

Product Solutions for Park & Leisure Homes



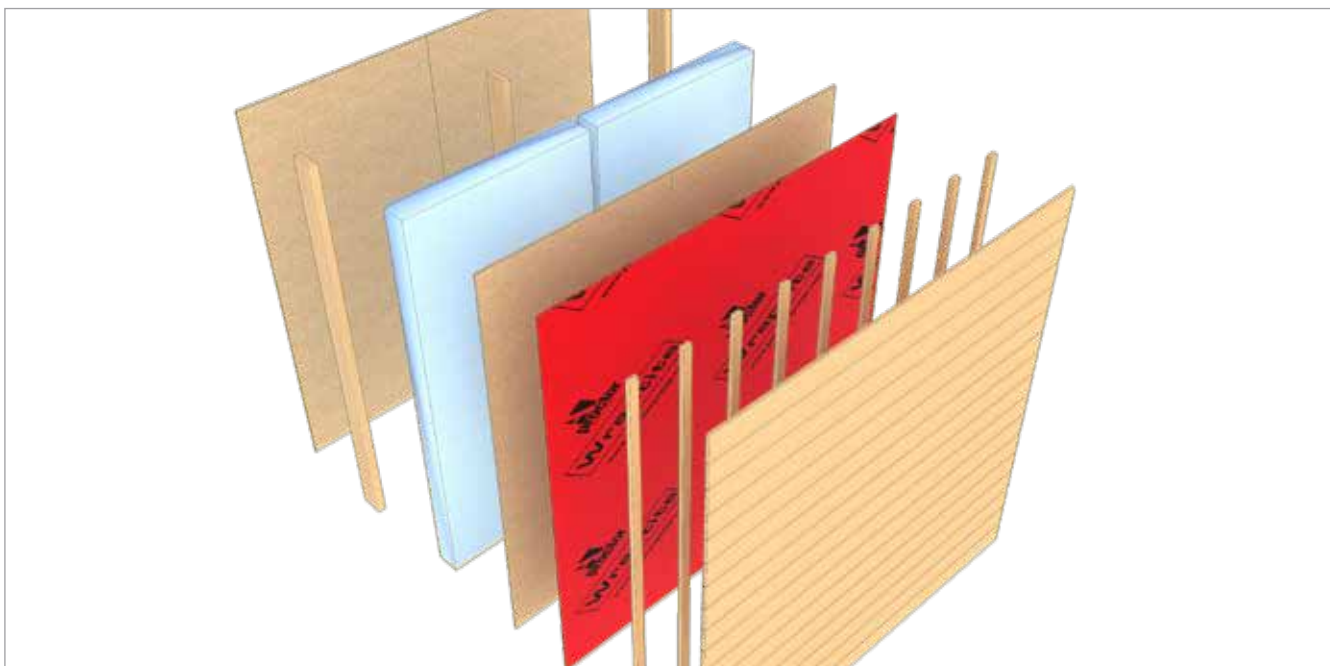
We have been providing solutions and innovative products to the construction industry for over 50 years. We have been developing vapour permeable membranes, vapour control layers and airtight membranes for over 25 years. We provide an extensive range of superior high-performance products suitable for Park and Leisure homes and off-site construction. All our products are designed and manufactured to meet the highest quality standards and specifications.

We are dedicated in our approach to helping you to achieve best practice, effective and reliable solutions to meet your specific construction method requirements in line with building regulations and energy efficiency. Our team of highly experienced industry professionals and technical team is on hand to advise you and support you from design throughout the construction process.

Our range of products include unique off-site solutions for the following sectors:

- Park and leisure homes
- Private and social/affordable housing
- Purpose built student accommodation
- Self-build projects
- Education and home office buildings





INTRODUCTION

For any building to have an energy efficient, healthy, moisture free building envelope there is a clear requirement to manage the balance of Heat, Air and Moisture movement throughout the process of the building's life cycle from design, construction, completion and use.

Understanding the importance of these key elements upon the building envelope is crucial to the successful construction and operation of a building. Architects, designers, and off-site construction manufacturers must seek to understand the science behind buildings, managing the external and internal forces, which impact on the quality of the completed building, its performance in use, as well as the health of its occupants and the wider environment.

Our portfolio of specialist vapour and airtight membranes, combined with extensive technical expertise, ensure that the correct balance of Heat, Air & Moisture Movement is achieved via the building envelope. Our patented externally applied, self adhered airtight membrane system, Wraptite®, offers manufacturers and designers of modular and off-site buildings the ability to reliably and comfortably exceed current airtightness requirements.

