

Permo<sup>®</sup> sec metal is a vapour permeable waterproofing barrier that is installed as a separating layer between copper, zinc, aluminium and stainless steel standing seam roof finishes and the supporting deck.

### Product features & benefits

- Covers irregularities within roof deck that could de-form metal roof covering
- Fully waterproof secondary barrier to moisture penetration
- Fully vapour permeable
- Acoustic value of 8db helps reduce the transmission of external structure borne sounds eg rain hammer
- Will not bond with the underside of the outer covering in hot conditions
- Allows movement between the outer covering and the structural deck
- Prevents condensation that occurs on the underside of the metal roof covering from re-entering the roof structure. Any build-up of moisture between the outer metal roof covering and the Permo<sup>®</sup> sec metal will be channelled safely to the eaves due to the nature of the 8mm mesh outer layer
- Offers protection against external moisture that may penetrate the outer roof covering
- Provides an air space below zinc coverings to allow protective oxidation to form
- Can be used as a temporary water proofing barrier. However, it is recommended that the outer covering is applied as quickly as possible

### Area of application

Suitable for:

- Roof pitches over 3°
- Can be laid over rigid insulation or timber boarding

### Material

Outer layer of polypropylene mesh bonded to a vapour permeable membrane. 4 layer fleece foil combination of polyolefin, hydrophobic treatment and PP monofilament mesh.

### Roll sizes / Roll weight / Packaging

25 x 1.5m (37,5m<sup>2</sup>) / 14.5 kg / 4 rolls/pallet

### Product code

KU 0020-04

### Related products

Adhesive tapes for sealing and repairing

## TECHNICAL DATA

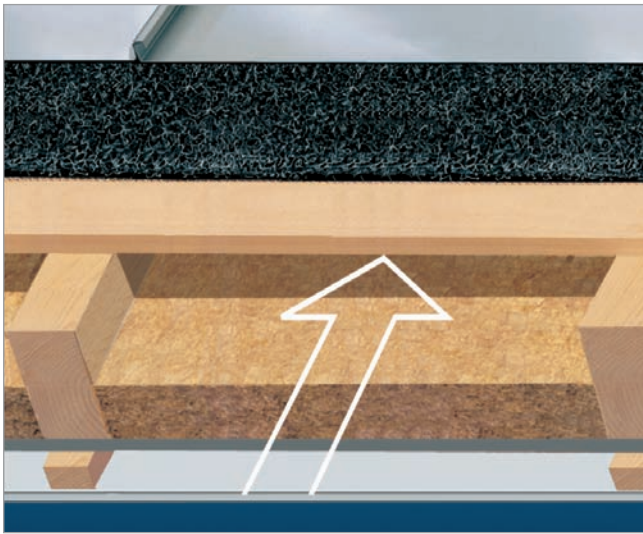
Weight	390g/m <sup>2</sup>	
Thickness	8.5mm	
Water vapour transmission EN 12572 (s <sub>d</sub> value)	0.03m	
Water column, EN 20811	> 3000mm	
Resistance to water penetration EN 1928	W1	
Resistance to air penetration	< 0.1m <sup>3</sup> /m <sup>2</sup> h 50 Pa	
Tensile strength longitudinal / transverse EN 12311-1	275N/50mm	230N/50mm
Elongation longitudinal / transverse EN 12311-1	60%	70%
Resistance to tearing (nail shank) longitudinal / transverse EN 12310-1	170N	185N
Reaction to fire EN 13501-1, EN 11925-2	E	
Resistance to temperature	-30°C to +80°C	
Melting point	>200°C	
Acoustic damping value	8db	
UV exposure EN 13859-1)	4 months	

TS-09#07-UK-01 14. We assume no liability for typing errors.

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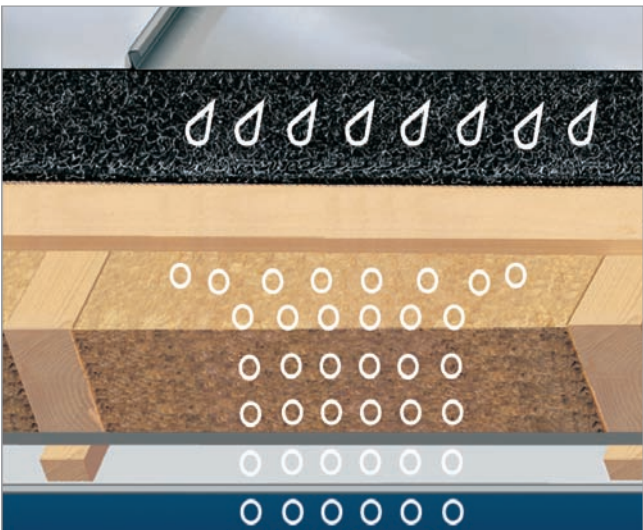
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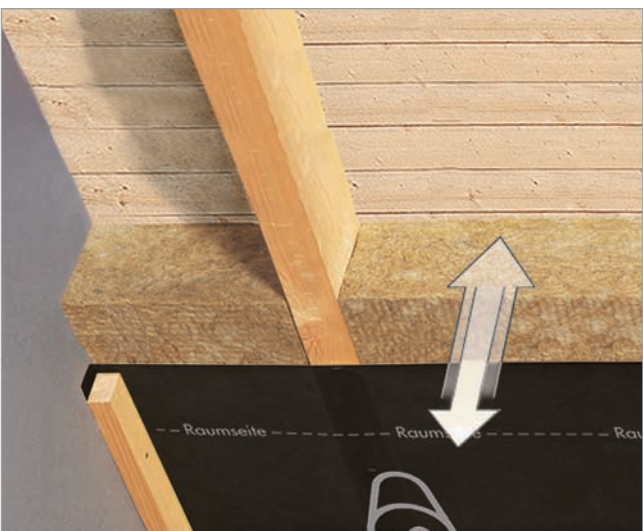
### Ventilated metal roof

- Partial fill insulation
- If ply wood or OSB is used as the timber support deck, the space below must be ventilated in accordance with BS5250: 2002
- Ventilation is not required if 150mm wide timber boards with 2mm gaps between are used as the supporting deck
- We recommend that an air barrier/vapour control layer such as Wallint<sup>®</sup> 50 is installed on the warm side of the roof structure



### Un-ventilated metal roof

- The insulation is either installed on top of the rafters or in-between fully filling the depth of rafter
- Timber boards 150mm wide with 2mm gaps between each board must be used if the insulation is installed between the rafters
- Ply wood or OSB boards can be used if the insulation is installed on top of the rafters
- We recommend that an air barrier/ vapour control layer such as Wallint<sup>®</sup> 50 is installed on the warm side of the roof structure



### Vapour Control

- Wallint<sup>®</sup> 50 is an air barrier/ vapour control layer that is installed on the warm side of the construction and will prevent large volumes of water vapour from entering the roof structure from the inside, particularly during the drying out stage of a new building development. Full sealing at laps and abutments is necessary using Klobber adhesives.

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