

Installation instructions

SOLITEX® PLUS

Installation steps



1. Install the membrane

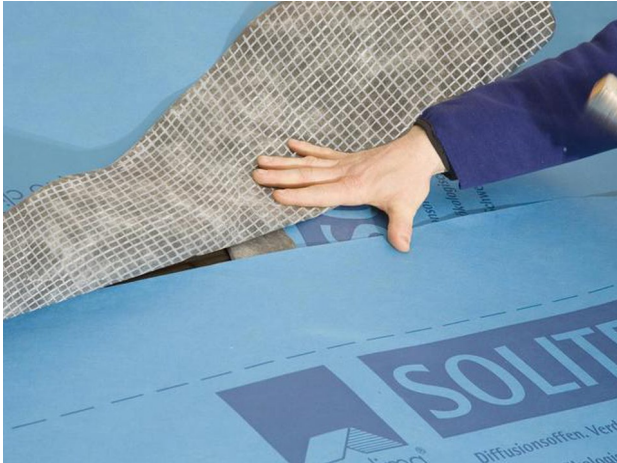
If there are valleys present, first install an underlay membrane along the valley with equal parts on each of the two roof surfaces.



2. Install the membrane

Fold back the membranes by approx. 5 cm on their long sides and attach using staples sparingly.

Tape the underlay membranes installed over the valley membrane using TESCON VANA. Roll out the membrane parallel to the eave and use galvanised staples that are at least 10 mm wide by 8 mm long to fasten the membrane in the overlap area in a manner that protects against moisture entry. Install the membrane leaving an additional 4 cm overlap at adjacent building components so that a windtight bond can be applied here subsequently.



3. Overlap the membranes

Allow for an overlap of approx. 10 cm between the membranes. The marking that is printed onto the membrane will serve as a guide here.



4. Stick the overlap

Clean the subsurface (dry and free of dust, silicone and grease) and carry out an adhesion test, if necessary.

Centre the TESCON VANA system adhesive tape on the overlap and gradually stick it in place, ensuring that there are no folds or tension.



5. 'connect' adhesion

Sticking of membrane overlaps using connect membranes with two integrated self-adhesive strips. Rub firmly using the pro clima PRESSFIX application tool to secure the adhesive bond. Ensure that there is sufficient resistance pressure.



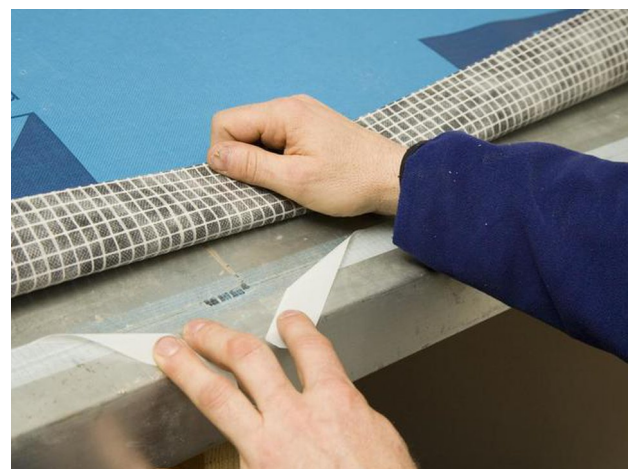
6. 'connect' adhesion

Membranes without self-adhesive zones can be bonded using double-sided DUPLEX in a manner that protects against moisture. Handling can be simplified by using the DUPLEX dispenser – press in place, roll out and cut to length in a single working step. Rub firmly using the pro clima PRESSFIX application tool to secure the adhesive bond. Ensure that there is sufficient resistance pressure.



7. Ridge / hip installation

In the case of fully insulated cross sections, place membranes over the ridge/hip and attach in place using staples in the area around the counter batten. Overlap relative to the membrane underneath of at least 10–15 cm. Then stick in an airtight manner using the TESCON VANA system adhesive tape. Rub firmly using the pro clima PRESSFIX application tool to secure the adhesive bond. Ensure that there is sufficient resistance pressure.



8. Sealing at eaves

Position the membrane on the eave flashing or eave strip and stick in place using the integrated self-adhesive strip (for connect membranes), double-sided DUPLEX adhesive tape or single-sided TESCON VANA system adhesive tape, ensuring that there are no folds or creases. Rub firmly using the pro clima PRESSFIX application tool to secure the adhesive bond. Ensure that there is sufficient resistance pressure.



9. Dormer / wall joints

Allow around 15 cm of SOLITEX PLUS to run up onto the dormer cheek and attach it at the upper membrane edge using staples. SOLITEX PLUS can also be used in the area of dormer cheeks to provide protection against outdoor exposure during the construction phase.



10. Sealing to rough or mineral substraces

First create a smooth finish on rough wall caps. Clean the subsurface. Apply a line of ORCON F system adhesive of at least $d = 5$ mm (more in the case of rough substraces, if necessary). Apply the membrane, leaving slack to allow for expansion, and do not press the adhesive completely flat.



11. Sealing at skylights

SOLITEX membranes can be bonded to smooth surfaces such as skylights, chimneys, pipes and other roof elements using the TESCO PROTECT system adhesive tape.



12. Installation of a water deflector

Install a batten with a lateral fall above the integrated roof element and stick it to the membrane using TESCO VANA. Create the water deflector in such a way that moisture is guided by a continuous counter batten into the next adjacent field that does not have an integrated roof element.



13. Nail sealing

When installing temporary covering, TESCO NAIDECK nail sealing tape must be installed between the counter battens and the SOLITEX membrane in order to create a seal.

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 components TESCON NAIDECK nail-sealing tape, ORCON F joint adhesive 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 stuck using TESCON VANA with a width of 15 cm.

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 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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