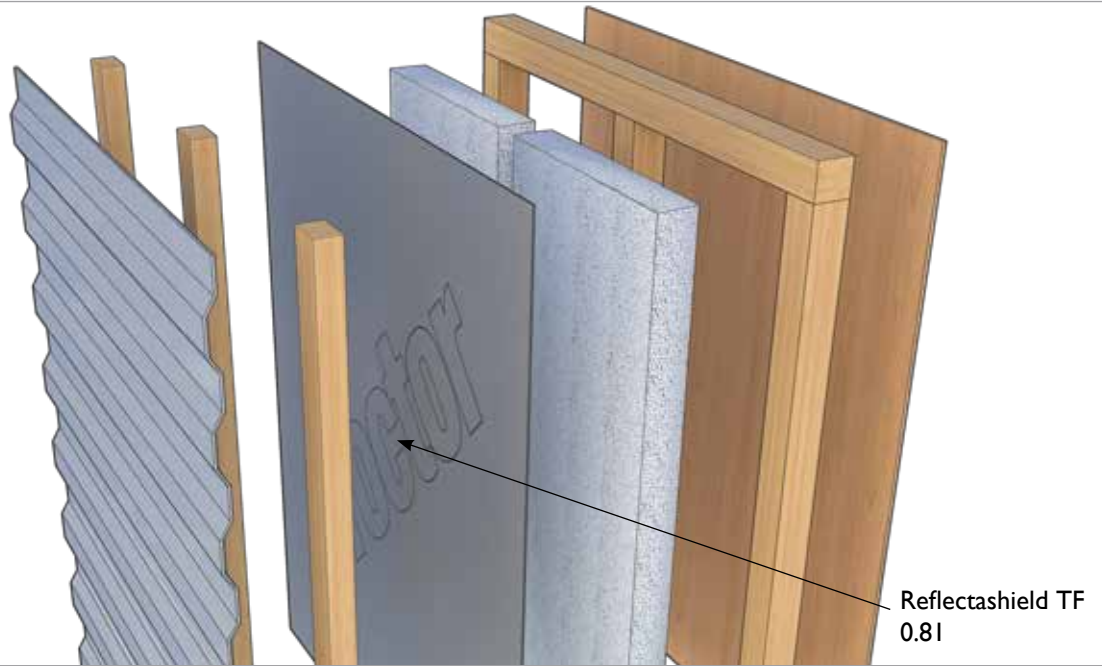
Our products are backed up by a dedicated team of technical experts, able to assist at every project stage from pre-planning to on site. We offer CAD detail reviews, installation guidance, condensation risk analysis, WUFI calculations, U-Value calculations, ground gas system designs, telephone support & more. Our products also have a range of BIM Objects & Performance Specifications.

High-performance product solutions

Wraptite®
 Fireshield®
 Roofshield®
 Facadeshield® UV
 Procheck® Adapt
 Frameshield 100
 Frameshield Plus 100
 Reflectashield TF 0.81
 Reflectatherm Plus
 Reflectatherm Premier

Technical services

CAD detail reviews
 Installation guidance
 Condensation risk analysis
 WUFI Assessment
 U-Value Calculation
 BIM Objects and performance specifications
 Project support and advice



REFLECTASHIELD TF 0.81



Reflectashield TF 0.81 is a water resistant, non-woven polypropylene foil faced laminate with a unique patented three layer composition, providing excellent breathability, as well as secondary protection to the building during construction. Reflectashield TF 0.81 is vapour permeable, has low emissivity and an enhanced foil surface designed to improve the thermal resistance of timber and steel frame structures. It has a high strength to weight ratio. The product is installed on the external face of the timber frame, foil side face out, similar to that of a traditional breather membrane but with added thermal benefits.

Reflectashield TF 0.81 complies with the low vapour resistance requirements set out by BS 4016, TRADA and the NHBC. The existing legislation requires a breather membrane in walls to have a vapour resistance not greater than 0.60 MNs/g. Reflectashield TF 0.81 has a vapour resistance of 0.41 MNs/g.

We can provide a range of solutions, with U-value calculations and condensation risk analysis to meet individual customer construction wall and roof designs.

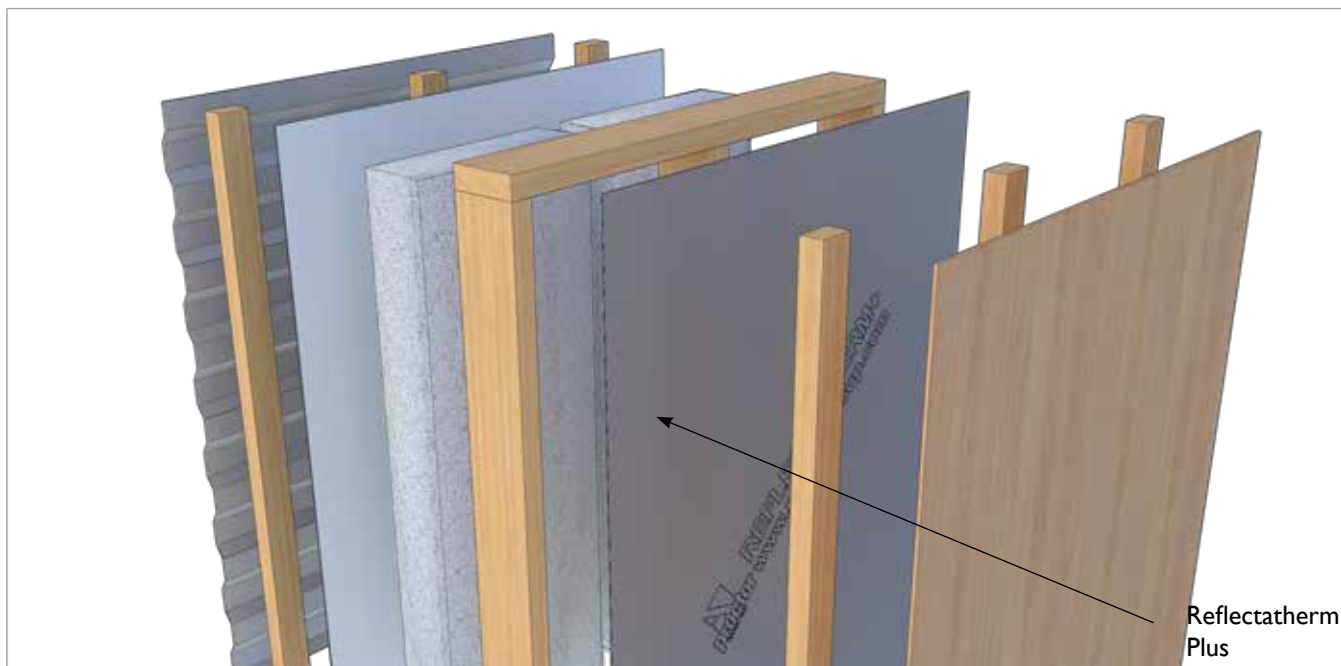
PHYSICAL PROPERTIES

Property	Test Method	Mean Results
Roll Sizes	n/a	1.45m x 50m 2.7m x 100m 2.9m x 100m
Mass per unit area	EN 1849-2	134g/m ²
Reaction to Fire	EN 11925-2	Class E
Water vapour resistance Sd	EN 1931	0.083 m
Water penetration	EN 1928	Class W2 (Before and After ageing)
Thermal performance (R)	BS EN ISO 8990:1996	0.81 m ² K/W
Emissivity	BS EN 15976:2011	0.05

