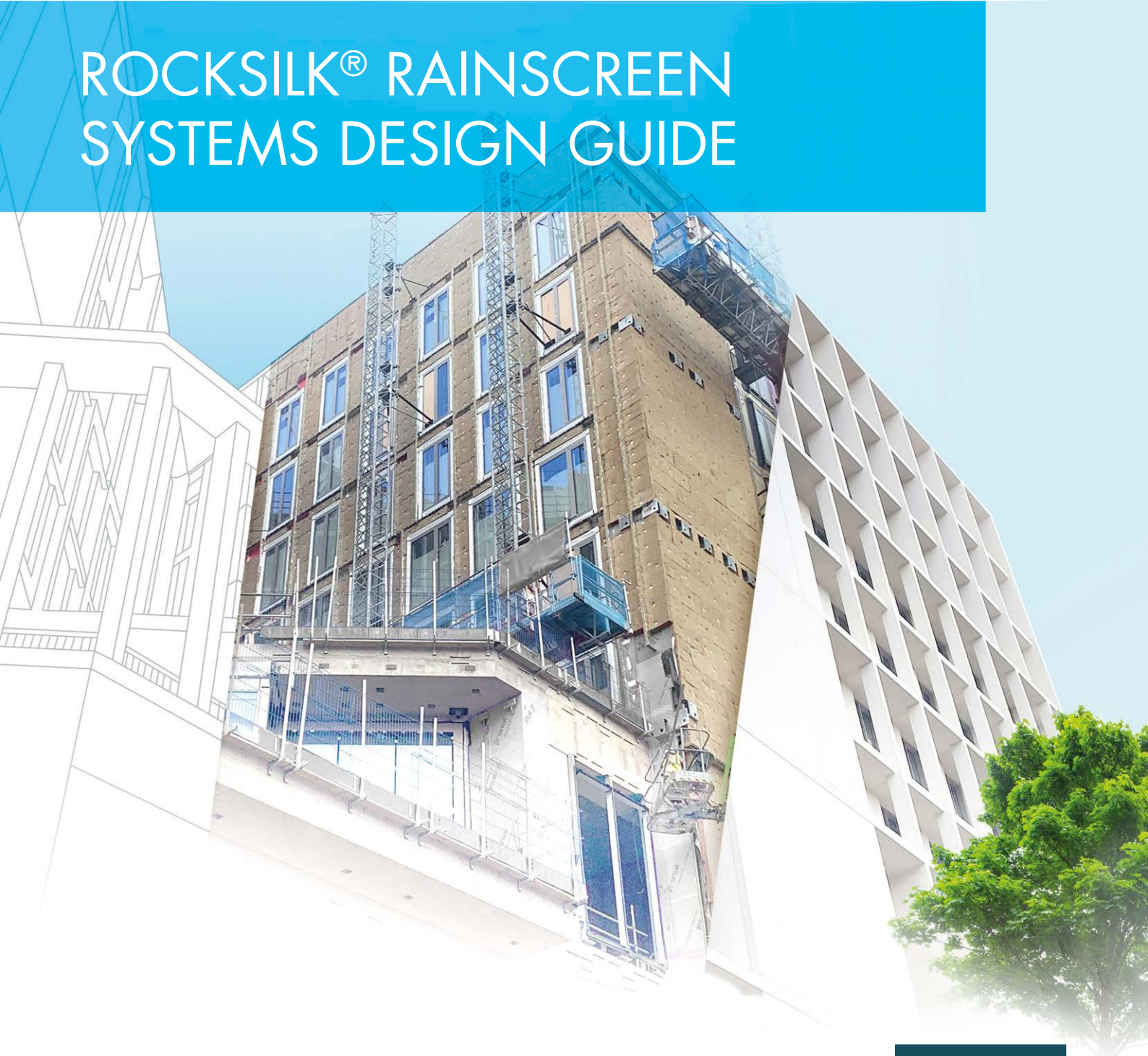


ROCKSILK® RAINSCREEN SYSTEMS DESIGN GUIDE



BUILD WITH CONFIDENCE

challenge.
create.
care.

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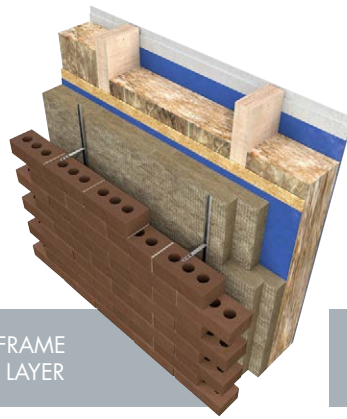
INTRODUCTION



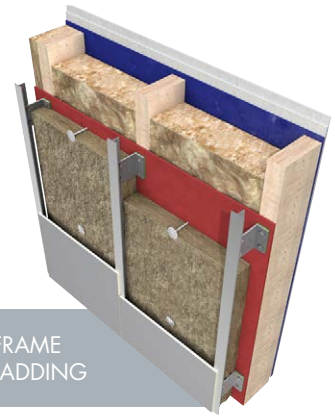
This guide sets out the key principles and standards to ensure that construction utilising Rocksil[®] RainScreen Slab is of the highest quality, while real, on-site performance is maximised using the most efficient design.



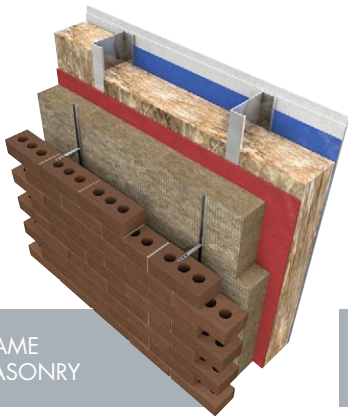
TIMBER FRAME
SINGLE LAYER



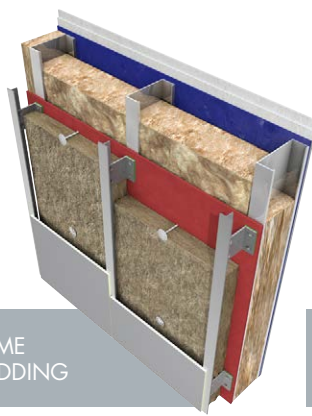
TIMBER FRAME
DOUBLE LAYER



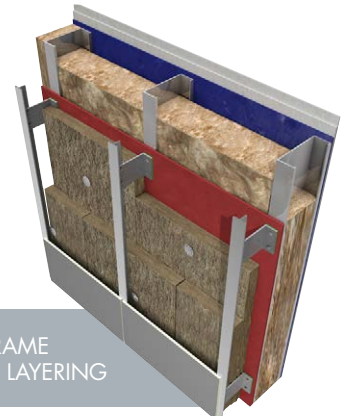
TIMBER FRAME
WITH CLADDING



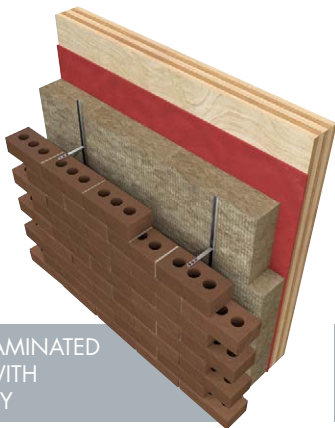
STEEL FRAME
WITH MASONRY



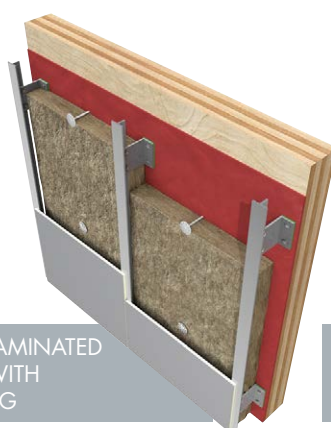
STEEL FRAME
WITH CLADDING



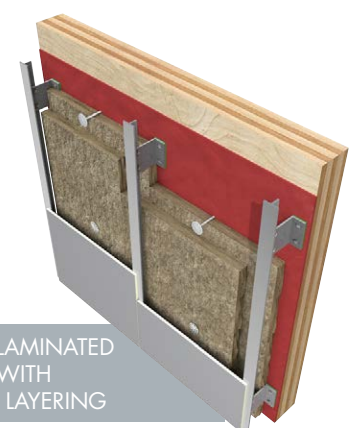
STEEL FRAME
DOUBLE LAYERING



CROSS LAMINATED
TIMBER WITH
MASONRY



CROSS LAMINATED
TIMBER WITH
CLADDING



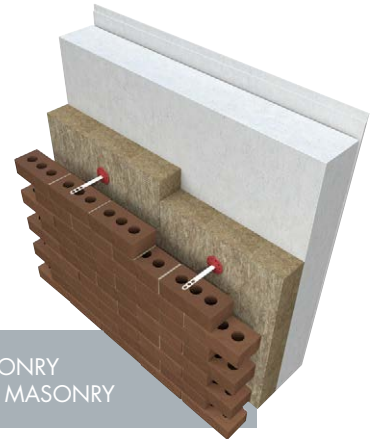
CROSS LAMINATED
TIMBER WITH
DOUBLE LAYERING



