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Authorised and notified according to Article 29 of the Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011

European Technical Assessment ETA-18/0444 of 2018/05/28

I General Part

Technical Assessment Body issuing the ETA and designated according to Article 29 of the Regulation (EU) No 305/2011: ETA-Danmark A/S

Trade name of the construction product:	ALUJET Rooftop BLUE
Product family to which the above construction product belongs:	Membrane for use as roof underlay
Manufacturer:	ALUJET GmbH Ahornstraße 16, DE-82291 Mammendorf Telefon: + 49 8145 921200 Fax: + 49 8145 921222 Internet: www.alujet.de
Manufacturing plant:	ALUJET GmbH Manufacturing Plant II
This European Technical Assessment contains:	6 pages
This European Technical Assessment is issued in accordance with Regulation (EU) No 305/2011, on the basis of:	EAD 030218-00-0402 - Membrane for use as roof underlay
This version replaces:	

II SPECIFIC PART OF THE EUROPEAN TECHNICAL ASSESSMENT

1 Technical description of product and intended use

Technical description of the product
General
The membranes consist of multilayer flexible sheets. They are diffusion open membranes with increased UV resistance, perforation resistance, resistance to water pressure and tightness of perforations from nails and screws.

The membranes consist of a polyester and a multi-acrylate coating.

Designation **Characteristics**	**ALUJET Rooftop BLUE**
Composition	Unwoven polyester / Multi-acrylate coating
Total weight	220 g/m^2
Minimum slope	≥ 14°
Assembly method in overlaps	Gluing

The roof underlay membranes are fastened to the timber joists with nails or screws. The counter-battens must lay flat on the pressure-resistant substrate and be fixed with sufficient contact pressure, in this case, no additional nail sealing material is necessary.

In case the counter-battens are not laid flat on the pressure-resistant substrate, the nails and screw holes have to become waterproof by using the nail sealing tape ALUJET Nageldichtung PE.

The roofing membrane is installed with specified Aulujet accesories. Connection details are made with the adhesive tape Thermo-Flex tape or Flextape Uni and the adhesive Thermo - Kleb +Dicht.

2 Specification of the intended use in accordance with the applicable EAD

The membranes are intended for use as underlays, which are to be used under roof covering of roofs with roof pitch from 14° to 90°.

The membranes are intended to be used in high altitude and to be exposed to weathering (UV, rain) for a defined extended period of time up to 3 months.

The provisions made in this European Technical Assessment are based on an assumed intended working life of the roof underlay of 10 years.

The indications given on the working life cannot be interpreted as a guarantee given by the producer or Assessment Body, but are to be regarded only as a means for choosing the right products in relation to the expected economically reasonable working life of the works.

3 Performance of the product and references to the methods used for its assessment

Characteristic	Assessment of characteristic

3.2 Safety in case of fire (BWR2)

Reaction to fire

The membranes obtain the following classification in accordance with EN 13501-1 and Delegated Regulation 2016/364

Designation	ALUJET Rooftop BLUE
Class	**E**
End use condition	With any A1 or A2-s1,d0 class substrate with a density ≥ 652 kg/m3, and metal and mineral substrates

3.3 Hygiene, health and the environment (BWR3)

Resistance to water penetration

W1 according to 13859-1

Water vapour transmission

Sd = 0,139 m

Tensile properties

Designation / Characteristics	ALUJET Rooftop BLUE
Tensile properties	
Longitudinal, initial	Mean value: F_{max} = 450 N/50mm Elongation: 25%
Longitudinal, aged	Mean value: F_{max} > 90% of unaged Elongation: > 75 % of unaged
Transverse, initial	Mean value: F_{max} = 290 N/50mm Elongation: 60%
Transverse, aged	Fmax > 90% of unaged Elongation: > 75 % of unaged

Resistance to tearing

Designation / Characteristics	ALUJET Rooftop BLUE
Resistance to tearing	
Longitudinal, initial	Mean value: F_{max} = 110 N/200 mm
Longitudinal, aged	NPA
Transverse, initial	Mean value: F_{max} = 130 N/200 mm
Transverse, aged	NPA

Resistance to perforation

No Performance assessed

Characteristic	Assessment of characteristic
Dimensional stability	**< 1 % both longitudinal and transverse**
Flexibility at low temperature	**$T_B \leq$ -40 °C**
Resistance to artificial ageing:	
UV resistance 5000h	**Requirement fulfilled after 336 h and after 5000 h UV exposure**
Exposure to heat	**See above**
Resistance to penetration of air	**< 0,1 m3/ (m2 × h × 50 Pa)**
Water tightness of seams	ALUJET Rooftop BLUE with including adhesive sealing tape adhesive tape ALUJET Difutape and ALUJET Allfixx. **The seams with 50 mm width are watertight at a water pressure of 2000 Pa (200 mm water column)**
Emissivity	No Performance Assessed
Tightness of perforations from nails and screws	1. The counter -battens must lay flat on the pressure-resistant substrate and fixed with sufficient contact pressure, in this case no additional nail sealing material is needed. 2. In case the counter-battens are not laid flat on the pressure-resistant substrate, the nails and screw holes have to become waterproof by using the nail sealing tape ALUJET Nageldichtung PE. **Heavy rain of 2 l / m² × min up to a wind pressure of 600 Pa.**

Aspects related to the performance of the product

The European Technical Assessment is issued for the product on the basis of agreed data/information, deposited with ETA-Danmark, which identifies the product that has been assessed and judged. Changes to the product or production process, which could result in this deposited data/information being incorrect, should be notified to ETA-Danmark before the changes are introduced. ETA-Danmark will decide whether or not such changes affect the ETA and consequently the validity of the CE marking on the basis of the ETA and if so whether further assessment or alterations to the ETA, shall be necessary.

The performance of the membranes results from the characteristic values and categories.

The supplementing statements of the manufacturer stated in the MTD for design and application of the membrane for creating a roof underlay with the appropriate performance shall be considered

The performance of the membranes in use as roof underlay can be assumed only, if the following aspects are considered:

- only those ancillary components which are specified by the ETA can be used,
- the appropriate tools shall be used and adjuvant, precautions shall be taken,
- inspecting the substrate surface for appropriateness and correct treatment,
- inspection in the process of establishing the roof underlay and of the finished installation and documentation of the results.

The information as to the handling of waste products shall be observed.

It is the manufacturer's responsibility to make sure that all those who utilize the membrane will be appropriately informed about the specific conditions according to this ETA and the not confidential parts of the MTD deposited to this ETA.

4 Attestation and verification of constancy of performance (AVCP)

4.1 AVCP system

According to the decision Decision 99/90/EC and 2001/596/EC of the European Commission as amended, the system(s) of assessment and verification of constancy of performance (see Annex V to Regulation (EU) No 305/2011) is 3.

5 Technical details necessary for the implementation of the AVCP system, as foreseen in the applicable EAD

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited at ETA-Danmark prior to CE marking.

Issued in Copenhagen on 2018-05-28 by

Thomas Bruun
Managing Director, ETA-Danmark