

-  INSULATION
-  HEATING
-  SOLAR
-  RENEWABLES
-  SPECIALIST PRODUCTS
-  DISTRIBUTION
-  ENERGY ASSESSMENTS



We set the standards



Dyson Energy Services Ltd.
Dyson House, Armytage Road,
Brighouse
West Yorkshire HD6 1PT
Tel: 01484 406 070
www.dysonenergyservices.co.uk

A guide to
roof, wall, floor
and **specialist**
insulation products



“ Our goal is to remain the preferred choice by our customers, both large and small. With the expansion of our specialist product division we believe we are maintaining our goal. ”

Setting the standards in insulation solutions

We've been doing this for nearly 30 years so we know what we are talking about. And we are constantly exploring new ways to provide cost-saving products and exciting innovations for the future. Which means if we're one step ahead of the game, then so are you – as we say 'we set the standards'.

We provide the sort of things you would expect from an Energy services company; loft insulation, wall insulation, acoustic dpc's and solar panels – but we also **pride ourselves on understanding your requirements** – requirements that can differ tremendously from job to job and customer to customer. So we have compiled a unique service that covers all eventualities and offers something different – **a solution, no matter what.**

CAN WE MAKE IT BESPOKE?

Yes we can. With your specification and our specialist team, we can fashion a board, strip, roll or laminate to fit your brief precisely. We partner with some of the finest manufacturers in the country to bring you materials that are perfect for mixing, matching and providing that all-important **tailored solution that will make all the difference** to you and your customers.

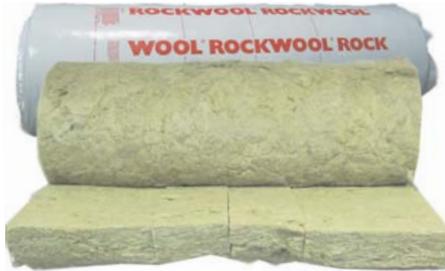


SO WHAT'S NEXT?

Simple. All we ask is a few minutes of your time to flick through our brochure that could make a big difference to you and your business – near the back, you'll find our Specialist Products. In the meantime, if you would like to talk with us, simply call **01484 406 070** and one of our experts will be delighted to help. Alternatively, visit our website at **www.dysonenergyservices.co.uk**

Rockwool Roll Batts

Thickness **100 – 170mm** **1200mm or splits**



Rockwool Roll Batts is a medium density, multi-application insulation.

It is suitable for a thermal insulation of roof spaces in domestic, commercial and industrial buildings. It is also useful for improving the acoustic performance of suspended ceilings.

Thermico Vermiculite

100 litre bags

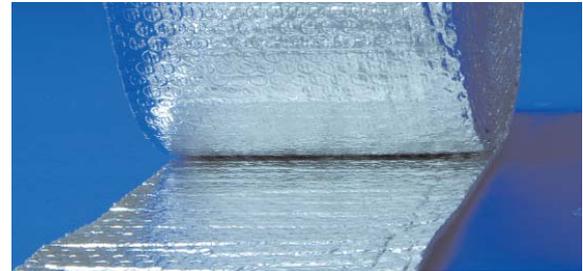


Expanded Vermiculite is well established as an excellent thermal insulating material capable of withstanding temperatures in excess of 1000°C.

The free flowing properties of loose-fill Vermiculite make installation very simple in applications such as loft insulation.

Airflex Fireproof Bubble Wrap

1.2m x 12.5m



The product is used in constructions where the ceiling follows the pitch of the roof and encloses a habitable space.

Care must be taken to ensure that the Airflex insulation does not come into contact with heat sources greater than 80°C. As aluminium is a conductor of electricity, the Airflex product must be earthed once installed.

Knauf Loft Roll 44

Thickness **100 – 200mm** **1200mm or splits**



Knauf Loft Roll 44 is a low density glass mineral wool quilt which is lightweight, flexible, resilient and non-combustible.

The rolls are 1140mm wide and partially perforated to produce either 2 rolls 570mm wide or 3 rolls 380mm wide. Knauf Loft Roll 44 is primarily used for the thermal insulation of pitched roofs at ceiling level. However, it can also be used to thermally insulate floors and partitions or wherever a lightweight mineral wool quilt is required.

Kingspan Themopitch TP10

Thickness **20 – 150mm** **1200 x 2400mm** shts



Rafter level insulation for tiled or slated pitched warm roof spaces.

