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**European Technical Assessment Body  
for construction products**



## European Technical Assessment

**ETA-25/0569  
of 12 July 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

Divoroll Duo Maximum

Product family  
to which the construction product belongs

Membranes for use as roof underlays

Manufacturer

BMI Group Operations SARL  
Rue Albert Borschette 2B  
1246 LUXEMBOURG  
LUXEMBURG

Manufacturing plant

BMI Deutschland GmbH  
Scharpenbergerstr. 72-90  
58256 Ennepetal  
DEUTSCHLAND

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

"Divoroll Duo Maximum" is a five-layer roof underlay membrane composed of a microporous polyolefin film, a reinforcing grid, two layers of nonwoven, and a vapour-permeable special coating.

"Divoroll Duo Maximum" is provided with alternately arranged, factory-integrated self-adhesive strips along both longitudinal edges (integrated self-sealing edges).

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

The roof underlay membranes are fastened to the timber construction 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 documents<sup>1</sup>.

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 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 |

<sup>1</sup> 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

**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 12 July 2026 by Deutsches Institut für Bautechnik

Bettina Hemme  
Head of Section

beglaubigt:  
Hannoun

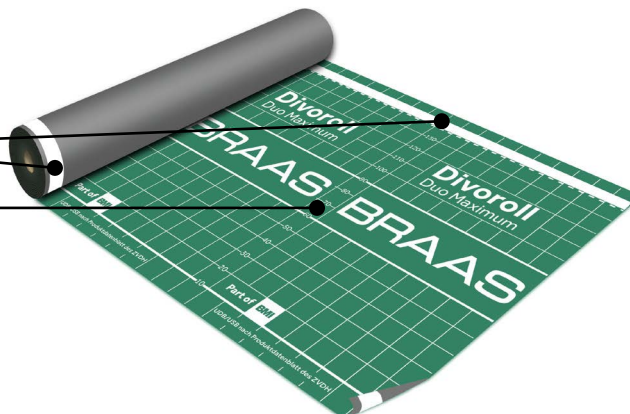
## Description of the roof underlay membrane "Divoroll Duo Maximum"

Built-up:

Integrated self-sealing edges

Five-layer membrane consists of:

- 1- Vapeur-permeable, special polyolefin coating
- 2- Polyolefin nonwoven
- 3- Microporous polyolefin film
- 4- Grid reinforcement
- 5- Polyolefin nonwoven



|                    |                              |
|--------------------|------------------------------|
| Length             | 50 m (- 0 %)                 |
| Width              | 1.5 m (+ 1.5 / - 0.5 %)      |
| Straightness       | NPA                          |
| Mass per unit area | 200 g/m <sup>2</sup> (± 10%) |

## Performance of the roof underlay membrane "Divoroll Duo Maximum"

| Essential characteristic                               |                           | Performance               |
|--------------------------------------------------------|---------------------------|---------------------------|
| Reaction to fire                                       |                           | Class E <sup>1)</sup>     |
| External fire performance of roofs                     |                           | NPA                       |
| Resistance to water penetration                        |                           | Class W1 <sup>2)</sup>    |
| Water column resistance                                |                           | NPA                       |
| Water vapour transmission properties (S <sub>d</sub> ) |                           | NPA                       |
| <b>Tensile properties</b>                              |                           |                           |
| Maximum tensile force                                  | longitudinal / transverse | 500 N/50 mm / 380 N/50 mm |
| Elongation                                             | longitudinal / transverse | 20 % / 12 %               |
| Resistance to tearing                                  | longitudinal / transverse | 415 N / 415 N             |
| Hail resistance (damaging velocity v <sub>d</sub> )    |                           | NPA                       |
| Dimensional stability                                  | longitudinal / transverse | NPA                       |
| Flexibility at low temperature                         |                           | - 40 °C                   |
| Resistance to penetration of air                       |                           | NPA                       |
| Water tightness of seams                               |                           | NPA                       |

(NPA: no performance assessed)

