NEXLER Optimax PRO PV

Bituminous membrane for pitched roofs

TECHNICAL DATA

Type of reinforcement	non-woven polyester reinforced with glass fibers
Coating on the top side	non-woven
Low temperature flexibility	≤ -25°C
Width	1,0 m (-0,5; +1,5)%
Straightforwardness	≤ 30 mm per 10 m roll length
Basis weight	750 g/m² ± 10%
Resistance to water permeation	class W1
Maximum tensile force: - longitudinal extension - transversal extension	 600 ± 200 N/50 mm (45 ± 15) % 400 ± 200 N/50 mm (45 ± 15) %
Resistance to tearing - longitudinal - transversal	 300 ± 150 N 300 ± 150 N
Dimensional stability	≤ 0,5 %
Reference document(s)	EN 13859-1:2010

PROPERTIES

- Self-adhesive overlaps enable quick and tight installation without additional adhesives
- Safe in contact with sheet metal, upper surface finished with non-woven fabric
- Resistant to direct UV radiation for up to 12 months without final covering
- Resistant to strong winds - protects roof layers even if the top covering is damaged
- Tight around mechanical fastening points
- Durable, flexible and puncture-resistant
- Lightweight and simple to transport and install

SYSTEM WARRANTY UP TO 50 YEARS WITH FINAL COVERING

12 MONTHS WARRANTY AS INITIAL COVERING WITHOUT FINAL COVERING

QUICK INSTALLATION

APPLICATION

- Initial covering layer:
  - Under metal roofing tiles, standing seam roofing sheets, roofing tiles, bitumen shingles
  - For sloping wooden substrates, OSB boards
  - For roofs with a slope of at least 3°, provided that the roofing material used is designed for this specific slope

FOR PITCHED ROOFS

MECHANICAL FIXING

PACKAGING

Poland

- Roll length: 30 m
- Quantity per pallet: 20 rolls (600 m²)

Export

- Roll length: 30 m
- Quantity per pallet: 20 rolls (600 m²)

METHODS OF USE

CONDITIONS OF USE

Making an insulation using **NEXLER Optimax PRO PV** bitumen membrane should be carried out according to the technical design, in accordance with the current building regulations and the detailed guidelines for the design and execution of insulation contained in NEXLER Insulation Systems and the Technical Data Sheet.

Do not carry out insulation work during strong winds and precipitation.

SUBSTRATE PREPARATION

The substrate should be even and stable. The moisture content of the board substrate should not exceed 21%.

PRODUCT CONTROL

The product should not raise any objections. The roll should be evenly rolled, without kinks.

PRODUCT PREPARATION

If it is necessary to make the covering at low ambient temperatures, it is recommended to store the rolls in heated rooms for 24 hours before installation. At ambient temperatures below 10°C, it is recommended to heat the self-adhesive overlap using, for example, a hot air gun.

APPLICATION METHOD

Secure the **NEXLER Optimax PRO PV** bituminous membrane to the wooden substrate with roofing nails or staples that are at least 140/10 in size. Roofing nails or staples should be driven perpendicular to the substrate to ensure maximum tightness of the joints. Mechanical fastening should be carried out to a depth of at least ¾ of the roof decking thickness.

Fixing methods:

- only under the membrane overlap - in this case, it is necessary to simultaneously attach counter battens or the final covering made of standing seam metal roofing or bitumen shingles

  Fasten under the overlap with nails or roofing staples at a minimum spacing of 26 cm in two lines.

- under the overlap and directly through the overlap - in this case, installation of counter-battens and/or the final covering can be carried out at a later stage of the work.

  Fasten under the overlap with nails or roofing staples every 13 cm in two lines, and additionally through the overlap with nails approximately every 20 cm alternately in two lines, as shown in the figure below.

Installation recommendations:

- minimise the number of transverse joints during installation,
- on roofs with a slope up to 50%, the membrane should be laid parallel to the eaves, while for slopes greater than 50%, it should be laid perpendicular,
- overlap width 12 cm.

Longitudinal overlaps do not require extra adhesive - after removing the protective film from the strips, the bitumen bonds with the bitumen, creating a durable joint.

Transverse overlaps must be sealed with a bituminous adhesive, such as NEXLER Arbolex Aqua Stop, NEXLER Adhesive for Bituminous Felt and Shingles or NEXLER Bitumen Roofing Sealant.

Additional sealing is required for the membrane starter strip and all vertical flashings.