Kingspan Themapitch TP10 is faced on both sides with a low emissivity composite foil facing which is highly resistant to the transmission of water vapour. This reflective, low emissivity surface effectively double the thermal resistance of the cavity in which the board is placed.

Breather Membrane Kingspan Nilvent

1.5m x 50m



Breather membrane for unventilated pitched roofs.

Lightweight and completely waterproof, can be used as a temporary waterproof roof ceiling. Completely airtight and has excellent water repair permeability, with no risk of condensation. Environmentally friendly – ideal for new build.

Airtec Foiled Bubble Laminate

1.2m x 25m



Airtec is a multi-layer air bubble film insulation with aluminium bonded to either one face (Airtec-Single) or both faces (Airtec-Double).

The aluminium is coated with polythene to give durability and corrosion resistance. Therefore creating a fully waterproof insulation system.

Ursa Diverso Quilt

Thickness **100 – 200mm**

1200mm or splits



Ursa Diverso Quilt is a lightweight, non-combustible, unfaced glass mineral wool product.

It has perforations enabling the width to be split to either 2x570mm or 3x380mm.

Xtratherm XT/PR

Thickness 20 – 150mm 1200 x 2400mm shts



Placing Xtratherm XT/PR between and/or below the rafter creates a Ventilated Roof.

A continuous 50mm ventilation space is required between the insulation and the roof tile underlay to allow any moisture to be vented out of the construction.

Climaflex Hot & Cold Tank Jackets Pipelagging



For circular tanks, insulation jackets are available in a range of standard sizes.

Two common sizes are 900 x 450mm & 1050 x 450mm.

Any water tank in the loft should be insulated around the sides and on the top. The insulation around the sides must extend down to the insulation on the floor of the loft.

All water pipes in the loft (including overflows) should be insulated. The only exceptions are those pipes that are within or under the loft insulation or within the tank casing.

Actis Thin Multifoil Insulation

Thickness 10m² – 1.62 x 6.25m 20m² – 1.60 x 12.50m



Triso – Super 10 is suitable for use in an over rafter application giving continuous layer of insulation across the roof.

Creating a more air-tight section, it can also be used under the rafter.

TLX Multifoil Insulation

Thickness 1200mm – 10m



TLX is the original certified multifoil and can be used above and below rafters.

It is guaranteed to provide 'U' value of 0.2 for 25 years. The system is fault tolerant, air and vapour tight, cutting CO² emissions and saving energy.

Rockwool Full Fill Cavity

Thickness **50 – 100mm**

1200 x 455mm



Rockwool Cavity provides a completely reliable and cost-effective method on insulating new masonry cavity walls.

The lightweight insulation batts considerably reduce heat loss without permitting water transmission from the outer to the inner leaf. The risk of condensation is also reduced.

Rockwool Flexi Slab

Thickness **50 – 140mm**

1200 x 600mm

1200 x 400mm



Rockwell Flexi Slab is a unique insulation product with a patented flexible edge along one side.

This flexi edge ensures a perfect fit is maintained between the product and its supporting framework. Suitable in walls, partitions, floor and roofs where perfect fitting insulation is essential.

Knauf DriTherm Cavity Slab 37/34/32



Thickness **50 – 125mm**

Slab size **1200 x 455mm**



Crown DriTherm Cavity Slabs are semi-rigid or rigid slabs of non-combustible glass mineral wool with a water-repellent additive.

They are 455mm wide to suit standard vertical wall tie spacings, ensuring a closed joint with adjacent slabs.

Crown DriTherm Cavity Slabs have a special additive to make the product water repellent and are produced in three grades.

Cavity Stop Socks

65 x 65mm x 1200m

75 x 90mm x 1200m

100 x 120mm x 1200m

Other sizes to order



Cavity Stop Socks have been developed as thermal and acoustic fire stops

Designed to restrict the spread of smoke and flames within external masonry and timber frame walls, and to further minimise the effect of flanking noise pollution at wall junctions.

Xtratherm Plasterboard Laminates

25 + 12.5mm

38 + 12.5mm

50 + 12.5mm

60 + 12.5mm

All Dot n Dab

For mechanical fix we can produce any size.

Various wall membranes.



Xtratherm Thermal Laminates, plasterboard/PIR composite boards that brings wall performance lower and delivers enhanced detailing at non-repeating thermal bridges.

