

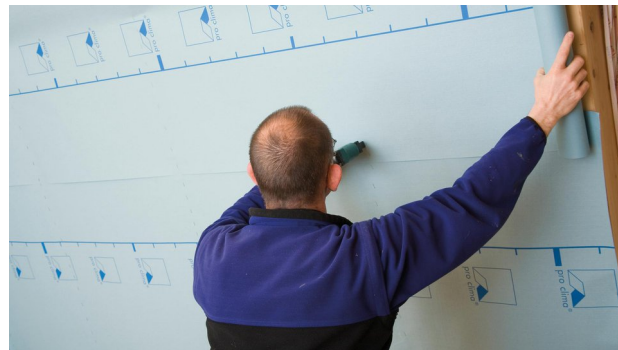
Installation instructions DB+

Installation steps



1. Install the membrane

Roll out the membrane and fasten it using staples with a width of at least 10 mm [3/8"] and a length of 8 mm [5/16"] at intervals of 10-15 cm [4"-6"] (5-10 cm [2"-4"] for blown-in insulation). 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 in the case of horizontal installation

Allow the membranes to overlap by approx. 10 cm (4") in the case of installation perpendicular to the supporting structure. The marking that is printed onto the membrane will serve as a guide here.



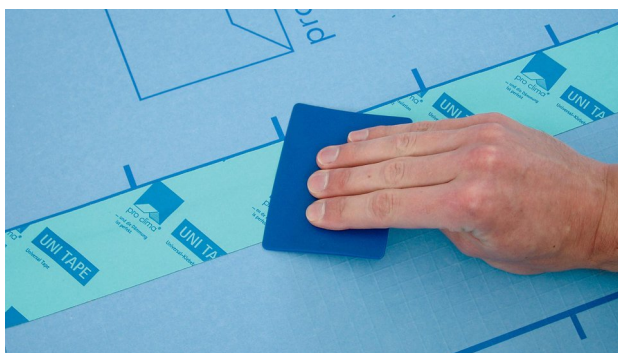
3. Overlap the membranes in the case of vertical installation

Allow for an overlap of at least 1 cm [1/16"] on fixed subsurfaces (e.g. rafters) in the case of installation parallel to the supporting structure.



4a. Stick the overlap

Clean the subsurface (dry and free of dust, silicone and grease) and carry out an adhesion test, if necessary. Centre the UNI TAPE system adhesive tape on the overlap and gradually stick it in place, ensuring that there are no folds or tension.



4b. Stick the overlap

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



5. Sealing to smooth, non-mineral subsurfaces ...

... (e.g. knee walls made of wood-based panels) should also be implemented using UNI TAPE system adhesive tape. Centre the tape and gradually stick it in place, ensuring that there are no folds or tension (PRESSFIX).



6. Sealing to rough or mineral substrates

Clean the subsurface. Apply a line of ECO COLL system adhesive of at least $d = 5 \text{ mm}$ [3/16"], or more in the case of very rough substrates if necessary. Place DB+ onto the adhesive bed, leaving slack to allow for expansion. Do not press the adhesive completely flat.



7b. Sealing to unplastered substrates

Guide the vapour check into position, remove the release film from CONTEGA PV and stick the vapour check to the tape.



7a. Sealing to unplastered substrates

Attach the CONTEGA PV plaster sealing tape to the wall initially at discrete points using ORCON F. The adhesive strip should be facing inwards.



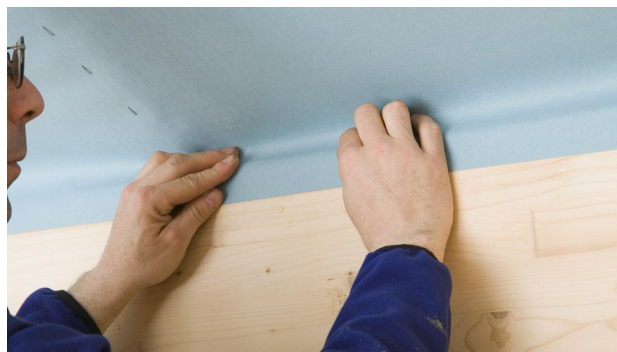
7c. Sealing to unplastered substrates

First plaster behind the tape, then apply the tape to the wet plaster and plaster over it fully.



