

Product features & benefits

- Air open & vapour permeable
- **Over 13% more breathable than any other 'air open' underlay on the market**
- Lowest vapour resistance of all breathable membranes
- Being both air open & vapour permeable further minimises the risk of condensation forming, particularly during the drying out period of a building
- No ventilation required
- Available in 2 widths: 1.5 x 50m & 1m x 50m
- Hydrophobically treated
- Type LR underlay
- Strong 3 layer material
- 15 year guarantee
- Recyclable
- UV stable for 4 months
- Batten spacing 350mm
- Superior nail tear strength

Area of application

Suitable for:

- Cold and warm roof applications

Material

Permo® air is a strong 3 layer product consisting of UV stabilised PP fleece and a high performance Meltblown layer.

Colours

Outer surface- dark blue

Inner surface- grey

Roll sizes

50 x 1.0m (50m²)

50 x 1.5m (75m²)

Roll weights

50 x 1.0m 8.6 kg

50 x 1.5m 13 kg

Packaging

20 rolls/pallet

Product codes

50m x 1.0m KU0045-1

50m x 1.5m KU0045-15



Permo® air is the most breathable air open low resistance underlay on the market. It is the ideal solution where there is a high risk of condensation forming in the roofspace.



Installation

Permo® air should be laid in accordance with our installation details and BBA certificates.

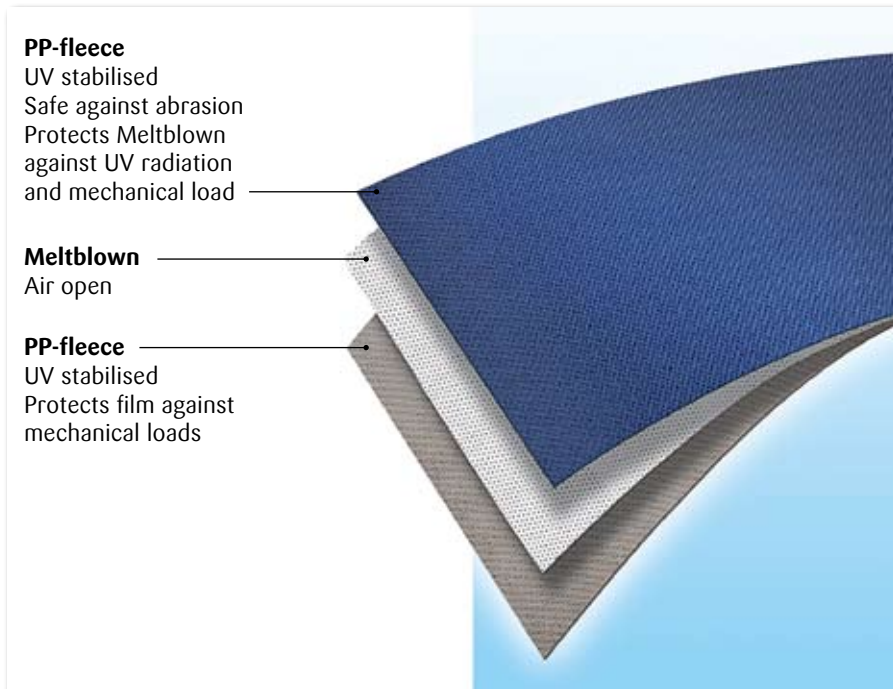
Advantages of air open underlays

Extremely humid roof conditions can be a result out of:

1. Climate (Extreme regional weather conditions - e.g very cold)
2. New buildings with high levels of construction material moisture
3. Weak spots in the insulation
4. High level of moisture due to behaviour of house owner

If all these aspects come together or if single ones reach a critical level, high levels of ventilation are an essential requirement to prevent condensation.

Permo® air



PP-fleece

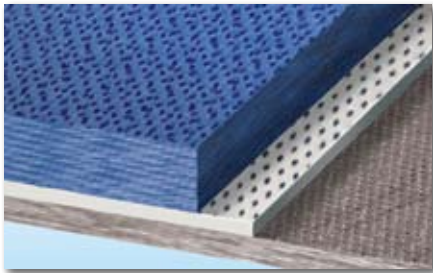
UV stabilised
Safe against abrasion
Protects Meltblown
against UV radiation
and mechanical load

Meltblown

Air open

PP-fleece

UV stabilised
Protects film against
mechanical loads



3-layer product with high performance
Meltblown layer
UV stabilised



Air open performance
Highest vapour transmission as air open

KLOBER

Certifications

CE certified



Related products

To protect the Permo® air at the eaves and to prevent ponding, Underlay Support Trays are available along with a range of adhesive tapes. Eaves closers are available for counterbattened roof structures.

Wallint® 10 eco vapour control layer

Technical data

Technical data	BBA
Thickness	0.85 mm
Weight, EN 1849-2	160 g/m ²
Water vapour transmission s _d -Value, BS 3177	2736 g/m ² /day
Water vapour resistance, BS 3177	0.08 MNs/g
Resistance to water penetration, EN 1928	W ₁
Resistance to air penetration/wind loads	>2.5 kPa
Tensile strength longitudinal, BS EN 12311-1	366 N/5cm
Tensile strength transverse, BS EN 12311-1	252 N/5cm
Resistance to tearing (nail shank) longitudinal, BS EN 12310-1	230 N
Resistance to tearing (nail shank) transverse, BS EN 12310-1	282 N
Reaction to fire, EN 13501-1, EN 11925-2	E
Resistance to temperature	-40°C to + 80°C
UV exposure, EN 13859-1	4 months