

# Low Thermal Load Vapour Barrier

## POLYFIN Alu SK D

**One-sided self-adhesive vapour barrier made of tear-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 penetration (foot wear) even if bonded on trapezoidal metal sheets
- Easy and quick application
- Low weight

### Technical Features:

Top layer:	Reinforced aluminium laminated film
Bottom layer:	Self-adhesive coating with film cover
Heat value:	< 10500 kJ/m <sup>2</sup>

Water tightness	DIN EN 1928	Passed
Water vapour permeability	DIN EN 1931	Sd-value ≥ 1500 m
Reaction to fire	DIN EN 13501-1	Class E
Nail tear resistance	DIN EN 12310-2	Longitudinal: ≥ 250 N Transversal: ≥ 250 N
Tear Resistance	DIN EN 12310-1	Longitudinal: ≥ 100 N Transversal: ≥ 120 N
Joint shear resistance	DIN EN 12317-2	≥ 350 N/50 mm
Tensile strength	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 %
Length	DIN EN 1848-2	80 m
Width	DIN EN 1848-2	1.50 m
Mass per area	DIN EN 1849-2	150 g/m <sup>2</sup> +/- 10%

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### Packing Unit:

Roll width:	1,50 m
Roll length:	80 m
Weight:	26 kg / roll
Packing unit:	20 rolls / palette

### Installation instructions:

The track can be used in the roof package as vapour barrier according to DIN 18234 and later applied ballast or with mechanical fixing. The self - adhesive application serves exclusively the mounting aid.

- 1) The substrate is applied to bumps, loose spots, impurities, moisture, oils as well To check for fats and ice-freeness and, if necessary, to remove them. The implementation of a Adhesive testing is indispensable. The processing temperatures must be observed too.
- 2) In order to improve the adhesive bond, it may be necessary to use commercially available primers .
- 3) For the surface bonding, the vapour barrier is at a corner (approx. 20-30 cm) from the cover film to release and prefix. After the first fixation, roll out the sheet and align.
- 4) Pull off the cover film from the first attachment perpendicular to the laying direction. In the bonding process, peel off the cover sheet vertically and apply it simultaneously (ideal with a 5 kg roller) press the self-adhesive membrane onto the substrate. It is to ensure that the vapour barrier is centered with the overlap and laid without tension.
- 5) As an alternative to 4), free membrane along the transverse direction 5-10 cm from the cover tape. Then attach the cover strip under the roller in the direction of the laying.
- At the same time press the membrane with corresponding surface pressure onto the substrate.
- 6) Roll out the following layers overlapping approximately 10-15 cm in the layer offset (scale-shaped) And press them against the substrate by means of appropriate surface pressure. On trapezoidal profiles, the web must be laid parallel to the upper corrugation in the tensioning direction. The longitudinal seam must be placed on an upper corrugation.
- 7) The transverse seam can be placed on a temporary auxiliary support e.g. made of sheet metal strips become. In the case of transverse impacts, an overlap of at least 15 cm must be maintained and through corresponding surface pressure to the substrate.
- 8) Connections and flashing on up stands or penetrations such as parapets or other roof penetrations are to be raised at least to the upper edge of the insulation and to be airtight with adhesive tapes to close.
- 9) Cut the membrane crosswise for pipe penetrations. Subsequently, by means of a Cuff the strip at least at the thickness of the insulation thickness. The penetrating Pipe is then sealed with the adhesive tape airtight.
- 10) Connection to roof lights is to be sealed using an adhesive tape in accordance with the state of the art
- 11) All injuries or damage to the vapour barrier are airtight with an adhesive tape to seal.
- 12) Approved for use under load and mechanical fixing.

The relevant standards, technical regulations and adherence to the requirements of national energy saving regulations or laws in the latest version must be observed in the processing and execution. The processing temperature of + 5 ° C should not be undershot.