SOLITEX MENTO® 1000 connect

Light-weight roofing underlay, with self-adhesive strips



Technical data

	Material
Protective and covering fleece	Polypropylene microfibre
Functional film	Monolithic TEEE
Self-adhesive strips	Water-resistant SOLID adhesive

Colour Anthracite Surface weight EN 1849-2 115 g/m²; 0.38 oz/ft² Thickness EN 1849-2 0.40 mm ±0.05 mm; 16 mils Water vapour resistance factor μ EN ISO 12572 125 sd value EN ISO 12572 0.05 m g value 0.25 MN·s/g Vapour permeance ASTM E96 38 perms Surface burning characteristics ASTM E96 Class A (Flame Spread 0; Smoke Developed 85) Fire class/Surface burning characteristics ASTM E84 Class A Outdoor exposure 3 months Watertight joints with 'connect' adhesive strips or TESCON VANA tape EN 13859-1 W1 Watertight pioints with 'connect' adhesive strips or TESCON VANA tape EN 13859-1 W1 / W1 Watertightness, non-aged/aged* EN 13859-1 W1 / W1 NBC part 5.4.1.2.2 CAN/ULC-5741 air barrier assembly passed NBC part 9.27.3.2 CAN/CGBS 51.32 Passed Tensile strength MD/CD EN 13859-1 (A) 185 N/5 cm / 160 N/5 cm; 25 lb/in / 19 lb/in / 18 lb/in Elongation MD/CD EN 13859-1 (A) 60% / 70% Elongati	Property	Regulation	Value
Thickness EN 1849-2 0.40 mm ±0.05 mm; 16 mils Water vapour resistance factor μ EN ISO 12572 125 sd value EN ISO 12572 0.05 m g value 0.25 MN-s/g Vapour permeance ASTM E96 38 perms Surface burning characteristics ASTM E96 Class A (Flame Spread 0; Smoke Developed 85) Fire class EN 13501-1 E Fire class/Surface burning characteristics ASTM E84 Class A Outdoor exposure 3 months Watertight joints with 'connect' adhesive strips or TESCON VANA tape EN 13859-1 W1 Water column EN ISO 811 10 000 mm; 32' 10" Watertightness, non-aged/aged* EN 13859-1 W1 / W1 NBC part 5.4.1.2.2 CAN/ULC-5741 air barrier assembly passed NBC part 9.27.3.2 CAN/CGBS 51.32 Passed Tensile strength MD/CD EN 13859-1 (A) 185 N/5 cm / 170 N/5 cm; 25 lb/in / 19 lb/in / 18 lb/in Elongation MD/CD EN 13859-1 (A) 60% / 70% Elongation MD/CD, aged* EN 13859-1 (B) 130 N / 1	Colour		Anthracite
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Vapour permeanceASTM E9638 permsSurface burning characteristicsASTM E96Class A (Flame Spread 0; Smoke Developed 85)Fire classEN 13501-1EFire class/Surface burning characteristicsASTM E84Class AOutdoor exposure3 monthsWatertight joints with 'connect' adhesive strips or TESCON VANA tapeEN 13859-1W1Water columnEN ISO 81110 000 mm; 32' 10"Watertightness, non-aged/aged*EN 13859-1W1 / W1NBC part 5.4.1.2.2CAN/ULC-S741air barrier assembly passedNBC part 9.27.3.2CAN/CGBS 51.32PassedTensile strength MD/CDEN 13859-1 (A)220 N/5 cm / 170 N/5 cm; 25 lb/in / 19 lb/inTensile strength MD/CD, aged*EN 13859-1 (A)185 N/5 cm / 160 N/5 cm; 21 lb/in / 18 lb/inElongation MD/CD, aged*EN 13859-1 (A)60% / 70%Elongation MD/CD, aged*EN 13859-1 (B)130 N / 135 N; 29 lbf / 30 lbfNail tear resistance MD/CDEN 13859-1 (B)130 N / 135 N; 29 lbf / 30 lbf*) Durability after artificial ageingEN 1297 / EN 1296PassedFlexibility at low temperatureEN 1109-40 °C; -40 °FTemperature resistanceEN 1109, EN 1296, EN 1297Permanent -40 °C to 100 °C; -40 °F to 212 °FThermal conductivity0.04 W/(m·K); 0.3 BTU·in/ (h·ft²-°F)	sd value	EN ISO 12572	0.05 m
