EXPERT IN VAPOUR BARRIER AND AIR-TIGHT SEALS
Barnier System® - The insulation technology and air tight experts.

The Scapa group is the world leader in the manufacturing and distribution of adhesive tapes with sophisticated technical properties. We are represented on three continents and have been responding to the needs of the building market for over 95 years.

Each region of the world uses its own insulation techniques. Depending on local constraints, we are present in most countries and our products respond to different standards.

The recommendations of energy efficiency standard are inspired by techniques used in Canada and closer to us, in Germany, Austria and Switzerland. Scapa has been active in these markets for more than 15 years.

This means that the products offered in the Barnier System® range have been tried and tested and guarantee great performance which is supported by hands-on experience and user satisfaction.

Air-tightness is the most fundamental requirement for an effective vapour barrier. Without a large specialised range of adhesive tapes, the air-tightness of the building envelope cannot be guaranteed. This is why Barnier System® offers a complete set of solutions including adhesive tapes and vapour barrier films in order to meet all needs and treat all special areas.

This catalogue brings together a relevant selection of the solutions which we offer. In our role as an expert, we guide your customers’ decisions and, where necessary, complete our recommendations with specific products.

Barniere® provides you with a personal aid to help you set up your shelves so that customers can browse the range in the best possible way thanks to a clear POS display and a topper to aid the selection of a product.
New thermal regulation: implications

The building sector is the biggest energy consumer in the UK out of all of the economic sectors. Each year, each person consumes the equivalent of more than one tonne of petrol.

The application of the requirements has a number of implications which include:

A strong increase in the number of energy-efficient homes such as bio-climatic houses and passive houses which therefore reduces the needs for heating and air-conditioning.

An additional cost of 10 to 15% for a detached house compared to a non airtight house of the same size.

Barnier System®, The insulation technology experts.

Barnier System® adhesive tapes:

- The 1235 range is the multi-use product range which is used the most.

This ultra powerful adhesive has been developed as a joining material for vapour barrier and rain barrier films for interior and exterior use (1235 Special, 1235 Special box, 1235 Pre Position, 1235 Large and 1235 Extra Large).

The 1235 range has an anti-U.V. treatment, does not contain any heavy metals, can be applied at temperatures as low as -5°C and can withstand temperatures between -40°C and +100°C.

It can be applied to various substrates, such as OSB panels and all kinds of PE and non-woven films.

The PE film is reinforced with a weft thread made of synthetic material which improves its resistance. It can be torn by hand (as long as it is dry and torn straight), making it easy to use. The range is coated with a special acrylic adhesive which has an immediate strong tack with a high level of adhesion. When applied in accordance with our recommendations, the product is guaranteed for a minimum of 10 years.

The 1235 range is ideally suited for treating special areas in insulation and will satisfy craftsmen working to the most demanding standards

- The 1235 Patch Elec is a robust, extremely flexible EPDM sealant and is specially designed for quick, lasting air-tight sealing of cabling and piping which goes through vapour barrier films. It can be used outdoors, under roofing or on vapour barriers used in renovation work. The grommets are adapted to ensure that cables, high-temperature pipes, ventilation pipes, etc. are sealed so that they are air tight. The 1235 Patch Elec is made of flexible EPDM material, the grommets are connected with a self-adhesive Tyvek material with an age-resistant acrylic adhesive layer.
• **The 1234** is a high-performance, air-tight, moisture-proof adhesive tape. It features a very high-resistance polypropylene (PP) support and is protected by a liner made of a silicon-coated paper for easy application. It is coated with a powerful pressure-sensitive acrylic adhesive which is specially designed to give vapour barrier films their air-tight quality. Designed for use indoors, it can be applied at temperatures as low as +5°C and can withstand temperatures from -20°C to +110°C. It is suitable for application on curved surfaces in order to treat channels, pipes and hatches.

• **The 4472 Fix** is based on the same technology. We apply the same adhesive which is used for the 1235 to a reinforced mesh to create an adhesive transfer tape which can be used to secure all rain barrier and vapour barrier films on all substrates and in the most difficult of application conditions.

