



## Technical data

Substance	
Sheet	Building paper, glued with PE
Reinforcement	Fiberglass mesh

  

Attribute	Regulation	Value
Colour		blue
Surface weight	EN 1849-2	190 ±0.1 g/m <sup>2</sup>
Thickness	EN 1849-2	0.23 ±0.1 mm
Water vapour resistance factor $\mu$	EN 1931	10 000
sd-value	EN 1931	2.30 ±0.25 m
sd-value humidity variable	EN ISO 12572	0.40 - 4 m
g-value		11.5 ±1.25 MN-s/g
g-value humidity variable		2 - 20 MN-s/g
Reaction to fire	EN 13501-1	E
Tensile strength MD/CD	EN 13859-1	550 N/5 cm / 420 N/5 cm
Elongation MD/CD	EN 13859-1	5 % / 5 %
Nail tear resistance MD/CD	EN 13859-1	70 N / 70 N
Artificial ageing by long term	EN 1296 / EN 1931	passed
Temperature resistance		permanent up to +40 °C
Thermal conductivity		0.13 W/(m·K)
Airtightness	EN 12114	tested
National technical approval (DE)	DIN 68800-2	Z-9.1-852
CE labelling	EN 13984	available

## Area of application

Can be used as a vapour retarder and airtightness membrane for all exterior permeable structures in roofs, ceilings and walls, in combination, for example, with pro clima SOLITEX membranes, softwood fibreboard or MDF board. For external, impermeable, flat and pitched roof structures. For green roofs, INTESANA and INTELLO membranes offer a higher level of protection against structural damage.

Further information is given by study "Calculation of the potential freedom from structural damage of thermal insulation structures in timber-built and steel systems".

- Study english
- Study for Ireland and the UK

## Forms of delivery

Art. no.	GTIN	Length	Width	Contents	Weight	PU	Container
10081	4026639011039	100 m	0.75 m	75 m <sup>2</sup>	14 kg	1	24
10082	4026639011046	100 m	0.9 m	90 m <sup>2</sup>	17 kg	1	24
10083	4026639011053	100 m	1.05 m	105 m <sup>2</sup>	20 kg	1	24
10084	4026639011114	50 m	1.05 m	52.5 m <sup>2</sup>	10 kg	1	42
10085	4026639011060	100 m	1.35 m	135 m <sup>2</sup>	25 kg	1	24
10086	4026639011121	50 m	1.35 m	67.5 m <sup>2</sup>	13 kg	1	42
10087	4026639011343	50 m	1.7 m	85 m <sup>2</sup>	16 kg	1	42
10088	4026639011077	50 m	2.75 m	137.5 m <sup>2</sup>	26 kg	1	20

The information provided here is based on practical experience and the current state of knowledge. We reserve the right to make changes to the recommended designs and processing or to make alterations due to technical developments and associated improvements in the quality of our products. We would be happy to inform you of the current technical state of the art at the time you use our products.

Further information about the application and construction can be found in the pro clima planning documentation. For queries please call the pro clima technical hotline on +49 (0)6202 278245.

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## Advantages

- ✓ High protection against structural damage and mould, even in the event of unexpected moisture ingress as a result of its moisture-variable diffusion resistance
- ✓ Protection in a winter climate as a result of its  $s_d$ -value of 4 m or g-value 20 MNs/g
- ✓ Back diffusion in summer as a result of its  $s_d$ -value of 0.4 m or g-value 2 MNs/g
- ✓ High tear resistance
- ✓ Suitable for all fibrous thermal insulation (also blown-in insulation)
- ✓ Ecological solution for sealing the building shell
- ✓ Lowest VOC rating in hazardous substance test

## General conditions

pro clima DB+ can be laid with the printed or unprinted side facing the installer, along or at a right angle to the sub-structure, for example, the rafters. It must not be laid and stretched tight.

If laid horizontally (at right angles to the sub-structure) then the maximum space permitted between the rafters is 100 cm. After laying, it is necessary to support the weight of the insulation with lathing on the inside. The laths should be no more than 65 cm apart. If, when using insulation mats and boards, for example, you expect tension as a result of the insulation weight on the adhesive tape joints, an additional supporting lath should be placed on the overlap. Alternatively, the adhesive tape can be reinforced along the overlap by sticking strips of adhesive tape at right angles to the overlap every 30 cm.

Airtight seals can only be achieved on vapour control membranes that have been laid without folds or creases. Ventilate regularly to prevent excessive humidity (e.g. during the construction phase). Occasional rush/inrush ventilation is not adequate to quickly evacuate large amounts of construction-related humidity from the building. Use a dryer if necessary.

To prevent condensation, DB+ should be stuck down so that it is airtight immediately after installing the thermal insulation. This particularly applies when working in winter.

Additionally for blown-in insulation

DB+ can also be used as a membrane for all types of blown-in insulation. Its reinforcing layer prevents tearing when blowing in the insulation. If laid along the sub-structure it has the advantage that the overlap is supported on a firm foundation and is therefore protected.

To prevent condensation, the blown-in insulation should be introduced immediately after installing the airproofing layer. This particularly applies when working in winter.



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