

Low Thermal Load Vapour Barrier POLYFIN Alu SK D



One-sided self-adhesive vapour barrier made of rear-resistant reinforced aluminium laminated film

- CE-Certification acc. to DIN EN 13984
- Meets requirements to DIN 18234 "Structural Fire Protection of large Roofs"
- Walkable and highly resistant to perforation (foot traffic) even if bonded on trapezoidal metal sheets
- Easy and quick installation
- Low weight

Technical Features:

Top layer	Gewebeverstärkte Aluminiumverbundfolie
Bottom layer	Selbstklebebeschichtung mit Folienabdeckung
Calorific value	< 10.500 kJ/m ²
Heating value	< 11.600 kJ/m ²

Watertightness	DIN EN 1928	pass
Water vapour permeability	DIN EN 1931	Sd-value ≥ 1500 m
Reaction to fire	DIN EN 13501-1	class E
Tear resistance	DIN EN 12310-1	longitudinal: ≥ 100 N transversal: ≥ 120 N
Tear resistance (nail shank)	DIN EN 12310-2	longitudinal: ≥ 250 N transversal: ≥ 250 N
Shear resistance of the bonded seam, at 10 cm overlapping	DIN EN 12317-2	≥ 350 N/50mm
Tensile strength and elongation	DIN EN 12311-2	Highest tensile strength
		Longitudinal: > 500 N/50 mm
		Transversal: > 350 N/50 mm
		Elongation at highest tensile force:
		Longitudinal: > 20 % Transversal: > 15 %
Resistance against artificial ageing	DIN EN 1296 DIN EN 1931	pass
Length	DIN EN 1848-2	80 m
Width	DIN EN 1848-2	1,50 m
Thickness	DIN EN 1849-2	0,2 mm
Mass per area unit	DIN EN 1849-2	approx. 150 g/m ²
Geradheit	DIN EN 1848-2	≤ 75 mm/10m

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Packing unit

Weight approx. 26 kg / roll
Pallet unit 20 rolls / pallet

Extended product description:

The product is a vapour barrier according to DIN 18234 under subsequent load or mechanically fastened. The product is a multi-layer aluminum composite product consisting of: fabric, coating, pure aluminum foil and a synthetic adhesive that is covered by a release liner. In order to guarantee an adhesive application of 150 cm width without the emerging adhesive sticking to the edge of the web, the composite of fabric and aluminum is always 1-3 cm wider than 150 cm. In order to be removed easily and safely, the release liner is even wider. The top fabric is highly UV stable and extremely tear-resistant and consists of equally strong weft and warp threads. Due to the weaving process, the weft and warp threads can slip; these so-called web errors are not critical. In the event of any major weaving defects, these are sealed on the top of the fabric with a fabric tape, so that the strength values are ensured. A self-adhesive is applied to the bottom, which considerably facilitates the processing of the vapour barrier and acts as an assembly aid.

Storage:

- The product should only be stored cool and dry in UV protected areas.
- At the construction site, the rolls have to be protected against moisture, rain and direct sunlight before installation.
- The material can be stored in closed, original packaging in dry, well-ventilated, light-protected rooms at a constant temperature of 20 ° C for approx. 12 months.

Scope of application:

It has to be ensured that a weathering period (after installation) of 6 weeks within Europe (+ Turkey) is demonstrably not exceeded.

- The vapour barrier is not suitable as an emergency roof and has to be protected against permanent UV exposure.
- Approved for use under load and mechanically fastened. When processing and executing the relevant standards, technical rules, compliance with the requirements of the EnEV and other applicable requirements have to be observed in the latest version.

Installation instructions and general conditions:

- The vapour barrier can not reliably be bonded at temperatures below + 5 ° C.
- The surface has to be checked for unevenness, loose areas, contamination, wetness, oils as well as for grease and has to be ice free - if necessary, these have to be removed. It is essential to carry out an adhesive test. The processing temperatures have to be observed.
- The specified installation temperatures must be observed. To improve the adhesive bond in borderline situations, it can be helpful to use commercially available adhesion promoters (primers).
- Pull out the cover film starting from an aligned first fastening perpendicular to the direction of installation. In the bonding process, pull off the cover film vertically and press the self-adhesive sheet onto the surface with simultaneous surface pressure (ideally with a 5 kg roller). It is important to ensure that the vapour barrier is laid in the center of the overlap and without tension and wrinkles. Alternatively, remove the masking tape along the cross direction 5 - 10 cm. Attach and then pull off the masking tape under the roller in the direction of installation. At the same time, press the web onto the surface with the appropriate surface pressure.
- Roll out the following layers approx. 10 -15 cm overlapping in the layer offset (scale-like), align, press and fix to the surface with the appropriate surface pressure. On trapezoidal profiles, the web must be laid parallel to the top chords in the tensioning direction. The longitudinal seam must lie on an upper chord.
- The transversal seam can be placed on a temporary auxiliary layer e.g. be made from sheet metal strips. In the case of cross joints, an overlap of at least 15 cm must be maintained and pressed and fixed to the surface by appropriate surface pressure.
- To create connections and terminations on rising components such as parapets or other roof penetrations, the vapour barrier has to be installed with a separate connection strip at least up to the upper edge of the thermal insulation and adhered to the upper edge and airtight on the substrate in accordance with DIN 18531 and the technical rule.
- All injuries or damage to the vapour barrier have to be sealed airtight with additional vapour barrier cuts or suitable adhesive tape.