

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

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         2 months           Watertight joints with 'connect' adhesive strips or TESCON VANA tape         W1           Watertight joints with 'connect' adhesive strips or TESCON VANA tape         W1           Water tight joints with 'connect' adhesive strips or TESCON VANA tape         W1           Water tight joints with 'connect	Property	Regulation	Value		
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, humidity-variable         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	Colour		Light grey		
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sd value, humidity-variable EN ISO 12572 $0.25 - > 25 \text{ m}$ g value $70 \text{ MN-s/g}$ g value, humidity-variable $1.25 - > 125 \text{ MN-s/g}$ g value, humidity-variable $1.25 - > 125 \text{ MN-s/g}$ Vapour permeance ASTM E96-A $0.23 \text{ perms}$ Vapour permeance, humidity-variable EN ISO 12572 $< 0.13 - 13 \text{ perms}$ Hydrosafe value (sd) DIN 68800-2 $2 \text{ m}$ Surface burning characteristics ASTM E84 Class A (Flame Spread 0; Smoke development index 105) Fire class EN 13501-1 E Outdoor exposure $2 \text{ months}$ Outdoor exposure $2 \text{ months}$ Outdoor exposure $2 \text{ months}$ Watertight joints with 'connect' adhesive strips or TESCON VANA tape Watertight points with 'connect' adhesive strips or TESCON VANA tape Water column EN ISO 811 $2 \text{ Somm} = 250 \text{ N/s cm} / 170 \text{ N/s cm} ; 29 \text{ lb/in} / 19 \text{ lb/in}$ Tensile strength MD/CD EN 12311-2 $2 \text{ Somm} = 250 \text{ N/s cm} / 170 \text{ N/s cm} ; 29 \text{ lb/in} / 19 \text{ lb/in}$ Elongation MD/CD EN 12311-2 $2 \text{ Somm} = 250 \text{ N/s cm} / 170 \text{ N/s cm} ; 29 \text{ lb/in} / 19 \text{ lb/in}$ Elongation MD/CD EN 12310-1 $2 \text{ N/s cm} = 250 \text{ N/s cm} / 170 \text{ N/s cm} ; 29 \text{ lb/in} / 19 \text{ lb/in}$ Elongation MD/CD EN 12310-1 $2 \text{ N/s cm} = 250 \text{ N/s cm} / 170 \text{ N/s cm} ; 29 \text{ lb/in} / 19 \text{ lb/in}$ Elongation 4 Fermance MD/CD EN 12310-1 $2 \text{ N/s cm} = 250 \text{ N/s cm} / 170 \text{ N/s cm} ; 29 \text{ lb/in} / 19 \text{ lb/in} / $	Water vapour resistance factor µ	EN 1931	31 100		
g value 70 MN·s/g 1.25 - >125 MN·s/g 1.25 - >125 MN·s/g 2 value, humidity-variable 1.25 - >125 MN·s/g 3 value, humidity-variable EN ISO 12572 $< 0.13 - 13 \text{ perms}$ 4 Vapour permeance, humidity-variable EN ISO 12572 $< 0.13 - 13 \text{ perms}$ 5 Vapour permeance, humidity-variable EN ISO 12572 $< 0.13 - 13 \text{ perms}$ 6 Vapour permeance, humidity-variable EN ISO 12572 $< 0.13 - 13 \text{ perms}$ 7 Vapour permeance, humidity-variable EN ISO 12572 $< 0.13 - 13 \text{ perms}$ 8 Variable EN ISO 12572 $< 0.13 - 13 \text{ perms}$ 9 Variable EN ISO 12572 $< 0.13 - 13 \text{ perms}$ 9 Variable Surface burning characteristics ASTM E84 Class A (Flame Spread 0; Smoke development index 105)	sd value	EN 1931	14 m		
yalue, humidity-variable  Vapour permeance  ASTM E96-A  0.23 perms  Vapour permeance, humidity-variable  EN ISO 12572  Vapour permeance, humidity-variable  EN ISO 12572  Surface burning characteristics  ASTM E84  Class A (Flame Spread 0; Smoke development index 105)  Fire class  EN 13501-1  E  Outdoor exposure  Outdoor exposure  Outdoor exposure for refurbishment betw. 2 insulation layers  Watertight joints with 'connect' adhesive strips or TESCON VANA tape  EN 13859-1  Watertightness to liquid water  EN 1928  W1  Water column  EN ISO 811  Passed  EN 12311-2  So N/5 cm / 170 N/5 cm ; 29 lb/in / 19 lb/in  Elongation MD/CD  EN 12311-2  Elongation MD/CD  EN 12310-1  EN 12310-1  Durability after artificial ageing  EN 1296  Permanent -40 °C to 80 °C; -40 °F to 176 °F  Thermal conductivity  Terman conductivity	sd value, humidity-variable	EN ISO 12572	0.25 - >25 m		