Kingspan TW50 Cavity

Thickness 25 – 100mm

1200 x 450mm



Partial fill cavity wall insulation.

High performance rigid urethane insulation – thermal conductivity 0.023W/mk utilises traditional cavity wall construction methods. Clear cavity is maintained – resists moisture penetration. Easy to handle and install

Knauf Rocksil Flexi Slabs

Thickness 50 – 140mm

1200 x 600mm



A multi-purpose thermal and acoustic insulation slab, specifically designed for installation by friction fitting.

For general thermal and acoustic insulation. For use in applications such as internal partitions and between timber and metal studs, rafters and floor joists.

Styrene Poly Cavity

Thickness 25 – 100mm

1200 x 450mm



Can be used as a partial or full fill cavity wall insulation in new masonry walls.

When used as a partial fill, boards are flat faced and require a 50mm air cavity, boards are fixed using wall ties with integral clips. When used as a full fill, boards have a ridged surface and are tongue and grooved for easy fitting.

Cavity Closers

Manthorpe, Thermabate
Dacatie, TCB'S



The Manthorpe range of Thermal Cavity Closers offer an economical solution to cold bridging problems.

They not only provide a thermal break to the cavity but also act as an effective vertical DPC barrier, ensuring compliance with Building Regulations and the required U-value.

Xtratherm

XT/CW

Thickness **25 – 100mm**

1200 x 450mm



Xtratherm XT/CW(T&G) is the best solution when designers/regulations demand additional thermal insulation in external masonry walls.

Xtratherm XT/CW foil faced boards achieve high standards of insulation whilst maintaining a residual cavity to prevent moisture penetration, without a substantial increase in the width of the cavity and of the overall wall thickness.

Knauf

Universal Slabs

Thickness **25 – 100mm**

1200 x 600mm



Knauf Universal Slabs are a range of semi-rigid to rigid, non- combustible, glass mineral wool slabs.

Universal Slabs are general purpose slabs for thermal and acoustic insulation. They can be used in a wide range of applications.

Polyfoam

Cavityboard

Thickness **25 – 75mm**

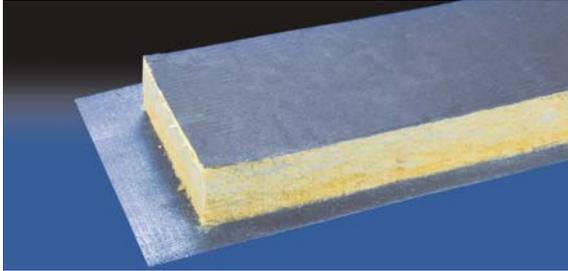
1200 x 450mm



Polyfoam Cavityboard is a 100% ozone friendly, extruded polystyrene, rigid board insulation.

It is lightweight, yet has excellent rigidity and long term effectiveness, even when exposed to moisture. Polyfoam Cavityboard is supplied with interlocking rebated edges that help to create a complete insulated envelope with fewer gaps and also help to restrict moisture ingress across the finished construction.

Acoustic DPC'S Brick Return DPC'S



Acoustic Party Wall dpc cavity closer has been specifically developed to minimise flanking sound transmission and fire spread along the cavity of the external wall.

The use of Rockwool Acoustic Party Wall dpc enables the specifier to close the external wall cavity at the separating wall and floor junctions to provide acoustic insulation and one hour fire resistance without the risk of water penetration.

Polyfoam Laminates

25mm + 12.5mm – 75mm + 12.5mm



These are a laminate of Polyfoam.

100% ozone friendly, extruded polystyrene, rigid insulation board and either plasterboard or a tough weatherproof resistant, fibre reinforced cement facing board.

Lamella Lining Boards

Thickness 25mm + 12.5mm 100mm = 12.5mm



Lamella Linerboards are high density laminated fire resistant slabs, affixed to plasterboard sheets.

They are thermally efficient, improves acoustic performance, is non-combustible and provides a robust solution – ideal for refurbishment.

Knauf Polyfoam Flooring

Thickness **25 – 85mm**

2500 x 600mm



Polyfoam Floorboard is a high performance, 100% ozone friendly, extruded polystyrene, rigid insulation board.

It is lightweight, yet has excellent structural strength and compression resistance. Polyfoam Floorboard is available in four grades. Polyfoam Floorboard Super is supplied with interlocking rebated edges. Polyfoam Floorboard Domestic, Standard and Extra are square edged boards.

