

# SOLITEX UM connect

Underlay membrane with 3D separation mesh and self-adhesive strips



## Technical data

	Substance	
Structured underlay	Polypropylene	
Protective and covering fleece	Polypropylene microfibre	
Membrane	monolithic TEEE	
Self-adhesive zones	Butyl rubber	
Property	Regulation	Value
Colour		anthracite
Surface weight	EN 1849-2	420 g/m <sup>2</sup> ; 1.38 oz/ft <sup>2</sup>
Thickness	EN 1849-2	8.0 mm ; 315 mils
Water vapor resistance factor $\mu$	EN ISO 12572	6
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		3 months
Water column	EN ISO 811	10 000 mm ; 32' 10"
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)	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		permanent -40 °C to 100 °C ; -40 °F to 212 °F
Thermal conductivity		0.04 W/(m·K) ; 0.3 BTU-in/ (h·ft <sup>2</sup> ·F)
CE labelling	EN 13859-1	yes

## Application

For use as a roof lining or facade membrane for ventilated and non-ventilated structures in combination with all roof and facade materials such as titanium zinc, aluminium, stainless steel, galvanised steel, copper etc. Fibrous membranes offer greater protection for structures and are recommended by leading providers of metal roofs for this reason. The 8 mm (5/16") thick 3D separation mesh made of fibrous PP protects the covering against waterlogging and dampens noise caused by rain or hail.

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

- ✓ Highest possible durability and thermostability thanks to the TEEE membrane
- ✓ Reliable drying out: highly permeable ( $s_d$  value = 0.05 m ; g value = 0.25 MN·s/g ; 65 US perms)
- ✓ Protects against corrosion and ensures improved noise insulation thanks to the 3D separation mesh
- ✓ Dry building components thanks to pore-free TEEE membrane that is resistant to driving rain
- ✓ Up to 3 months of outdoor exposure
- ✓ Quick and reliable adhesion thanks to the integrated 'connect' self-adhesive zones on the long edges of the membrane

## General conditions

Install the SOLITEX UM membrane with the fibrous layer side facing outwards. The membrane is to be installed horizontally (parallel to the eave) in a taut manner as an underlay membrane on even roof decking made of solid wood or wood-based panels.

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. In addition, permanent ventilation fittings should be provided in the unconverted attic.

Additional measures (e.g. covering with tarpaulins) should be taken during the construction phase in the case of buildings that are lived in or buildings that are to be given particular protection. Covering with tarpaulins should also be considered if construction work is to be interrupted for a longer period. The specifications of the applicable national regulations are to be taken into account when carrying out installation and adhesion.



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