INTESANA®

Hydrosafe® high-performance vapour check for exterior roof insulation

Technical data

	Material
Protective and covering fleece	Polypropylene
Functional film	Polyethylene copolymer

Property	Regulation	Value
Colour		Green
Surface weight	EN 1849-2	150 g/m² ; 0.5 oz/ft²
Thickness	EN 1849-2	0.45 mm ; 18 mils
Water vapour resistance factor µ	EN 1931	31 100
sd value	EN 1931	14 m
sd value, humidity-variable	EN ISO 12572	0.25 - >25 m
g value		70 MN·s/g
g value, humidity-variable		1.25 - >125 MN·s/g
Vapour permeance	ASTM E96-A	0.23 perms
Vapour permeance, humidity-variable	EN ISO 12572	< 0.13 - 13 perms
Hydrosafe value (sd)	DIN 68800-2	2 m
Surface burning characteristics	ASTM E84	Class A (Flame Spread 0; Smoke development index 105)
Fire class	EN 13501-1	E
Outdoor exposure		2 months
Driving rain test	ZVDH	Passed
Watertight joints with 'connect' adhesive strips or TESCON VANA 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	250 N/5 cm / 170 N/5 cm ; 29 lb/in / 19 lb/in
Elongation MD/CD	EN 12311-2	60% / 60%
Nail tear resistance MD/CD	EN 12310-1	120 N / 120 N ; 27 lbf / 27 lbf
Durability after artificial ageing	EN 1296 / EN 1931	Passed
Temperature resistance		Permanent -40 °C to 80 °C ; -40 °F to 176 °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 check and airtight membrane that can be subjected to outdoor exposure over roof sheathing underneath over-rafter insulation in combination with all fibrous insulation materials on structures that are open or closed to diffusion on the exterior, e.g. flat/pitched roofs and green roofs, after appropriate design calculations have been carried out.

Advantages

- ✔ Best possible protection against moisture damage to structures thanks to humidity-variable diffusion resistance
- ✔ Protects buildings against the elements during the construction phase for roof pitches of 10° (2.1:12) and higher
- ✔ Protected winter building sites thanks to hydrosafe® behaviour
- ✔ Water-resistant and waterproof, can be walked on
- ✔ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme

General conditions

pro clima INTESANA should be installed with the printed side facing the installer. The membrane is to be installed horizontally (parallel to the eave) in a taut manner. The weight of the insulation must be supported by the cladding.

Airtight seals can only be achieved on vapour checks that have been fitted with no folds or creases. Ventilate regularly and systematically to prevent 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.

To avoid condensation formation, the thermal insulation should be installed immediately after airtight adhesion of INTESANA. This particularly applies when working in winter.

Fastening
- Overlap the membranes by at least 10 cm (4").
- Use fastening staples that are at least 10 mm (3/8") wide and 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").

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 installation and design details is available in the pro clima planning documentation. If you have any questions, please contact [pro clima Technical Support](https://proclima.com/service/technical-support).

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