Use double-sided adhesive Transfer tape 4472 when mounting on metal or wooden substructures.

Lay the film and rub hard while applying. Sheets have to overlap by 10cm.

The lettering of the film must face you.

Apply BB100 high performance adhesive on cement, bricks and plaster ceilings.

Apply floors and other corners.

The BB100 is a solvent-free adhesive which has been specially developed for securing vapour barriers to all kinds of surfaces such as wood, plaster, concrete, bricks and PVC.

• **The BB350** is made of an extruded butyl rubber on a polyethylene film. This product has remarkable conformability, meaning that it can be applied to curves and rounded surfaces with great precision. It is highly stretchy and triples in length simply by pulling on it, whilst still retaining its adhesive power.

• The compression sealants **3509 Patch** and **3509 Band** are medium-density, closed-cell adhesive foams with high adhesive strength and long-term resistance. In the form of the 6cm x 4cm Pads or the 25m x 60mm strip, the thicknesses of 4.5mm and 3mm ensure an air-tight seal once compressed (by a minimum 30%) by simple screws or nails.

The adhesive tapes in the Barnier System® range are suitable for all Barnier System® vapour barrier. You will find a summary of the recommendations for application for various substrates in the table on the last page of this catalogue.
The Vapour Kontrol® vapour barrier films from Barnier System®:

The Vapour Kontrol® vapour barrier films from Barnier System® are designed for applications on roofing, even at steep angles or on vertical surfaces. They are used to create air-tight and water-tight seals. When used indoors, they must be applied to the warm side of the thermal insulation. Ensure that the material is not perforated when it is secured. This can be achieved with the help of 4472 Fix adhesive transfer tape or a tube of BB100 liquid adhesive.

APPLICATION:

Depending on the construction, the Vapour Kontrol® vapour barrier is rolled out onto the battens or applied under the rafters. In both cases, ensure that The Vapour Kontrol® covers the other layers without any gaps. The Vapour Kontrol® must not be secured mechanically but should be secured with the 4472 Fix adhesive transfer tape or the BB100 adhesive depending on the difficulty of the situation. The Vapour Kontrol® must be applied to the warm side of the thermal insulation.

An overlap of 100mm is required at the joints. Air-tightness is ensured by sealing with the 1235 Special or the 1234.

Our range includes several types of Vapour Kontrol® which should be selected according to the type of construction, building use, local climate conditions, materials used, etc.

The decision is complex; our technical service team are at yours disposal for further questions or assistance.

• The VK 100 is a vapour barrier film with an SD value of 100, meaning that the thickness of the layer of air equivalent to the diffusion of the water vapour measures 100m. This blue polyethylene film with a thickness of 0.14mm is highly resistant to tearing yet still supple, allowing easier application. It is classified under fire performance class E according to the ISO 11925 standard and the product is CE-certified according to standard 13984. Its high level of impermeability guarantees the best possible insulation which can only be achieved with perfect treatment of special insulation points. Each roll covers 100m² (25 metres x 4 metres).

• The VK 2 is a vapour barrier film with an SD value of 2. This means that the thickness of the layer of air equivalent to the diffusion of water vapour measures 2 metres. It permits diffusion and enables the condensation/evaporation cycle. It promotes the drying of the insulated woodwork in the summer and protects against the formation of condensation in the winter. Experts who support energy efficiency favour this diffusion-open film. It is a composite film made using a special polyethylene felt compound. It is CE-certified according to standard 13984 and is classified in fire performance class E according to the ISO 11925 standard. It creates an air-tight building envelope and also prevents air currents in the house or building. With a density of 85g per m², it is both light and resistant, making it easy to handle the roll which is 50 metres long and 1500mm wide. Its printed square markings and 100mm overlap aid positioning. Each roll covers 75m² (50 metres x 1.5 metres).

• The VK 20 is a vapour barrier film with an SD value of 20.
Joining strips by overlapping.

An overlap of 100mm is necessary at the joints of the Vapour Kontrol® films. Air- and vapour-tightness is guaranteed at the overlap with the 1235 or 1234. They have an extremely strong bond, even after decades. They are easy to apply and ensure a durable airtight building shell.