Kingspan Thermafloor TF70

Thickness **20 – 150mm**

1200 x 2400mm



Insulation for solid concrete and suspended ground floors.

High performance rigid urethane insulation – thermal conductivity 0.023 W/mk. No requirement for a vapour control layer. Quick response floor heating prevents heat loss through 'heat sump'. Minimises the cost of related items. Ideal for new build and refurbishment. Easy to handle and install.

Monarfloor Acoustic Chipboard Flooring Various Ancillaries



Timber decks require solutions, which will control the transmission of airborne and impact sound.

Monafloor's® range of solutions include acoustic deck systems 9, 18 and 22, which are designed to be laid over existing floors.

Styrene SDN Flooring

Thickness **25 – 300mm**

1200 x 2400mm



Can be used in a variety of floor applications, both domestic and industrial, to satisfy the current building regulations U-value requirements.

Most commonly used in ground supported or suspended concrete floors with an overlay of concrete, screed or wood.

Xtratherm XT/UF

Thickness **20 – 150mm**

1200 x 2400mm

XT/UF

Thickness **75mm**

1200 x 2400mm



Xtratherm XT/UF provides the most efficient means of insulating a floor.

It has the strength and thermal properties required to reach the high performance U values asked for in the Building Regulations. Xtratherm XT/UF should be laid with closely butted joints, laid staggered with a break bonded pattern and fitted tightly at edges and around any service penetrations.

Rockwool Rockfloor

Thickness **25 – 100mm**

1m x 600mm



Rockwool – Rockfloor is a tissue faced high compressive strength slab.

Rockfloor insulation may be used below most floor constructions, including floor grade, T & G chipboard, OSB, plywood etc. and supported on concrete slabs, or on fully boarded timber joisted floors. Excellent acoustic and thermal properties. Easy handling and filling.

Kronofloor V313 Chipboard

Thickness **18/22mm**

2400 x 600mm



Kronofloor is suitable for a wide range of flooring applications including floating and joisted floors.

For clarification of grade/thickness selection and joist spacing's always refer to the British Standard code of Practice for the Selection and Application of Particleboards, Oriented Strand Board (OSB), cement bonded particleboard and wood fiberboards for Specific Purposes.



Specialist Products – Laminators

Whatever your insulation requirements, however complex, whatever size and quantity...

...we carry Cavity Stop Socks, Acoustic Dpc, Chipboard Flooring Laminates, Frame Formers, Polythene Enclosed Ceiling Pads, Torch On Roofboards, Wallboard Laminates, Faced Rockfibre Slab, Decking Board and even a bespoke cutting service.

We offer an extensive range of thermal and acoustic insulation products.

We can laminate virtually any insulation to any surface using our new purpose built spray booth. Our hot wire machine is an auto slicer and dicer, capable of cutting a 3 metre x 1.2M polyfoam/styrene blocks.

We are more than happy to prepare and supply samples of your specification for inspection. This will ensure that you are totally happy with the end product prior to placing your order.

Our technical team have the expertise to work closely with customers and specifiers, assessing a problem and finding the most efficient and practical solution.

We were contacted by Geodis Wilson Freight Forwarder who had a problem with transporting temperature affected medication abroad. We have designed and now build airfreight containers out of Polyfoam.

If you have a problem finding what you require or would like to talk to one of our technical team, simply call:

01484 406070

Pe 10 expanded polystyrene & extruded polyfoam cutting machine (hot wire machine).

The hot wire machine is an auto slicer and dicer, capable of cutting a 3 metre x 1.2m polyfoam/styrene blocks down to 6mm boards and then increasing by 1mm, into sheets or cut pieces. We are capable of achieving tolerances of 0.75mm.



The wires are set in 1mm pitch studding.

Capable of heating up to 52 (0.5mm diameter) wires in the (x) axis and 28 in the (y) axis. The slicing frame can be quickly and easily changed for potional frames to save setting time.

Spray Booth

Our spray booth is purpose built for bonding laminated boards to various base boards, namely; wallboards, plyboard & chipboard.

We are also capable of sticking various other materials, such as paperfaced and tissue faced products.

There is also an inbuilt hot melt system situated within the spray booth for bonding such as dpcs and foam products.





