DB+

Hydrosafe® vapour check made of building paper

Technical data

Substance	
Sheet	Building paper, glued with PE
Reinforcement	Fiberglass 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 vapor 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		11.5 MN·s/g
g value, humidity variable		2 - 20 MN·s/g
Vapour permeance	ASTM E96	1.4 US perms
Vapour permeance, humidity variable	EN ISO 12572	0.82 - 8.2 US perms
Hydrosafe value (sd)	DIN 68800-2	2 m
Fire rating	EN 13501-1	E
Water tightness to liquid water	EN 13984	NPD
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 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

Application

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.

Advantages

- Excellent protection against damage to structures and mould thanks to humidity-variable diffusion resistance
- 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

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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pro clima®

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 1 m (3 ft). 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 ft).

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.

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

Made in Germany
developed and produced by
pro clima

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