Key Benefits

- Ensures breathability of building envelope
- Protects structure during construction
- Class leading thermal performance reducing insulation requirements
- Maximises emissivity whilst providing robustness
- Can be 'own' branded for client
- 3rd party approved for use behind ventilated façades
- UK manufactured
- Achieves R-value of 0.81 m²K/W when facing ≥19mm cavity





REFLECTATHERM PLUS

Reflectatherm Plus is a reflective, high resistance vapour barrier for internal walls, ceilings and floors, specifically designed to improve the thermal performance and airtightness when placed on the warm side of the insulation.

The membrane should be installed with the foil side facing the cavity. In ceilings the product is placed between the underside of the rafters and the ceiling lining. Adjacent sheets should be lapped by 150mm and sealed with Reflectafoil Tape. Penetrations caused by services must be minimised to ensure effectiveness, and all joints need to be sealed.

Reflectatherm Plus will help meet the requirements of the new 'Part L' in England and Wales and 'Section 6' in Scotland.

PHYSICAL PROPERTIES

Property	Test Method	Mean Results
Roll Size	n/a	1.5m x 50m 2.7m x 100m 3m x 100m
Mass per unit area	EN 1849-2	150g/m ²
Reaction to Fire	EN 11925-2	Class E*
Water vapour resistance Sd	EN 1931	150m
Vapour resistance	EN 1931	750 MN/sg
Water penetration	EN 1928	Class W1 (Before and After ageing)
Tensile strength	EN 12311-2	MD 255 N/50mm CD 200 N/50mm
Elongation	EN 12311-1	MD 59% CD 70%
Thermal Performance		
Vertical air cavity - horizontal heat flow	BS EN ISO 8990:1996	0.78 (m ² K)/W
45 degree air cavity - upward heat flow	BS EN ISO 8990:1996	0.61 (m ² K)/W
Horizontal air cavity - upward heat flow	BS EN ISO 8990:1996	0.58 (m ² K)/W
Horizontal air cavity - downward heat flow	BS EN ISO 6946 Annex B	1.41 (m ² K)/W
Emissivity	BS EN 15976:2011	0.04

Key Benefits

- Low emissivity
- Reduces condensation risk within the building envelope
- Certified highest performing reflective VCL
- Can be 'own' branded for client
- Improves airtightness
- UK manufactured

*When tested to EN 11925-2 over a rock wool substrate



REFLECTATHERM PREMIER

Reflectatherm Premier is a reflective vapour control layer with integrated tape for ease of installation. Reflectatherm Premier is for internal walls, ceilings and floors, specifically designed to enhance the thermal performance when placed on the warm side of the insulation. The integrated tape, which is a key feature of Reflectatherm Premier, ensures an efficient, consistent, continuous and well sealed membrane to protect the structure from vapour and air movement. The quick and efficient installation, utilising the integrated tape, reduces time and labour on site as well as increasing the quality of the joints in the membrane.

PHYSICAL PROPERTIES

Property	Test Method	Mean Results
Roll Size	n/a	1.5m x 50m
Base Membrane		
Mass per unit area	EN 1849-2	150g/m ²
Reaction to Fire	EN 11925-2	Class E*
Water vapour resistance Sd	EN 1931	150m
Vapour resistance	EN 1931	750 MN/sg
Water penetration	EN 1928	Class W1 (Before and After ageing)
Tensile strength	EN 12311-2	MD 255 N/50mm CD 200 N/50mm
Elongation	EN 12311-1	MD 59% CD 70%
Tear resistance	EN 12310-1	MD 164 N CD 157 N
Flexibility at low temperature	EN 1109	No cracking at temperature minus 40°C
Emissivity	BS EN 15976:2011	0.04
Vertical air cavity - horizontal heat flow	BS EN ISO 8990:1996	0.78 (m ² K)/W
Tape		
Adhesive	UV stabilised pressure sensitive	
Release Liner	60mm wide PET film	
Width of adhesive coating	50mm	
Installation Temperature Range	1°C to 85°C	
Bonded Product Temperature Range	-30°C to +85°C	

*When tested to EN 11925-2 over a rock wool substrate

Key Benefits

- **Integrated Tape** reduces the requirement for additional tapes on site.
- **Faster installation** than using separate tapes.
- **Reduction in labour and time costs.**
- **Improved adhesive bond** between membrane and Integrated Tape.
- **Improved Vapour Resistance** due to Integrated Tape.
- **R value of 0.78 m²K/W** when used with a minimum 19mm service cavity.
- **High vapour resistance.**
- **Improved airtightness.**
- **Creates service void.**
- **Creates an unbroken vapour control layer.**
- **Sd Value of 150m.**
- **Vapour Resistance 750 MNs/g.**
- **Help meets the requirements of the Part L in England and Wales, Section 6 in Scotland.**
- **UK manufactured**

REFLECTAFOIL TAPE

Reflectafoil Tape is a flame retardant aluminium foil tape coated with a cold weather water based acrylic adhesive on one side, and lined with a release paper to protect the adhesive face. This product has been tested to BS476 part 6 & 7 standards and meets Class 0.

