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European Technical Assessment Body for construction products



European Technical Assessment

ETA-24/0826 of 19 September 2024

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	Butler pro BP-U ND 170 SK+
Product family to which the construction product belongs	Membranes for use as roof underlays
Manufacturer	mdm NT Sp. z o.o. ul. Bestwińska 143 43-346 BIELSKO- BIAŁA POLAND
Manufacturing plant	mdm NT Sp. z o.o. ul. Bestwińska 143 43-346 BIELSKO- BIAŁA POLAND
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 Regulation (EU) No 305/2011, on the basis of	EAD 030218-01-0402



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Specific part

1 Technical description of the product

"Butler pro BP-U ND 170 SK+" is a double-layered roof underlay membrane, which consists of the following layers, which are laminated together by gluing:

- spunbond polyester nonwoven,
- vapour-permeable thermoplastic polyurethane film (TPU film) on the upper side.

"Butler pro BP-U ND 170 SK+" is provided with a factory-integrated self-adhesive seam strip along one edge.

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

The roof 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 design, e. g., roof slope, roof built-up, details – other adjuvants may be needed, e. g., mastic sealant, adhesive tape, nail-sealing tape. These adjuvants are given in the manufacturer's technical documents¹.

A specific 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 underlay under roof covering of discontinuous roofs.

In the technical documents the manufacturer gives information concerning the substrates, roof build-ups, roof pitches and exposure time to weathering which the product is suitable for.

The performance given in Section 3 is only valid if the roof 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 roof 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
Reaction to fire	see Annex A
External fire performance of roofs	see Annex A

¹

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
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
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
Content, emission and/or release of dangerous substances	see Annex A

3.3 Aspects of durability

Essential characteristic	Performance
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 \pm 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



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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 19 September 2024 by Deutsches Institut für Bautechnik

Bettina Hemme Head of Section *beglaubigt:* Hannoun English translation prepared by DIBt



Description of the roof underlay membrane "Butler pro BP-U ND 170 SK+" Built-up: Spunbord polyester nonwoven TPU film Length 50 m (+ 0.5 % / - 0 %) Width 1.5 m (+ 1.5 % / - 0.5 %) Straightness ≤ 30 mm/10 m Mass per unit area 170 g/m² (± 10 %)

Performance of the roof underlay membrane "Butler pro BP-U ND 170 SK+"

Essential characteristic	
Reaction to fire	
	Class D-s2,d0 ¹⁾
	NPA
	Class W1 ²⁾
Water column resistance	
Water vapour transmission properties Water vapour diffusion-equivalent air layer thickness (s _d)	
	·
longitudinal / transverse	400 N/50 mm / 390 N/50 mm
longitudinal / transverse	55 % / 65 %
longitudinal / transverse	300 N / 310 N
	ayer thickness (s _d) longitudinal / transverse longitudinal / transverse

¹⁾ Class according to EN 13501-1

The tests for reaction to fire have been performed regarding mounting and fixing as follows:

 <u>Class B-s1,d0</u>: at distance ≥ 80 mm from substrates of classes A1 or A2-s1,d0 with a density ≥ 652 kg/m³ and thickness ≥ 11 mm

• <u>Class D-s2,d0</u>: at distance ≥ 80 mm from wood and wood-based substrates with a density ≥ 377 kg/m³ and thickness ≥ 9 mm

- <u>Class E</u>: for all other end use applications.
- ²⁾ Class according to EN 13859-1

Butler pro BP-U ND 170 SK+

mdm NT Sp. z o.o.

