

ALUJET Optima FDSK

Product description

- ▶ The ALUJET Optima FDSK is a fully self-adhesive vapour barrier designed for use on trapezoidal and flat roofs. Both the specifications of DIN 4108-7 as well as DIN 18234-1 and 2 are fulfilled. The aluminium composite has created a membrane that is ideal for large areas thanks to its low weight, width of 1.50 m and high tear resistance.

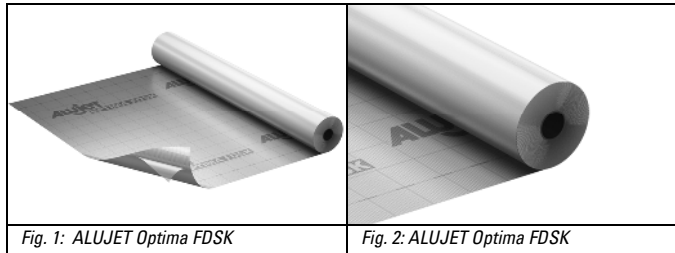


Fig. 1: ALUJET Optima FDSK

Fig. 2: ALUJET Optima FDSK

Product-benefits

- ▶ Full-surface self-adhesive; high tear resistance; high cover width; fast processing of large areas as there are fewer cross joints; E according to EN 13501-1; calorific value <10,500 kJ/m²; vapour-tight (sd value >1,500 m), reduced fire load.

Area of application

- ▶ The ALUJET Optima FDSK is designed for use on flat roofs with trapezoidal sheet metal, OSB, smooth wood or concrete*.

*with bitumen primer

Specification

Width:	1.500 mm
Length:	50 m
Roll content:	75 m ²

Technical data

Test	Standard	Unit	Value
Weight / mass	EN 1848-2	g / m ²	138 ±7
Material thickness including adhesive equipment		mm	approx. 0,17
Reaction to fire	EN 13501-1	---	E
calorific value	DIN EN ISO 1716	kJ/m ²	< 10.500
Processing temperature		°C	from +5
Watertightness against water in liquid form	EN 1928	2 kPa	passed
Sd-Value	EN 1931	m	≥ 1.500 m
Tensile elongation longitudinal	EN12311-2	N / 50 mm	> 500
Tensile elongation transversal	EN12311-2	N / 50 mm	> 500
Elongation longitudinal	EN12311-2	%	> 10
Elongation transversal	EN12311-2	%	> 10
Tear resistance longitudinal	EN12310-1	N	> 250
Tear resistance transversal	EN12310-1	N	> 250
Resistance to impact load	EN 12691	mm	>2000
Durability against artificial ageing	EN 1296 / EN 1928		passed
Resistance to alkalis	EB 1847 / EN 1928		passed
Resistance to static load	EN 12730	kg	>20
Outdoor weathering		weeks	4
Emergency sealing / temporary roofing		weeks	4

Processing

▶ ALUJET Optima FDSK is used for flat roofs on profiled sheets, smooth wood, OSB or concrete*. In the case of profiled sheets, it must be ensured that the membrane is laid parallel to the top chords. Transverse and longitudinal joints must have an overlap of at least 8 cm. After removing the release liner, the ALUJET Optima FDSK must be pressed onto the top chords. Due to the full-surface self-adhesive finish, no additional adhesive tapes are required for overlap bonding. Damaged areas can be repaired directly with the ALUJET Optima FDSK. To avoid incorrect adhesion, ALUJET Optima FDSK must be laid without tensile and shear forces. The substrate must be dry, free of dust and grease.

A roof pitch of at least 2% is required for use as emergency waterproofing / temporary covering. Emergency drainage/sufficient roof drainage must be planned. Emergency and temporary waterproofing with ALUJET Optima FDSK must be agreed separately with the client if necessary. The basis for processing ALUJET Optima FDSK is mechanical fastening or installation under ballast.

*with bitumen primer

Storage

▶ Without exposure to UV radiation, this could permanently reduce the properties of the material.

DGNB

▶ The product qualifies for use in all DGNB new-build projects up to the highest "Platinum" award level. This is confirmed by the independent Sentinel Haus Institute, which has tested the product in accordance with the requirements of DGNB specification ENV1.2 "Risks to the local environment" (version 2023). Due to the very good product properties with regard to the pollutant content, no additional verification documents are required for DGNB certification.

Notes



Our instructions for use, guidelines for use, product and service information and other technical specifications only serve as a guide, they only describe the properties of our products (value specifications/determinations at time of production) and services and do not constitute guaranteed characteristics. Owing to the wide-ranging areas of application of the individual products and the particular conditions (e.g. usage parameters, material properties etc.), it is incumbent on the user to test our products. Our applications engineering consulting - whether verbal, in writing or by way of tests is offered free of charge and is not legally binding.