

Installation instructions SOLITEX MENTO® PLUS

Installation steps



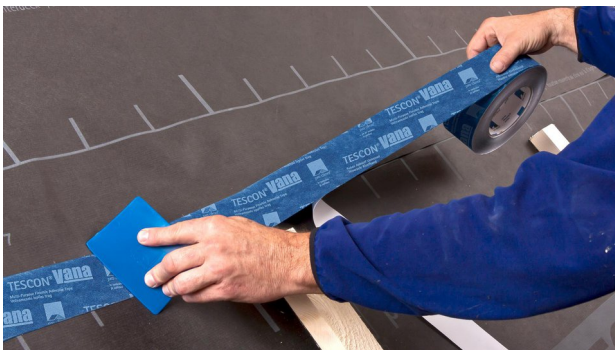
1. Install the membrane

Roll out the membrane parallel to the eave and use galvanised staples that are at least 10 mm (3/8") wide and 8 mm (5/16") long to fasten the membrane in the overlap area in a manner that protects against moisture. Install the membrane to stop approx. 4 cm (2") short of adjacent building components so that a windtight bond can be applied here subsequently.



2. Overlap the membranes

Allow for an overlap of approx. 10 cm (4") between the membranes. The marking that is printed onto the membrane will serve as a guide here.



3. 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. Rub tape firmly into place using the pro clima PRESSFIX. Ensure that there is sufficient resistance pressure.



4a. connect adhesion technology

Sticking of membrane overlaps using connect membranes with two integrated self-adhesive sections.



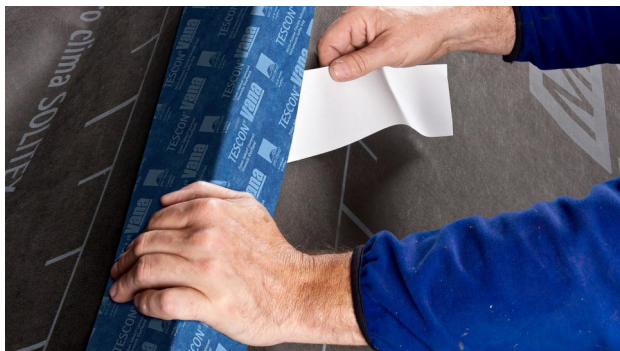
4b. connect adhesion technology

Rub tape firmly into place using the pro clima PRESSFIX. Ensure that there is sufficient resistance pressure.



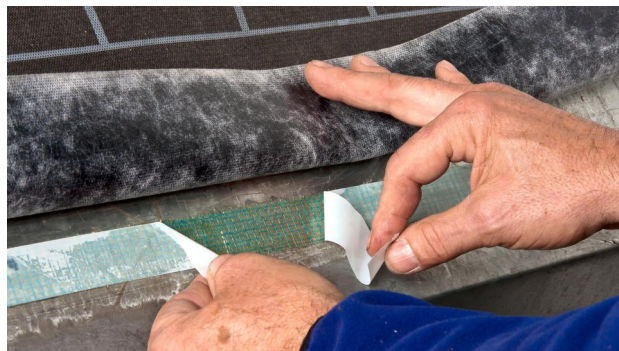
5a. Ridge / hip formation

In the case of fully insulated cross sections, place membranes over the ridge/hip and attach in place using staples in the area of the counter batten. Overlap relative to the membrane underneath of at least 10-15 cm (4"-6").



5b. Ridge / hip formation

Then stick in an airtight manner using the TESCON VANA system adhesive tape. Alternatively, stick a wide strip of TESCON VANA onto the ridge. Rub tape firmly into place using the pro clima PRESSFIX. Ensure that there is sufficient resistance pressure.



6. Sealing at eaves

Position the membrane on the eave flashing or eave strip and stick in place using the integrated self-adhesive zone (for connect membranes), double-sided DUPLEX adhesive tape or single-sided TESCON VANA system adhesive tape, ensuring that there are no folds or creases.



7a. 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 with a thickness of at least 5 mm (3/16") (more in the case of rough substraces, if necessary).