Key Benefits

- **High performance 30 micron aluminium foil tape**
- **Airtight**
- **Vapour tight**
- **Ideal for sealing joints in vapour control layers**
- **Foil conforms to irregular surfaces**
- **Certified to BS476 parts 6 & 7 - Class 0**





ROOFSHIELD®



Roofshield is an air and vapour permeable pitched roof underlay for installation beneath metal roofing sheets, tiles and slates. It is highly water resistant, providing a secondary barrier to the ingress of rain, wind and snow and reduces interstitial condensation. It has been made to the same high standard for over 20 years, and has consistently met the evolving demands of the roofing industry to be the first choice for most roofing contractors. It complies with BS5534.

The underlay's reliable performance has been demonstrated in the toughest locations around the world. Its characteristics allow even very complex pitched roofs to breathe, without the need for air gaps or secondary ventilation unless being installed under metal roof sheeting where ridge and eaves ventilation is required.

The unique, patented meltblown core at the heart of Roofshield allows natural air movement to 'supercharge' the passage of moisture vapour from the roofspace, making the formation of condensation in the roofspace virtually impossible.

With a certified air permeability of $34.4\text{m}^3/\text{m}^2\cdot\text{h}\cdot 50\text{Pa}$, Roofshield does not require additional high level ventilation when used on NHBC-approved projects with tiles or slates. This allows the same specification to be used across all your projects, regardless of the regulations applied. The elimination of openings in the temporary roof covering also reduces the potential for water ingress during construction, and the possibility of installation errors.

Roofshield is the only vapour permeable underlay which the BBA puts enough trust in to explicitly state in their certificate that a vapour control layer is not required for non-ventilated, cold pitched roof constructions.

PHYSICAL PROPERTIES

Property	Test Method	Mean Results
Roll size	-	1m x 50m
Mass per unit area	EN 1849-2	185 g/m ²
Reaction to Fire	EN 11925-2	Class E
Water vapour resistance Sd	EN 12572	0.013m
Vapour resistance	EN 12572	0.065 MNs/g
Air permeability	EN 12114	34.4 m ³ /m ² ·h·50Pa
Water penetration	EN 1928	Class W1 (before ageing) Class W1 (after ageing)

Key Benefits

- More uniform airflow than vents
- High degree of vapour permeability greatly reduces the risk of condensation
- Significantly reduces condensation risk and negates requirement for ridge ventilation
- Ensures continuity of air movement in loft
- Gives protection to the building until primary water shedding layer, e.g. slates or tiles, is installed
- UK manufactured
- Ensures approval of non-ventilated roof and no ridge ventilation
- No reliance on different trades to install VCL
- Fully air permeable



WRAPTITE®



premier guarantee | Approved



Wraprite is a unique patented external airtight and vapour permeable, self-adhered membrane which solves the problem of reliably achieving airtightness in buildings. Applying Wraprite to the outside of the building will mean there are fewer penetrations for services therefore the likelihood of expensive remedial work is greatly reduced. Transporting modular units / pods around the country where traditional membranes tend to become damaged and require patching / replacement is another key benefit of using Wraprite.

Wraprite is easy to install and fully bonds to virtually any substrate, with a key benefit being its speed and ease of installation, negating any requirement for sealants or tapes. This new approach saves on the labour and material costs associated with meeting the demands of modern energy efficiency requirements in residential buildings.

Wraprite has received BBA certification for use in roofs, walls and modular floor construction making it an ideal choice for modular projects with large uninterrupted façades. Its unique patented technology means it is the only self-adhering vapour permeable air barrier certified by the BBA. Wraprite is compliant with Part B regulation changes and also has BRE approval for use in the external wall systems over 18m in height, both as a continuous layer on sheathing board, behind fire classified insulation, and for use to tape joints in insulation behind rainscreen.

PHYSICAL PROPERTIES

Property	Test Method	Mean Results
Roll sizes	-	1.5m x 50m
Nominal Thickness	Calibrated Deadweight Micrometer	0.65mm
Basis Weight	Electronic Weigh Scale	292 g/m ²
Application Temperature	-	Air & surface: minimum -10°C maximum 60°C
Service Temperature	-	-40°C to +100°C
Water Penetration	EN 1928 : 2000 Method A	Class W1 (before ageing) Class W1 (after ageing)
Air Permeance	EN 12114	0.01 m ³ /m ² .h.50 Pa
Water Vapour Resistance Sd	EN 12572	0.039m
Water Vapour Transmission	BS 3177:1959	893 g/m ² .24hr
Peel Adhesion	EN 1939	5.01 N/10mm
Tensile Strength	EN 12311-1	Mean MD 417N Mean XD 252N
Tear Resistance	EN 12310-1	Mean MD 412N Mean XD 286N
Reaction to Fire	EN 11925-2 BS EN 13501-1	Class B, s1, d0*

Key Benefits

- Self adhered to avoid air bypass
- Full adhesion reduces damage during transportation of modular / timber frame kits to site
- Part B compliant for buildings over 18m
- Class B,s1,d0 on A2,s1,d0 or A1 substrate with minimum density of 653kg/m³ and 9mm thickness
- Water resistant yet vapour permeable membrane
- BRE approval for buildings over 18m high
- Can reduce wall thickness
- Leading airtightness performance
- Removes requirement for complex internal detailing and may negate requirement for VCL internally
- Reduces thermal by-pass
- Allows temporary protection until primary external covering
- Provides durability and reduced risk of tears and subsequent remedial work
- Unique patented technology
- Continuous airtight seal
- Simple detailing at junctions and corners - less EPDM required

*tested over 12mm calcium silicate board / fibre cement board as per BS EN 13238:2010.

All tests carried out to EN 13859-2 standard.

