INTELLO® X connect

Hydrosafe® high-performance vapour check with self-adhesive strips, for external insulation and roof refurbishment

Technical data

	Material
Protective and covering fleece	Polypropylene
Functional film	Polyethylene copolymer
Self-adhesive strips	Water-resistant SOLID adhesive

Property	Regulation	Value
Colour		Light grey
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	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
Outdoor exposure for refurbishment betw. 2 insulation layers		14 days ; 7 days at ≤10 °C (≤50 °F)
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"
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	Passed
Temperature resistance	EN 1109, EN 1296, EN 1297	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

When installed directly on top of a hard subsurface underneath exterior insulation, the INTELLO X connect vapour check (alternate terms: vapour control or retarder) membrane can be combined with all fibrous insulation materials (including blown-in insulation materials).

In the case of refurbishment from the outside and installation between two layers of insulation, the choice of insulation materials for the two layers is limited to mineral or rock wool. The thickness of the external mineral wool insulation needs to be calculated on a project-specific basis; please contact Technical Support at pro clima in Germany for assistance.

This membrane can be used on building components that are diffusion-open to the outside or are diffusion-tight, e.g. pitched, flat or green roofs, after appropriate design calculations have been carried out.

When used on the inside of insulation installed between rafters or wall framework in combination with fibrous insulation mats and boards, this membrane may only be installed onto a hard subsurface or else with additional taping of membrane overlaps with TESCON VANA.

Supply forms

Art. no.	GTIN	Length	Width	Contents	Weight	Sales unit	Container
1AR03027	4026639230270	50 m	1.5 m	75 m²	14 kg	1	20

pro clima®

Advantages

- ✔ Excellent protection against mould and moisture damage to structures thanks to humidity-variable diffusion resistance
- ✔ Easier handling: can be used with external insulation and on refurbishment projects between two layers of mineral wool insulation
- ✔ Protects building structures against weathering during the construction phase for roof pitches of 10° (2.1:12) and higher
- ✔ Protected winter building sites thanks to hydrosafe® behaviour
- ✔ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme
- ✔ Quick and reliable adhesion thanks to the integrated 'connect' self-adhesive strips on the long edges of the membrane

General conditions

pro clima INTELLO X connect is to be installed with the printed side facing the installation technician. It may only be installed on top of sheathing.

Airtight seals can only be achieved on vapour check (alternate terms: vapour control or retarder) membranes 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 the airtight installation of INTELLO X connect. This applies particularly to work carried out in winter.

Fastening
Overlap the membranes by at least 10 cm (4"). 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"-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.

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).

MOLL
bauökologische Produkte GmbH
Rheintalstraße 35 - 43
D-68723 Schwetzingen
Fon: +49 (0) 62 02 - 27 82.0
eMail: info@proclima.de