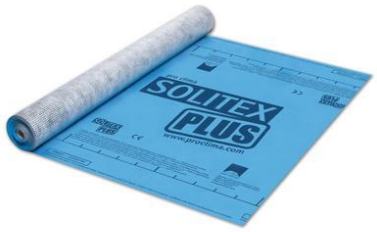
SOLITEX® PLUS

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		Light blue
Surface weight	BS EN 1849-2	170 g/m²
Thickness	BS EN 1849-2	0.55 mm
Water vapour resistance factor μ	BS EN ISO 12572	73
sd value	BS EN ISO 12572	0.04 m
sd value, humidity-variable		< 0.02 m
g value		0.20 MN·s/g
g value, humidity-variable		< 0.10 MN·s/g
Fire class	BS EN 13501-1	E
Outdoor exposure		3 months
Watertight joints with 'connect' adhesive strips or TESCON tape	BS EN 13859-1	W1
Sarking/roofing underlay membrane (Germany)	ZVDH-Produktdatenblatt 2024	USB / UDB
Suitable as temporary roof covering (Germany)	ZVDH	Yes
Water column	BS EN ISO 811	> 2 500 mm
Watertightness, non-aged/aged*	BS EN 13859-1	W1 / W1
Tensile strength MD/CD	BS EN 13859-1 (A)	450 N/5 cm / 330 N/5 cm
Tensile strength MD/CD, aged*	BS EN 13859-1 (A)	495 N/5 cm / 350 N/5 cm
Elongation MD/CD	BS EN 13859-1 (A)	20% / 20%
Elongation MD/CD, aged*	BS EN 13859-1 (A)	15 % / 15 %
Nail tear resistance MD/CD	BS EN 13859-1 (B)	370 N / 400 N
*) Durability after artificial ageing	BS EN 1297 / BS EN 1296	Passed
Flexibility at low temperature	BS 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)
CE labelling	BS EN 13859-1	Yes

Areas of application

Diffusion-open roofing underlay for installation hanging freely across the rafters or else over roof sheathing, MDF and wood-fibre underlay panels and thermal insulation materials of all kinds, including blown-in insulation.

Advantages

- ✔ Dry building structures: pore-free TEEE functional film: humidity-variable s_d value less than 0.02 m (g value < 0.10 MN·s/g)
- ✔ High ageing resistance and thermal stability thanks to the TEEE functional film
- ✔ High tear resistance thanks to reinforcement: suitable for blown-in insulation, particularly good protection against penetration, high nail tear resistance
- ✔ Up to 3 months of outdoor exposure
- ✔ Provides protection during the construction period: suitable as a temporary covering

General conditions

SOLITEX PLUS 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.

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 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 PLUS 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°. 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 PLUS 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 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 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.

NSAI Agrément
Solitex Plus & Solitex Plus Connect Vapour Permeable Roof Underlays
CERT No. 02/0138

BBA APPROVAL INSPECTION TESTING CERTIFICATION
CERTIFICATE No 07/4432

CE
07
EN 13859-1

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Further information about application and construction is given in the pro clima planning documentation and application recommendations. If you have any questions, please call the pro clima technical hotline Ireland and UK:
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