SOLITEX MENTO® PLUS

Reinforced roofing underlay



Technical data

	Material
Protective and covering fleece	Polypropylene microfibre
Functional film	Monolithic TEEE
Reinforcement	Polypropylene non-woven fabric

Property	Regulation	Value
Colour		Anthracite
Surface weight	EN 1849-2	175 g/m² ; 0.57 oz/ft²
Thickness	EN 1849-2	0.60 mm ; 24 mils
Water vapour resistance factor μ	EN ISO 12572	133
sd value	EN ISO 12572	0.08 m
g value	EN ISO 12572	0.4 MN·s/g
Vapour permeance	ASTM E 96	41 perms
Reaction to fire classification	EN 13501-1	E
Outdoor exposure		4 months
Hail impact resistance	VKF / AEAI	Class HR 5
Watertight joints with 'connect' adhesive strips or TESCON tape	EN 13859-1	W1
Roofing underlay category (Germany)	ZVDH-Produktdatenblatt 2024	USB / UDB
Suitable as temporary roof covering (Germany)	ZVDH	4 months
Water column	EN ISO 811	> 2 500 mm ; > 8' 2"
Watertightness, 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
Fall-through protection	GS-IFA-B03	Passed, even for freely hanging membrane
Temperature resistance, permanent	EN 1109, EN 1296, EN 1297	-40 °C to 100 °C ; -40 °F to 212 °F
Thermal conductivity		0.04 W/(m·K) ; 0.3 BTU·in/(h·ft²·°F)
Resistance to alkalis	EN 1847	Passed
CE labelling	EN 13859-1	Yes

Areas of application

For use as a diffusion-open roofing underlay over roof sheathing, MDF and wood-fibre underlay panels, and over all thermal insulation materials, including blown-in insulation materials.

Supply forms

Art. no.	Length	Width	Contents	Weight	Sales unit	Container	GTIN
12905	50 m	1.5 m	75 m²	13.5 kg	1	20	4026639129055
13758	50 m	3 m	150 m²	27 kg	1	20	4026639137586

Advantages

- ✔ Extremely robust thanks to reinforcement: suitable for blown-in insulation materials
- ✔ Flexible planning of construction schedules thanks to 4 months of outdoor exposure
- ✔ Well-protected building structures: highly diffusion-open and maximum protection against driving rain and hail
- ✔ Dry building structures: pore-free TEEE functional film actively transports moisture to the outside
- ✔ Long-term protection thanks to the high resistance to ageing and heat of the TEEE functional film
- ✔ Provides protection during the construction period: suitable as a temporary covering

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 roofing underlay 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 roofing underlay membrane. When the membrane is installed as a freely hanging underlay membrane, the rafter spacing is limited to 100 cm (3′).

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 roofing 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 products TESCON NAIDECK nail-sealing tape, ORCON F adhesive sealant and TESCON VANA are to be used for sealing of overlaps and joints. The connect variant has two self-adhesive strips for reliable external 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 an additional measure for rain protection when installed as freely hanging underlay membranes with simple overlapping underneath roof tiles; when installed over timber sheathing as an underlay membrane with simple overlapping, SOLITEX MENTO membranes are also suitable as an additional measure for rain protection in the case of more demanding requirements.

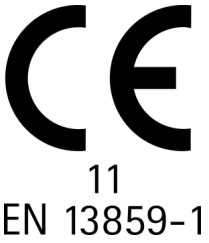
Additional instructions for blown-in insulation materials
SOLITEX MENTO PLUS can also be used as a boundary layer for blown-in insulation materials of all types. It is recommended to use nail-sealing underneath the counter battens (e.g. TESCON NAIDECK). The battens must already be fitted before the blowing-in process is carried out. A protruding lath must be installed under the horizontal roof battens in the centre of the space between the rafters so that moisture occurring under the covering is drained off centrally between the rafters. This protruding lath should be at least 1 cm (⅜″) 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 taped over using TESCON VANA with a width of 15 cm (6″).













The applications and conditions described here are based on current research findings and practical experience. We reserve the right to change the recommended application designs and installation methods and to develop and thus change the properties and quality of individual products. We would be glad to inform you about the current state of engineering knowledge at the time that your installation is carried out.

The planning documentation that is available from pro clima provides further information about installation methods and design details. If you have questions, please contact pro clima Technical Support in Germany at +49 6202 278245.

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