REINFORCED
CONCRETE WITH
CLADDING

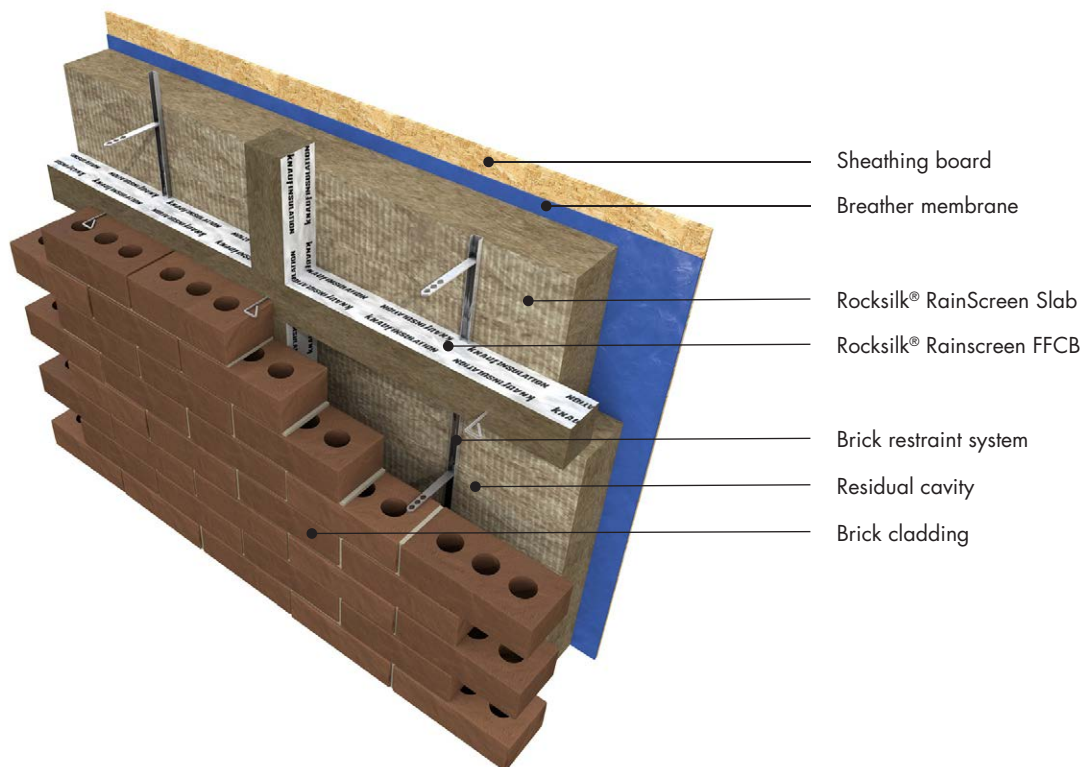


REINFORCED
CONCRETE WITH
MASONRY



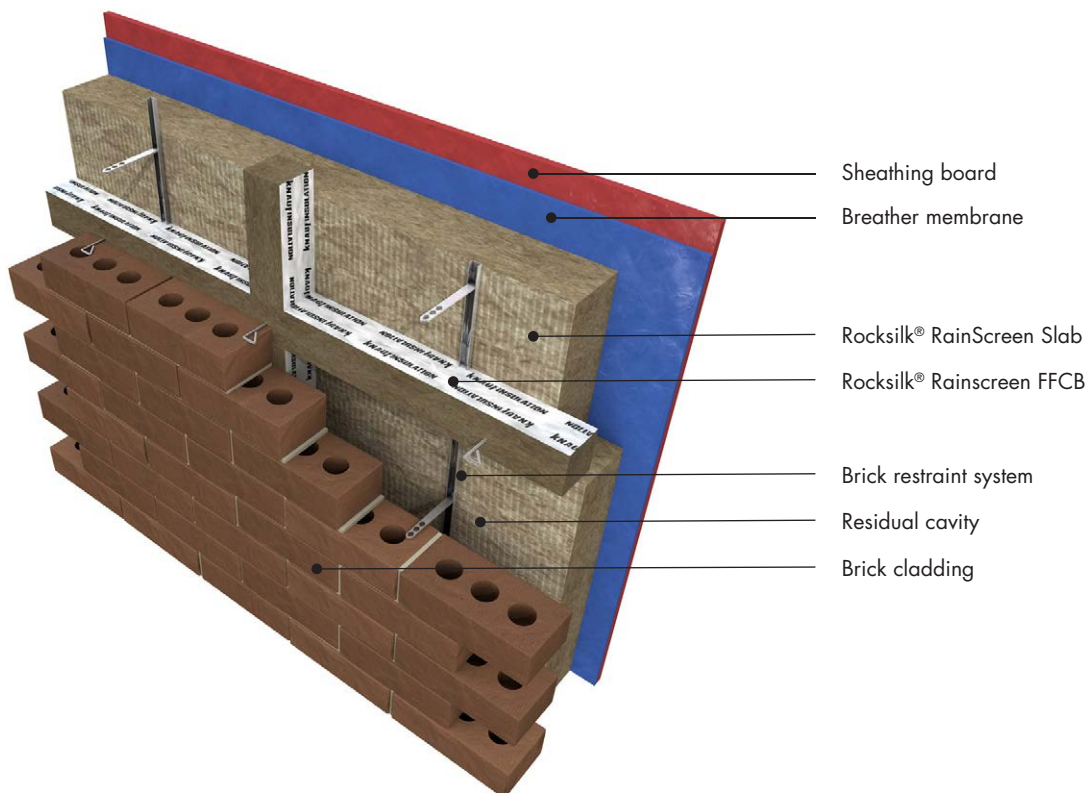
MASONRY
AND MASONRY

TIMBER FRAME



- Sheathing board
- Breather membrane
- Rocksilks® RainScreen Slab
- Rocksilks® Rainscreen FFCB
- Brick restraint system
- Residual cavity
- Brick cladding

STEEL FRAME



- Sheathing board
- Breather membrane
- Rocksilks® RainScreen Slab
- Rocksilks® Rainscreen FFCB
- Brick restraint system
- Residual cavity
- Brick cladding

PERFORMANCE BENEFITS



FIRE SAFETY

Rocksilk® RainScreen Slab is non-combustible, achieving the highest possible Euroclass A1 reaction to fire classification in accordance with BS EN 13501.

The product therefore complies with the 2022 amendments to the Building Regulations 2010 and *Approved Document B: Fire safety Volume 2 – Buildings other than dwelling houses* which limits materials used on relevant buildings to achieve non-combustible class A2-s1,d0 or A1, when tested in accordance with BS EN 13501-1.

