

# All the facts...

Thermafleece Breather Membrane is a light weight vapour permeable underlay designed for use in floors and walls or on top of insulation as a protective layer.

The material meets EN 13859-1 for pitched roofing and EN 13859-2 for walls. Thermafleece Breather Membrane has good water resistance, high breathability and is lightweight and easy to handle. The membrane is coloured black on one side and grey on the other with no text or images on either side.

Thermafleece Breather Membrane comprises 3 layers; two outer layers composed of a non-woven polypropylene and an inner breathable microporous film.

## Key Features

- Highly moisture vapour permeable
- Very high breathability
- UKCA compliant to EN 13859-1 (roofs) & EN 13859-2 (walls)
- Excellent waterproofing properties
- Good tensile and nail tear strength
- Grade E flame resistant to EN 13501-1
- 1 month UV resistant
- UKCA & CE compliant
- Fully Recyclable

## Sizes

- **Width** – 1.5m
- **Roll Lengths** – 16.7m & 50m
- **Area** – 25 & 75 m<sup>2</sup>

## Specifications

Property	Value
Tensile strength	250 / 140 N/50mm (MD/CD)
Elongation	60/70 % (MD/CD)
Tear resistance	100/95 N (MD/CD)
Resistance to air penetration	0.03 m <sup>3</sup> /m <sup>2</sup> .h
Water vapour transmission properties	0.029 Metres
Resistance to water penetration	Class W1
Flame resistance	E
Stability to low temperature	-60°C
Artificial ageing – elongation	40/50 (MD/CD)
Artificial ageing – tensile strength	200 / 100 (MD/CD)
Artificial ageing – resistance to water penetration	Class W1

## Standards

- EN 13859-1 (roofs)
- EN 13859-2 (walls)
- EN 12311-1 (elongation & tensile strength)
- EN12310-1 (tear resistance)
- EN12572 Set C (vapour transmission)
- EN 1928 (water penetration)
- EN1109 (low temperature stability)
- EN 1928 (artificial ageing)

## Installation Guidelines for Walls

Fix the membrane to the wall structure; ensure upper layers overlap lower layers. Work from the bottom moving upwards and ensuring there are minimum overlaps of 100 mm on the horizontal joints. Do not begin a vertical lap joint within 300 mm of a corner, and vertical laps should be at least 150 mm. Ensure the bottom timber is also protected by an overlap. Fix at suitable intervals with galvanised nails, stainless staples or similar fixings that will be permanent.

# All the facts...

Do not leave the membrane unnecessarily exposed to weathering since high winds; excessive UV etc. may cause damage over time. If you are required to leave the membrane exposed for extended periods of time, consider the use of suitable temporary protection materials.

## Installation Guidelines for Floors

Thermafleece Breather Membrane is ideal for supporting insulation between suspended floor joists or as a protective layer above insulation installed between floor joists to prevent the accumulation of debris on top of insulation. The membrane can be nailed or stapled to the underside of the floor joist if access permits. Alternatively, the membrane can be installed from above the rafter. For best performance staple the membrane to the lower side of the joist and run the membrane across before stapling to the lower side of the next joist before running over the top of the joist and repeating. Ensure an overlap of at least 100mm between layers of membrane.

Thermafleece breather membrane can also be laid on top of loft insulation to keep the insulation clean and free of debris.

## Further Guidance

Always handle carefully to prevent tears and punctures. Repair any damage which does occur with suitable tape. Ensure that sufficient ventilation is incorporated to comply with all relevant building regulations and technical standards. Store all materials in suitable conditions.

For further guidance please refer to our Thermafleece Walls, Floors and Roofs Guidance notes.

## Technical Support

We offer a comprehensive support to meet all your technical requirements including:

- On-site and off-site support throughout the design and build process
- Advice on meeting current regulations including Building Regulations and Code for Sustainable Homes
- U-value and condensation risk analysis
- Advice on environmental impact
- Application guidance notes, comprehensive product data and reports

**For technical advice call us on 01768 486285.**

## Where to Buy

Our products are available through a wide network of merchants and distributors. To find out more visit our web site

[www.Thermafleece.com](http://www.Thermafleece.com) or call us on 01768 486285.

