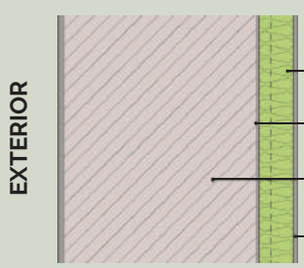
Pavatex Wood Fibre Breathable Insulation

Benefits of Using Pavatex Wood Fibre
Internal Wall Thermal Insulation

- Vapour-open, hygroscopic and capillary-active solution to allow internal moisture to escape from inside to outside preventing mould growth and condensation
- WUFI analysis available to ensure that interstitial condensation will not arise in the future
- Isolair has tongue & groove joints so knits securely together reducing thermal leakage risks
- Can be plastered directly with a breathable plaster or can be finished with a services void and plasterboard
- Can be used on inside of masonry walls (solid / cavity) or timber framed walls
- Adds significant thermal mass to timber framed properties which regulates temperatures all year round
- Excellent acoustic qualities – absorbs reverberation and reduces sound transmission through walls
- Environmentally friendly and carbon negative product made from natural materials. Pavadry is BBA Certified

Internal Wall Insulation (IWI) with PLASTER FINISH



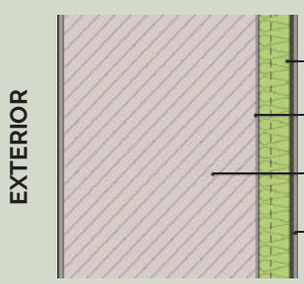
ISOLAIR 40/60/80/100mm Insulation

Existing or new lime based plaster levelling coat and Baumit RK70 bonding coat @ 5mm thickness

External solid or cavity wall (masonry, stone)

Two coat lime plaster finish with mesh

Internal Wall Insulation (IWI) with PLASTERBOARD FINISH



PAVADRY 51/91mm insulation

Existing or new lime based plaster levelling coat and Baumit RK70 bonding coat @ 5mm thickness

External solid or cavity wall (masonry, stone)

Plasterboard or Fermacell board finish (Optional: Services void between Pavadry and plasterboard)

ISOLAIR & LIME PLASTER FINISH

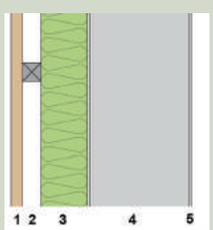
External Wall Insulation
Pavatex Wood Fibre

Benefits of Using Pavatex Wood Fibre
External Wall Thermal Insulation

- Water resistant but vapour-open, hygroscopic and capillary-active solution to allow internal moisture to escape from inside to outside preventing mould growth and condensation
- Thermal bridging eliminated due to all corners and junctions being insulated
- Tongue and groove joints so knits securely together reducing thermal leakage risks
- Can be rendered directly with a breathable render or can be clad with ventilated cladding or a brick wall
- Can be used on outside of masonry walls (solid / cavity), timber / metal framed walls or CLT walls
- Adds significant thermal mass to timber framed properties which regulates temperatures all year round
- Excellent acoustic qualities - reduces sound transmission through walls
- Environmentally friendly and carbon negative product made from natural materials. BBA Certified

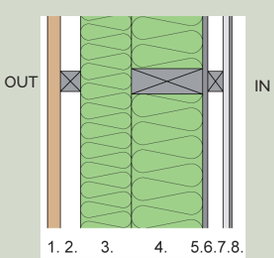
External Wall Insulation (EWI) System With VENTILATED CLADDING

MASONRY WALL



1. Cladding system (timber, brick, screen)
2. Battens to create a 40mm ventilated cavity
3. **ISOLAIR Wood Fibre Insulation**
   30/40/60/80/100/120/140/160/180/200mm
4. Masonry wall (cavity or solid)
5. Internal plaster finish

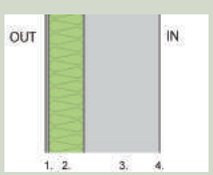
TIMBER FRAME WALL



1. Cladding system (timber, brick, screen)
2. Battens to create a 40mm ventilated cavity
3. **ISOLAIR Wood Fibre Insulation**
   30/40/60/80/100/120/140/160/180/200mm
4. Stud wall fully filled with **PAVAFLEX/PAVATEXTIL**
6. Racking board, taped for airtightness e.g. 12/15mm OSB
7. Optional: 25mm services void
8. Internal plasterboard & skim finish