When applied under rafters, the strips of tape must be laid vertically from the eave purlin to the ridge purlin. The overlapping vertical sections must be applied to a rafter where possible and the fastening should be secured with a batten. The batten’s mechanical fastening must be sealed with the 3509 Patch where there are holes or with the 3509 Band along the entire length. The pressure applied by the mechanical fastening ensures complete airtightness.

Joints and contours

The Vapour Kontrol® films which are laid around elements which cross through the structure (for example: ventilation pipes, chimneys, gable walls) must be made vapour-tight and air-tight using an appropriate adhesive tape from the Barnier System® range.

- The 1235 PrePosition can be used on corners thanks to its pre-cut liner (30/30).
- The BB350 is highly suitable for creating sealed rounded joints thanks to its very high conformability and its ability to stretch without losing any of its adhesive properties.
Joints around windows

• In order to ensure the sealing around windows, it is best to use separate Vapour Kontrol® strips (pre-cut). The strips must be placed around the window (taking the amount of necessary overlap into account) and fixed so that they are air-tight using the 1235 Spécial or the 1235 PrePosition. The corners of the lower surfaces are sealed and remain air-tight by using the same adhesive tape.

Cut the Vapour barrier film.

Remove the first liner and stick on the edge of the film, press firmly and rub.

Position the taped film on the substrate without removing the second liner. While pressing, remove the second liner.

APPLICATIONS

• Fire performance classified in class E according to the EN ISO 11925 standard, classification according to the EN 13501-1 standard.
• SD 2 according to the EN1931 standard.
• Scapa Vapour Kontrol 2 is is very robust air-tight vapour barrier which allows diffusion.
• For use in constructions that require a vapour barrier which allows diffusion. For use in new constructions and renovations.
• Makes it possible to create an air-tight building envelope, prevents air currents in the house.

PRODUCT BENEFITS

• Its hygroregulation properties promote drying of the insulated woodwork in the summer and protect against the formation of condensation in the winter.
• Contributes to energy efficiency and prevents uncontrolled loss of heat.
• Very robust and resistant to tearing thanks to the reinforced layer.
• The printed squares make it easier to lay.
• Permeable to water vapour according to the DIN EN 1931 standard.
• Water permeability test according to the DIN EN 1928 standard (Method A).
• VK 2 = SD2

<table>
<thead>
<tr>
<th>Grammage</th>
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<th>Test method</th>
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<tr>
<td></td>
<td>m²</td>
<td>85g/m² (+/-5%)</td>
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<td>EN 13501-1</td>
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<tr>
<td>Water-tightness</td>
<td>-</td>
<td>Passed</td>
<td>EN 1928</td>
</tr>
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<td>Maximum longitudinal tensile strength</td>
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<td>EN 12310-2</td>
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<td>≥ 50N</td>
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<td>18 mois / 3 mois</td>
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### VAPOUR BARRIER

**Vapour Kontrol®**

#### APPLICATIONS
- **Fire performance classified** in class E according to the EN ISO 11925 standard, classification according to the EN 13501-1 standard.
- **SD20** according to the EN1931 standard.
- **Air tight, allowing diffusion and very robust.**
- For use in new constructions as well as renovations.
- Creates an air-tight building envelope, and prevents air currents in the house.

#### PRODUCT BENEFITS
- Its hygroregulation properties promote drying of the insulated woodwork in the summer and protect against the formation of condensation in the winter.
- Supports energy efficiency and prevents uncontrolled loss of heat.
- The printed squares make it easier to lay.
- **VK 20 = SD20**

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<td>85g/m² (+/-5%)</td>
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<tr>
<td>Fire performance when hanging freely</td>
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<td>EN 1931</td>
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<tr>
<td>Water-tightness</td>
<td>-</td>
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<td>EN 13501-1</td>
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<td>Maximum longitudinal tensile strength</td>
<td>-</td>
<td>≥ 85 N/50mm</td>
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<td>Maximum transverse tensile strength</td>
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<td>≥ 56 N/50mm</td>
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<tr>
<td>Longitudinal tearing strength</td>
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<td>Transverse tearing strength</td>
<td>N</td>
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<td>U.V. resistance</td>
<td>-</td>
<td>18 mois / 3 mois</td>
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### AVANTAGES
- **Fire performance classified** in class E according to the EN ISO 11925 standard, classification according to the EN 13501-1 standard.
- **SD100** according to the EN1931 standard.
- **Extra robust.**
- **Increased resistance to diffusion.**
- Resistant to tears and piercing.
- **Flexible when cold and very resistant to aging.**
- Can withstand temperatures between -20°C and +80°C.

