Installation instructions

SOLITEX MENTO® 3000

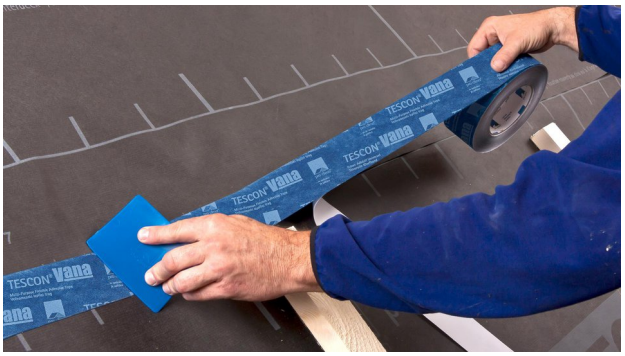
Installation steps

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 by 8 mm (5/16") 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 (1 5/8") overlap at adjacent building components so that an airtight 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. Tape the overlap

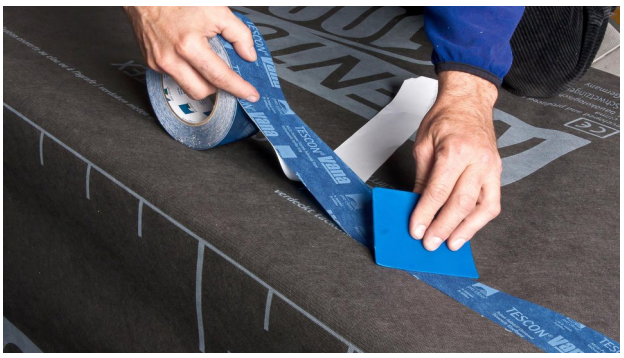
Clean the subsurface (dry and free of dust, silicone and grease) before taping; carry out an adhesion test, if necessary.
Centre the TESCON VANA system adhesive tape on the overlap and gradually stick it in place, ensuring that there are no folds or tension. Rub the tape firmly using the pro clima PRESSFIX to secure the adhesive bond. Ensure that there is sufficient resistance pressure.

4a. 'connect' adhesion

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

4b. 'connect' adhesion

Rub the tape firmly using the pro clima PRESSFIX to secure the adhesive bond. Ensure that there is sufficient resistance pressure.

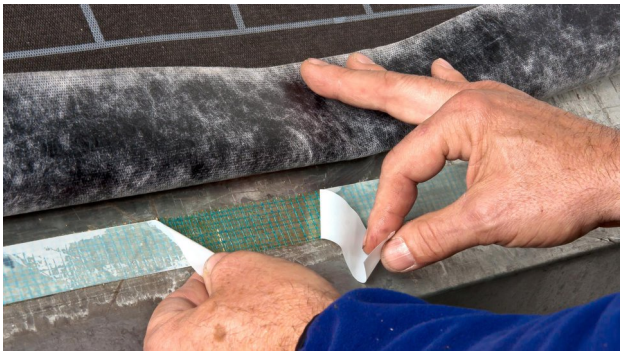


5a. Ridge / hip formation

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 the tape firmly using the pro clima PRESSFIX to secure the adhesive bond. 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 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.

7a. Sealing to rough or mineral subsurfaces

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 subsurfaces, if necessary).

7b. Sealing to rough or mineral subsurfaces

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

8. Sealing at skylights

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

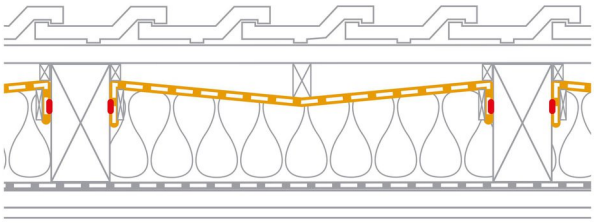
9. Installation of a water deflector

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. Sealing nail perforations

When installing temporary covering, TESCON NAIDECK nail-sealing tape must be installed between the counter battens and the MENTO 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.

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.

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.

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 roofing underlay from the inside

In cases where there is no roofing underlay present, underlay can be retrofitted from the inside using one of the SOLITEX roofing underlays. SOLITEX membranes are equipped with a monolithic, pore-free functional film. 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

- 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
- 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 provide the necessary ventilation for the roof covering. A 'protruding lath' fitted in the middle of the space between rafters forms 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 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 3000 roofing underlay can be used as temporary covering for up to 4 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 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 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).

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