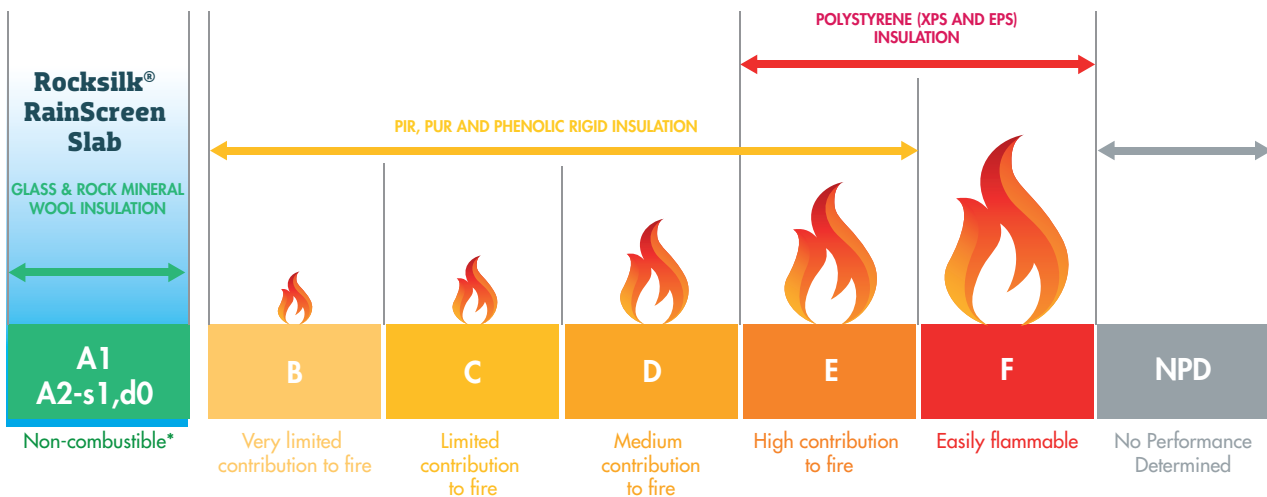
Amended regulation 7(2) applies to residential buildings which now also includes hotels, hostels or boarding houses. Residential buildings above 18m (relevant buildings) must always use A1 or A2-s1,d0 materials while those below 18m can either use A1 or A2-s1,d0 materials or prove compliance by passing a BS8414 test.

Additionally, material changes of use now applies to residential buildings 11m and above purpose group 1 & 2 as well as the 18m and above for 'relevant buildings'

In Scotland, Section 2 of the *Scottish Technical Handbook* puts a restriction on the type of insulation used on buildings over 11m, which must be non-combustible A1 or A2-s1,d0 on buildings which contain a dwelling, a building used as a place of recreation, a hospital, a care building, sheltered housing or a shared multi-occupancy residential building.



EUROCLASS REACTION TO FIRE CLASSIFICATION TABLE



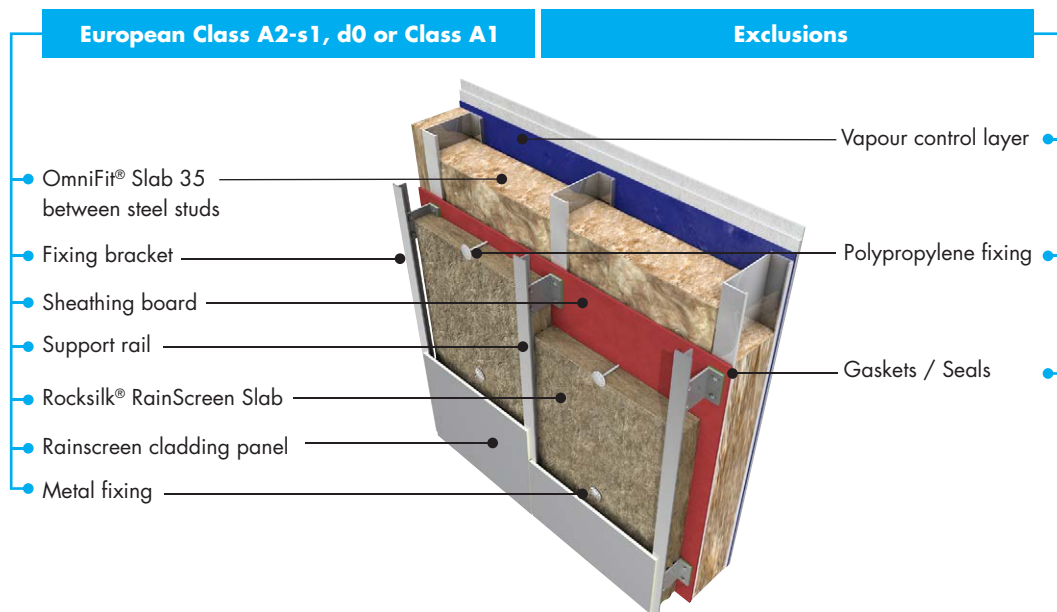
*As set out in changes to the building regulations 2010 which bans the use of combustible materials, limiting the use of materials to those that achieve A1 or A2-s1,d0 on buildings in scope of the ban (as defined in regulation 7(4))

Notes: Other classifications of smoke and flaming droplets within A2 are classed as limited combustibility. (Not shown here as no insulant falls in that category). Flames are illustrative only.

NPD = No Performance Determined. In this instance no performance is declared and information regarding reaction to fire performance is unknown. Illustration for guidance only. It is crucial to check the actual Euroclass reaction to fire classification of a product before use.

Designing and building using A1 non-combustible products offers the greatest confidence in a buildings fire safety. This is because "Euroclass A1 products will not contribute in any stage of the fire including the fully developed fire" - *British Standard BS EN 13501: Fire classification of construction products and building elements.*

COMPONENTS AFFECTED BY APPROVED DOCUMENT B UPDATE

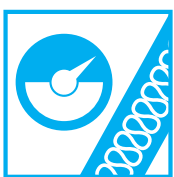


THERMAL PERFORMANCE

Rocksilk® RainScreen Slab is fully CE marked and has a declared thermal conductivity of 0.034W/mK in accordance with BS EN 13162.

The degree of thermal bridging in a rainscreen cladding system significantly influences the U-value, as a result standard methods cannot be used, therefore a complex analysis is required.

Please consult our Technical Support Team for U-value Calculations on **01744 766 666**.



WIND LOADING

Rocksilk® RainScreen Slab has been tested by BRE to *BRE digest 346 The assessment of wind loads – Part 7: Wind speeds for serviceability and fatigue assessments*, withstanding the applied dynamic wind loading at a maximum design pressure of -3600Pa, or 76m/s as calculated to BS EN 1991 without showing signs of damage or distress, maintaining its structural integrity.

The test was designed to focus the integrity of the insulation slab by fixing into the studs of the light steel framed wall structure that formed the substrate.

For fixing patterns and methodology when installing Rocksilk® RainScreen Slab to defined wind load requirements into differing substrates, please refer to fixing manufacturers and/or manufacturers of substrates to ensure adequate performance is achieved.



ACOUSTIC PERFORMANCE

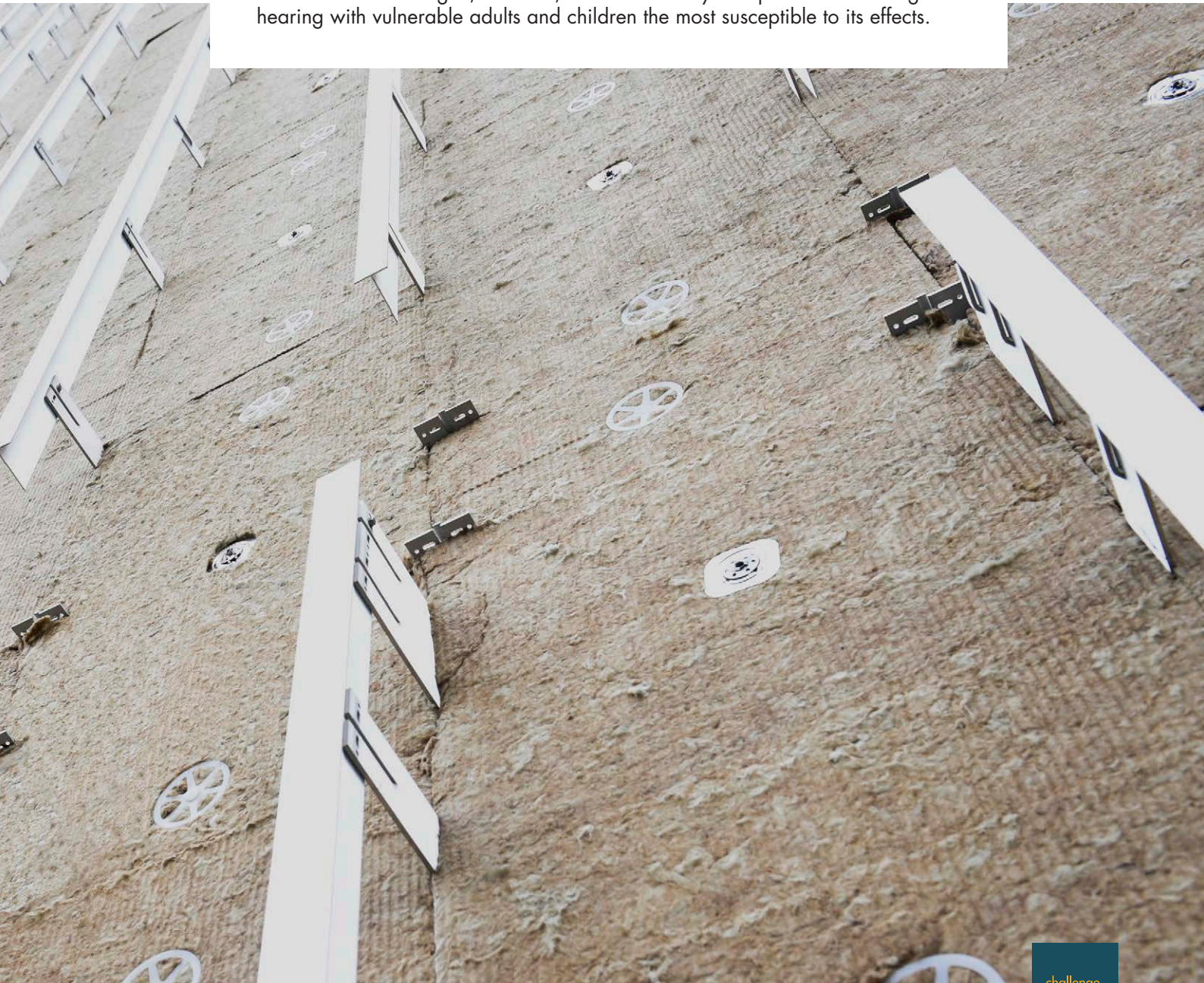
Acoustic performance is becoming an increasingly important consideration when designing a building due to the increase in urbanisation and, as such, the rise in noise levels around populated areas.