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Outdoor exposure3 monthsWatertight joints with 'connect' adhesive strips or TESCON VANA tapeEN 13859-1W1Water columnEN ISO 81110 000 mm; 32' 10"Watertightness, non-aged/aged*EN 13859-1W1 / W1NBC part 5.4.1.2.2CAN/ULC-S741air barrier assembly passedNBC part 9.27.3.2CAN/CGBS 51.32PassedTensile strength MD/CDEN 13859-1 (A)220 N/5 cm / 170 N/5 cm; 25 lb/in / 19 lb/inTensile strength MD/CD, aged*EN 13859-1 (A)185 N/5 cm / 160 N/5 cm; 21 lb/in / 18 lb/inElongation MD/CDEN 13859-1 (A)60% / 70%Elongation MD/CD, aged*EN 13859-1 (A)40% / 50%Nail tear resistance MD/CDEN 13859-1 (B)130 N / 135 N; 29 lbf / 30 lbf*) Durability after artificial ageingEN 1297 / EN 1296PassedFlexibility at low temperatureEN 1109-40 °C; -40 °FTemperature resistanceEN 1109, EN 1296, EN 1297Permanent -40 °C to 100 °C; -40 °F to 212 °FThermal conductivity0.04 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 Water column	Outdoor exposure		3 months
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NBC part 5.4.1.2.2 CAN/ULC-S741 air barrier assembly passed NBC part 9.27.3.2 CAN/CGBS 51.32 Passed Tensile strength MD/CD EN 13859-1 (A) 220 N/5 cm / 170 N/5 cm ; 25 lb/in / 19 lb/in Tensile strength MD/CD, aged* EN 13859-1 (A) 185 N/5 cm / 160 N/5 cm ; 21 lb/in / 18 lb/in Elongation MD/CD EN 13859-1 (A) 60% / 70% Elongation MD/CD, aged* EN 13859-1 (A) 40% / 50% Nail tear resistance MD/CD EN 13859-1 (B) 130 N / 135 N ; 29 lbf / 30 lbf *) Durability after artificial ageing EN 1297 / EN 1296 Passed Flexibility at low temperature EN 1109 -40 °C ; -40 °F Temperature resistance EN 1109, EN 1296, EN 1296, EN 1296, Permanent -40 °C to 100 °C ; -40 °F to 212 °F Thermal conductivity 0.04 W/(m·K) ; 0.3 BTU·in/ (h·ft²·°F)	Water column	EN ISO 811	10 000 mm ; 32' 10"
NBC part 9.27.3.2 CAN/CGBS 51.32 Passed Tensile strength MD/CD EN 13859-1 (A) 220 N/5 cm / 170 N/5 cm ; 25 lb/in / 19 lb/in Tensile strength MD/CD, aged* EN 13859-1 (A) 185 N/5 cm / 160 N/5 cm ; 21 lb/in / 18 lb/in Elongation MD/CD EN 13859-1 (A) 60% / 70% Elongation MD/CD, aged* EN 13859-1 (A) 40% / 50% Nail tear resistance MD/CD EN 13859-1 (B) 130 N / 135 N ; 29 lbf / 30 lbf *) Durability after artificial ageing EN 1297 / EN 1296 Passed Flexibility at low temperature EN 1109 -40 °C ; -40 °F Temperature resistance EN 1109, EN 1296, EN 1296, EN 1296, Permanent -40 °C to 100 °C ; -40 °F to 212 °F Thermal conductivity 0.04 W/(m·K) ; 0.3 BTU-in/ (h·ft²-°F)	Watertightness, non-aged/aged*	EN 13859-1	W1 / W1
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Tensile strength MD/CD, aged* EN 13859-1 (A) EN 13859-1 (B) EN 13859-1 (B) EN 130 N / 135 N ; 29 lbf / 30 lbf *) Durability after artificial ageing EN 1297 / EN 1296 Flexibility at low temperature EN 1109 EN 1296, Permanent -40 °C ; -40 °F EN 1109, EN 1296, EN 1297 Permanent -40 °C to 100 °C ; -40 °F to 212 °F CO.04 W/(m·K) ; 0.3 BTU-in/ (h·ft²-°F)	NBC part 9.27.3.2	CAN/CGBS 51.32	Passed
