

## ALUJET Optima BLU

### Product description

- ▶ ALUJET Optima BLU is a 6-layer virtually vapour-tight composite aluminium foil for use on roofs. The requirements of DIN 4108-7 and DIN 18234-1+2 are met through the use of extremely high-quality raw materials. In addition, the combination material with a thickness of approximately 0.12 mm gives a very high degree of flexibility and extremely high tear strength.

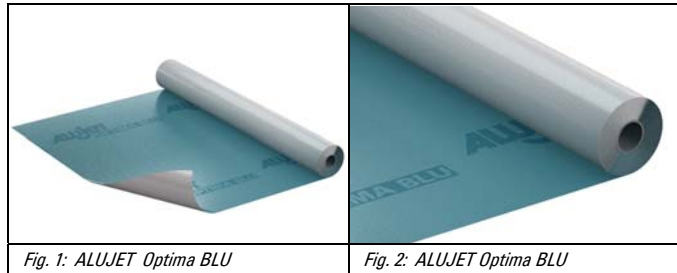


Fig. 1: ALUJET Optima BLU

Fig. 2: ALUJET Optima BLU

### Product benefits

- ▶ B2 according to DIN 4102; E according to DIN EN 13501-1; Walkable; Low fire load; calorific value <10.500 kJ/m<sup>2</sup>; impervious to vapours(Sd Value > 1.500 m); glare protection; impervious to radon; alkali resistant on both sides.

### Area of application

- ▶ Suitable for laying on flat roofs; suitable for laying on trapezoidal sheeting; suitable for laying on the warm side of pitched roofs.

### Technical data

Prüfung	Norm	Einheit	Wert
Reaction to fire	EN 13501-1 / EN 11925-2	---	E
Reaction to fire	DIN 4102	---	B2
Weight / mass	EN 1848-2	g / m <sup>2</sup>	ca. 196
Calorific value		kJ/m <sup>2</sup>	< 10.500
Temperature resistance		°C	-40 bis +80
Sd-Value	EN 12572 / EN 1931	m	≥ 1.500
Tensile elongation longitudinal	EN12311-1 / EN 13859-1	N / mm <sup>2</sup>	> 400
Tensile elongation transversal	EN12311-1 / EN 13859-1	N / mm <sup>2</sup>	> 400
Tear resistance longitudinal	EN 12310-1	N	> 300
Tear resistance transversal	EN 12310-1	N	> 300
Elongation longitudinal	EN12311-1 / EN 13859-1	%	> 10
Elongation transversal	EN12311-1 / EN 13859-1	%	> 10
Resistance to water passage	EN 1928	---	W1
Water vapor permeability	DIN EN 12572	g/m <sup>2</sup> d	< 0,01
emission factor		---	0,56

### Specification

- ▶ Width: 1.500 mm      1.000 m
- ▶ Roll content: 100 m<sup>2</sup>      66 m<sup>2</sup>
- ▶ Pallet content: 50 Rollen      50 Rollen

### Storage

- ▶ Without exposure to UV radiation. This could permanently reduce the properties of the material.

**Processing**

► Flat roof:

The ALUJET Optima BLU is laid parallel to the crowns of the profiled sheet. Side laps and end laps are arranged with an overlap of at least 8 cm. It is possible to fix the membrane to the substrate with the double-sided adhesive tape ALUJET Super PE or ALUJET Super PE Plus.

The overlaps are bonded on the crown by applying the ALUJET Super PE or ALUJET Super PE Plus tape between the overlapping membranes using rollers or through compression.

Damaged areas are taped over using the A2-Tape. To prevent faulty bonds, the ALUJET Optima BLU is applied without tensile and shearing forces. The ALUJET Optima BLU does not meet temporary sealing requirements.

Pitched roof:

The ALUJET Optima BLU is laid parallel to the rafters and fixed to the rafters using staples. The overlaps must be bonded by taping over the rafters. The first layer of the ALUJET Optima BLU is fixed onto the rafters.

The overlaps are taped over with the ALUJET Super PE or ALUJET Super PE Plus. To execute the mechanical bond, the overlapping membrane is also fixed by stapling over the adhesive tape.

The overlap is taped over with the ALUJET A2 Tape 1517 to produce a vapour barrier. The remaining stapled points or damaged areas are also taped over using the ALUJET A2 Tape 1517, producing a vapour barrier. Joints on existing components must be plastered. The base attachment is executed using the ALUJET Dichttjet before plastering is done. Penetrations are sealed by applying the A2 Tape 1517 on the ALUJET Optima BLU in the form of shingles.

**System components**

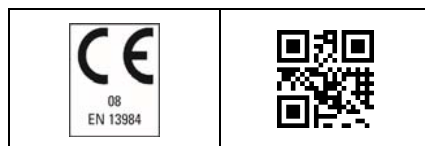
► Flat roof:

ALUJET Super PE; ALUJET Butyltape; ALUJET Allfixx.

Pitched roof:

ALUJET Super PE; ALUJET A2 Tape 1517; ALUJET Dichttjet.

**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.