Rocksilk® RainScreen Slab has excellent sound absorbance properties, which contribute towards the acoustic performance of the structure onto which it is mounted.

As sound waves hit the insulation, a fraction of them are reflected, transmitted or absorbed. The random orientation of the fibres in Rocksilk® RainScreen Slab allows for a greater number of sound waves to be absorbed, converting part of the energy into heat energy and transmitting part through the fibres, because the sound waves cannot travel using a direct path from surface to surface.

Achieving high levels of acoustic performance is key to delivering a building in which the occupants can enjoy a comfortable environment, whether that be for working, living or enjoying leisure activities.

The effects of noise are many, its intensity depends on the volume of sound. Noise can cause fatigue, irritation, loss of efficiency and permanent damage to hearing with vulnerable adults and children the most susceptible to its effects.

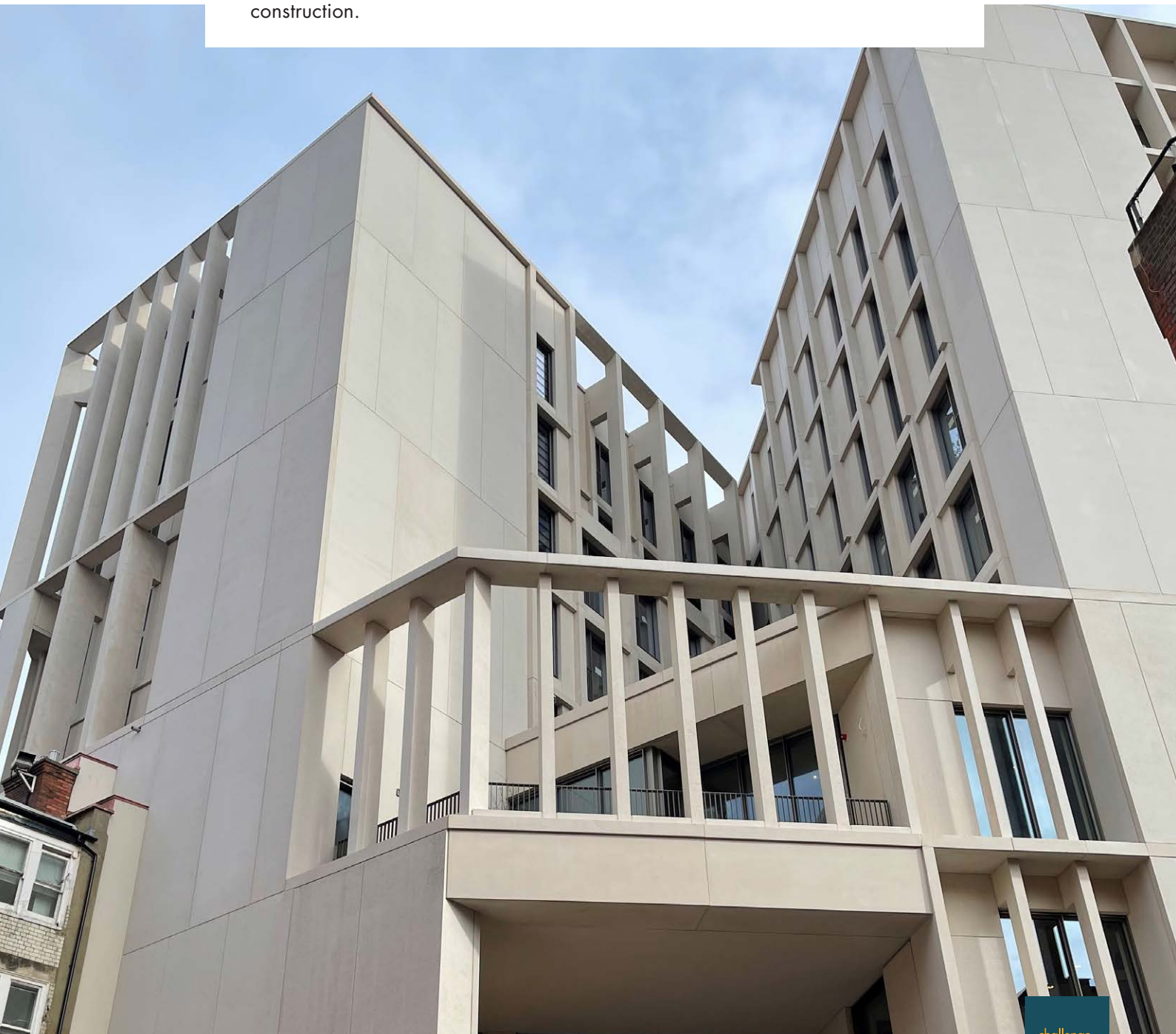


PERFORATED PANELS AND BREATHER MEMBRANES

Rocksilk® RainScreen Slab and Rocksilk® RainScreen Slab BGV may be used behind perforated rainscreen panels and where there are open joints in the cladding. Since Rocksilk® RainScreen Slab is installed directly to the sheathing substrate, it forms a part of the wall structure and therefore any cladding must still act as a weather tight rainscreen system, shielding the wall from direct wind and rain.

If you are considering specifying Rocksilk® RainScreen Slab for use with perforated panels, or where there are open joints in the cladding, please contact our Technical Support Team using the details at the bottom of the page or at knaufinsulation.co.uk/contact-tst.

A breather membrane is a layer within the construction that allows the passage of air and water vapour but is resistant to the passage of liquid water. A breather membrane is often installed in front of, and installed to, the sheathing board to protect the superstructure from moisture ingress on construction.