Description and performance of product

Annex A1

English translation prepared by DIBt



ail resistance (damaging velocity v_d) imensional stability		Performance	
-		NPA	
evibility at low tomporature	longitudinal / transverse	NPA	
lexibility at low temperature		- 40 °C	
esistance to penetration of air		NPA	
Water tightness of seams		NPA	
Emissivity (ε _n)		NPA	
ightness of perforations from nails and s	screws		
 Laboratory test (wind-driven rain test) on a full-surface and pressure-resistant substrate (at fastening points) with integrated self-adhesive seam strips roof pitch ≥14° heavy rain ≤ 2 l/m²×min and wind pressure ≤ 600 Pa 		No dripping water (eligible for the hy simulation)	
 neavy rain ≤ 2 //m²×min and wind pressure ≤ 600 Pa Hygrothermal assessment (hygrothermal simulation) of a roof structure with rain entry³ through nail penetrations into the roof rafters: exposure time (without roof covering) of 3 months + 		No additional nail necessary	sealing material
 drying phase (ventilated roof covering central European climate conditions (sea level with an average total annual 	g) of 5 years (altitudes ≤ 690 m above		
ontent, emission and/or release of dang	erous substances	NPA	
		Class W1 ²⁾	
Resistance to water penetration after ag Tensile properties after aging	- 	(resistant to artific 336 h UV + 90 d a	at 70°C)
Tensile properties after aging Maximum tensile force	longitudinal / transverse	336 h UV + 90 d a 350 N/50 mm / 32	at 70°C)
Tensile properties after aging Maximum tensile force Elongation	- 	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 %	at 70°C)
Tensile properties after aging Maximum tensile force Elongation igh heat resistance	longitudinal / transverse longitudinal / transverse	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 % NPA	at 70°C)
Tensile properties after aging Maximum tensile force Elongation igh heat resistance rtificial ageing behaviour by exposure to	longitudinal / transverse longitudinal / transverse	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 %	at 70°C)
Tensile properties after aging Maximum tensile force Elongation igh heat resistance	longitudinal / transverse longitudinal / transverse combination of UV re and to heat	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 % NPA	at 70°C)
Tensile properties after aging Maximum tensile force Elongation igh heat resistance rtificial ageing behaviour by exposure to adiation (5000 h) and elevated temperatu rtificial ageing behaviour by prolonged e ccelerated air-speed 5±2 m/s	longitudinal / transverse longitudinal / transverse combination of UV re and to heat	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 % NPA NPA NPA	at 70°C)
Tensile properties after aging Maximum tensile force Elongation igh heat resistance rtificial ageing behaviour by exposure to adiation (5000 h) and elevated temperatu rtificial ageing behaviour by prolonged e ccelerated air-speed 5±2 m/s Class according to EN 13859-1	longitudinal / transverse longitudinal / transverse combination of UV re and to heat exposure to heat with	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 % NPA NPA NPA (NPA: no	at 70 °C)
Tensile properties after aging Maximum tensile force Elongation igh heat resistance rtificial ageing behaviour by exposure to adiation (5000 h) and elevated temperatu rtificial ageing behaviour by prolonged e ccelerated air-speed 5±2 m/s	longitudinal / transverse longitudinal / transverse combination of UV re and to heat exposure to heat with	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 % NPA NPA NPA (NPA: no	at 70 °C)
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Tensile properties after aging Maximum tensile force Elongation igh heat resistance rtificial ageing behaviour by exposure to adiation (5000 h) and elevated temperatu rtificial ageing behaviour by prolonged e ccelerated air-speed 5±2 m/s Class according to EN 13859-1	longitudinal / transverse longitudinal / transverse combination of UV re and to heat exposure to heat with	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 % NPA NPA NPA (NPA: no	at 70 °C)
Tensile properties after aging Maximum tensile force Elongation igh heat resistance rtificial ageing behaviour by exposure to adiation (5000 h) and elevated temperatu rtificial ageing behaviour by prolonged e ccelerated air-speed 5±2 m/s Class according to EN 13859-1	longitudinal / transverse longitudinal / transverse combination of UV re and to heat exposure to heat with	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 % NPA NPA NPA (NPA: no	at 70 °C)
Tensile properties after aging Maximum tensile force Elongation igh heat resistance rtificial ageing behaviour by exposure to adiation (5000 h) and elevated temperatu rtificial ageing behaviour by prolonged e ccelerated air-speed 5±2 m/s Class according to EN 13859-1 Rain entry in the hygrothermal simulation = mo the hygrothermal simulation = mo	longitudinal / transverse longitudinal / transverse combination of UV re and to heat exposure to heat with	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 % NPA NPA NPA (NPA: no	at 70 °C)
Tensile properties after aging Maximum tensile force Elongation igh heat resistance rtificial ageing behaviour by exposure to adiation (5000 h) and elevated temperatu rtificial ageing behaviour by prolonged e ccelerated air-speed 5±2 m/s Class according to EN 13859-1 Rain entry in the hygrothermal simulation = mo	longitudinal / transverse longitudinal / transverse combination of UV re and to heat exposure to heat with	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 % NPA NPA NPA (NPA: no	at 70 °C)
Tensile properties after aging Maximum tensile force Elongation igh heat resistance rtificial ageing behaviour by exposure to	longitudinal / transverse longitudinal / transverse	336 h UV + 90 d a 350 N/50 mm / 32 40 % / 60 % NPA	at 70 °C)

Z166572.24

English translation prepared by DIBt



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.

Butler pro BP-U ND 170 SK+ mdm NT Sp. z o.o.

Intended use Specifications for installation Annex B