DA

Vapour control membrane for external insulation and roof retrofits



Technical data

	Material
Protective and covering fleece	Polypropylene
Functional film	Polypropylene

Property	Regulation	Value
Colour		Green
Surface weight	EN 1849-2	130 g/m² ; 0.43 oz/ft²
Thickness	EN 1849-2	0.45 mm ; 18 mils
Water vapour resistance factor μ	EN 1931	5 000
sd value	EN 1931	2.30 m
g value	EN 1931	11.5 MN·s/g
Vapour permeance	ASTM E 96	1.4 perms
Reaction to fire classification	EN 13501-1	E
Outdoor exposure		3 months
Outdoor exposure on retrofits betw. 2 insulation layers		14 days ; 7 days at ≤10 °C (≤50 °F)
Watertight joints with 'connect' adhesive strips or TESCON tape	EN 13859-1	W1
Watertightness to liquid water	EN 1928	W1
Water column	EN ISO 811	> 2 500 mm ; > 8' 2"
Airtightness	EN 12114	Tested
Tensile strength MD/CD	EN 12311-2	230 N/5 cm / 200 N/5 cm ; 26 lb/in / 23 lb/in
Elongation MD/CD	EN 12311-2	90% / 90%
Nail tear-resistance MD/CD	EN 12310-1	120 N / 115 N ; 27 lbf / 26 lbf
Durability after artificial ageing	EN 1296 / EN 1931	Passed
Temperature resistance, permanent	EN 1109, EN 1296, EN 1297	-40 °C to 100 °C ; -40 °F to 212 °F
Thermal conductivity		0.04 W/(m·K) ; 0.3 BTU·in/(h·ft²·°F)
CE labelling	EN 13984	Yes

Areas of application

For use as a vapour control (alternate terms: vapour check or retarder) membrane and airtight membrane directly on top of sheathing underneath suitable external roof insulation made of all insulation materials on structures that are open to diffusion on the exterior (roofing underlay with SOLITEX MENTO 3000, for example).

In addition, DA can be installed as an airtight and vapour control membrane between two layers of insulation on roof retrofit projects. All fibrous insulation materials can be used for insulation installed between rafters; the external roof insulation must be a foam insulation material (e.g. consisting of PUR, PIR or EPS). Please contact Technical Support at pro clima in Germany for assistance with calculating the thickness of the external foam insulation that is required from a building physics viewpoint. If necessary, the outer sealing layer should be implemented using a diffusion-open roofing underlay membrane (e.g. SOLITEX MENTO 3000).

Supply forms

Art. no.	Length	Width	Contents	Weight	Sales unit	Container	GTIN
10098	50 m	1.5 m	75 m²	10 kg	1	20	4026639011947

Advantages

- ✔ Protects building structures against weathering during the construction phase for roof pitches of 10° (2.1:12) and higher
- ✔ Water-resistant and waterproof, can be walked on
- ✔ Acts as a vapour control and airtightness layer simultaneously
- ✔ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme

General conditions

DA is to be installed with the printed side facing the installation technician. The membrane is to be installed horizontally (parallel to the eave) in a taut manner. The weight of the insulation material must be supported by the sheathing.

Airtight seals can only be achieved on vapour control (alternate terms: vapour check or retarder) membranes that have been fitted with no folds or creases. Ventilate regularly and systematically to prevent the build-up of excessive humidity (e.g. during the construction phase). Occasional, intermittent ventilation is not sufficient to remove large quantities of moisture due to construction work from a building; use a dryer if necessary.

Taped and adhesive joints with the rear side of the membrane are unproblematic: In certain cases, taped or adhesive joints on the rear are necessary, for example when sealing around skylights if the membrane is installed from the exterior.

To avoid condensation formation, the thermal insulation should be installed immediately after the airtight installation of DA. This applies particularly to work carried out in winter.

Fastening

Overlap the membranes by at least 10 cm (3/8″). Use fastening staples that are at least 10 mm (3/8″) wide by 8 mm (5/16″) long to attach the membranes. The membranes can only be fastened in a protected manner in the overlap area. The maximum distance between fasteners is 10 to 15 cm (4″ to 6″).
Fasteners may not be applied in areas where water runs off in a collected manner (e.g. in roof valleys).
If exposure to the elements is planned, it is recommended to provide additional mechanical support for the membranes (e.g. with counter battens). TESCON NAIDECK mono adheres to counter battens, seals nail holes and improves the level of rain protection.

EPD verified

NBS

Tested for hazardous substances according to ISO 16000

CE 07 EN 13984

UK CA

Made in Germany developed and produced by 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.

MOLL
bauökologische Produkte GmbH
Rheintalstraße 35 - 43
68723 Schwetzingen
Germany
Phone: +49 6202 2782 0
eMail: info@proclima.com