

SOLITEX MENTO PLUS

Reinforced roof underlay



Technical data

		Substance
Protective and covering fleece		Polypropylene microfibre
Membrane		monolithic TEEE
Reinforcement		Polypropylene non-woven fabric
Attribute	Regulation	Value
Colour		anthracite
Surface weight	EN 1849-2	175 g/m ² ; 0.57 oz/ft ²
Thickness	EN 1849-2	0.60 mm ; 24 mils
Water vapor resistance factor μ	EN ISO 12572	83
sd-value	EN ISO 12572	0.05 m
g-value		0.25 MN-s/g
Vapour permeance	ASTM E 96	65 US perms
Fire rating	EN 13501-1	E
Outdoor exposure		4 months
Water column	EN ISO 811	> 2 500 mm ; > 8' 2"
Water tightness non-aged/aged*	EN 13859-1	W1 / W1
Tensile strength MD/CD	EN 13859-1 (A)	430 N/5 cm / 330 N/5 cm ; 49 lb/in / 38 lb/in
Tensile strength MD/CD aged*	EN 13859-1 (A)	495 N/5 cm / 315 N/5 cm ; 57 lb/in / 36 lb/in
Elongation MD/CD	EN 13859-1 (A)	20 % / 20 %
Elongation MD/CD aged*	EN 13859-1 (A)	20 % / 20 %
Nail tear resistance MD/CD	EN 13859-1 (B)	300 N / 300 N ; 67 lbf / 67 lbf
*) Durability after artificial ageing	EN 1297 / EN 1296	passed
Flexibility at low temperature	EN 1109	-40 °C ; -40 °F
Temperature resistance		permanent -40 °C to 100 °C ; -40 °F to 212 °F
Thermal conductivity		2.3 W/(m·K) ; 16 BTU-in/(h·ft ² ·F)
Weight-bearing	GS-BAU-20 (10/2003)	passed
Sarking membrane/roof lining membrane	ZVDH-Produktdatenblatt	USB-A / UDB-A
Temporary roof covering; suitable as ...	ZVDH	yes
CE labelling	EN 13859-1	yes

Application

For use as permeable roof underlay on roof decking, MDF and wood fibre underlay panels, and on all thermal insulation materials, including blown-in insulation materials.

Advantages

- ✓ Extremely robust thanks to reinforcement: suitable for blown-in insulation materials
- ✓ Flexible planning of construction schedules thanks to 4 months of outdoor exposure
- ✓ Ensures reliable building components: highly diffusion-open and maximum protection against driving rain
- ✓ Dry building components: pore-free TEEE functional membrane actively transports moisture to the outside
- ✓ Permanent protection thanks to the high resistance to ageing and heat of the TEEE membrane
- ✓ Reliable during the construction phase: suitable for temporary coverings during construction work

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.

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General conditions

SOLITEX MENTO membranes should be laid with the printed side facing the installer. The membranes are to be installed as an underlay or sarking membrane horizontally (parallel to the eave) in a taut manner with no sagging. When using as a sarking membrane the spacing between the rafters is restricted to 1 m (3 ft).

pro clima's Engineering Hotline or your local pro clima partner will be glad to provide information on how to proceed in the case of larger spacings.

The membrane must not be secured in areas where water collectively drains off (e.g. in grooves).

In the case of uninsulated, undeveloped attic floors, ridge ventilation should be provided. For this purpose, the SOLITEX membrane should finish 5 cm (2") before the ridge. In addition, the undeveloped attic floor should be provided with permanent ventilation devices. The membrane should be protected against the long-term effect of UV (e.g. by blocking the entrance of light through the windows).

To protect the construction during the building SOLITEX MENTO PLUS can be used as a temporary roof cover for up to 4 months (the recommendations for specific locations may differ). In this case the roof pitch must be at least 14°.

The system components TESCON NAIDECK nail sealing tape, ORCON F joint adhesive and TESCON VANA for sticking overlaps or joints must be used. The connect versions have two self-adhesive zones for secure exterior sealing. The applicable national regulations must be taken into account when installing and sticking pro clima underlay membranes.

According to the technical regulations of the roofing trade association, they are suitable as a sarking membrane for covering a tiled roof with simple overlapping as an additional protective measure against rain. When using as a roof lining membrane with simple overlapping on a timber shell, the SOLITEX MENTO membranes are also suitable at elevated requirements as an additional protective measure against rain.

Additionally for injected foam insulation

SOLITEX MENTO PLUS can also be used as a boundary layer for blown-in insulation materials of all types. A reinforcement structure ensures that there is little expansion during the blowing-in process.

It is recommended to use nail sealing underneath counter battens (e.g. TESCON NAIDECK).

The battens must already be fitted before the blowing-in process takes place. A protruding lath must be fitted on the supporting battens in the centre of the space between the rafters so that moisture occurring under the covering can mainly be drained off centrally between the rafters. This protruding lath should be at least 1 cm thicker than the counter battens. It limits the bulging of the membranes during the blowing-in process and ensures the necessary cross-sectional area for ventilation.

If the insulation material is blown in from the outside, the blow-in holes can subsequently be stuck using TESCON VANA with a width of 15 cm.



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