At low temperatures, before installing counter battens, we recommend sealing the membrane surface under the puncture points using the above-mentioned bituminous compounds.

Additional sealing of overlaps and mechanically fastened areas should be performed in the following cases:

- mechanical installation through the overlap,
- installation at ambient temperatures below +10°C (or activation with a hot air gun),
- on roofs with a slope of less than 20%, the longitudinal overlap with the self-adhesive strip requires longer contact time or additional sealing and pressing to ensure immediate and effective bonding.

In areas of the roof exposed to prolonged contact with rainwater, e.g. gutter hopper heads, gutter flashings, roof edges, vertical chimney flashings, etc. the membrane should be applied in two layers.

When installing the product in unfavourable weather conditions, take additional protective measures to secure both the membrane and the worksite.

During the installation of subsequent layers on the **NEXLER Optimax PRO PV** membrane, the requirements of the final roofing manufacturers must be taken into account, e.g., using a lattice or counter-battens and battens.

- **CONTROL OF PERFORMANCE**

During acceptance, the following should be checked:

- correctness of bonding of overlaps with particular attention to transverse overlaps,
- correctness of mechanical fastening and securing of visible fasteners,
- correctness of detail work.

WARRANTY

The manufacturer NEXLER sp. z o.o. provides the direct purchaser of **NEXLER Optimax PRO PV** bituminous membrane a material warranty of 12 months for bituminous membrane directly exposed to sunlight.

The **NEXLER Optimax PRO PV** membrane comes with a system warranty for up to 50 years from the moment it is covered with its final roof sealing, e.g. ceramic or concrete tiles, provided that this covering is installed no later than 12 months after the installation of the **NEXLER Optimax PRO PV** membrane.

Details of the guarantee provided to the purchaser are contained in the guarantee card.

TOOLS AND TOOL CLEANING

Spatula/cartridge extruder, hammer, hot air gun.

STORAGE AND TRANSPORT

The rolls of **NEXLER Optimax PRO PV** bituminous felt are protected with packing tapes before unrolling. Each roll has a label with the required data on it. The rolls are placed vertically on wooden industrial pallets and foiled.

During transportation and storage, the rolls must be protected from moisture and exposure to sunlight, and be placed upright in one layer in a way preventing any dislocation or damage.

The bituminous felt rolls must be stored on a flat surface at a distance of at least 120 cm from radiators.

Transportation must be carried out in compliance with applicable shipment safety regulations.

NOTES

Works should be carried out in accordance with technical conditions, manufacturer's instructions, health and safety standards and regulations.

The membrane is not diffusion-open. When covering roofs with thermal insulation, execution of covering ventilation must be assumed.

IMPORTANT INFORMATION

Please refer to the detailed conditions of use of the product before use.

We guarantee the quality of our materials as part of our terms of sale and delivery.

For buildings with special requirements that are not covered by this manual, we provide our Customers with our own professional advisory service.

The manufacturer has no influence on the improper use of the material, its use for other purposes or under conditions other than those described above. The guarantee only covers the quality of the delivered product. The correct and therefore effective use of the product is not subject to our control.

Neither the manufacturer nor his authorized representative may be held liable for any loss incurred as a result of improper use or storage of the product.

Employees of the company are authorized to provide technical information only and solely in accordance with this Technical Data Sheet. Information other than that contained in this sheet should be confirmed in writing.

If you have any doubts, consult the manufacturer.

CONTACT DETAILS

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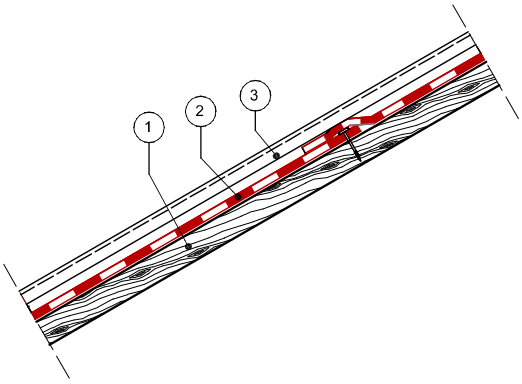
ISSUE DATE

This Technical Data Sheet was issued on 04.02.2026.

Once we have issued a new Technical Data Sheet, this one is no longer valid.

DETAILS

Wooden or wood-based substrate (pitched roof)



1. Wooden or wood-based substrate made of OSB
2. **NEXLER Optimax PRO PV** mechanically fastened initial covering membrane
3. Standing seam sheet metal