ECO PLATFORM EPD VERIFIED
Declaration No. 602/2024
Underlay and top-cover membranes

nexler® new generation of waterproofing

NEXLER Protection plates 1 x 1 m

Patch for photovoltaic frame fixing installation

TECHNICAL DATA

Type of reinforcement	non-woven polyester
Top finishing	coarse grained
Low temperature flexibility	≤ -25°C
Dimension	1 m x 1 m
Thickness	(5,2 ± 0,2) mm
Resistance to external fire exposure* *applies to the examined layer systems	$B_{roof}(t_1)$, $B_{roof}(t_2)$
Reaction to fire	class E
Watertightness: waterproof at a pressure	≥ 10 kPa (method A)
Maximum tensile force:	
- longitudinal	1100 ± 200 N/50 mm
extension	(50 ± 10) %
- transversal	900 ± 200 N/50 mm
extension	(50 ± 10) %
Resistance to root penetration	NPD
Resistance to static loading	≥ 20 kg (method A)
Resistance to impact	≥ 1750 mm (method A)
Resistance to tearing:	
- longitudinal	350 ± 150 N
- transversal	350 ± 150 N
Resistance of the joint:	
- shear strength	
• longitudinal joint	900 ± 200 N/50 mm
• transversal joint	950 ± 250 N/50 mm
- tear off strength	
• longitudinal joint	150 ± 100 N/50 mm
• transversal joint	150 ± 100 N/50 mm
Durability: flow resistance at elevated temperature	(100 ± 10)°C
Dimensional stability	≤ 1%
Reference document(s)	EN 13707:2004+A2:2009

PROPERTIES

- Contains special flame-retardant additives
- Durable and puncture-resistant
- Cut to size 1 x 1 m - ready to use, saves time and facilitates the installation of brackets for photovoltaic systems
- No edge strip - sprinkling over the entire surface means no material loss and an aesthetic finish
- Double SBS modification
- Approved for use under heavy surface protection
- For use in reduced ambient temperatures
- Fixed by welding

25-YEARS SYSTEM WARRANTY | 2xSBS | INCREASED FIRE RESISTANCE

APPLICATION

- Recommended for installation in a non-invasive photovoltaic mounting system
- For roof flashing
- Top layer in multi-layer roof coverings, terraces, and balconies
- Single-layer renovation of bitumen coverings

UNDER PHOTOVOLTAIC SYSTEMS | FOR ROOFS, TERRACES AND BALCONIES | RENOVATION OF BITUMEN COVERINGS | WELDING

PACKAGING

Poland

- Plate: 1 m x 1 m
- Quantity per pallet: 120 pcs. (120 m²)

Export

- Plate: 1 m x 1 m
- Quantity per pallet: 120 pcs. (120 m²)

METHOD OF USE

CONDITIONS OF USE

Making an insulation using **NEXLER Protection plates 1 x 1 m** bituminous felt 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.

The bituminous felt should be installed in ambient temperatures of above 0°C, this requirement applies to the time of day and night.

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

SUBSTRATE PREPARATION

In addition, the substrate should meet the following requirements:

- dry substrate (without any visible traces of moisture or darkening caused by moisture),
- clean substrate (the surface is free of dust, oil stains, grease and other contaminants),
- smooth substrate (local unevenness and cavities in the surface do not exceed ± 5 mm),
- even substrate (the gaps between the surface of the substrate and a 4 m long batten placed on the concrete substrate do not exceed 10 mm).

PRODUCT CONTROL

The product should not raise any objections. The plates should be evenly stacked on the pallet, without creases, kinks or folds.

PRODUCT PREPARATION

If it is necessary to make the covering at low ambient temperatures, it is recommended to store the product in heated rooms at a temperature of not less than +18°C for 24 hours before installation.

APPLICATION METHOD

NEXLER Protection plates 1 x 1 m bituminous felt should be fixed by welding.

As a result of heating both the substrate and the underside of the bituminous felt with a burner, the thin protective plastic foil melts, the asphalt is slightly melted and the bituminous felt sticks evenly to the substrate. An asphalt outflow of approx. 0,5 - 1 cm in width is required on each side of the welded bituminous felt.

CONTROL OF PERFORMANCE

During acceptance, the following should be checked:

- correctness of welding - a continuous trickle of melted asphalt mixture is required,
- adhesion of the bituminous felt to the substrate,
- correctness of detail work.

WARRANTY

The manufacturer NEXLER sp. z o.o. provides the direct purchaser of **NEXLER Protection plates 1 x 1 m** bituminous felt:

- a system warranty of up to 25 years, including top layer bituminous felt of the same quality, for a two-layer covering and the use of NEXLER sp. z o.o. priming agents for substrate priming,
- a standard material warranty of 18 years for a two-layer roof covering or 13 years on an old bituminous felt covering, together with top layer bituminous felt of the same quality.

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

TOOLS AND TOOL CLEANING

Roofing gas burner.

STORAGE AND TRANSPORT

NEXLER Protection plates 1 x 1 m bituminous felt plates are laid evenly on a pallet. Each pallet of this bituminous felt has a label with the required data on it. The plates are laid flat on wooden industrial pallets and foiled.

During transport and storage, bituminous felt plates must be protected from moisture and exposure to sunlight, and arranged in a way preventing any dislocation or damage.

Bituminous felt plates 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.

Before welding the top layer of bituminous felt, take notice of whether the next plate does not differ in the shade of the sprinkle. The sprinkle is a natural raw material and may vary in shade.

IMPORTANT INFORMATION

The Environmental Product Declaration (EPD) for the company NEXLER, covering both top layer and underlayer bituminous felt, was developed by the Building Research Institute (ITB) in accordance with international standards ISO 14025 and EN 15804.

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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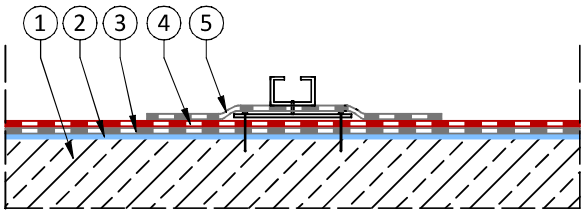
ISSUE DATE

This Technical Data Sheet was issued on 15.01.2026.

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

DETAILS

Treatment of photovoltaic system brackets



1. Concrete substrate constructed with a slope
2. Bituminous primer NEXLER BITFLEX Primer
3. Underlayer bituminous felt NEXLER PREMIUM PYE PV250 S48
4. Top layer bituminous felt NEXLER Protection
5. **NEXLER Protection plates 1 x 1 m** bituminous felt for detail work welded to photovoltaic system brackets and top layer bituminous felt