P.I.R. Boards Plasterboard/Mechanical Fix

Thickness **9.5 or 12mm + 25/38/50/60mm P.I.R.**



Ideal for newbuild and refurbishment, provides insulation, dry lining and vapour control in one board.

Premium performance, rigid phenolic insulation with low thermal conductivity and Class O fire rating.

Easy to handle and install – CFC/HCFC free.

P.I.R. Laminates Dot and Dab

Thickness **9.5 or 12mm + 25/38/50/60mm P.I.R.**



A composite panel consisting of foam core with kraft paper face, bonded to plasterboard.

For internal applications. Used for thermal insulation of existing or new cavity, solid or cavity masonry walls.

P.I.R. Boards/Chipboard

Thickness **17 – 120mm P.I.R Boards**

Thickness **18 – 22mm Chipboard**



High performance, rigid/extruded polystyrene insulation bonded to inter locking edge chipboard – ideal for floating and suspended floors.

No requirement for a vapour control layer and the need for wet screeds are eliminated. Easy to handle and install.

New build and refurbishment.

P.I.R. Boards/Plywood

Thickness **17 – 120mm**

Thickness **6, 9 & 18mm Plywood**



High performance rigid foam insulation boards for rafter level insulation for flat roofs.

Used in new build and refurbishment where additional thermal insulation is required CFC and HCFC free.



SDN Polystyrene/Plasterboard

Thickness **9.5 or 12.5mm – Plasterboard**

Thickness **25 – 150mm – Insulation**



For internal linings of walls and roofs. A laminated polystyrene is bonded to plasterboard.

Used for thermal insulation of external walls and roofs. Benefits include fast installation, using simple drylining techniques, gives excellent thermal performance – ideal for upgrading listed and historic buildings.

Extruded Polyfoam/Plasterboard

Thickness **9.5 or 12mm – Plasterboard**

Thickness **25 – 70mm – Polyfoam**



For internal lining of walls and roofs. A laminate of polyfoam, performance polystyrene and a tapered edge plasterboard.

Used for thermal insulation of external walls and roofs. Benefits include fast installation, using simple drylining techniques, gives excellent thermal performance – ideal for upgrading listed and historic buildings.

Expanded Polystyrene/Chipboard

Thickness **25 – 100mm Polystyrene**

Thickness **18 & 22mm Chipboard**



A high performance, rigid expanded polystyrene insulation bonded to tongue and groove chipboard with a thermal conductivity of 0-029 – 0-030.

It does not require a vapour barrier and eliminates the need for wet screeds, also has excellent compressive strength.

Styrene Strips

Cut to size on request



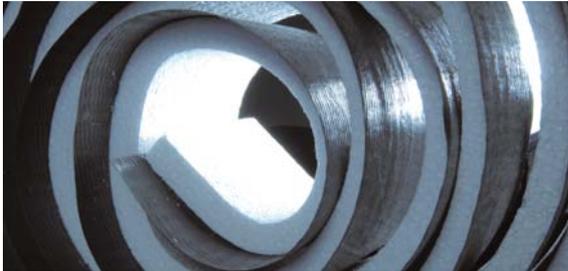
Used in conjunction with boards, strips can be cut to size to meet specification requirement.



Polystyrene/DPC

EPS/DPC6/150/165mm

EPS/DPC6/150/225mm



Developed to close masonry cavities for thermal applications around windows and doors presenting cold bridging.

Can be easily installed as the brick and block builds.

Polyfoam/Chipboard

Thickness **28 – 85mm Polyfoam**

Thickness **18 and 22mm Chipboard**



A high performance, rigid extruded polystyrene insulation bonded to a tongue and groove chipboard.

It does not require a vapour barrier and eliminates the need for wet screeds.

Polyfoam Boards

Cut to size from **6 – 50mm thick**

Lengths **2.2 or 3.0 metres**

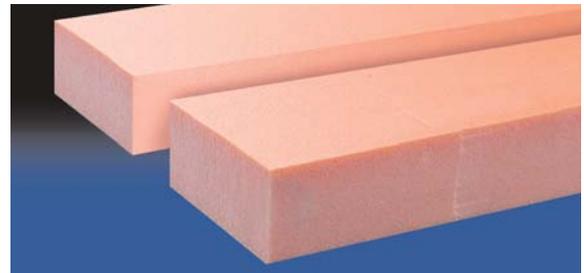


High performance fabrication boards made from extruded polystyrene.