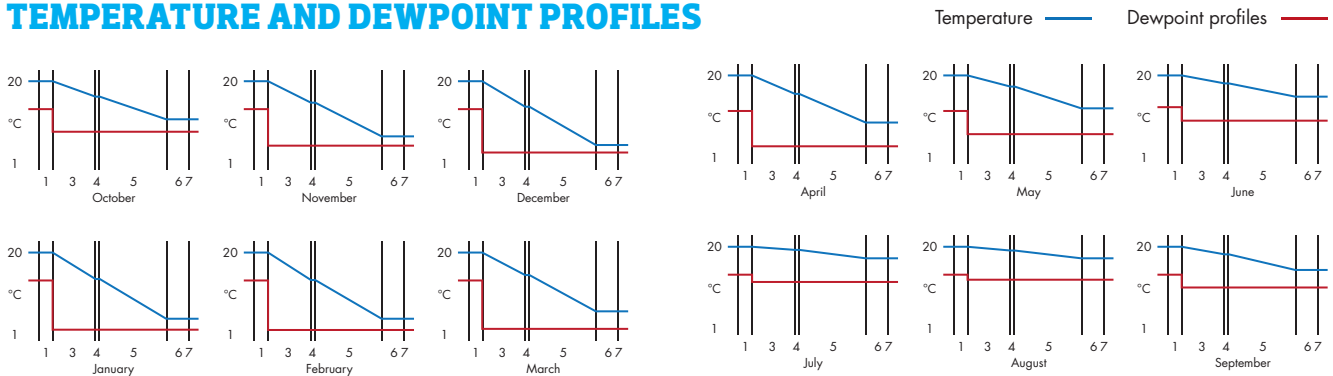
BBA APPROVED

Rocksilk® RainScreen Slab has been assessed by the British Board of Agrément (BBA) under Certificate 19/5609 PS1 for use as a thermal insulation material in rainscreen cladding systems on new and existing timber, steel-frame, reinforced concrete or masonry walls.

Rocksilk® RainScreen Slab has further been assessed by the British Board of Agrément (BBA) under Certificate 19/5609 PS2 for use as a thermal insulation material in masonry clad rainscreen systems on new and existing timber or steel-frame walls.

Rocksilk® RainScreen Slab has further been assessed by the British Board of Agrément (BBA) under Certificate 19/5609 PS3 for use as a thermal insulation material in partially filled masonry cavity walls

TEMPERATURE AND DEWPOINT PROFILES



Description: Rsi, Plasterboard 2 x 15mm, Vapour control layer, OmniFit® Slab 35/LSF, Cement bonded particle board, Rocksilk® RainScreen Slab, Cavity Ventilation, Rainscreen Cladding, Rse

ENVIRONMENTAL

Rocksilk® RainScreen Slab is manufactured with ECOSE® Technology, our unique bio-based binder.

ECOSE® Technology contains no added formaldehyde or phenol. It is made from natural raw materials that are rapidly renewable and is 70% less energy-intensive to manufacture than traditional binders, so it is more environmentally-friendly.

Products made with ECOSE® Technology are soft to touch and easy to handle. They generate low levels of dust and VOCs.

Rocksilk® RainScreen Slabs contain no ozone-depleting substances or greenhouse gases. For further environmental information consult the relevant Environmental Product Declaration, available on our website.

Up to 4 credits can be obtained depending on materials used in conjunction with other BREEAM compliant materials, please visit knaufinsulation.co.uk/breeam-credits for more information on BREEAM credits using rock mineral wool products.

We hold the BES 6001 “very good rating” certification which proves that our products have been made with constituent materials that have been responsibly sourced. It is recognised by the BREEAM family of certification schemes and the Code for Sustainable Homes where credits can be awarded for construction products independently certified through BES 6001.

WORKABILITY

Rocksilk® RainScreen Slab has been designed for ease of handling and compatibility with a wide range of cladding systems. The design of the product provides flexibility whilst allowing for minor imperfections in the surface of the substrate, yet maintaining the required rigidity that allows for minimal fixings.

INTERSTITIAL CONDENSATION

Rocksilk® RainScreen Slab can aid with the prevention of interstitial condensation due to its low vapour resistivity. Our Technical Support Team can provide condensation analyses for various construction types in accordance with BS 5250:2011 +A1:2016 and BS EN ISO 13788:2012.





WEATHER RESISTANCE

Rocksilk® RainScreen Slab is produced using a water repellent additive to improve its ability to resist water uptake.

Coupled with a fibre matrix that promotes the run off of water, this ensures that the slab will resist moisture ingress whilst maintaining its vapour permeability.

Should Rocksilk® RainScreen Slab be exposed to very high levels of moisture or wetting it will dry out; the rate of drying is dependent on ventilation, air movement and temperature difference. In a ventilated construction such as rainscreen cladding, the rate of drying will be high in winter because there will be a relatively steep thermal gradient from inside to out and in summer because of natural convection and ventilation through the rainscreen system.

The physical characteristics of the fibres are unaltered by wetting. Therefore, the thermal properties of Rocksilk® RainScreen Slab are not affected by exposure to moisture and the product will perform as expected once it has dried out.

EXPOSURE TO THE ELEMENTS

Rocksilk® RainScreen Slabs should be covered up with the cladding as work proceeds on the basis of an advancing front. However, due to variances in climate, season, orientation and geographical location it is not possible to state a definitive timescale to exposure.

MASONRY CAVITY BARRIERS

WHAT ARE MASONRY CAVITY BARRIERS?

According to Approved Document B, a “cavity fire barrier” is a construction, other than a smoke curtain, provided to close a concealed space against penetration of smoke or flame, or restrict the movement of smoke or flame within such a space.

“cavity fire barriers” create a complete seal between different areas of a building and, without them, fire and smoke can spread up to ten times faster.

Cavity barriers help to ‘compartmentalise’ a building, particularly in party walls or between floors in blocks of flats or multi-occupancy buildings.

REQUIREMENTS

Building Regulations Requirement

The Building Regulations 2018 (England) and The Building (Wales) Regulations 2019 extended the definition of an External Wall to clarify that this now includes “any decorative or other finish applied to an external wall.”

Cavity barriers are covered by functional requirement in;

- England and Wales; Approved Document B requirement B3(4) of the Building Regulations
- Scotland; Building Standards Technical Handbook (2.4.1)
- Northern Ireland; Technical Booklet E (4.36)
- Republic of Ireland; Technical Guidance Document B (3)

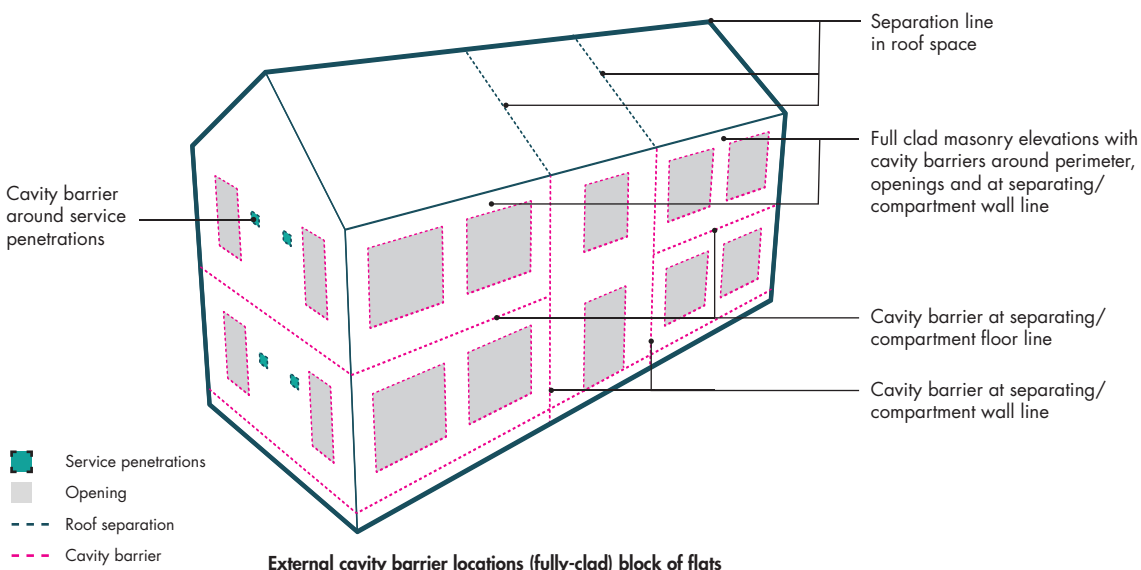
In each case the designer should consult the latest or applicable version of the above documents in order to determine the correct placement and minimum performance requirement stipulated in the relevant region.

NHBC Warranty Requirements

Cavity barriers in external masonry walls shall be provided:

- at the edges of cavities, including around openings e.g. window and doors;
- where the cavity abuts compartment walls and floors;
- where to break up extensive cavities which could act as a route for fire spread.