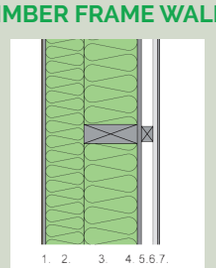
External Wall Insulation (EWI) System With RENDER FINISH

MASONRY WALL



1. 2 coat Baumit render system with mesh
2. **ISOLAIR Wood Fibre Insulation**
   40/60/80/100/120/140/160/180/200mm
3. Masonry wall (cavity or solid)
4. Vapour-open plaster and water-based paint

TIMBER FRAME WALL



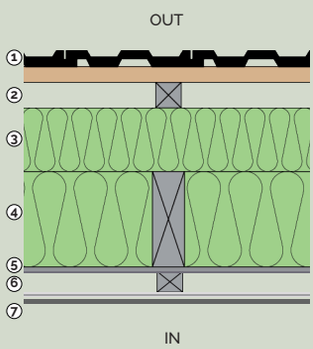
1. 2 coat Baumit render system with mesh
2. **ISOLAIR Wood Fibre Insulation**
   60/80/100/120/140/160/180/200mm
3. Stud wall fully filled with **PAVAFLEX/PAVATEXTIL**
4. Racking board taped for airtightness e.g. 12/15mm OSB
5. Optional: 25mm services void
6. Plasterboard
7. Plaster skim finish & water-based paint

New Warm Roof Insulation
Pavatex Wood Fibre

Benefits of Using Pavatex Wood Fibre
External Roof Thermal Insulation

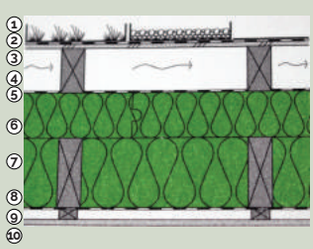
- Water resistant but vapour-open, hygroscopic and capillary-active solution to allow internal moisture to escape from inside to outside preventing mould growth and condensation
- Thermal bridging eliminated due to all rafters and junctions being insulated
- Adds significant thermal mass to roofs which regulates temperatures all year round
- Excellent acoustic qualities – reduces noise heard through roofs e.g. rain, traffic and airplane noise
- Tongue and groove joints so knit securely together reducing risk of thermal and rain leakage
- Wood fibre sarking boards can be left exposed for up to 3 months before the roof covering is fitted
- Environmentally friendly and carbon negative product made from natural materials
- Pitched roof system is BBA Certified

NEW PITCHED ROOF OR EXISTING ROOF WITH TILES REMOVED



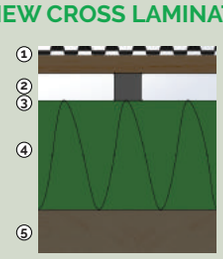
1. Roof Covering on horizontal tile battens
2. Vertical counter-battens 38 x 50mm (HxW) to create a ventilated space
3. **ISOLAIR Wood Fibre Insulation 30/40/60/80/100/120/140/160/180/200mm**
4. Rafters fully filled with **PAVAFLEX/PAVATEXTIL**
5. OSB (racking support and airtightness) or **Pavatex DB 3.5 Airtightness Membrane**
6. Optional: 25mm services void (can be insulated for improved performance)
7. 12.5mm Plasterboard & skim finish

NEW VENTILATED FLAT ROOF (3° MINIMUM PITCH)



1. Finish covering (e.g. green roof or gravel)
2. EPDM
3. WBP Plywood
4. 100mm Battens for ventilation
5. **Pavatex ADB Breather Membrane**
6. **ISOLAIR 100/120/140/160/180/200mm**
7. Rafters fully filled with **PAVAFLEX/PAVATEXTIL**
8. **Pavatex DB 3.5 Airtightness Membrane taped**
9. 25mm Services void
10. 12.5mm Plasterboard & skim finish

NEW CROSS LAMINATED TIMBER (CLT) ROOF



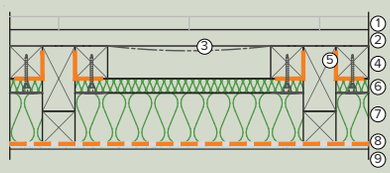
1. Roof Covering on horizontal tile battens
2. Vertical counter-battens 38 x 50mm (HxW) to create a ventilated space
3. **PAVATEX ADB Breather Membrane**
4. **PAVATHERM 80/100/120/140mm or more**
5. Cross Laminated Timber Structure

