



8017/102-02

Polyfin Alu SK D Top

Product	<p>Low fire load vapor barrier.</p> <p>One-sided self-adhesive vapor barrier made of tear-resistant, fabric-reinforced aluminum composite foil for use in flat roof structures</p> <p>Calorific value (thermal): < 10,500 kJ/m²</p> <p>Calorific value (burning): < 11,600 kJ/m²</p> <ul style="list-style-type: none"> • CE certification in accordance with DIN EN 13984 • Meets the requirements of DIN 18234 "Structural fire protection of large-surface roofs". • Can be walked on and is highly penetration-resistant, even when bonded to trapezoidal sheets • Quick and easy installation • Low weight per unit area
Top side	Special Aluminium composite
Bottom side	Full adhesive (peel-off-foil)
Standard	EN 13984, DIN 18234-1
Packaging	53 rolls of 50 m x 1.58m = 4187 m ² per pallet
Properties	<ul style="list-style-type: none"> • Finger lift on both sides • Quick and easy installation due to width of 1.58 m • Ready for use from +5 °C • High tear resistance • Self-adhesive over the entire surface • High resistance to penetration due to scrim insert and laminated aluminum composite film • Durable and robust • Heating value / calorific value: ≤ 10,500 kJ/m² / ≤ 11,600 kJ/m² • Fire behavior: Class E • Vapor-tight (SD value: ≥ 1,500 m)
Product description	<p>Polyfin Alu SK D Top is a flexible, one-sided self-adhesive and low fire load vapor barrier with reinforced scrim and aluminum composite.</p> <p>The product meets the requirements of DIN 18234 for structural fire protection for large-area roofs. The calorific value (heating) is less than 10,500 kJ/m², the calorific value (burning) is below 11,600 kJ/m².</p> <p>The special feature of Polyfin Alu SK D Top is the unique finger lift on both sides. It makes it easier to work with gloves and ensures greater greater work efficiency.</p>
Range of application	<p>Suitable as a low-fire load vapor barrier on flat roof constructions with trapezoidal steel sheet support deck, where increased fire protection requirements are stipulated by law.</p> <p>Can be laid exposed to the weather for up to max. 4 weeks. A minimum gradient of 2 % is required.</p>

Processing

- At temperatures below +5°C, the vapor barrier can no longer be reliably bonded.
- The substrate must be checked for unevenness, loose areas, dirt, moisture, oil, grease and ice.
- If necessary, these must be removed. It is essential to carry out a bonding test. The processing temperatures must be adhered to.
- The specified processing temperatures must be adhered to. To improve the adhesive bond in extreme situations, it may be helpful to use commercially available adhesion promoters.
- No primer is required on plastic-coated trapezoidal steel profiles.
- The vapor barrier must be bonded parallel to the trapezoidal sheet top chords by removing the protective film on the underside.
- The longitudinal seams must be bonded to the top chords.
- The transverse seam can be produced on a temporary auxiliary support, e.g. made of sheet metal strips. For transverse seams, an overlap of at least 15 cm must be maintained and pressed and fixed to the substrate using appropriate surface pressure. The transverse seams must also be tightly sealed
- Longitudinal and transverse seams must be sealed with a minimum width of 8 cm by rolling with a 4 cm wide pressure roller.
- Press the membrane onto the substrate with the appropriate surface pressure.
- At connections and terminations to rising components such as parapets or other roof penetrations, the vapor barrier must be run up to at least the upper edge of the thermal insulation using a separate connecting strip and adhered to the substrate in an airtight manner up to the upper edge in accordance with DIN 18531 and the technical regulations.
- All breaches or damage to the vapor barrier must be sealed airtight with additional vapor barrier cuts or a suitable adhesive tape.

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

Characteristics	Testing method	Unit	Result
Length	EN 1848-2	m	50 +/- 2%
Width	EN 1848-2	m	1,58
Straightness	EN 1848-2	mm/10m	≤ 75
Thickness	EN 1849-2	mm	0,2
Fire classification	EN 13501-1	Klasse	E
Mass per unit area	EN 1849-2	g/m ²	ca. 150
Water vapour transmission after artificial aging	EN 1931		passed
Watertightness (Verf. B)	EN 1928		passed
Resistance to tearing (long./trans.)	EN 12310-1	N	≥ 100 / ≥ 120
Shear resistance of joints long./trans.	EN 12317-2	N/50mm	≥ 150
Water vapour transmission	EN 1931	S _d	> 1500 m
Tensile force long./trans.	EN 12311-2	N/50mm	> 250 / > 250
Elongation at single-end breaking force	EN 12311-2	%	> 10 / > 10
UV-resistance	EN 1296/EN 1931		passed
Resistance to tearing (nail shank)	EN 12310-1	N	≥ 70 / ≥ 80

The declared data are indices based on the statistical quality control and refer to the date of production. Consider state of the art, standards, legal provisions and guidelines for the suitability of the mentioned field of application and application method. All specifications are without obligation. The user must assess the suitability of the product for the particular purpose and ensure the user's access to the current version of the product data sheet.

Subject to alteration without notice.

Storage conditions: The products have to be stored in original packaging, being protected from direct sun light, UV-beams and extreme conditions like heat, frost, moisture, etc. During cold season store the products in a frost-free area (+5°C) for 12 hours before application.

Development, Production and Sales of our products according to ISO 9001.