Cavity barriers need to achieve a minimum of 30 minute fire resistance E30 and I15



CONSTRUCTIONS

Rocksilk® RainScreen FFCB is a cavity barrier made from rock mineral wool, designed to form part of a certified system that is face-fixed to Rocksilk® RainScreen Slab. It is non-combustible with the best possible Euroclass A1 reaction to fire classification, and is manufactured using Knauf Insulation's unique bio-based binder, ECOSE® Technology. The system provides up to 90 minutes insulation and integrity (EI90) in the residual cavities of buildings with masonry façades.

Rocksilk® RainScreen FFCB can be used on constructions with a masonry façade and either a steel frame, timber frame or masonry inner leaf.

Use with Rocksilk® RainScreen Slab

Rocksilk® RainScreen FFCB has been tested solely and in conjunction with Rocksilk® RainScreen Slab. In this system the Rocksilk® RainScreen Slab forms a part of the cavity barrier system and so the Rocksilk® RainScreen FFCB can not be used with any other type of sheathing insulation.

Table of performance

Since the Rocksilk® RainScreen FFCB is designed to sit within the cavity only, fewer dimensions of barriers are required.

| Dimension (mm) | Cavity Width (mm) | Performance |
|----------------|-------------------|-------------|
| 52x100x1200 | 50 | E90/I30 |
| 52x200x1200 | 50 | EI90 |
| 102x200x1200 | 100 | EI90 |

CAVITY TRAYS

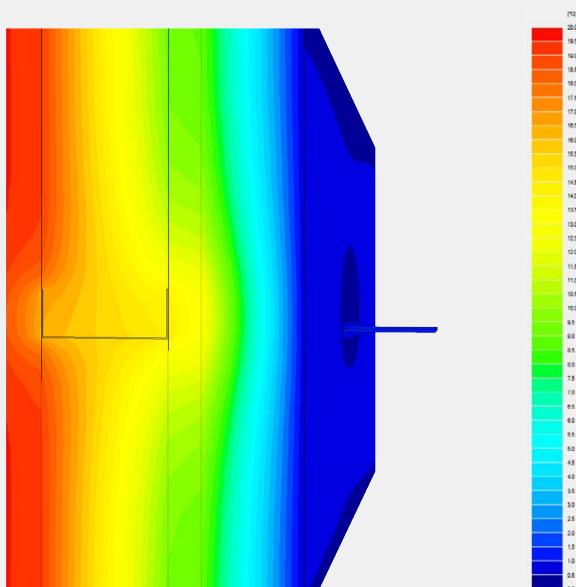
Rocksilk® RainScreen FFCB does not negate the need for cavity trays. Cavity trays should be positioned above the barrier to stop moisture from pooling on top of the foil face.

BRICK TIE CHANNELS / SLAB EDGE

Brick tie channels should not run behind the Rocksilk® RainScreen FFCB, as a neat seal between the barrier and Rocksilk® RainScreen Slab is critical to achieve the stated periods of fire resistance.

It is also imperative to ensure than other ancillary items situated around the slab edge areas do not penetrate the barrier.

U-VALUE CALCULATIONS



We offer free three dimensional (3D) finite element heat loss calculations to comply with Building Regulations.

The software gives us the ability to calculate two and three dimensional heat flows through construction elements resulting in exact thickness recommendations in order to meet specific U-value requirements.

The calculations are carried out in accordance with building regulations, using a finite element analysis computer program, which is fully compatible with *BS EN ISO 10211:2017 - Thermal bridging in building construction - heat flows and surface temperatures Part 1*.

U-VALUE CALCULATIONS USING 3D MODELLING SOFTWARE

There are several options for calculating U-values in rainscreen applications. If these are only marginally inaccurate it can have a significant effect on the overall U-value of a wall and therefore the thermal performance of an overall building. The most accurate method of calculating U-values is using a 3D calculation as offered by our Technical Support Team.

BR443 Conventions for U-value Calculations (section 4.9.5) make specific mention to the correct calculation of U-values for rainscreen cladding systems. Designers should take care and consider the best approach in each situation to ensure that as-built performance is optimised by using a suitable method. Fixing point loss corrections for brackets and rails or top hats etc... are unique to each through wall build-up and should take into account calculations to allow for both point (CHI) and Linear (Psi) thermal losses where applicable by calculating to BS EN 10211. Our Technical Support Team can provide calculations to BS EN 10211 and help to ensure that due diligence has been taken when calculating U-values in rainscreen cladding systems.



For any U-value Calculations for alternative construction build-ups, please contact our Technical Support Team on 01744 766 666.

For written U-value Calculations, please email details of your full through construction build-up to technical.uk@knaufinsulation.com and we will respond accordingly to meet your requirements.

We are a fully accredited member of the industry leading British Board of Agrément (BBA) U-value and Condensation Calculation Competency Scheme which promotes and assists accurate, objective and consistent calculations of U-values and condensation calculations within the UK construction industry. As part of our ongoing participation in the scheme, we are required to maintain written records for audit trail purposes.

Our online U-value calculator can assist with giving you indicative U-value calculations for a range of applications and build-ups. With the functionality to build your own or start by looking at typical solutions, we can provide you with recommended products and build-ups to meet your requirements. Our calculator follows the methodology of BRE calculations, in accordance with BS EN ISO 6946 and conventions given in BR443.

knaufinsulation.co.uk/uvalue-calculator

SUPPORTING INFORMATION

MECHANICAL DAMAGE

If mineral wool insulation is subject to mechanical damage, where the overall physical dimensions of the product are changed, then the thermal performance of the product may be altered. If the product thickness is reduced then the thermal resistance will be reduced proportionally to the reduction in thickness.

If the product is damaged at edges and corners so that the slabs are no longer able to be tightly butted up to each other (with all joints closed), then the thermal performance of the system will be affected due to increased heat loss in these areas. This sort of physical damage could occur due to exposure to very high winds and resulting suction forces or transportation of debris, water jetting or high water flow rates typically from a gutter or an unintended drainage point. This sort of physical alteration could occur in all thermal insulation products under such conditions.

It is good practice to examine the insulation prior to installation of the rainscreen cladding, particularly if any product has been left exposed. This can be done by inspection in order to ensure that no damage has occurred in the time between the installation of the insulation and the weatherproof cladding. After extreme weather events, it is recommended that all materials making up the system should be inspected.

EXPERIENCED INSTALLERS

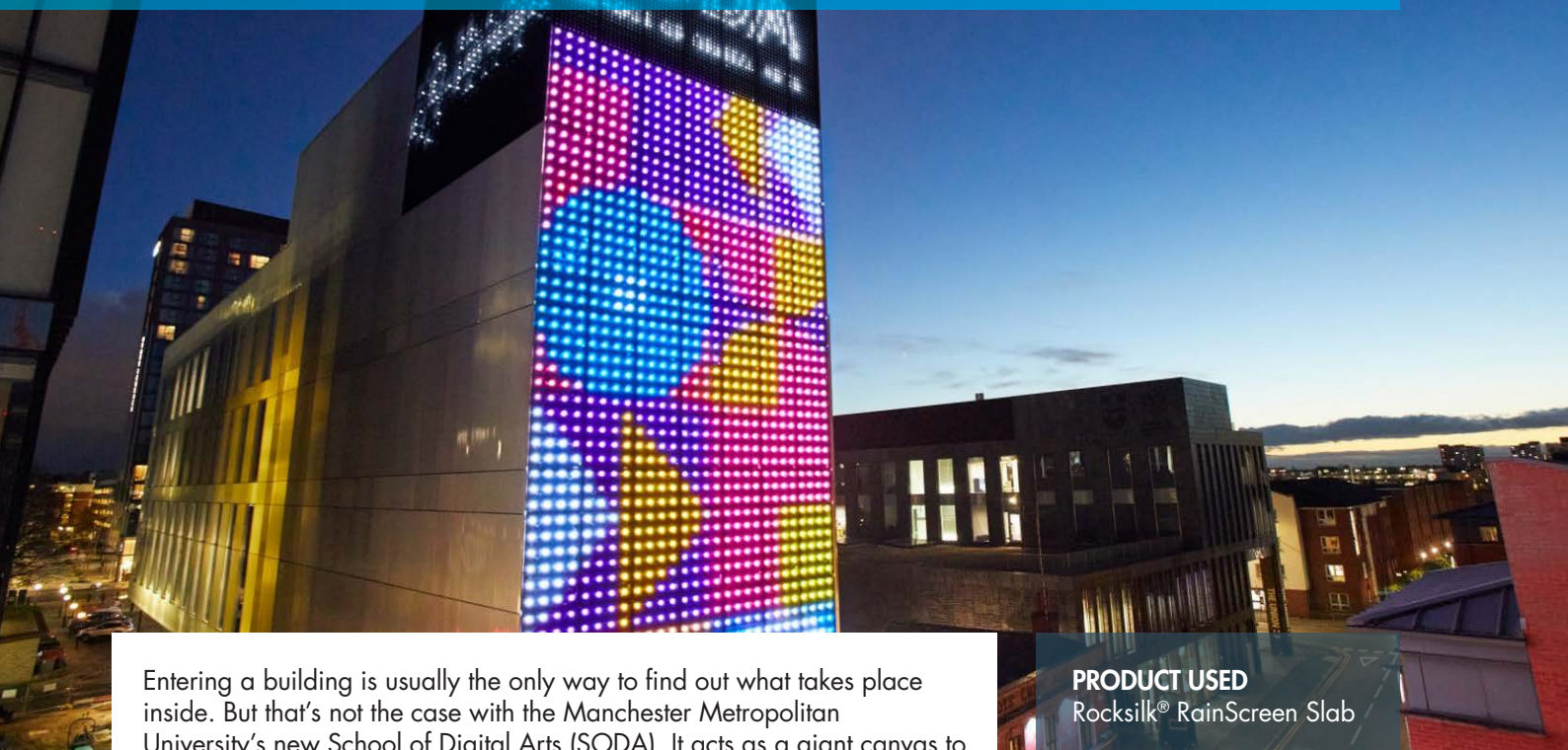
There is no formal British or European test method demonstrating a particular class of weather resistance of a rainscreen product. It is therefore valid for the installer to refer to his own experience of installing products in conjunction with the system manufacturer's recommended build sequence for the system under construction or consideration. A suitable way forward is to check the physical condition of the insulation immediately prior to the installation of the rainscreen cladding and undertake any necessary repairs.

