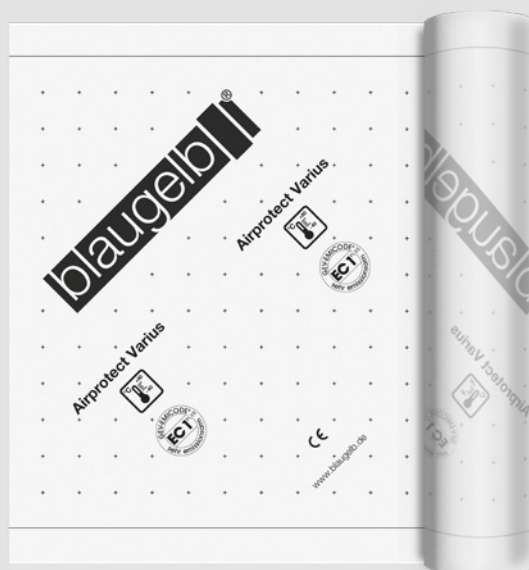




blaugelb Airprotect Varius

Intelligent moisture regulation and maximum processing reliability – for lasting protection and healthy construction.

Product features:

blaugelb Airprotect Varius is a moisture-variable and airtight vapour barrier that allows diffusion. It is ideally suited for use in old buildings, during renovations, and for interior work and roof construction in new buildings. The product is made of high-grade polypropylene nonwoven with a moisture-variable membrane. It impresses with its high airtightness and its especially installation-friendly handling. Processing marks on the sheet facilitate fast and professional installation. In combination with vapour-permeable blaugelb sarking membranes and roofing underlays, blaugelb Airprotect Varius guarantees lasting protection of the roof structure against moisture entry and draughts.

Thanks to the moisture-variable membrane, the sheet adapts flexibly to different humidity conditions. It thus promotes moisture compensation within the structure and has a moisture-regulating effect on the insulating properties, helping to reliably prevent moisture penetration of the insulation and the associated thermal losses.

- Moisture-variable membrane technology
- Suitable for interior work, renovation, and use under insulation above rafters
- Reliable protection against thermal loss and moisture penetration
- Very low in emissions, tested according to EMICODE EC1 Plus
- Tested for harmful substances, suitable for sustainable building (QNG-ready)

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The sheet is tested for harmful substances (QNG-ready/DGNB) and is extremely low in emissions in accordance with GEV-EMICODE EC1 Plus – it is therefore suitable for use in healthy construction projects.

Product benefits:

- Moisture-variable membrane technology
- Suitable for interior work, renovation, and use under insulation above rafters
- Simple and fast handling thanks to the integrated cutting pattern
- Reliable protection against thermal loss and moisture penetration
- Very low in emissions, tested according to EMICODE EC1 Plus
- Tested for harmful substances, suitable for sustainable building (QNG-ready)

Technical data:

Material:	Compound: PP nonwoven with special film
Grammage: acc. to EN 1849-1	90 g/m²
Thickness: acc. to EN 1849-1	0.30 mm
Watertightness: acc. to DIN EN 1928	Passed
Resistance to impact: acc. to EN 12691	NPD (no performance determined)
Fire behaviour: acc. to EN 13501-1	Class E
Water vapour permeability: acc. to EN ISO 12572	sd-value 0.25 – 25 m, moisture-variable*
Water vapour permeability: acc. to DIN EN 1931	sd-value > 2 m
After ageing: acc. to EN 13984	Passed
Resistance to tearing longitudinal: acc. to EN 12310-1	25 N
Resistance to tearing transverse: acc. to EN 12310-1	25 N
Shear resistance of the joints: acc. to EN 12317-2	NPD (no performance determined)
Maximum tensile force longitudinal: acc. to EN 12311-1	150 N
Maximum tensile force transverse: acc. to EN 12311-1	130 N
Elongation longitudinal: acc. to EN 12311-1	200 %
Elongation transverse: acc. to EN 12311-1	250 %
Resistance to deformation load:	NPD (no performance determined)
Alkali resistance: acc. to EN 1847	NPD (no performance determined)
Temperature resistance: acc. to DIN EN 1296	-40 °C to +80 °C
Ecological report:	EMICODE EC1 Plus
Underlay width:	1.50 m
Roll length:	50 m
Roll weight:	7 kg
Shelf life:	18 months In original packaging, protected against sun and weather, do not stack pallets

* The value of 0.5 – 2 ≤ 10 m required by DIN 4108 has been tested/verified. Other values are calculated.

Processing:

General:

blaugelb Airprotect Varius is designed for use in rooms with a normal indoor environment and thus not for areas with extended periods of high moisture such as swimming pools or commercial kitchens. With temporarily increased humidity levels – e.g. during the building phase due to screed work or plastering – sufficient ventilation and suitable drying methods must be ensured.