WRAPTITE® LIQUID FLASHING

Wraptite Liquid Flashing is a high-quality, gunable, elastomeric, polyether, liquid applied flashing and detailing membrane. It bonds to most construction materials, such as aluminium, brick, concrete, wood, vinyl, and exterior sheathing boards. Wraptite Liquid Flashing is compatible with the entire line of our vapour permeable products for joint detailing in exterior sheathing panels.

Wraptite Liquid Flashing is ideal for use in complex details. It can also be used to protect the leading edge of the Wraptite membrane or tape from water penetration if the edge cannot be protected by overlapping in a shingle fashion.

Key Benefits

- Airtight & vapour permeable.
- Continuous seal and system approach.
- Can be applied in damp conditions.
- Does not peel back when left exposed.
- Does not create build up in rough openings.
- Non-sag.
- 100% solvent free.
- Non-shrinking.
- Bonds to most construction materials.
- Easily applied and spread.
- Does not harm foam insulation.



WRAPTITE® CORNERS

Wraptite Preformed Airtight Corners have been developed for the difficult areas around doors and windows where maintaining good air barrier continuity is difficult and time consuming. Wraptite Corners' simple design and installation process makes sealing openings against air leakage simple, just peel off the release liner, stick the corners in place, then install the Wraptite membrane as normal. This helps speed the installation process when fitted on a production line.

Once installed, the corner sections provide the same vapour permeable air barrier performance as the Wraptite membrane itself, ensuring air leakage and water ingress are minimised without trapping construction moisture or causing condensation.

Key Benefits

- Easy installation.
- Ensures continuity of airtightness measures.
- Simplifies complex detailing.
- Faster installation.



WRAPTITE® TAPE

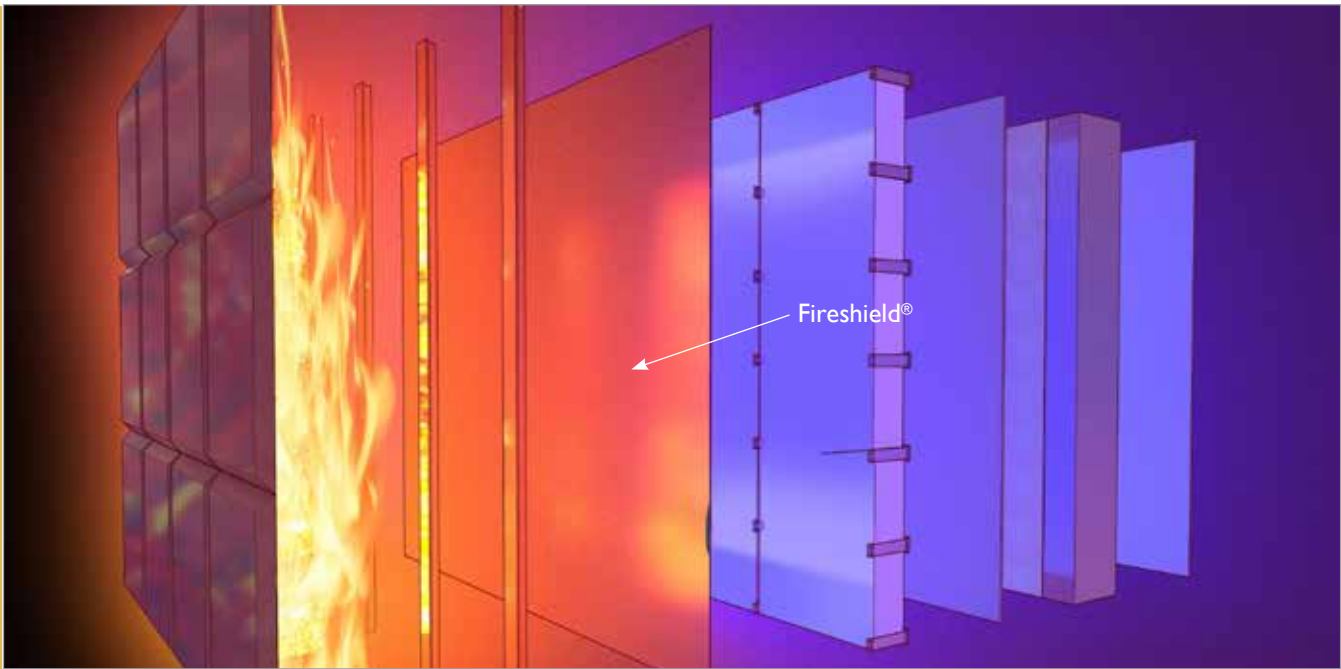
A useful way of stopping unnecessary air leakage around openings and overlaps is to use Wraptite Tape, an airtight, tear resistant tape with high vapour permeability for internal and external applications. Wraptite Tape's flexibility facilitates ease of application and detailing, while its resilient composition resists punctures and tears during construction. It can be left exposed for up to 120 days during construction and has a wide operating temperature range (-40°C to +100°C). Wraptite Tape is also available with a split release liner for ease of installation.

It fully bonds to all standard substrates, with no primer required, suppressing air leakage around joints, openings and penetrations. It is also suitable for permanent airtight sealing of membrane overlaps and for taping insulation joints. Wraptite Tape's high vapour permeability allows damp sheathing to dry quickly and moisture vapour to escape. This ensures good indoor air quality and reduces the likelihood of mould, mildew, condensation, timber distortion and metal corrosion. Wraptite Tape contains no VOC's.