7b. Sealing to rough or mineral substraces

Apply the membrane, leaving slack to allow for expansion, and do not press the adhesive completely flat.



8. Sealing at skylights

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



9. Installation of a water deflector

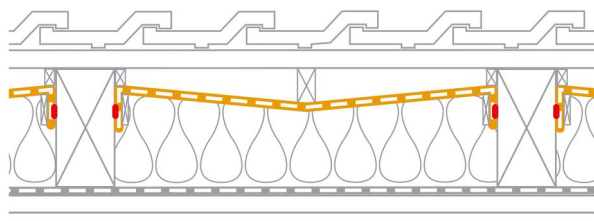
Install a batten with a lateral fall above the integrated roof element and stick it to the membrane using TESCON VANA. Create the water deflector in such a way that moisture is guided by a continuous counter batten into the next adjacent field that does not have an integrated roof element.



10. Nail sealing

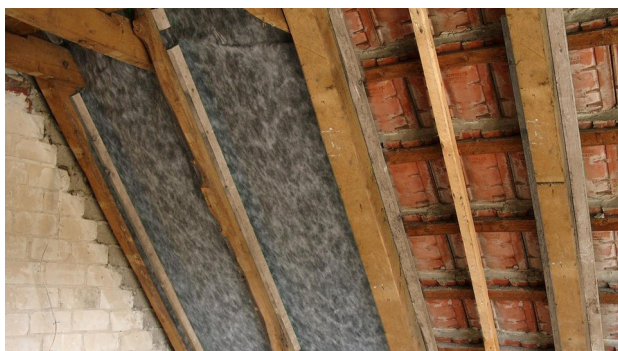
When installing temporary covering, TESCON NAIDECK nail sealing tape must be installed between the counter battens and the SOLITEX membrane in order to create a seal.

Retrofitting underlay from the inside



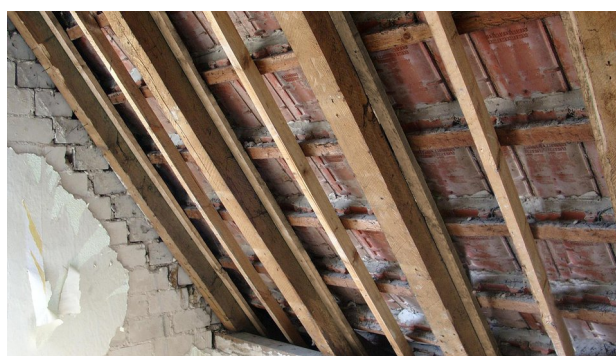
Installation principle

The 'protruding lath' forms a valley and drains any water that has entered to the middle of the area between the rafters (away from the rafters) and towards the eaves.



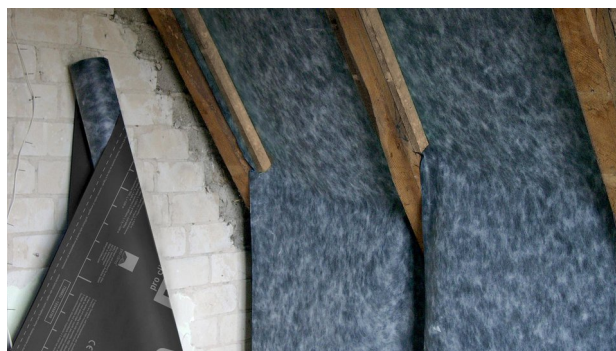
Install the membrane

Install SOLITEX longitudinally or perpendicularly, proceeding in turn from one space between rafters to the next. Ensure that the overlaps are waterproof.



Battens

Affix a batten at the sides (min. height of 2 cm, e.g. 2.5 x 4 [1" x 2"]). Screw a 'protruding lath' that is 1.5 - 2 cm thicker (e.g. 4 x 6 [2" x 3"]) to the roof battens in the space between rafters.



Fastening and water flow

Affix battens at the sides.
Alternative: Use DASATOP FIX.
Ensure drainage through the knee wall into the eave area.



You're finished!

Completed underlay retrofitted from the inside.