Vapour permeance       ASTM E96-A       0.23 perms         Vapour permeance, humidity-variable       EN ISO 12572       < 0.13 - 13 perms	g value		70 MN·s/g		
Vapour permeance, humidity-variableEN ISO 12572< 0.13 - 13 permsHydrosafe value (sd)DIN 68800-22 mSurface burning characteristicsASTM E84Class A (Flame Spread 0; Smoke development index 105)Fire classEN 13501-1EOutdoor exposure2 monthsOutdoor exposure for refurbishment betw. 2 insulation layers14 days; 7 days at ≤10 °C (≤50 °F)Watertight joints with 'connect' adhesive strips or TESCON VANA tapeEN 13859-1W1Water columnEN 1928W1Water columnEN ISO 811> 2 500 mm; > 8' 2"Tensile strength MD/CDEN 12311-2250 N/5 cm / 170 N/5 cm; 29 lb/in / 19 lb/inElongation MD/CDEN 12311-260% / 60%Nail tear resistance MD/CDEN 12310-1120 N / 120 N; 27 lbf / 27 lbfDurability after artificial ageingEN 1296PassedTemperature resistanceEN 1109, EN 1296, EN 1297Permanent -40 °C to 80 °C; -40 °F to 176 °FThermal conductivity0.04 W/(m·K); 0.3 BTU·in/(h·ft²-°F)	g value, humidity-variable		1.25 - >125 MN·s/g		
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Surface burning characteristics  ASTM E84  Class A (Flame Spread 0; Smoke development index 105)  Fire class  EN 13501-1  E  Outdoor exposure  Outdoor exposure for refurbishment betw. 2 insulation layers  Watertight joints with 'connect' adhesive strips or TESCON VANA tape  Watertightness to liquid water  EN 13859-1  W1  Water column  EN 150 811  Passed  EN 12311-2  EN 120 N / 120 N ; 27 lbf / 27 lbf  Durability after artificial ageing  EN 1296  EN 1297  EN 1296  Permanent -40 °C to 80 °C ; -40 °F to 176 °F  To 176 °F  Thermal conductivity	Vapour permeance, humidity-variable	EN ISO 12572	< 0.13 - 13 perms		
Fire class  EN 13501-1  E   Outdoor exposure  Outdoor exposure for refurbishment betw. 2 insulation layers  Watertight joints with 'connect' adhesive strips or TESCON VANA tape  Water column  EN 1928  W1  Water column  EN 150 811  EN 12311-2  EN 120 N / 120 N ; 27 lbf / 27 lbf  Durability after artificial ageing  EN 1296  Passed  Temperature resistance  EN 1109, EN 1296, Permanent -40 °C to 80 °C ; -40 °F to 176 °F  Thermal conductivity  EN 1297  EN 1297  EN 1297  EN 1296  EN 1296  EN 1297  EN 1296  EN 1296  EN 1297  EN 1296  EN 1296  EN 1296  EN 1296  EN 1297  EN 1296  EN 1296  EN 1297  EN 1296	Hydrosafe value (sd)	DIN 68800-2	2 m		
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 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)	Surface burning characteristics	ASTM E84			
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 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)	Fire class	EN 13501-1	Е		
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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 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)	Outdoor exposure		2 months		
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 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)	Outdoor exposure for refurbishment betw.				
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 1296, EN 1296 vol 176 °F       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)	Outdoor exposure for refurbishment betw. 2 insulation layers Watertight joints with 'connect' adhesive	EN 13859-1	14 days ; 7 days at ≤10 °C (≤50 °F)		