EN 13859-1 (A) Ib/in / 18 Ib/in	Tensile strength MD/CD	EN 13859-1 (A)	
Elongation MD/CD, aged* EN 13859-1 (A) 40% / 50% Nail tear resistance MD/CD EN 13859-1 (B) 130 N / 135 N ; 29 lbf / 30 lbf *) Durability after artificial ageing EN 1297 / EN 1296 Passed Flexibility at low temperature EN 1109 -40 °C ; -40 °F Temperature resistance EN 1109, EN 1296, EN 1296, EN 1296, Permanent -40 °C to 100 °C ; -40 °F to 212 °F Thermal conductivity 0.04 W/(m·K) ; 0.3 BTU·in/ (h·ft²·°F)	Tensile strength MD/CD, aged*	EN 13859-1 (A)	
Nail tear resistance MD/CD EN 13859-1 (B) 130 N / 135 N ; 29 lbf / 30 lbf *) Durability after artificial ageing EN 1297 / EN 1296 Flexibility at low temperature EN 1109 -40 °C ; -40 °F Temperature resistance EN 1109, EN 1296, EN 1296, EN 1297 Thermal conductivity Permanent -40 °C to 100 °C ; -40 °F to 212 °F -40 °F to 212 °F 0.04 W/(m·K) ; 0.3 BTU-in/ (h·ft²-°F)	Elongation MD/CD	EN 13859-1 (A)	60% / 70%
) Durability after artificial ageing EN 1297 / EN 1296 Passed Flexibility at low temperature EN 1109 -40 °C; -40 °F Temperature resistance EN 1109, EN 1296, EN 1297 Permanent -40 °C to 100 °C; -40 °F to 212 °F Thermal conductivity 0.04 W/(m·K); 0.3 BTU-in/(h-ft2·°F)	Elongation MD/CD, aged	EN 13859-1 (A)	40% / 50%
Flexibility at low temperature EN 1109 -40 °C ; -40 °F Temperature resistance EN 1109, EN 1296, EN 1297 Permanent -40 °C to 100 °C ; -40 °F to 212 °F Thermal conductivity $0.04 \text{ W/(m\cdot K)}$; 0.3 BTU-in/ (h·ft²-°F)	Nail tear resistance MD/CD	EN 13859-1 (B)	130 N / 135 N ; 29 lbf / 30 lbf
Temperature resistance EN 1109, EN 1296, EN 1296, EN 1297 Permanent -40 °C to 100 °C; -40 °F to 212 °F Thermal conductivity 0.04 W/(m·K); 0.3 BTU·in/ (h·ft²·°F)	*) Durability after artificial ageing	EN 1297 / EN 1296	Passed
Thermal conductivity EN 1297 -40 °F to 212 °F 0.04 W/(m·K); 0.3 BTU-in/ (h·ft²·°F)	Flexibility at low temperature	EN 1109	-40 °C ; -40 °F
Inermal conductivity (h-ft²-°F)	Temperature resistance		·
CE labelling EN 13859-1 Yes	Thermal conductivity		
	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 mat or panel-shaped thermal insulation materials.

Supply forms

Art. no.	GTIN	Length	Width	Contents	Weight	Sales unit	Container
12219	4026639122193	50 m	1.5 m	75 m²	9 kg	1	30



Datasheet SOLITEX MENTO 1000 connect

Advantages

- ✓ Up to 3 months of outdoor exposure
- ✓ Well-protected building components: highly diffusion-open and maximum protection against driving rain
- ✓ Dry building components: pore-free TEEE functional film actively transports moisture to the outside
- ✓ Permanent 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
- ✓ Quick and reliable adhesion thanks to the integrated 'connect' self-adhesive strips on the long edges of the membrane

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 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 1000 roofing underlay can be used as temporary covering for up to 3 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 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.











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 bauökologische Produkte GmbH