Key Benefits

- Vapour permeable tape used to protect exposed joints in insulation
- Easy to use when detailing joints
- Ultimate airtightness accessory
- Can seal joints in mechanically fastened air barrier
- Airtight





FIRESHIELD®



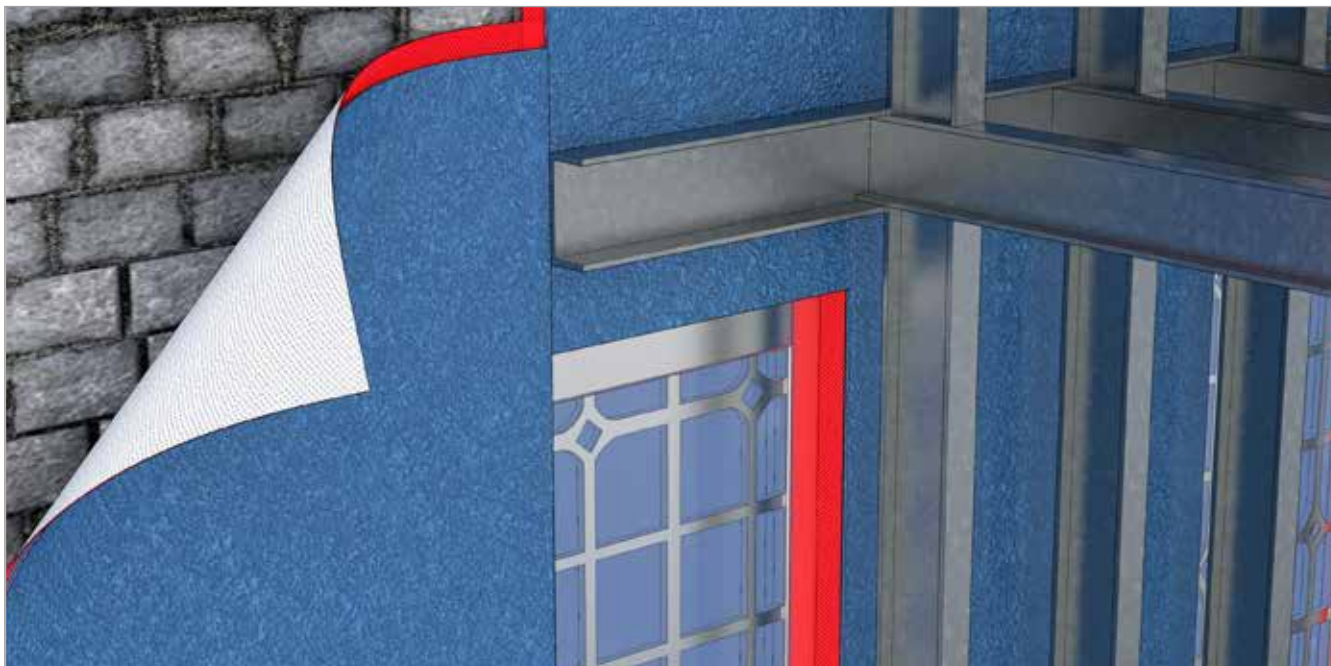
Fireshield is a vapour permeable walling underlay with a fire proof surface. Fireshield is suitable for all walling applications including those in park and leisure homes along with multiple storey buildings. Its unique coating doesn't just resist fire, but eliminates fire spread. It is installed and fixed to the substrate in the same manner as standard breather membranes using mechanical fixings.

PHYSICAL PROPERTIES

Property	Test Method	Mean Results
Roll Size	-	1.1m x 20m
Weight	EN 1849-2	737g/m ²
Thickness	EN 1849-2	1.2mm
Nail Tear Resistance	EN 12310-1	MD 273N CD 330N
Resistance to water penetration	EN 13859-1	Class W1
Tensile Strength	EN 12311-1	MD 300N/5cm CD 275N/5cm
Elongation	EN 12311-1	MD 2-3% CD 2-3%
Water impermeability	EN 20811	Minimum value: 2m
UV resistance	Internal method, UVB	12 months
Water vapour transmission properties	EN ISO 12572 conditions C	Sd=0.08m
Flexibility at low temperature	EN 1109	-20°C
Reaction to Fire	EN 13501-1 Test method: EN 11925-2 and EN 13823 (SBI)	B, s1, d0
Resistance to air penetration	EN 12114	1m ³ /m ² /hr@50Pa
Artificial ageing (5000h uv + 90 days 70°C) Tensile strength after ageing Resistance to water penetration after ageing	EN 13859-1	MD: 290N/5cm CD 240N/5cm Class W1

Key Benefits

- Unique composition actively reacts to prevent fire taking hold
- Vapour permeable walling underlay for use either directly onto sheathing or insulation
- Class B, s1-d0 but performs differently to other similar class products
- Complies with BS5250, BS4016 & NHBC requirements for vapour permeable walling underlays
- Ideal for use in open jointed rainscreen / façade construction
- Part B compliant for buildings over 18m



WRAPTHERM®

Wrapptherm is a composite comprising 10mm Spacetherm Insulation blanket bonded to the face of Wraptite vapour permeable, airtight self-adhesive membrane. Use of Wrapptherm provides improved airtightness levels combined with a reduction in thermal bridging. Wrapptherm was developed for use in the refurbishment of existing buildings where there was a requirement to enhance both the thermal and airtightness performance of the building. Wrapptherm can also be installed around steel columns and beams as a cold bridging airtight solution. Wrapptherm can be applied to the internal face of the existing façade, providing a vapour neutral yet airtight layer, fully self-adhered to the substrate layer with the added benefit of a 10mm thick layer of high thermal performance Spacetherm insulation. Over this airtight/thermal composite framing can be installed with the cold bridging being reduced thanks to the Spacetherm layer. Additional thermal insulation can be included within the frame to meet the u values required for the refurbishment.