<sup>1)</sup> Class according to EN 13501-1

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

- free hanging

<sup>2)</sup> Class according to EN 13859-1

**Divoroll Duo Maximum**  
BMI Group Operations SARL

**Description and performance of product**

Annex A1

**Performance of the roof underlay membrane "Divoroll Duo Maximum" (continued)**

| Essential characteristic                                                                                                                                                                                                                                                                                                                                                                                                   |                           | Performance                                                                                        |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|----------------------------------------------------------------------------------------------------|
| <b>Emissivity (<math>\epsilon_n</math>)</b>                                                                                                                                                                                                                                                                                                                                                                                |                           | NPA                                                                                                |
| <b>Tightness of perforations from nails and screws</b>                                                                                                                                                                                                                                                                                                                                                                     |                           |                                                                                                    |
| Laboratory test (wind-driven rain test)<br>- on a full-surface and pressure-resistant substrate (at fastening points)<br>- using nails 3.1 x 80 mm<br>- 100 mm overlap sealed with the integrated self-sealing edges<br>- roof pitch $\geq 14^\circ$<br>- heavy rain $\leq 2 \text{ l/m}^2 \times \text{min}$ and wind pressure $\leq 600 \text{ Pa}$                                                                      |                           | No dripping water<br>(eligible for the hygrothermal simulation)                                    |
| Hygrothermal assessment (hygrothermal simulation) of a roof structure with rain entry <sup>3)</sup> through nail penetrations into the roof rafters:<br>- exposure time (without roof covering) of 3 months + drying phase (ventilated roof covering) of 5 years<br>- central European climate conditions (altitudes $\leq 690 \text{ m}$ above sea level with an average total annual rainfall $\leq 1185 \text{ mm/a}$ ) |                           | No additional nail-sealing material necessary                                                      |
| <b>Content, emission and/or release of dangerous substances</b>                                                                                                                                                                                                                                                                                                                                                            |                           | NPA                                                                                                |
| <b>Artificial ageing behaviour by exposure to combination of UV radiation (336 h) and elevated temperature and to heat</b>                                                                                                                                                                                                                                                                                                 |                           |                                                                                                    |
| Resistance to water penetration after aging                                                                                                                                                                                                                                                                                                                                                                                |                           | Class W1 <sup>2)</sup><br>(resistant to artificial ageing;<br>336 h UV + 90 d at 70°C)             |
| Tensile properties after aging                                                                                                                                                                                                                                                                                                                                                                                             |                           |                                                                                                    |
| Maximum tensile force                                                                                                                                                                                                                                                                                                                                                                                                      | longitudinal / transverse | 480 N/50 mm / 360 N/50 mm                                                                          |
| Elongation                                                                                                                                                                                                                                                                                                                                                                                                                 | longitudinal / transverse | 18 % / 11 %                                                                                        |
| <b>High heat resistance (80°C)</b>                                                                                                                                                                                                                                                                                                                                                                                         |                           |                                                                                                    |
| Resistance to water penetration after aging                                                                                                                                                                                                                                                                                                                                                                                |                           | Class W1 <sup>2)</sup><br>(resistant to high heat / artificial ageing;<br>336 h UV + 90 d at 80°C) |
| Tensile properties after aging                                                                                                                                                                                                                                                                                                                                                                                             |                           |                                                                                                    |
| Maximum tensile force                                                                                                                                                                                                                                                                                                                                                                                                      | longitudinal / transverse | 470 N/50 mm / 350 N/50 mm                                                                          |
| Elongation                                                                                                                                                                                                                                                                                                                                                                                                                 | longitudinal / transverse | 17 % / 10 %                                                                                        |
| <b>Artificial ageing behaviour by exposure to combination of UV radiation (5000 h) and elevated temperature and to heat</b>                                                                                                                                                                                                                                                                                                |                           | NPA                                                                                                |
| <b>Artificial ageing behaviour by prolonged exposure to heat with accelerated air-speed 5±2 m/s</b>                                                                                                                                                                                                                                                                                                                        |                           | NPA                                                                                                |

(NPA: no performance assessed)

<sup>2)</sup> Class according to EN 13859-1

<sup>3)</sup> Rain entry in the hygrothermal simulation = moisture entry obtained in the laboratory test

**Divoroll Duo Maximum**  
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**Performance of product**

Annex A2

### 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.

**Divoroll Duo Maximum**  
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**Intended use**  
Specifications for the installation

Annex B