To guarantee the required airtightness, all overlaps and penetrations must be carefully and tightly bonded with blaugelb Universal Roof Tape (in the widths 60 mm, item no. 9363500, 100 mm, item no. 9363501, or 150 mm, item no. 9363502), blaugelb Façade Tape UV (item no. 9363503), blaugelb Nail Sealing Tape PE (item no. 9363499) or blaugelb Foil Adhesive Vapour Barrier (item no. 9363504). When installing, particular care must be taken to ensure that no constant tensile forces are created at the connections/bonds (plan for a relief loop, for example) and no creases reduce the airtightness. The surfaces to be bonded must be clean, dry and free of grease, dust, and silicone residues. Pretreat with blaugelb Spray Primer (item no. 9066539) if necessary.

Cross battens with a spacing of around 50 cm can help to reliably absorb the weight of the insulation. In addition, an inner lining protects the underlay from mechanical damage and UV exposure. blaugelb Airprotect Varius is secured by stapling or bonding to the substructure with the printed side facing inwards, toward the room. When processing blow-in insulating materials or particularly flexible insulating materials, a supporting batten should additionally be attached to the bond of the underlay overlap.

For proper function of the vapour barrier underlay, it must be ensured that the entire roof structure is designed in accordance with the currently valid standards, e.g. DIN 4108, the relevant technical regulations, and the associated information sheets from the Zentralverband des Deutschen Dachdeckerhandwerks e.V. in Cologne, as well as the state of the art.

Interior/room side:

blaugelb Airprotect Varius is installed with the printed side facing the room, meaning that it is visible for the processor, and secured section by section with the staple gun and the battens on the rafters – with as few connections as possible. Joints and vertical overlaps should always be arranged on a rafter. Allow an overlap of approx. 10 cm. Stapled points that are not covered must subsequently be sealed airtight with blaugelb Universal Roof Tape (in the widths 60 mm, item no. 9363500, 100 mm, item no. 9363501 or 150 mm, item no. 9363502), blaugelb Façade Tape UV (item no. 9363503), or blaugelb Nail Sealing Tape PE (item no. 9363499). During processing, special care is to be taken to ensure installation that is free of creases and tension, without tensile and shearing forces; mechanical support can be used, where necessary.

For airtight connection to the masonry, the underlay is bonded with blaugelb Foil Adhesive Vapour Barrier (item no. 9363504) and additionally secured mechanically with a pressing lath if the substrate is unstable. All overlaps must be masked airtight with blaugelb Universal Roof Tape (in the widths 60 mm, item no. 9363500, 100 mm, item no. 9363501 or 150 mm, item no. 9363502), blaugelb Façade Tape UV (item no. 9363503) or blaugelb Nail Sealing Tape PE (item no. 9363499). During the complete installation, careful and damage-free processing must be ensured.

Before attaching the room-side cladding such as plasterboard or wood panelling, the correct installation of the vapour barrier should be checked again and corrected, if necessary. Larger-scale damage to the underlay is

Product name	PU	Item no.
blaugelb Airprotect Varius	1 roll	9363496



to be repaired with a cutout of the original sheet or with blaugelb Universal Roof Tape (in the widths 60 mm, item no. 9363500, 100 mm, item no. 9363501 or 150 mm, item no. 9363502) or blaugelb Façade Tape UV (item no. 9363503), while smaller damage can also be reliably covered with the specified adhesive tapes.

Under insulation above rafters:

blaugelb Airprotect Varius is installed parallel to the eaves and processed according to processing instructions for the interior. It is secured with a staple gun or with broad-headed nails in the concealed area of the longitudinal overlap. The longitudinal overlap is bonded airtight at the attachment points with blaugelb Nail Sealing Tape PE (item no. 9363499) or blaugelb Foil Adhesive Vapour Barrier (item no. 9363504). Please observe the notes on UV resistance as well as the specifications on the maximum length of exposure of the underlay to the outdoors.

Renovation / installation from above in cavity between beams / renovation of old buildings:

blaugelb Airprotect Varius is installed parallel to the eaves or to the rafter with the printed side facing up. The underlay should be inserted in the cavities without tension and routed in a loop shape over the rafters with an overlap of approx. 10 cm (based on the overlapping marking). The underlay is fixed mechanically using laths at the bottom at the rafters, at the bending point into the cavity. Alternatively, it can be secured with solid paper strips that are fixed in place with the staple gun.

Stapling and nailing points are to be sealed airtight with blaugelb Nail Sealing Tape PE (item no. 9363499). To prevent damage to the vapour barrier, protruding pointed parts (such as nails) should be removed from the inner cladding in the area of the rafter.

Please also note the specifications on UV resistance and on the permissible outdoor exposure time for the underlay. With this installation technique, constructions that do not require calculation of moisture condensation in accordance with DIN 4108-3 can be created. In the event of deviations from these constructions, mathematical verification is required.

Constructions not requiring calculation in accordance with DIN 4108-3 can be created. In the event of deviations from these constructions, mathematical verification must be provided.

Delivery and storage form:

In its original packaging, blaugelb Airprotect Varius rolls must not be exposed to direct sunlight or to weather if stored for a longer period. The pallets are not to be stacked on top of one another.

Disposal:

Scraps of blaugelb Airprotect Varius can be disposed of in the general waste. The disposal generally conforms with the national and local specifications.