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**European Technical Assessment Body  
for construction products**



## European Technical Assessment

**ETA-26/0291  
of 18 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

Plastovent NADI / Plastovent NADI SK

Product family  
to which the construction product belongs

Membranes for use as roof and wall underlays

Manufacturer

Plastoform GmbH  
Herbert-Frank-Straße 20  
72178 Waldachtal-Salzstetten  
GERMANY

Manufacturing plant

Plant 2170

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

"Plastovent NADI" / "Plastovent NADI 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.

"Plastovent NADI SK" is 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)<sup>1</sup>.

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<sup>2</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 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 |

<sup>1</sup> Manufacturer's statement.

<sup>2</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    |                |
|----------------------------------------------------------|----------------|----------------|
|                                                          | 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 18 May 2026 by Deutsches Institut für Bautechnik

Bettina Hemme  
Head of Section

*beglaubigt:*  
Hannoun

## Description of the underlay membrane "Plastovent NADI" / "Plastovent NADI SK"

Built-up:

Two-layer membrane consists of:

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

(Optional with integrated self-sealing edge  
"Plastovent NADI SK")



|                    |                               |
|--------------------|-------------------------------|
| Length             | 50 m (- 0 %)                  |
| Width              | 1.5 m (+ 1.5 / - 0.5 %)       |
| Straightness       | ≤ 30 mm/10 m                  |
| Mass per unit area | 220 g/m <sup>2</sup> (± 10 %) |
| Total thickness    | 0.6 mm (± 0.15 mm)            |

## Performance of the underlay membrane "Plastovent NADI" / "Plastovent NADI SK"

| 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> ) |                           | ≈ 0.15 m                  |
| <b>Tensile properties</b>                              |                           |                           |
| 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 <sub>d</sub> )    |                           | 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 <sub>n</sub> )                           |                           | 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

**Plastovent NADI / Plastovent NADI SK**  
Plastoform GmbH

**Description and performance of product**

Annex A1

**Performance of the underlay membrane "Plastovent NADI" / "Plastovent NADI SK" (continued)**

| Essential characteristic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                           | Performance                                                                             |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-----------------------------------------------------------------------------------------|
| <b>Tightness of perforations from nails and screws</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                           |                                                                                         |
| Laboratory test (wind-driven rain test) <ul style="list-style-type: none"> <li>- on a full-surface and pressure-resistant substrate (at fastening points)</li> <li>- using nails 3.1 x 80 mm or screws 4.5 x 80 / 43 mm</li> <li>- free-spanning or laid on wooden decking (25.5 mm thick tongue-and-groove boarding made of planed boards)</li> <li>- 100 mm overlap sealed with the integrated self-sealing edges "SK"</li> <li>- roof pitch <math>\geq 14^\circ</math></li> <li>- heavy rain <math>\leq 2 \text{ l/m}^2 \times \text{min}</math> and wind pressure <math>\leq 600 \text{ Pa}</math></li> </ul> |                           | 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: <ul style="list-style-type: none"> <li>- exposure time (without roof covering) of 12 weeks + drying phase (ventilated roof covering) of 5 years</li> <li>- central European climate conditions (altitudes <math>\leq 690 \text{ m}</math> above sea level with an average total annual rainfall <math>\leq 1185 \text{ mm/a}</math>)</li> </ul>                                                                                                              |                           | No additional nail-sealing material necessary <sup>4)</sup>                             |
| <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 | 270 N/50 mm / 320 N/50 mm                                                               |
| Elongation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | longitudinal / transverse | 45 % / 55 %                                                                             |
| <b>High heat resistance</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                           | NPA                                                                                     |
| <b>Artificial ageing behaviour by exposure to combination of UV radiation (5000 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>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 %                                                                             |
| <b>Artificial ageing behaviour by prolonged exposure to heat with accelerated air-speed <math>5 \pm 2 \text{ m/s}</math></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.

<sup>4)</sup> 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.

**Plastovent NADI / Plastovent NADI SK**  
Plastoform GmbH

**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.

**Plastovent NADI / Plastovent NADI SK**  
Plastoform GmbH

**Intended use**  
Specifications for the installation

Annex B