PACKAGING

Individual packs of Rocksilk® RainScreen Slab are compression-packed together to form a durable, weatherproof, recyclable unit that eliminates the need for internal storage and allows ease of transportation and delivery. Once the pallet is split, the packs should be stored off the ground and under cover to protect them from the elements.



SCHOOL OF DIGITAL ARTS, MANCHESTER METROPOLITAN UNIVERSITY CASE STUDY



Entering a building is usually the only way to find out what takes place inside. But that's not the case with the Manchester Metropolitan University's new School of Digital Arts (SODA). It acts as a giant canvas to illuminate digital content produced by students, thanks to an LED rainscreen façade on its northern face.

The five-storey, 5,200m² SODA building is adjacent to the Manchester School of Art and will provide space for a digital innovation and User Experience (UX) lab, film studios, green screens, edit suites, sound, music and production studios; alongside a screening room and gallery space.

Like all rainscreen façade projects, the SODA building needed insulation to meet the required thermal, fire safety and acoustic performance, but the LED façade added complexity to the specification. The chosen rainscreen panels were perforated with small holes to allow the lights to shine through – but this also meant the insulation could be seen from certain angles, so the insulation needed to look aesthetically pleasing too.

During the design process, architects Feilden Clegg Bradley Studios had specified Knauf Insulation's Rocksilk® RainScreen Slab for the project. It is non-combustible with a Euroclass A1 reaction to fire classification, so complies with building regulations that ban combustible insulation on certain buildings over 18m tall in England and Wales.

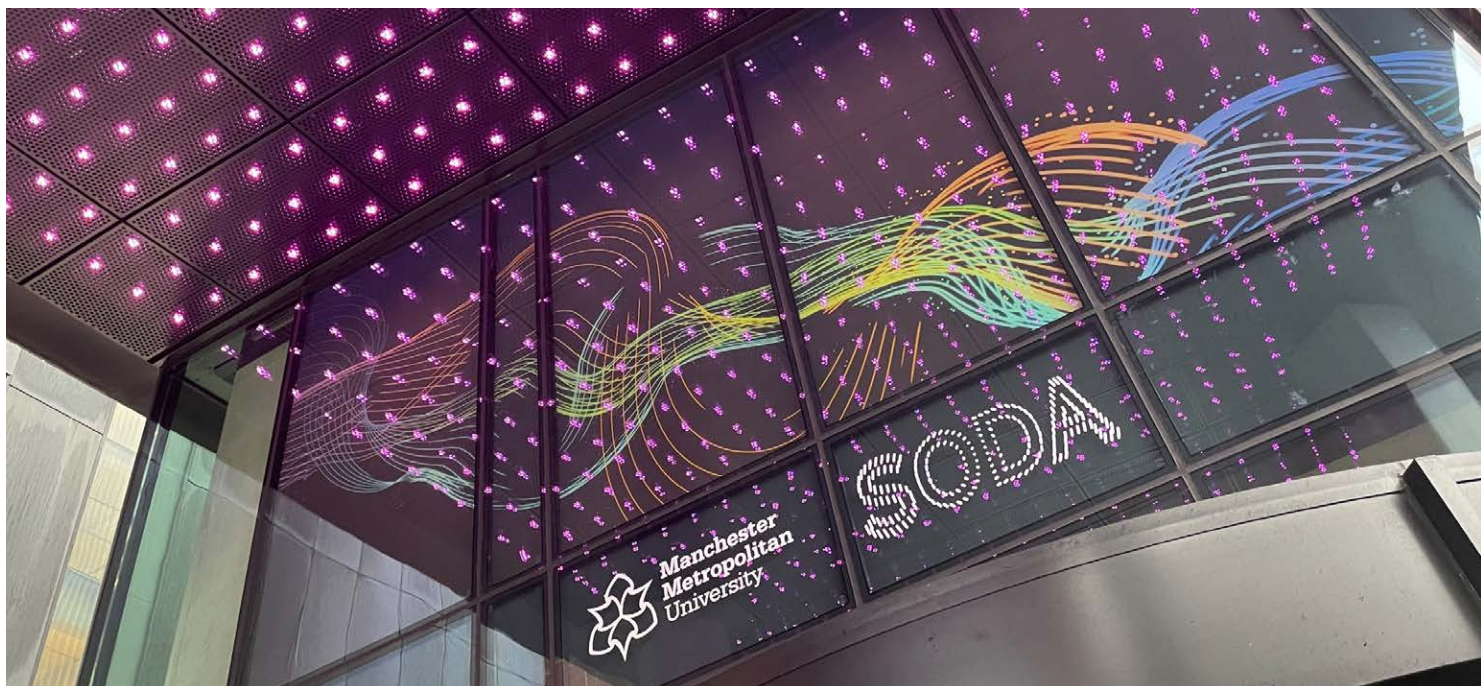
Rocksilk® RainScreen Slab also has a thermal conductivity of 0.034 W/mK so could meet the U-value of 0.19 Wm²K. And thanks to its sound absorption characteristics, critical for low mass rainscreen structures, it will help create a quieter space for the students.

PRODUCT USED
Rocksilk® RainScreen Slab

PROJECT
School of Digital Arts

CLIENT
Manchester Metropolitan University

MAIN CONTRACTOR
Kier Construction



The principal contractor Kier Construction had tasked specialist façade contractors Maple Sunscreening with determining the required thickness and aesthetics. So they contacted Knauf Insulation to discuss the best solution.

Knauf Insulation's Technical Support Team undertook 3D U-value calculations and confirmed that a 150mm slab should be used for the project.

What's more, Rocksilk® RainScreen Slab is manufactured with ECOSE® Technology, Knauf Insulation's unique bio-based binder that contains no added formaldehyde or phenol. This gives Knauf Insulation's mineral wool its unique brown colour, so the insulation won't stand out behind the perforated rainscreen panels.

It also makes it soft to touch, easy to handle and generates low levels of dust and VOCs. As a result, products made with ECOSE® Technology have been awarded the Eurofins Gold Certificate for Indoor Air Comfort.

Rocksilk® RainScreen Slab is designed to be easy to install correctly. Slabs are robust which makes them easy to manoeuvre into place. Once in position, they butt tightly together and adapt to any imperfections in the substrate. This prevents unintended air gaps that can compromise thermal, fire safety or acoustic performance.