Final steps

Install insulation in the space between the rafters. Install the airtightness layer, e.g. INTELLO, install inner cladding. You're finished!

SOLITEX MENTO[®] system – Retrofitting underlay from the inside

In cases where there is no underlay present, underlay can be retrofitted from the inside using one of the SOLITEX roof underlays.

SOLITEX membranes are equipped with a monolithic, pore-free functional membrane.

As a result, they are watertight against water from the outside and can actively transport moisture from the building structure into the open at the same time. This ensures optimal protection for the insulation structure.

If blown-in insulation materials are used, use of the reinforced product variants SOLITEX MENTO PLUS or SOLITEX MENTO ULTRA is recommended.

Advantages

- Ensures reliable building components: highly diffusion-open and maximum protection against driving rain
- Dry building components: pore-free TEEE functional membrane actively transports moisture to the outside
- Permanent protection thanks to the high resistance to ageing and heat of the TEEE membrane
- SOLITEX MENTO PLUS / ULTRA: extremely robust thanks to reinforcement: suitable for blown-in insulation materials

Reliable system for installation from the inside

Roof structures without underlay and thus without a counter-batten plane are often encountered on existing buildings.

If insulation is to be fitted on these structures, it is recommended to first retrofit an exterior windtightness layer to improve the reliability of the structure. This measure is recommended for a max. period of 5 years.

The roof pitch of the roof tiles must not be less than the standard roof pitch. The roof pitch must be at least 20°.

Installation is carried out from the inside, proceeding in turn from one space between rafters to the next. Battens at the corners of the rafters/tile battens allows for the necessary ventilation for the roof covering. A 'protruding lath' in the middle of the space between rafters results in a valley in the SOLITEX membrane.

In this way, any water that has entered can be drained off to the middle of the area between the rafters (away from the rafters) and towards the eaves. Attach the SOLITEX membrane to the rafters using battens or DASATOP FIX. The membranes must be overlapped in a waterproof manner and must drain reliably into the open.

General conditions

SOLITEX MENTO membranes should be laid with the printed side facing the installer. The membranes are to be installed as an underlay or sarking membrane horizontally (parallel to the eave) in a taut manner with no sagging. When using as a sarking membrane the spacing between the rafters is restricted to 1 m (3 ft).

pro clima's Engineering Hotline or your local pro clima partner will be glad to provide information on how to proceed in the case of larger spacings.

The membrane must not be secured in areas where water collectively drains off (e.g. in grooves).

In the case of uninsulated, undeveloped attic floors, ridge ventilation should be provided. For this purpose, the SOLITEX membrane should finish 5 cm (2") before the ridge. In addition, the undeveloped attic floor should be provided with permanent ventilation devices. The membrane should be protected against the long-term effect of UV (e.g. by blocking the entrance of light through the windows).

To protect the construction during the building SOLITEX MENTO PLUS can be used as a temporary roof cover for up to 4 months (the recommendations for specific locations may differ). In this case the roof pitch must be at least 14°.

The system components TESCON NAIDECK nail sealing tape, ORCON F joint adhesive and TESCON VANA for sticking overlaps or joints must be used.

The connect versions have two self-adhesive zones for secure exterior sealing. The applicable national regulations must be taken into account when installing and sticking pro clima underlay membranes.

According to the technical regulations of the roofing trade association, they are suitable as a sarking membrane for covering a tiled roof with simple overlapping as an additional protective measure against rain. When using as a roof lining membrane with simple overlapping on a timber shell, the SOLITEX MENTO membranes are also suitable at elevated requirements as an additional protective measure against rain.

Additionally for injected foam insulation

SOLITEX MENTO PLUS can also be used as a boundary layer for blown-in insulation materials of all types. A reinforcement structure ensures that there is little expansion during the blowing-in process.

It is recommended to use nail sealing underneath counter battens (e.g. TESCON NAIDECK).

The battens must already be fitted before the blowing-in process takes place. A protruding lath must be fitted on the supporting battens in the centre of the space between the rafters so that moisture occurring under the covering can mainly be 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 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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