DB+

Reinforced hydrosafe® paper-based vapour control membrane



Technical data

	Material
Sheet	Building paper (100% recycled paper), glued with PE
Reinforcement	Fibreglass mesh

Property	Regulation	Value
Colour		Blue
Surface weight	EN 1849-2	190 g/m² ; 0.62 oz/ft²
Thickness	EN 1849-2	0.23 mm ; 9 mils
Water vapour resistance factor µ	EN 1931	10 000
sd value	EN 1931	2.30 m
sd value, humidity-variable	EN ISO 12572	0.40 - 4 m
g value	EN 1931	11.5 MN·s/g
g value, humidity-variable	EN ISO 12572	2 - 20 MN·s/g
Vapour permeance	ASTM E96	1.4 perms
Vapour permeance, humidity-variable	EN ISO 12572	0.8 - 8.2 perms
Hydrosafe value (sd)	DIN 68800-2	2 m
Reaction to fire classification	EN 13501-1	E
Watertightness to liquid water	EN 13984	NPD (no performance declared)
Airtightness	EN 12114	Tested
Tensile strength MD/CD	EN 13859-1 (A)	550 N/5 cm / 420 N/5 cm ; 63 lb/in / 48 lb/in
Elongation MD/CD	EN 13859-1 (A)	5% / 5%
Nail tear-resistance MD/CD	EN 13859-1 (B)	70 N / 70 N ; 16 lbf / 16 lbf
Durability after artificial ageing	EN 1296 / EN 1931	Passed
Temperature resistance, permanent	EN 1109, EN 1296, EN 1297	Up to +40 °C ; +104 °F
Thermal conductivity		0.04 W/(m·K) ; 0.3 BTU·in/(h·ft²·°F)
CE labelling	EN 13984	Yes

Areas of application

Vapour control (alternate terms: vapour check or retarder) membrane for use on roofs, walls, ceilings and floors in combination with all fibrous insulation materials, including blown-in insulation, on structures that are open or closed to diffusion on the exterior, after appropriate design calculations.

Supply forms

Art. no.	Length	Width	Contents	Weight	Sales unit	Container	GTIN
10081	100 m	0.75 m	75 m²	14 kg	1	24	4026639011039
10084	50 m	1.05 m	52.5 m²	10 kg	1	42	4026639011114
10086	50 m	1.35 m	67.5 m²	13 kg	1	42	4026639011121
10087	50 m	1.7 m	85 m²	16 kg	1	42	4026639011343
10088	50 m	2.75 m	137.5 m²	26 kg	1	20	4026639011077

Advantages

- ✔ Excellent protection against damage to structures and mould thanks to humidity-variable diffusion resistance
- ✔ Well-protected winter building sites thanks to hydrosafe® behaviour
- ✔ Can be combined with all fibrous insulation materials (including blown-in insulation)
- ✔ Ecological solution for sealing of the building envelope
- ✔ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme

General conditions

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

If installed horizontally (at right angles to the sub-structure) then the maximum space permitted between the rafters is 1 m (3′). 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 (2′ 2″) apart. If, when using insulation mats and boards, for example, you expect tension as a result of the insulation weight on the adhesive tape joins, 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 (1′).

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.

Taped and adhesive joints are unproblematic on both sides of the membrane (front or back).

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

Additional information on blown-in insulation

DB+ can also be used as a membrane for all types of blown-in insulation. Its reinforcement layer prevents tearing during the process of blowing in insulation filling. If installed paralllel to 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 installed immediately after installing the airproofing layer. This particularly applies when working in winter.

NSAI Agrément
pro clima Intelligent Airtight System
CERT No. 07/0297

ÉMISSIONS DANS L'AIR INTÉRIEUR*
A+
A+ A B C
*Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes missions)

Tested for hazardous substances according to ISO 16000

CE
07
EN 13984

UK CA

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pro clima®

The applications and conditions described here are based on current research findings and practical experience. We reserve the right to change the recommended application designs and installation methods and to develop and thus change the properties and quality of individual products. We would be glad to inform you about the current state of engineering knowledge at the time that your installation is carried out.

The planning documentation that is available from pro clima provides further information about installation methods and design details. If you have questions, please contact pro clima Technical Support in Germany at +49 6202 278245.

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