The offset nature of the Spacetherm insulation layer, over the Wraptite backing, allows robust sealing of the joints in the panel to ensure the continuity, integrity and robustness of the airtight layer:

PHYSICAL PROPERTIES

Property	Test Method	Mean Results
Coverage	-	2400mm x 1200mm or 1200mm x 1200mm
Nominal Thickness	-	11.5mm
Weight	-	2.40kg/m ² or 1.2 kg/m ²
Water Vapour Resistance Sd	BS EN 12086	0.101m
Water Vapour Diffusion μ	BS EN 12086	8.806
Thermal Resistance		0.667 m ² K/W (Insulation - membrane negligible)

Key Benefits

- Single product airtightness and thermal bridging solution
- Ideal for wrapping around steel columns and lintels
- Water resistant yet vapour permeable membrane
- Leading Airtightness performance
- Reduces thermal bridging
- Continuous airtightness seal
- Tested low vapour resistance

Frameshield Plus 100



FRAMESHIELD® PLUS 100

Frameshield® PLUS 100 is a high performance, air permeable breather membrane with enhanced water hold out properties for use in timber & steel frame constructions. Frameshield Plus 100 is a flexible & lightweight membrane which can be installed in walls and roofs. Due to its watertightness classification the primary water shedding layer must also be factory installed.

Frameshield Plus 100 conforms to the Construction Products Regulation (EU Regulation No. 305/2011), Underlay for walls (Annex ZA of EN 13859-2) and is manufactured under control of an ISO 9001 Quality management system.

PHYSICAL PROPERTIES

Property	Test Method	Mean Results
Mass per unit area	EN 1849-2	100g/m ²
Reaction to Fire	EN 13501-1	Class E
Water vapour resistance Sd	EN 12572	0.006 m
Water penetration	Before ageing After ageing	EN 1928 Class W2 Class W2
Tensile Strength	Before ageing After ageing	EN 12311-1 MD 220 N MD 170N MD 180 N MD 140 N
Elongation	Before ageing After ageing	EN 12311-1 MD 50% CD 30% MD 60% CD 40%
Tear resistance	EN 12310-1	MD 130 N CD 120 N
Flexibility at low temperature	EN 1109	No cracking at minus 60°C

Key Benefits

- Can be installed on walls or roofs where primary watershedding layer is factory installed
- Lightweight
- Easy to install
- Transparent for ease of fixing details
- UK manufactured
- Can be manufactured to a variety of widths, minimum order quantity applies
- Highly breathable

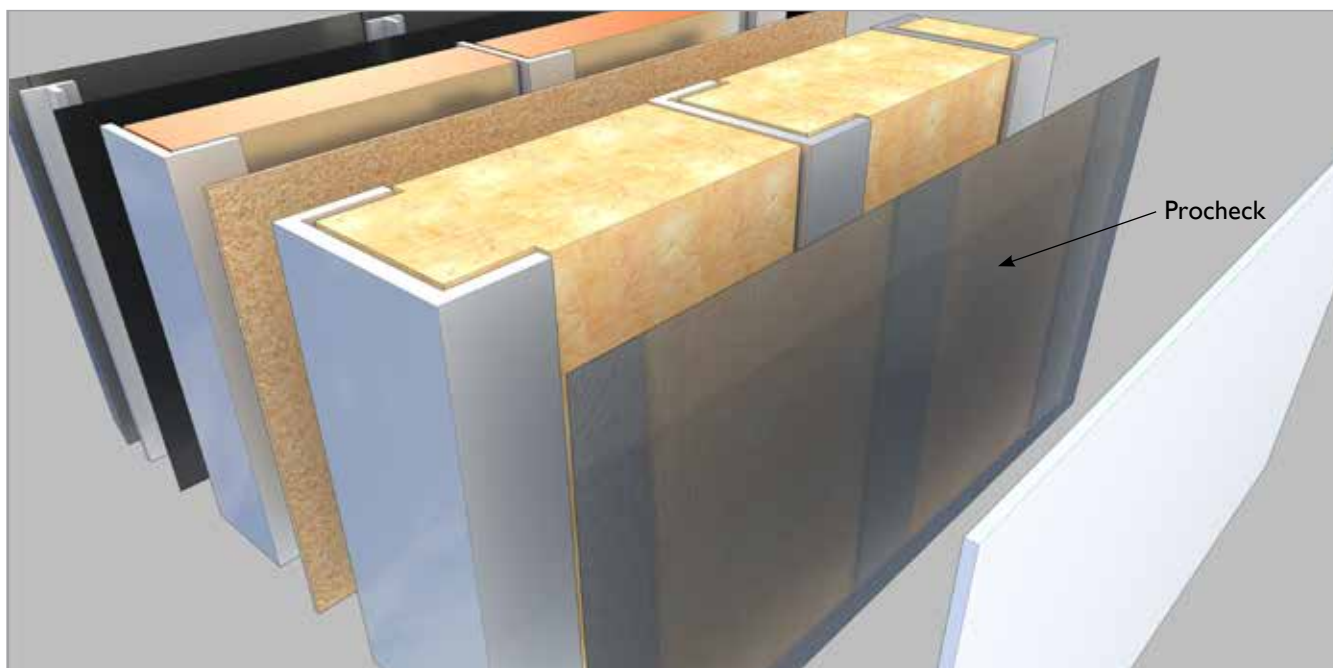
CONDITIONS APPLICABLE TO THE END USE OF THE PRODUCT

Rolls should be stored flat or on a clean, level surface and kept under cover. Once the underlay is applied to the walls, the primary wall covering should be installed within three months

METHOD OF INSTALLATION

The membrane should be installed in accordance with relevant national regulations. Any guidelines concerning installation that are supplied with the product should be consulted prior to laying. For general information – unroll the breather membrane and fit directly to the timber sheathing ensuring that the lower base timbers are covered. Lap the breather membrane by 100mm horizontally, 150mm vertically and external corners by 300mm. Upper layers should overlap lower to shed water away from the sheathing.





