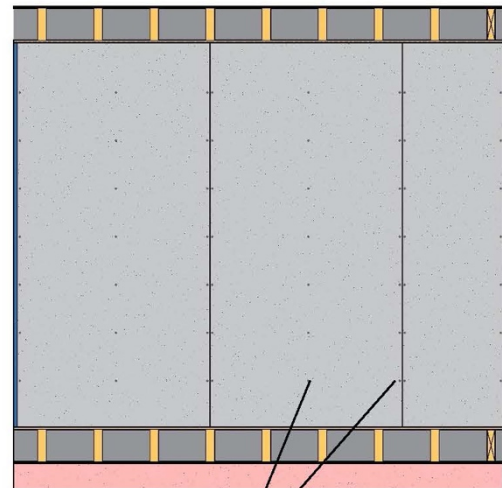
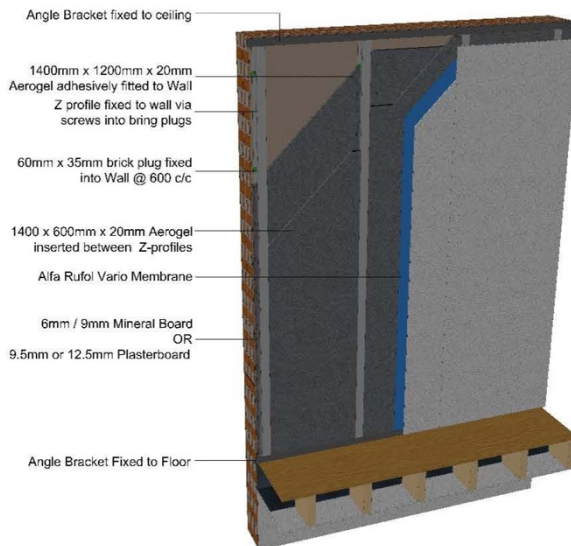


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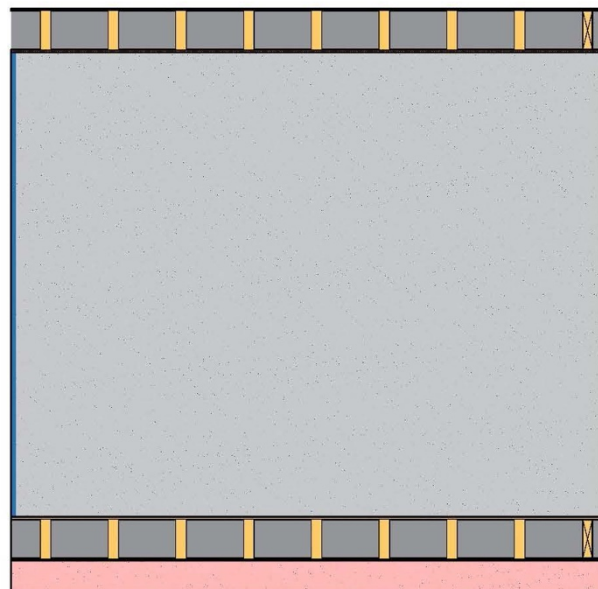
STEP 8- BOARDS



Fix boards at 300mm vertical and horizontal centres into Z-profile and bottom/top tracks

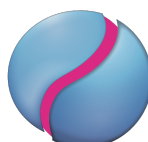
FINISHES

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



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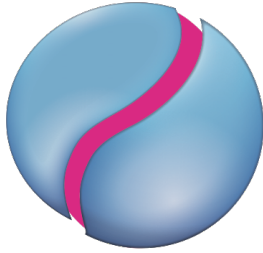
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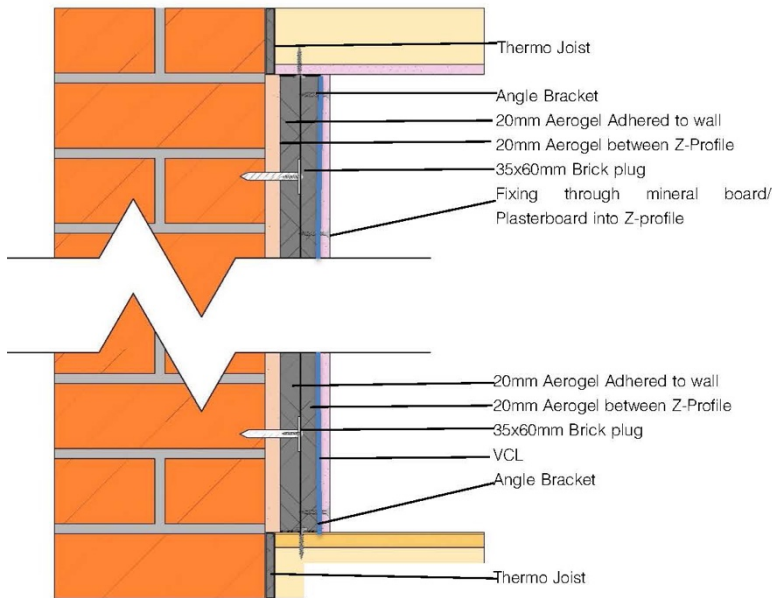