EN 12311-2 / 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 to 176 °F  Thermal conductivity 0.04 W/(m·K) ; 0.3 BTU-in/(h·ft²-°F)	Outdoor exposure for refurbishment betw. 2 insulation layers Watertight joints with 'connect' adhesive strips or TESCON VANA tape		14 days ; 7 days at ≤10 °C (≤50 °F) W1		
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, 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)	Outdoor exposure for refurbishment betw. 2 insulation layers Watertight joints with 'connect' adhesive strips or TESCON VANA tape Watertightness to liquid water	EN 1928	14 days ; 7 days at ≤10 °C (≤50 °F) W1 W1		
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)	Outdoor exposure for refurbishment betw. 2 insulation layers Watertight joints with 'connect' adhesive strips or TESCON VANA tape Watertightness to liquid water Water column	EN 1928 EN ISO 811	14 days ; 7 days at ≤10 °C (≤50 °F)  W1  W1  > 2 500 mm ; > 8' 2"  250 N/5 cm / 170 N/5 cm ; 29 lb/in		
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)	Outdoor exposure for refurbishment betw. 2 insulation layers Watertight joints with 'connect' adhesive strips or TESCON VANA tape Watertightness to liquid water Water column Tensile strength MD/CD	EN 1928 EN ISO 811 EN 12311-2	14 days ; 7 days at ≤10 °C (≤50 °F)  W1  W1  > 2 500 mm ; > 8' 2"  250 N/5 cm / 170 N/5 cm ; 29 lb/in / 19 lb/in		
Thermal conductivity  EN 1297 to 176 °F  0.04 W/(m·K); 0.3 BTU-in/(h-ft²-°F)	Outdoor exposure for refurbishment betw. 2 insulation layers Watertight joints with 'connect' adhesive strips or TESCON VANA tape Watertightness to liquid water Water column Tensile strength MD/CD Elongation MD/CD	EN 1928 EN ISO 811 EN 12311-2 EN 12311-2	14 days ; 7 days at ≤10 °C (≤50 °F)  W1  W1  > 2 500 mm ; > 8' 2"  250 N/5 cm / 170 N/5 cm ; 29 lb/in / 19 lb/in  60% / 60%		
	Outdoor exposure for refurbishment betw. 2 insulation layers Watertight joints with 'connect' adhesive strips or TESCON VANA tape Watertightness to liquid water Water column Tensile strength MD/CD Elongation MD/CD Nail tear resistance MD/CD	EN 1928 EN ISO 811 EN 12311-2 EN 12310-1	14 days; 7 days at ≤10 °C (≤50 °F)  W1  W1  > 2 500 mm; > 8' 2"  250 N/5 cm / 170 N/5 cm; 29 lb/in / 19 lb/in  60% / 60%  120 N / 120 N; 27 lbf / 27 lbf		
CE labelling EN 13984 Yes	Outdoor exposure for refurbishment betw. 2 insulation layers Watertight joints with 'connect' adhesive strips or TESCON VANA tape Watertightness to liquid water Water column Tensile strength MD/CD Elongation MD/CD Nail tear resistance MD/CD Durability after artificial ageing	EN 1928 EN ISO 811 EN 12311-2 EN 12310-1 EN 1296 EN 1109, EN 1296,	14 days; 7 days at ≤10 °C (≤50 °F)  W1  W1  > 2 500 mm; > 8' 2"  250 N/5 cm / 170 N/5 cm; 29 lb/in / 19 lb/in  60% / 60%  120 N / 120 N; 27 lbf / 27 lbf  Passed  Permanent -40 °C to 80 °C; -40 °F		
	Outdoor exposure for refurbishment betw. 2 insulation layers Watertight joints with 'connect' adhesive strips or TESCON VANA tape Watertightness to liquid water Water column Tensile strength MD/CD Elongation MD/CD Nail tear resistance MD/CD Durability after artificial ageing Temperature resistance	EN 1928 EN ISO 811 EN 12311-2 EN 12310-1 EN 1296 EN 1109, EN 1296,	14 days ; 7 days at ≤10 °C (≤50 °F)  W1  > 2 500 mm ; > 8' 2"  250 N/5 cm / 170 N/5 cm ; 29 lb/in / 19 lb/in  60% / 60%  120 N / 120 N ; 27 lbf / 27 lbf  Passed  Permanent -40 °C to 80 °C ; -40 °F to 176 °F		

## 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



#### Datasheet INTELLO X connect

## 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.















## Datasheet INTELLO X connect

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

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