Internal Refurbishment on Existing Pitched Roofs

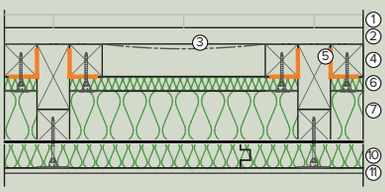
EXISTING ROOF WITH 100mm min RAFTERS
PLASTER OR PLASTERBOARD FINISH

EXISTING ROOF

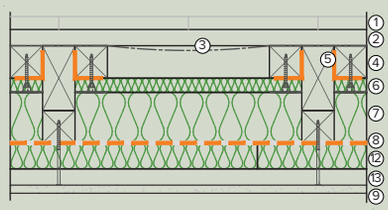
OPTION 3



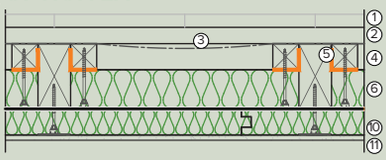
OPTION 1A



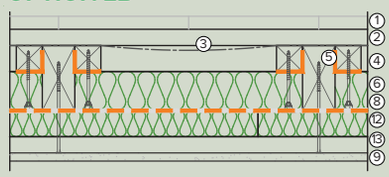
OPTION 1B



OPTION 2A



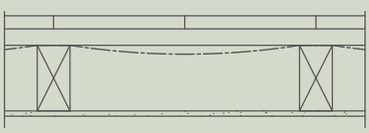
OPTION 2B



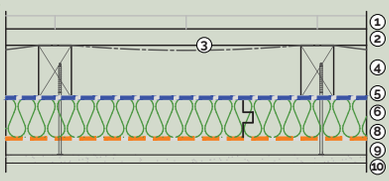
1. Existing roof tile
2. Existing tile batten or sarking ply
3. Existing bitumen or similar felt
4. New 45mm high batten fixed to each side of existing rafter to create ventilation gap
5. **PAVACOLL waterproof glue**
6. **ISOLAIR Wood Fibre Insulation 30/40mm or more. Cut to Fit**
7. **PAVAFLEX/PAVATEXTIL between extended rafters**
8. **PAVATEX DB 3.5 Airtightness Membrane**
9. 12.5mm Plasterboard & skim finish
10. **ISOLAIR Wood Fibre Insulation 30/40/60/80mm**
11. 8mm Baumit lime plaster finish (2 coats with mesh)
12. **PAVATHERM 40-140mm square edged boards**
13. New battens under PAVATHERM joints – perpendicular to rafters

EXISTING ROOF WITH 75mm max RAFTERS
PLASTER OR PLASTERBOARD FINISH

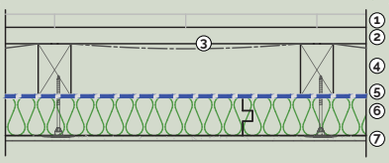
EXISTING ROOF



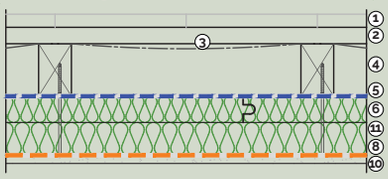
OPTION 2 - GOOD AIRTIGHTNESS



OPTION 1 - DECENT AIRTIGHTNESS



OPTION 3 - GOOD AIRTIGHTNESS



1. Existing roof tile
2. Existing tile batten or sarking ply
3. Existing bitumen or similar felt
4. Existing rafter to create ventilation gap
5. **PAVATEX ADB Breather Membrane**
6. **ISOLAIR Wood Fibre Insulation 30/40/60/80/100/120/140/160/180/200mm**
7. 8mm Baumit lime plaster finish (2 coats with mesh)
8. **PAVATEX DB 3.5 Airtightness Membrane**
9. 25mm battens to create services void
10. 12.5mm plasterboard & skim finish
11. 50mm min. new battens filled with **PAVAFLEX/PAVATEXTIL flexible insulation**

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