Deutsches Institut für Bautechnik

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European Technical Assessment Body for construction products

Designated in accordance with Article 39 of Regulation (EU) No 2024/3110 and member of EOTA (European Organisation for Technical Assessment)

European Technical Assessment ETA-26/0305 of 7 May 2026

English translation prepared by DIBt - Original version in German language

General Part

Technical Assessment Body issuing the European Technical Assessment:	Deutsches Institut für Bautechnik
Trade name of the construction product	Alfa Rufol Thermo ND 2.0 SK
Product family to which the construction product belongs	Membranes for use as roof and wall underlays
Manufacturer	Alfa GmbH Ferdinand-Porsche-Straße 10 73479 Ellwangen GERMANY
Manufacturing plant	Plant 734
This European Technical Assessment contains	8 pages including 3 annexes which form an integral part of this assessment
This European Technical Assessment is issued in accordance with Article 95(4) of Regulation (EU) 2024/3110, on the basis of	EAD 030218-01-0402

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Specific Part

1 Technical description of the product

"Alfa Rufol Thermo ND 2.0 SK" is a two-layer roof and wall underlay membrane, which consists of a polyester nonwoven (PET) with a vapour-permeable polyurethane coating (TPU) on the upper side.

The roof and wall underlay membranes can be provided with a factory-integrated self-adhesive strip along a longitudinal edge (integrated self-sealing edge).

The membranes do not contain any substances that are intended to inhibit or prevent root penetration (root protection agents) [1].

The roof and wall underlay membranes are fastened to the timber joists with nails or screws, e. g., by means of nailed or screwed counter battens.

For an adequate application of product – depending on the specific roof or facade design, e. g., roof slope, roof or wall built-up, details – other adjuvants may be needed, e. g., mastic sealant, adhesive tapes, nail-sealing tapes. These adjuvants are given in the manufacturer's technical documents[2].

An additional product description is given in Annex A.

2 Specification of the intended use in accordance with the applicable European Assessment Document

The membranes are intended for use as roof underlays under roof coverings of discontinuous roofs and as wall underlays, which are to be used in walls behind outside wall coverings in order to avoid penetration of wind and water from outside.

In the technical documents, the manufacturer gives information regarding the substrates, roof or wall constructions, roof or wall coverings, roof pitches, and exposure time to weathering for which the product is suitable.

The performance given in Section 3 is only valid if the underlay membranes are used in compliance with the specifications and conditions given in Annex B.

The verifications and assessment methods on which this European Technical Assessment is based lead to the assumption of a working life of the underlay membranes of at least 10 years. The indications given on the working life cannot be interpreted as a guarantee given by the producer, 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

3.1 Safety in case of fire (BWR 2)

Essential characteristic	Performance	
	Roof underlays	Wall underlays
Reaction to fire	See Annex A	
External fire performance of roofs	See Annex A	Not applicable

[1] Manufacturer's statement.

[2] The manufacturer's technical documents comprise all information necessary for the production and the installation of the product as well as for the repair and it is deposited with DIBt.

3.2 Hygiene, health and the environment (BWR 3)

Essential characteristic	Performance	
	Roof underlays	Wall underlays
Resistance to water penetration	See Annex A	
Water column resistance	See Annex A	
Water vapour transmission properties	See Annex A	
Tensile properties	See Annex A	
Resistance to tearing	See Annex A	
Hail resistance	See Annex A	Not applicable
Dimensional stability	See Annex A	
Flexibility at low temperature	See Annex A	
Resistance to penetration of air	See Annex A	
Water tightness of seams	See Annex A	
Emissivity	See Annex A	
Tightness of perforations from nails and screws	See Annex A	Not applicable
Content, emission and/or release of dangerous substances	See Annex A	Not applicable

3.3 Aspects of durability

Essential characteristic	Performance	
	Roof underlays	Wall underlays
Artificial ageing behaviour by exposure to combination of UV radiation (336 h) and elevated temperature and to heat	See Annex A	
High heat resistance	See Annex A	
Artificial ageing behaviour by exposure to combination of UV radiation (5000 h) and elevated temperature and to heat	See Annex A	
Artificial ageing behaviour by prolonged exposure to heat with accelerated air-speed 5±2 m/s	See Annex A	

4 Assessment and verification of constancy of performance (AVCP) system applied, with reference to its legal base

In accordance with EAD No. 030218-01-0402, the applicable European legal act is: Decision 1999/90/EC.

The system to be applied is: 3

In addition, with regard to reaction to fire for products covered by this EAD the applicable European legal act is: Decision 1999/90/EC, as amended by 2001/596/EC.

The system to be applied is: 3

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

Technical details necessary for the implementation of the AVCP system are laid down in the control plan deposited with Deutsches Institut für Bautechnik.

Issued in Berlin on 7 May 2026 by Deutsches Institut für Bautechnik

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Head of Section

beglaubigt:
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Deutsches Institut für Bautechnik DIBt

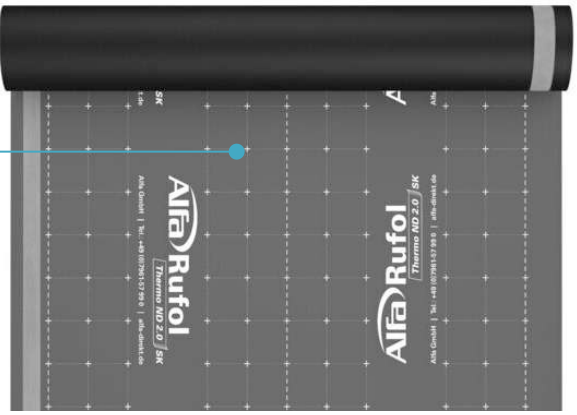
Description of the underlay membrane "Alfa Rufol Thermo ND 2.0 SK"