#### PRODUCT BENEFITS
- Air tight, allowing diffusion and very robust.
- Creates an air-tight building envelope and prevents air currents in the house.
- Prevents humidity formation.
- Supports energy efficiency and prevents uncontrolled loss of heat.

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Unit</th>
<th>Nominal value</th>
<th>Test method</th>
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<td>m</td>
<td>E</td>
<td>EN 1931</td>
</tr>
<tr>
<td>Water-tightness</td>
<td>-</td>
<td>Passed</td>
<td>EN 1928</td>
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<td>Maximum longitudinal tensile strength</td>
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<td>≥ 130 N/50mm</td>
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<td>Maximum transverse tensile strength</td>
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<td>≥ 100 N/50mm</td>
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</tr>
<tr>
<td>Longitudinal tearing strength</td>
<td>N</td>
<td>≥ 42N</td>
<td>EN 12310-2</td>
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<td>Transverse tearing strength</td>
<td>N</td>
<td>≥ 40N</td>
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<tr>
<td>Temperature resistance</td>
<td>°C</td>
<td>de -20°C / +80°C</td>
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**POLYPROPYLENE FILM**
**FOR JOINING AND REPAIRING VAPOUR BARRIERS/RAIN BARRIERS**

**APPLICATIONS**
- High performance thanks to its extreme adhesive performance for joining membranes.
- Perfect bonding of sheet overlaps and excellent resistance to aging.
- For use with Vapour checks and barriers
- Polyethylene foils
- Planed wood, OSB boards and Chipboards
- Metals (aluminum, steel etc.)
- Polyethylene components (e.g. cladding)
- PVC components such as windows
- Resists up to 600Pa according to the DIN EN 1026: 2000-09
- Stability adhesive compound was prepared by repeated pressure in accordance with DIN EN 12211: 2000-12.
- The resistance to air pressure of vapour barrier overlaps is certified by the German Institute for Reference Fraunhofer Institute for Building Physics IBP (P6-188/2011 report).

**PRODUCT BENEFITS**
- Excellent conformability and flexibility for straight and curved applications.
- Exceptionally strong, permanent adhesion on various substrates.
- Temperature resistance: -20°C to +110°C.
- Can be torn by hand: quick and simple application.

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**WHITE PE FILM**
**FOR JOINING AND REPAIRING VAPOUR BARRIERS/RAIN BARRIERS**

**APPLICATIONS**
- High performance thanks to its extreme adhesive performance for joining membranes.
- Perfect bonding of sheet overlaps and excellent resistance to aging.
- For use with Vapour checks and barriers
- Polyethylene foils
- Planed wood, OSB boards and Chipboards
- Metals (aluminum, steel etc.)
- Polyethylene components (e.g. cladding)
- PVC components such as windows
- Resists up to 600Pa according to the DIN EN 1026: 2000-09
- Stability adhesive compound was prepared by repeated pressure in accordance with DIN EN 12211: 2000-12.
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**PRODUCT BENEFITS**
- Excellent conformability and flexibility for straight and curved applications.
- Exceptionally strong, permanent adhesion on various substrates.
- Temperature resistance: -20°C to +110°C.
- Can be torn by hand: quick and simple application.

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**1235 SPÉCIAL :**
- High performance air-tight and vapour barrier reinforced adhesive tape designed for sealing vapour barrier films
- Permanent sealing and finishing of vapour barrier overlaps.