Using Rocksilk® RainScreen Slab was the optimal solution for the SODA building providing both the high thermal, fire safety and acoustic performance demanded of modern buildings. And thanks to its unique brown colour, the mineral wool insulation won't be a distraction, instead acting as the perfect backdrop for the dazzling LED light displays created by the students.



OAK CANCER CENTRE, ROYAL MARSDEN HOSPITAL CASE STUDY

The Oak Cancer Centre at The Royal Marsden's Sutton site is a state-of-the-art research and treatment facility, designed to bring the hospital's 400-strong research team and its clinical care facility together under one roof.

Specialist brickwork contractors, Lesterose Builders, were appointed by main contractor ISG to design and build the 2,800m² masonry façade. As a result, they were responsible for ensuring the façade complied with the relevant thermal and fire safety regulations.

The time and cost challenge

The architect's specification named a rock mineral wool product, but when Sam O'Keefe, Commercial Manager at Lesterose Builders, tried to place the order, there were two problems. He explained: "The first issue was availability – there was an eight to ten week lead time due to materials shortages. And the second issue was cost. We discovered the original insulation manufacturer had two planned price increases, and the extended lead time and phased delivery schedule meant that the Oak Cancer Centre project would be hit by both."

These two issues would not only delay the build, but would push it significantly over budget. So Lesterose Builders needed another insulation solution.

Meeting the specification

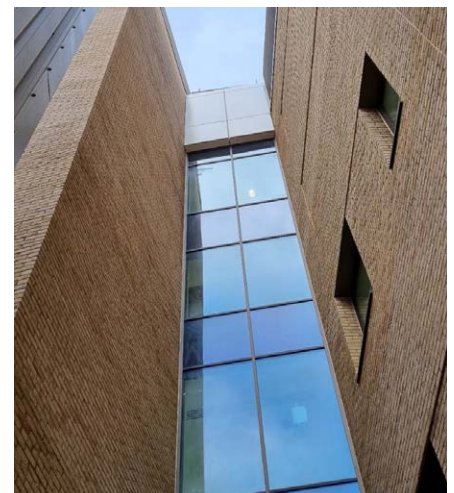
Lesterose Builders turned to Knauf Insulation, a fellow member of the Association of Brickwork Contractors (ABC). Knauf Insulation's sales team looked at the specification and was able to offer an equivalent – 200mm Rocksilk® RainScreen Slab.

PRODUCT USED
Rocksilk® RainScreen Slab

PROJECT
Oak Cancer Centre

CLIENT
Royal Marsden Hospital

MAIN CONTRACTOR
ISG Ltd



Rocksilk® RainScreen Slab is a rock mineral wool insulation product with a thermal conductivity of just 0.034W/mK, which meant it would meet the U-value of 0.21W/m²K. It is also non-combustible with Euroclass A1 reaction to fire classification, which means it will not contribute to the development or spread of fire should it occur. It is British Board of Agrément (BBA) certified for masonry façades at any height as well as for the broadest range of build-ups of any rainscreen solution on the market.

This meant Rocksilk® RainScreen Slab was suitable for use in the Oak Cancer Centre because it complies with building regulations that ban the use of combustible materials in the walls of relevant buildings over 18m tall. In addition to fire safety and thermal performance, Rocksilk® RainScreen Slab offers excellent sound reduction characteristics.

Crucially, Knauf Insulation was able to meet both the schedule and cost parameters for the project.

“Once we had confirmation that Knauf Insulation could match the specification and deliver to the planned timescales and budget, it was then a case of getting the architect’s approval. This went extremely smoothly. We just made a technical submittal with the datasheets and environmental product declaration (EPD) and Rocksilk® RainScreen Slab was approved for use without any queries.”

Ease of installation

The seven-full loads of insulation were purchased through Parker Building Supplies. These were delivered to the site in eight phases in line with the schedule of works.

The product is designed to be easy to install correctly. Superior robustness and durability mean it can be manoeuvred easily into place. And unlike some competitor products, it can be installed with either face of the slab against the substrate, speeding up installation and preventing incorrect installation.

Furthermore, the natural flexibility of rock mineral wool means it adapts to minor imperfections in the substrate, while slabs knit together when tightly butted, eliminating air leakage that could reduce thermal and acoustic performance.

Rocksilk® RainScreen Slab is also manufactured with ECOSE® Technology, Knauf Insulation’s unique bio-based binder that contains no added formaldehyde or phenol. It is made from natural raw materials that are rapidly renewable, and is 70% less energy-intensive to manufacture than traditional binders, so it is more environmentally friendly.

Products made with ECOSE® Technology generate low levels of dust and VOCs (volatile organic compounds) and have been awarded Eurofins Indoor Air Comfort (Gold) certification.

Construction work is known for its challenges, particularly around budgets and schedules – but thanks to Knauf Insulation’s Rocksilk® RainScreen Slab, Lesterose Builders was able to overcome both these issues and meet the required specification factors for the Oak Cancer Centre.



CONTACTS

Specification Team

knaufinsulation.co.uk/findmyrep

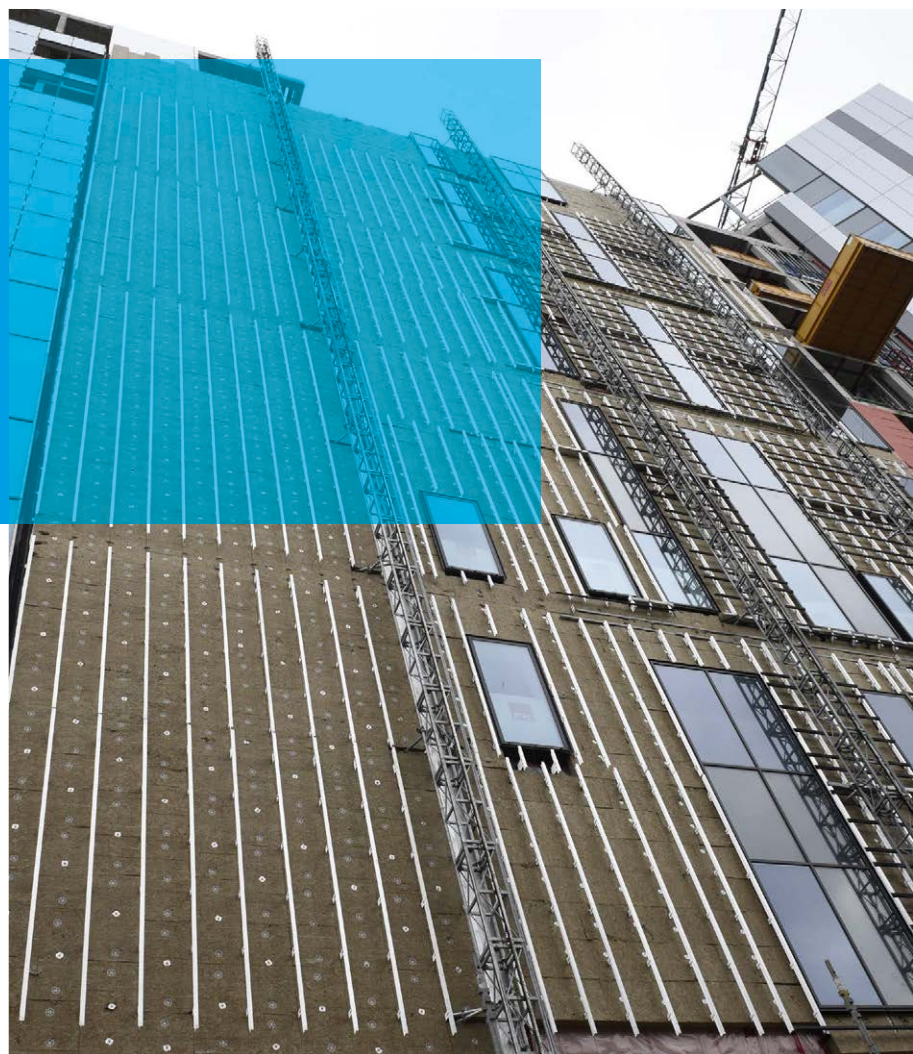
Technical Support Team

01744 766 666

technical.uk@knaufinsulation.com

For more information please visit

knaufinsulation.co.uk/rainscreen-solutions



Knauf Insulation Ltd PO Box 10, Stafford Road, St.Helens, Merseyside, WA10 3NS. UK

For more information please visit knaufinsulation.co.uk/rainscreen-solutions

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