Built-up:

Two-layer membrane consists of:

1- Polyurethane coating (TPU)
2- Polyester nonwoven (PET)

(Optional integrated self-sealing edge "SK")



Length	50 m (- 0 %)
Width	1.5 m (+ 1.5 / - 0.5 %)
Straightness	≤ 30 mm/10 m
Mass per unit area	220 g/m² (± 10 %)
Total thickness	0.6 mm (± 0.15 mm)

Performance of the underlay membrane "Alfa Rufol Thermo ND 2.0 SK"

Essential characteristic		**Performance**
Reaction to fire		Class E [1)]
External fire performance of roofs		NPA
Resistance to water penetration		Class W1 [2)]
Water column resistance		NPA
Water vapour transmission properties (S_d)		≈ 0.15 m
Tensile properties		
Maximum tensile force	longitudinal / transverse	300 N/50 mm / 360 N/50 mm
Elongation	longitudinal / transverse	50 % / 60 %
Resistance to tearing	longitudinal / transverse	240 N / 240 N
Hail resistance (damaging velocity v_d)		NPA
Dimensional stability	longitudinal / transverse	≤ 1 %
Flexibility at low temperature		- 20 °C
Resistance to penetration of air		NPA
Water tightness of seams		NPA
Emissivity (ε_n)		NPA

(NPA: no performance assessed)

1) Class according to EN 13501-1
The tests for reaction to fire have been performed regarding mounting and fixing as follows:
- free hanging

2) Class according to EN 13859-1

Alfa Rufol Thermo ND 2.0 SK Alfa GmbH	Annex A1
Description and performance of product	

Performance of the underlay membrane "Alfa Rufol Thermo ND 2.0 SK" (continued)

Essential characteristic		Performance
Tightness of perforations from nails and screws		
Laboratory test (wind-driven rain test) - on a full-surface and pressure-resistant substrate (at fastening points) - using nails 3.1 x 80 mm or screws 4.5 x 80 / 43 mm - free-spanning or laid on wooden decking (25.5 mm thick tongue-and-groove boarding made of planed boards) - 100 mm overlap sealed with the integrated self-sealing edges "SK" - roof pitch ≥14° - heavy rain ≤ 2 l/m²×min and wind pressure ≤ 600 Pa		No dripping water (eligible for the hygrothermal simulation)
Hygrothermal assessment (hygrothermal simulation) of a roof structure with rain entry[3)] through nail penetrations into the roof rafters: - exposure time (without roof covering) of 12 weeks + drying phase (ventilated roof covering) of 5 years - central European climate conditions (altitudes ≤ 690 m above sea level with an average total annual rainfall ≤ 1185 mm/a)		No additional nail-sealing material necessary [4)]
Content, emission and/or release of dangerous substances		NPA
Artificial ageing behaviour by exposure to combination of UV radiation (336 h) and elevated temperature and to heat		
Resistance to water penetration after aging		Class W1 [2)] (resistant to artificial ageing; 336 h UV + 90 d at 70°C)
Tensile properties after aging		
Maximum tensile force	longitudinal / transverse	270 N/50 mm / 320 N/50 mm
Elongation	longitudinal / transverse	45 % / 55 %
High heat resistance		NPA
Artificial ageing behaviour by exposure to combination of UV radiation (5000 h) and elevated temperature and to heat		
Resistance to water penetration after aging		Class W1 [2)] (resistant to artificial ageing; 5000 h UV + 90 d at 70°C)
Tensile properties after aging		
Maximum tensile force	longitudinal / transverse	250 N/50 mm / 300 N/50 mm
Elongation	longitudinal / transverse	40 % / 50 %
Artificial ageing behaviour by prolonged exposure to heat with accelerated air-speed 5±2 m/s		NPA

(NPA: no performance assessed)

2) Class according to EN 13859-1

3) Rain entry in the hygrothermal simulation = moisture entry obtained in the laboratory test.

4) The hygrothermal assessment is limited to the effects of the above-mentioned rain entry through nail and/or screw penetrations, taking into account the exemplary boundary conditions of this ETA as well as the EAD. A general hygrothermal assessment of the construction (e. g., underlay membranes on timber boarding) is not part of this evaluation.

Alfa Rufol Thermo ND 2.0 SK Alfa GmbH	Annex A2
Performance of product	

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Installation

The performance of the roof underlay membranes can be assumed only, if the installation is carried out according to the installation instructions stated in the technical documents of the manufacturer, in particular taking account of the following points:

- installation by appropriately trained personnel;
- installation with the required tools and adjuvants;
- precautions during installation;
- substrate, roof build-up, roof pitch and exposure time to weathering in accordance with manufacturer's instructions;
- inspecting the roof structure for sufficient stability;
- appropriate fixation in accordance with manufacturer's instructions, e. g., permanent fixation with nailed or screwed counter battens, maximum / minimum fixing distances;
- treatment of overlaps and details, e. g., eave, ridge, free end, in accordance with manufacturer's instructions;
- where applicable, inspecting the overlapping and bonding areas which shall be clean, dry and free of dust, frost and grease;
- inspecting compliance with suitable weather conditions, e. g., considering the respective installation temperatures;
- applying a nail-sealing tape where necessary (in accordance with manufacturer's instructions), e. g., in case of non-full-surface or non-pressure-resistant substrate at fastening points or in case of a not appropriate roof pitch.

Alfa Rufol Thermo ND 2.0 SK Alfa GmbH	Annex B
Intended use Specifications for the installation	