**1235 LARGE :**
- High performance for joining membranes to each other.
- Joining multilayered reflective insulation to HVP screens underneath the roof.
- Perfect bonding of sheet overlaps.
- Permanent edge-to-edge joining of panels.
- Permanent sealing of large joints between structural elements

**1235 EXTRA LARGE :**
- High performance for sticking membranes to each other.
- Perfect bonding of sheet overlaps.
- Permanent edge-to-edge joining of panels.
- Sealing very wide ends of rigides and gutters

**WARRANTY**
10 years

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<table>
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<th>Dimensions</th>
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<td>10</td>
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<tr>
<td>25mx100mm</td>
<td>163779</td>
<td>6</td>
</tr>
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<td>25mx150mm</td>
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**SPECIAL DEAL**
1235 Spécial Box (set of 10 rolls)
Barnier System®
a complete solution for the modern home.

1. **1235PP**
   - Connect vapour barriers to woodwork (doors, windows).
   - Indoor/outdoor

2. **1235 SPÉCIAL 1235 L 1235 XL**
   - Join vapour barrier/rain barrier films and OSB chipboard panels.
   - Indoor/outdoor

3. **BB100**
   - Connect vapour barriers to all supports. No need for a primer.
   - Indoor

4. **PATCH ELEC**
   - Sealing of cable ducts and conduits through the vapor barrier films.
   - Indoor/outdoor

5. **4472F**
   - Fix vapour barrier/rain barrier films.
   - Indoor

6. **BB350**
   - Seals around channels, piping and hatches.
   - Indoor
WHITE PE FILM
FOR JOINING AND REPAIRING
VAPOUR BARRIERS/RAIN BARRIERS

APPLICATIONS
SPECIAL JOINTS, FOR ANGLES AND CORNERS:
• Sealing corners thanks to the double-band adhesive tape with pre-cut liner in the middle -
two 30mm adhesive tapes: for sealing window joints, rafters and in corners.

PRODUCT BENEFITS
• Printed white PE film, reinforced with a polyester grid.
• Long-lasting, high-performance acrylic adhesive.
• U.V. resistant.
• Does not contain heavy metals.
• For joining vapour barrier and rain barrier films for optimum insulation in new generation constructions.
• SD9.6
• Hand-tearable for easy and quick applications
• Thermal resistance: -40 °C +100 °C
• Resistance to air pressure of vapour barrier overlaps is certified by the German Institute for Reference Fraunhofer Institute for Building Physics IBP (P6-188/2011 report).

<table>
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<th>Unit</th>
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<td>Longitudinal tearing strength</td>
<td>43 N/25 m</td>
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<tr>
<td>Peel adhesion at 180° on stainless steel</td>
<td>47 %</td>
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<tr>
<td>Peel adhesion at 180° on stainless steel</td>
<td>28 N/25 m</td>
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<tr>
<td>Air resistance equivalent to the resistance to the diffusion of water vapour (SD value)</td>
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<td>Resistance to application temperature</td>
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Dimensions | Reference no. | Quantity per pack |
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1235PP

PATCH ELEC

APPLICATIONS
Specially designed for quick lasting sealing around cables and piping which run through vapour barrier films.
• Can be used indoors and outdoors, under roofing or on vapour barriers used in refurbishing work.
• The grummets are adapted to ensure that cables, high-temperature pipes, ventilation pipes, etc. are 100% air-tight.

PRODUCT BENEFITS
• High adhesion strength.
• High thermal stability.
• Gas barrier.
• Suitable for application on OSB, and other planed wood panels.
• Indoors/outdoors.
• The high quality EPDM ensures a perfect airtight seal.
• Extremely supple and elastic, no protruding cabling.
• Also suitable for under-roof cabling and piping.
• Possible to slide cables and pipes in after cutting.

<table>
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<td>C°</td>
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<tr>
<td>Temperature resistance</td>
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<td>Tearing strength</td>
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<td>8-12mm</td>
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<td>25-32mm</td>
<td>170372</td>
<td>10 pads</td>
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### APPLICATIONS

- Fixing rain barriers or vapour barriers onto vertical girders.
- Joining vapour barriers or rain barriers without excess thickness.
- Permanent fixing onto vertical girders made of metal, galvanised steel or wood.

