



Technical data

		Substance
Fleece		Polypropylene
Membrane		Polyethylene copolymer
Reinforcement		Polypropylene non-woven fabric
Attribute	Regulation	Value
Colour		white-transparent
Surface weight	EN 1849-2	110 ±15 g/m ²
Thickness	EN 1849-2	0.40 ±0.1 mm
Water vapour resistance factor μ	EN 1931	18 750
sd-value	EN 1931	7.50 ±0.25 m
sd-value humidity variable	EN ISO 12572	0.25 - >25 m
g-value		37.50 ±1.25 MN-s/g
g-value humidity variable		1.25 - >125 MN-s/g
Water vapor permeance	ASTM E 96	0.44 US perms
Water vapor permeance humidity variable	ASTM E 96	13.12 - <0.13 US perms
Fire behaviour	EN 13501-1	E
Tensile strength MD/CD	EN 13859-1	350 N/5 cm / 290 N/5 cm
Elongation MD/CD	EN 13859-1	15 % / 15 %
Nail tear resistance MD/CD	EN 13859-1	240 N / 200 N
Artificial ageing by long term	EN 1296 / EN 1931	passed
Temperature resistance		-40 °C/-40 °F to +80 °C/176 °F
Coefficient of thermal conductivity		0.17 W/m·K
Airtightness	EN 12114	tested
CE labelling	EN 13984	available

Area of application

Can be used as a vapour check and airtightness membranes for all externally diffusion-open structures, e.g. with roof underlay (pro clima SOLITEX), softwood fibreboard or MDF board. For a high level of protection against moisture induced failures in structurally challenging constructions such as diffusion-resistant flat/pitched roofs. Also suitable in extreme environments such as in high mountain regions. Further information is given in the [study](#) "Calculating potential freedom from structural damage of thermal insulation structures in timber-built and steel systems"

Advantages

- ✓ Maximum protection for the insulation
- ✓ Ideal prevention against structural damage and mould, even in the event of unexpected moisture intrusion
- ✓ Extremely high moisture-variable diffusion resistance in any climate spanning a very wide range of more than 100 x:
 - sd-value: 0.25 m up to >25 m
 - g-value: 1.25 MNs/g up to > 125 MNs/g
 - water vapor permeance: 13.12 US perms down to <0.13 US perms
- ✓ High protection from condensation in winter climate
- ✓ High back-diffusion capacity in summer
- ✓ Very low coefficient of expansion when combined with spray insulation materials

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 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.

MOLL
bauökologische Produkte GmbH
 Rheintalstraße 35 - 43
 D-68723 Schwetzingen
 Fon: +49 (0) 62 02 - 27 82.0
 Fax: +49 (0) 62 02 - 27 82.21
 eMail: info@proclima.de



General conditions

Pro clima INTELLO PLUS should be laid with the side with the plastic film (the printed side) facing the installer. They can be laid flat either at right angles to or along the sub-structure (such as the rafters) without sagging. If laid horizontally (at right angles to the sub-structure) then the maximum space permitted between the rafters is 100 cm. After laying, it is necessary to support the weight of the insulation with lathing on the inside. The laths should be no more than 50 cm apart. If, when using insulation mats and boards, for example, you expect systematic 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.

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, INTELLO PLUS should be stuck down so that it is airtight immediately after installing the thermal insulation. This particularly applies when working in winter.

Additionally for injected foam insulation

INTELLO PLUS can also be used as a membrane for all types of injected foam insulation. Your reinforcing layer prevents stretching during injection of the insulation foam. 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 injected foam insulation should be introduced immediately after installing the airproofing layer. This particularly applies when working in winter.



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