

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 sec 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. 5 layer fleece foil combination of polyolefin, hydrophobic treatment and PP monofilament mesh.

Colours

Outer surface - anthracite
Inner surface - white

Roll sizes

25 x 1.5m (37.5m²)

Roll weight

21 kg

Packaging

4 rolls/pallet

Product codes

KU0027

Certifications

CE certified

Related products

Adhesive tapes for sealing and repairing



Permo® sec 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.

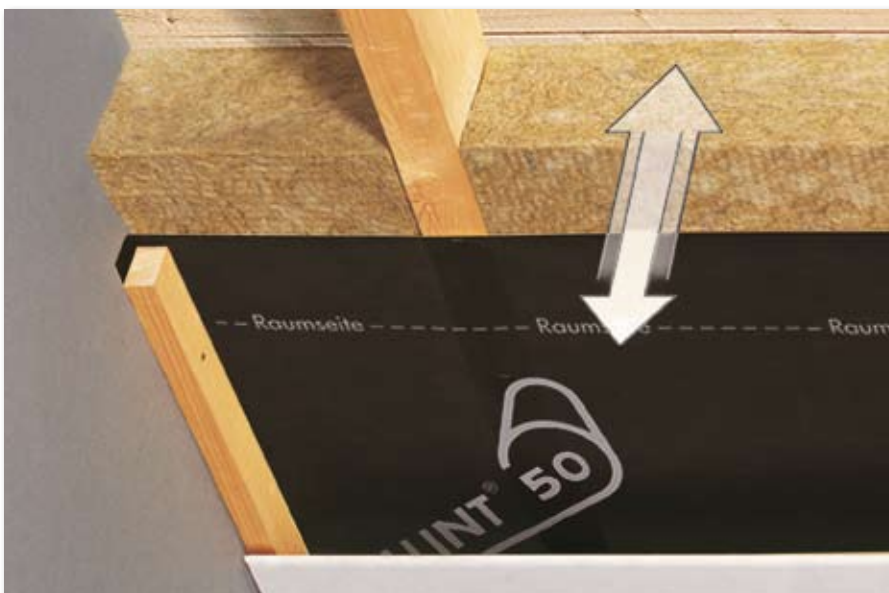
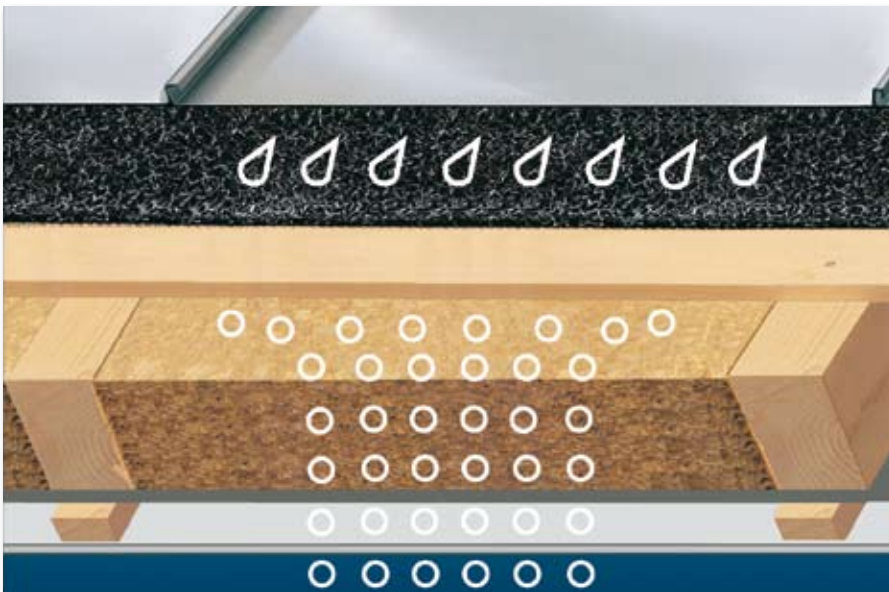
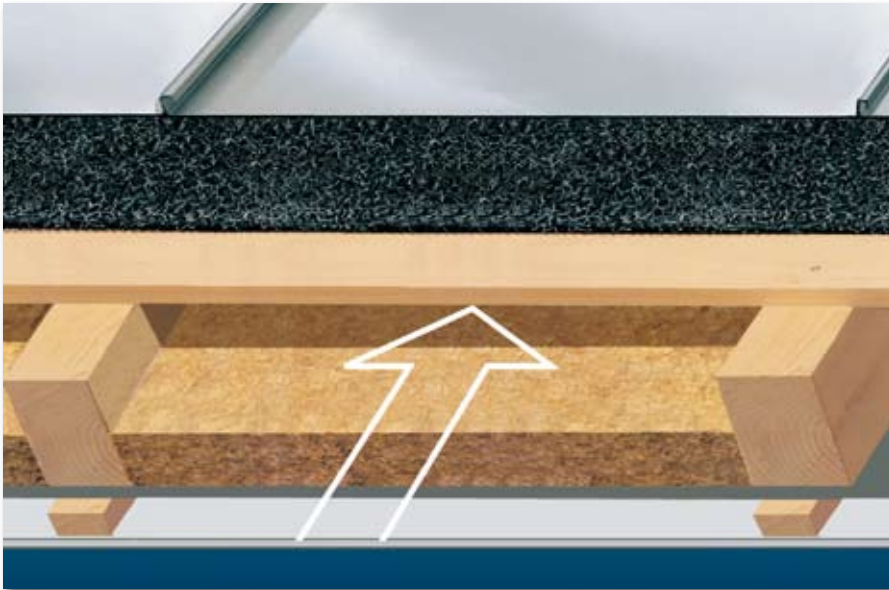


Installation

The product is laid between the timber deck/insulation and the outer metal roof covering and can either be laid horizontally or vertically and is fixed using non-ferrous staples or flat head clout nails on the overlap. Permo® sec should be laid in accordance with our full installation instructions.

Technical data

Technical data	CE
Thickness	8.5 mm
Weight, EN 1849-2	550 g/m ²
Water vapour transmission s _d -Value, EN 12572	0,03 m
Water column, EN 20811	>3000 mm
Resistance to water penetration, EN 1928	W1
Resistance to air penetration	<0,1 m ³ /m ² h 50 Pa
Tensile strength longitudinal, EN 12311-1	320 N/5cm
Tensile strength transverse, EN 12311-1	290 N/5cm
Elongation longitudinal, EN 12311-1	5%
Elongation transverse, EN 12311-1	5%
Resistance to tearing (nail shank) longitudinal, EN 12310-1	280 N
Resistance to tearing (nail shank) transverse, EN 12310-1	340 N
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



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® 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 inbetween 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® 50 is installed on the warm side of the roof structure

Vapour Control

- Wallint® 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 Klober adhesives.