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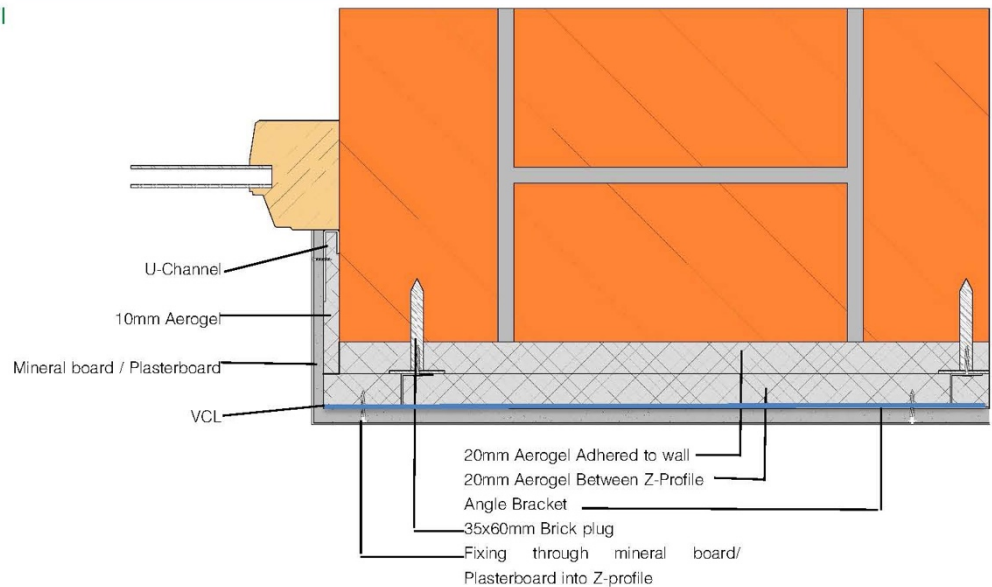


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Floor and Joist Detail

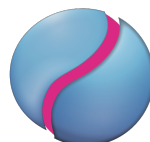


Reveal Detail



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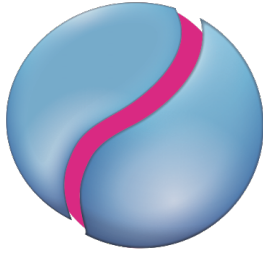
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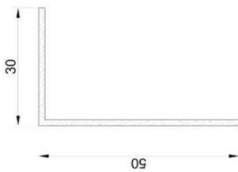
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COMPONENTS

- L-Bracket



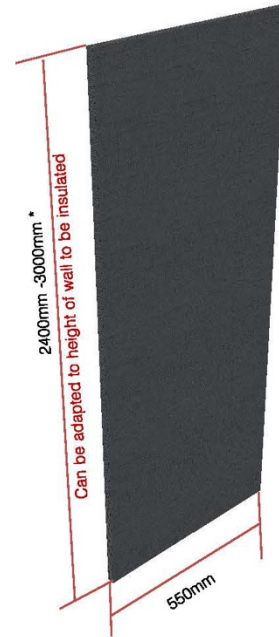
- Brick Plug



- Z-Profile



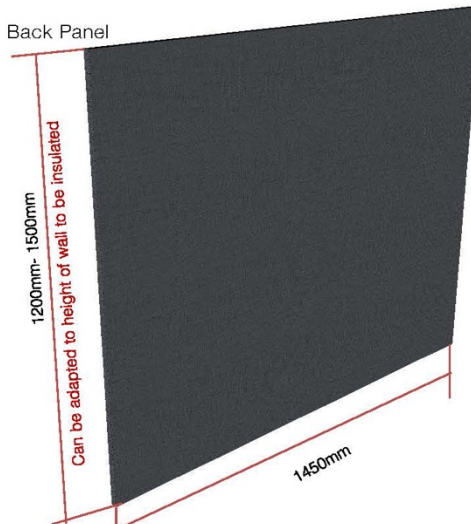
- Aerogel Infill Panel



- Alfa Rufol Varico Membrane

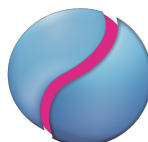


- Aerogel Back Panel



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