### PRODUCT BENEFITS

- Very high tack.
- Very high adhesion, even on substrates with low surface tension, such as Tyvek®.
- Can withstand temperatures between -40°C to +120°C.

### Specifications

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### APPLICATIONS

- Connecting Vapour barrier on all surfaces.
- For joining vapour barriers on all construction materials (wood, fibreboard, OSB panels, chipboard, plaster board, concrete, bricks, PE or PVC components).
- Suitable for polymer films, aluminium, Kraft paper, non woven.

### PRODUCT BENEFITS

- Easy to use.
- Highly impermeable on various substrates.
- Strong adhesion on different surfaces.
- Solvent-free.
- Odourless.
- Does not drip.
- Application temperature: >0°C to +50°C.
- Contains no harmful substances.
- Reliably absorbs all structural movements.
### APPLICATIONS

**LONG-LASTING, LOW-COMPRESSION SEALED JOINTS**

- Using screws, nails or staples with the 3509 Patch prevents infiltration of water, air and dust.
- Ensures and preserves the seal when fixing the structural elements in the roof.

### PRODUCT BENEFITS

- Acts as a water-seal and air/dust seal when compressed.
- Resistant to abrasion, corrosion and humidity.
- U.V. resistant.
- Reduces vibrations and provides padding.
- Working temperature: -30°C to +70°C.
- Application temperature: +10°C to +40°C.

### Foam Tape Specifications

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Unit</th>
<th>Nominal Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shore hardness</td>
<td>%</td>
<td>50</td>
</tr>
<tr>
<td>Force to compress by 30%</td>
<td>N/cm²</td>
<td>6.3</td>
</tr>
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<td>Compression variation after 1 min</td>
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<td>N/25mm</td>
<td>5</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>N/cm²</td>
<td>88</td>
</tr>
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<td>Elongation at tear</td>
<td>%</td>
<td>&gt;140</td>
</tr>
<tr>
<td>Thermal conductivity (k)</td>
<td>Wm-1K-1</td>
<td>0.043</td>
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</table>

### Foam Patch Specifications

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<td>Wm-1K-1</td>
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</tr>
</tbody>
</table>

**Reference:** 163905

**Dimensions:** 6cmx4cm 4.5mm thick

**Quantity per pack:** 500 patches per roll

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**Application for Fixing: Fixing Vapour Barriers / Rain Barriers**

**Reference no.:** 163968

**Dimensions:** 25mx60mm 3mm thick

**Quantity per pack:** 4
**APPLICATIONS**
- Allows vapour barrier films and rain barriers (partitions, walls, roofs) to be made water-tight even when they have been pierced.
- Allows openings in roofs to be sealed (holes, air vents, chimneys).
- Also allows flexible or rigid pipes, ventilation channels made from aluminium, zinc-coated metal, polyethylene or rigid PVC to be sealed.
- Do not expose the product directly to UV light.

**PRODUCT BENEFITS**
- Very high adhesive strength
- High resistance to heat up to 100°C
- Can be torn by hand thanks to the protective silicon-filled system which allows the butyl to be easily detached from the protector.
- Excellent adhesion at low temperatures
- Flexible, malleable and elasticated lengthways as well as crossways so that it can be made to fit perfectly around materials with irregular dimensions.
- Barrier to gas and vapour
- Solvents free

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**Table: summary of applications:**

<table>
<thead>
<tr>
<th>Type of Adhesive</th>
<th>Interior usage</th>
<th>Exterior usage</th>
<th>Kraft and insulation panels</th>
<th>Metal</th>
<th>Wood</th>
<th>Glass</th>
<th>Backerboard</th>
<th>Concrete</th>
<th>PVC</th>
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**Dimensions**

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<tr>
<th>Dimension</th>
<th>Reference No.</th>
<th>Quantity per pack</th>
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</thead>
<tbody>
<tr>
<td>10mx50mm</td>
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<td>4</td>
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</tbody>
</table>

**Notes**

- Elongation at tear: % 1000
- Adhesive strength: >90°
Find our complete product ranges online!

www.barniersystem.com

www.scapa.com

www.barnierdeco.com