

SOLITEX MENTO PLUS

Reinforced roof underlay



Technical data

		Substance
Protective and covering fleece		Polypropylene microfibre
Membrane		monolithic TEEE
Reinforcement		Polypropylene non-woven fabric
Property	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	38 perms
Fire rating	EN 13501-1	E
Outdoor exposure		4 months
Hail-resistance class (Switz.)	VKF	HW 5 / watertightness test passed
Water column	EN ISO 811	> 2 500 mm ; > 8' 2"
Water tightness non-aged/aged*	EN 13859-1	W1 / W1
Watertight joints with 'connect' technology if TESCON VANA is used for sticking	EN 13859-1	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		0.04 W/(m·K) ; 0.3 BTU-in/ (h·ft ² ·F)
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.

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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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 and hail
- ✓ 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 as a temporary covering during the construction period

General conditions

SOLITEX MENTO membranes are to be installed with the printed side facing the installation technician. The membranes are to be installed as a roof underlay or sarking membrane horizontally (parallel to the eave) in a taut manner with no sagging. Ensure that the subsurface is even when installing the membrane as a roof underlay membrane. When the membrane is used as a sarking membrane, the rafter spacing is limited to 100 cm (3 ft).

Fasteners may not be applied in areas where water runs off in a collected manner (e.g. in roof valleys).

Ridge ventilation should be provided in the case of non-insulated attics that have not been converted. To do so, install the SOLITEX membrane in such a way that it stops 5 cm (2") before the ridge. In addition, permanent ventilation fittings should be provided in the unconverted attic. The membrane should be protected against the long-term impacts of UV radiation (e.g. by darkening windows).

The SOLITEX MENTO PLUS roof underlay can be used as temporary covering for up to 4 months to protect the building structure during the construction phase in accordance with the regulations of the Central Association of the German Roofing Trade (ZVDH); in this case, the roof pitch must be at least 14° (approx. 3:12). Other national regulations may vary. The system components TESCON NAIDECK nail sealing tape, ORCON F joint adhesive and TESCON VANA are to be used for bonding of overlaps and joints. The connect variant has two self-adhesive zones for reliable exterior sealing. The specifications of the applicable national regulations are to be taken into account when carrying out installation and adhesion.

Under the regulations of the German Roofing Trade, these membranes are suitable as 'sarking membranes' for covering a roof with roof tiles and roof stones with simple overlapping as an additional measure for rain protection. When used as an 'underlay membrane' with simple overlapping on timber cladding, SOLITEX MENTO membranes are also suitable as an additional measure for rain protection in the case of more demanding requirements.

Additional instructions for blown-in insulation materials

SOLITEX MENTO PLUS can also be used as a boundary layer for blown-in insulation materials of all types. It is recommended to use nail sealing underneath the counter battens (e.g. TESCON NAIDECK). The battens must already be fitted before the blowing-in process is carried out. A protruding lath must be installed under 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 (3/8") 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 (6").



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