PROCHECK® 300

Procheck 300 is a lightweight, reinforced, polyethylene vapour control layer for use within roof and wall constructions to prevent warm, moist air escaping from inside the building and condensing within the insulation. The woven, polypropylene, multifilament scrim reinforcement provides excellent resistance to tears and punctures to withstand tough site conditions and is unaffected by chlorine. Procheck 300's vapour resistance of S_d 64m makes it the ideal choice for applications such as heated warehouses, schools and shops. Its translucent colour allows visibility to the substructure.

Key Benefits

- Suitable for low risk applications e.g. heated warehouses
- Minimal tears due to reinforcement
- Robust to withstand tough site conditions
- Visibility to substructure for ease of installation

FAÇADESHIELD® UV

Façadeshield UV is designed specifically to ensure the building fabric maintains good water resistance and breathability when used behind open jointed façades. It is a breathable membrane that combines exceptional water and UV resistance with the aesthetically pleasing anti-glare dark colour which provides a "shadow" appearance within open rainscreen façades. Façadeshield UV enhances the airtightness of the building whilst reducing the risk of condensation due to its' high vapour permeability, yet airtight fabric. Façadeshield UV is robust, with good tear resistance and tensile strength.

Key Benefits

- Provides secondary protection to open jointed & perforated façades
- Aesthetically pleasing behind open façades
- Provides externally applied airtight layer for continuity of air barrier
- Has long term durability
- Class B fire performance
- Can be fully exposed for up to 12 months





SPECIALIST SERVICES

Technical Support:

Our technical back-up has always been an integral part of our strategic development, with an outlook based on advanced technical solutions, rather than commodity driven.

Our dedicated technical team is focused on providing high quality advice and support to our customers all the way from drawing board to site.

ONLINE TECHNICAL ADVICE.

U VALUE CALCULATIONS.

CONDENSATION RISK ANALYSIS.

IN HOUSE ACOUSTIC LABORATORY AVAILABLE FOR CUSTOMER TESTING.

CAD DESIGN

SITE ADVICE

PRODUCT PRESENTATIONS



CONDENSATION RISK ANALYSIS

Condensation can significantly reduce the effectiveness of insulation, and result in damage to the building fabric. A Condensation Risk Analysis evaluates the likelihood of interstitial condensation in your roof or wall construction. These calculations are regularly required by building control to demonstrate compliance with building regulation requirements. Calculations are performed free of charge when using our products.



WUFI CALCULATIONS

We advise our customers using WUFI software, which is fully compatible with BS EN 15026, and dynamically predicts moisture movement and storage as well as condensation for each location. The designer is able to achieve a minute-by-minute prediction over a given period of years, as specified by the designer. The programme considers a worst-case scenario with the injection of air and/or moisture leaks at the source to predict the drying out of the fabric build up.



BIM OBJECTS

Our range of Performance Specifications & BIM content, covering our Condensation Control Membranes, External Airtight Barriers, Acoustics Flooring Solutions, Ground Gas Protection Systems & Thermal Insulation range is now available in a combination of Revit Project files (.rvt), Revit Detail Component files (.rfa), Industry Foundation Class files (.ifc) & PDF format.

PRODUCT DIVISIONS

We provide a wide range of high quality, innovative solutions which are designed to meet the continuously evolving requirements of the construction industry.

Product divisions include:

- Condensation Control
- Acoustics Floor Solutions
- External Airtight Barriers
- Ground Gas Protection
- Thermal Solutions

www.proctorgroup.com



Enhanced performance for Park Homes and Luxury Lodges

The superior quality of Reflectashield TF 0.81, a high-performance breather membrane has become an essential part of the construction process of Park Homes and Luxury Lodge manufacturer Lissett Homes.

Reflectashield TF 0.81 is vapour permeable, has low emissivity and an enhanced foil surface designed to improve the thermal resistance of timber and steel frame structures, and is ideally suited to the offsite modular manufacturing process.

Installed on the external face of the timber frame, foil side face out, Reflectashield TF 0.81 has significant added thermal benefits to those offered by traditional breather membranes. The water-resistant, non-woven polypropylene foil faced laminate has a unique patented three-layer composition, providing excellent breathability, as well as secondary protection to the building during construction, and transportation to site.

Commenting on the selection of Reflectashield TF 0.81 Chris Close, Design/Technical Director for Lissett Homes explains: "Lissett Homes has been producing top quality park homes and lodges for over 35 years and is renowned for providing the highest levels of luxury within the industry. All products chosen for use within the manufacturing of our homes have to be consistent with our customer's expectations of the highest quality and performance. We have successfully used Reflectashield TF 0.81 for 6 years and in our experience believe it to be the best membrane on the market."

"Our Park Homes and Lodges are manufactured using a timber frame structure with SIPs to the external walls and internal ceilings. Reflectashield TF 0.81 is applied to the exterior walls, with the addition of Reflectatherm Plus to the internal ceilings providing a high-performance vapour barrier. In all the years of use we have been delighted with the performance of both products, without any issues whatsoever."

Reflectashield TF 0.81 complies well within the low vapour resistance requirements set out by BS 4016, TRADA and the NHBC.

Reflectatherm Plus is a reflective, high resistance vapour barrier for internal walls, ceilings and floors and will significantly reduce the risks of condensation, by providing the highest levels of moisture resistance.





“I believe the success of the A. Proctor Group is down to a solid foundation of innovation backed up by an excellent, loyal and committed team, every one of them playing an important role in our continued success. Scotland provides us with a unique platform to launch our ideas, systems and products. I am fiercely proud of this heritage and our brand.”

Keira Proctor

Managing Director, A. Proctor Group Ltd

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