Lightweight yet has excellent structural strength, has a straight edge to buff together.

Polyfoam Strips

Cut to size, available on request



Used in conjunction with boards, strips can be cut to size to meet specification requirements.



Cavity Stop Sock

65+65/75+90/100+120

Other sizes available on request

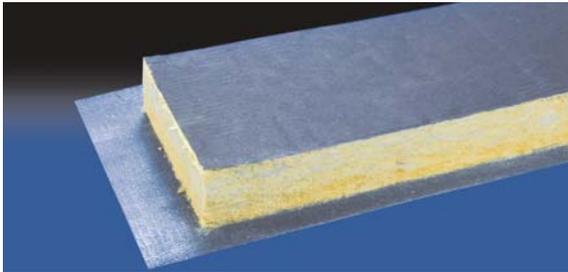


Designed to meet the requirements of stopping the spread of smoke and flames within external masonry and timber frame walls.

Non combustible rock fibre mineral wool in polythene sleeve.

Acoustic/Party Walls DPC

Sizes available on request



Provides acoustic insulation and provides protection against the spread of flames within the cavity and between floors.

Provides an effective thermal barrier between the cavity and window/door frame.

Encapsulated Rolls

50mm Rockwool – 170mm Rockwool

50mm Glass – 250mm Glass

60mm Universal Rolls

25mm Partition Mat – 50mm



Glassfibre and Rockwool encapsulated rolls providing acoustic and thermal insulation.

Provides protection against the spread of insulation fibres. Can be used on suspended ceilings.

Encapsulated Rolls/Faced

50mm Rockwool – 170mm Rockwool

50mm Glass – 250mm Glass

60mm Universal Rolls

25mm Partition Mat – 50mm



Glassfibre and Rockwool encapsulated rolls providing acoustic and thermal insulation.

Provides protection against the spread of insulation fibres. Can be used on suspended ceilings.



Rock Pads/Glass Pads

For use above suspended ceilings

600mm x 600mm

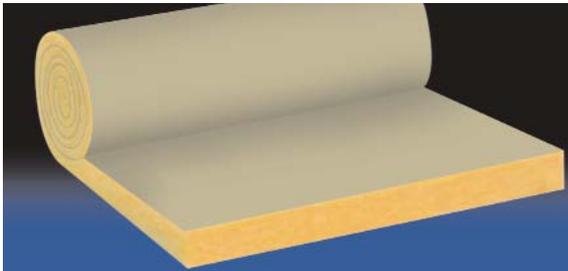
600mm x 1200mm



Black polythene enclosed fibre mat for additional thermal insulation of ceiling systems – where loose fibres could cause problems.

Paper Faced Rolls

100 – 200mm



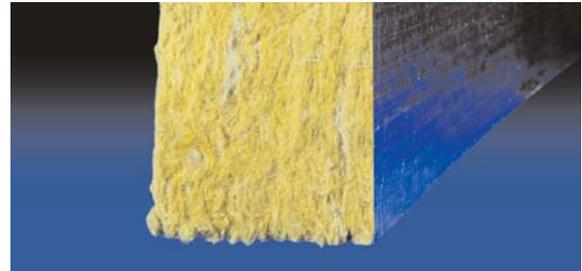
Paper/Faced rolls for thermal and acoustic insulation of double skinned insulation buildings.

Facing assists roll strength without affecting performance.

Foil Faced Slabs

600mm x 600mm

600mm x 1200mm

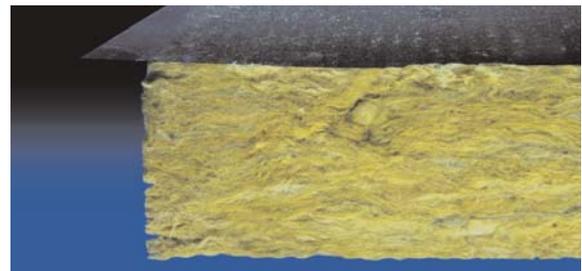


Rockfibre slabs with a foil laminate. Insulation for walls and partial fill cavity wall insulation.

Designed for thermal and acoustic applications where a high efficiency vapour barrier is required.

Black or White Tissue Faced Slabs

Sizes available on request (+ Density)



Tissue faced slabs for thermal and acoustic insulation.

Black or white tissue facing assists roll strength without affecting acoustic performance.