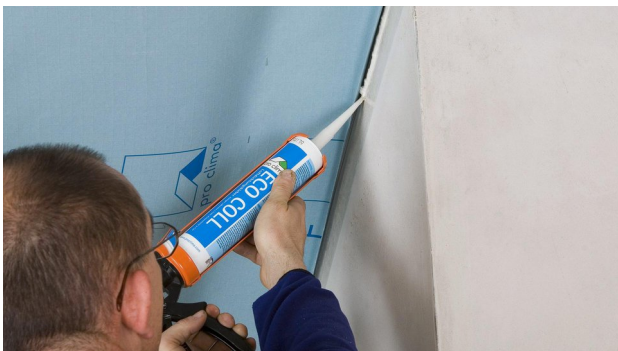
8a. Sealing to roughly sawn timber

Clean the subsurface. Apply a line of ECO COLL system adhesive of at least $d = 5 \text{ mm}$ [3/16"], or more in the case of very rough substrates if necessary. As an alternative, ORCON LINE joint adhesive from a roll can be used.



8b. Sealing to roughly sawn timber

Place DB+ onto the adhesive bed, leaving slack to allow for expansion. Do not press the adhesive completely flat.



9a. Sealing to plastered chimney (insulated or double-shelled)

Seal DB+ with ECO COLL as shown in Figure 6.



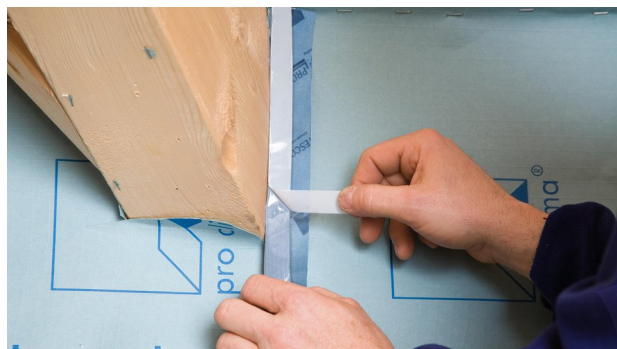
9b. Sealing to plastered chimney (insulated or double-shelled)

Then cut into short pieces of TESCO VANA as far as the centre, create corner shapes and then stick in place.



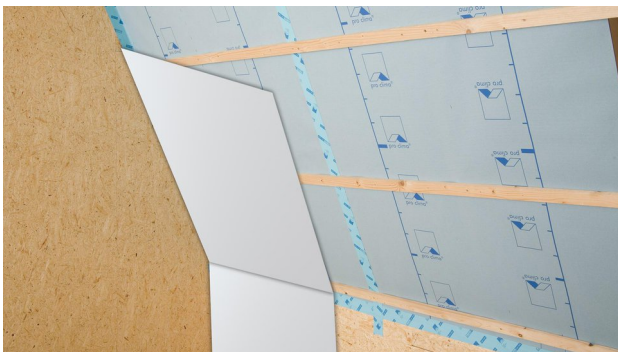
10. Joints to pipes and cables

Place a KAFLEX or ROFLEX sealing grommet over the cable or pipe and stick it to DB+. The cable grommets are self-adhesive. Stick the pipe grommets to the membrane using TESCO VANA or UNI TAPE.



11. Corner bonding

Guide TESCO PROFECT prefolded corner sealing tape into the corner on the release film and stick the first independent adhesive strip. Then remove the release film and stick the second independent adhesive strip.



12. Battens, interior cladding

Install battens (e= max. 65 cm [2' 2"]) to bear the weight of the insulation, and install interior cladding to provide protection against UV light and other damage.



13. Quality assurance

It is recommended that airtightness should be checked using a BlowerDoor test.

Roof reburbishment from the outside



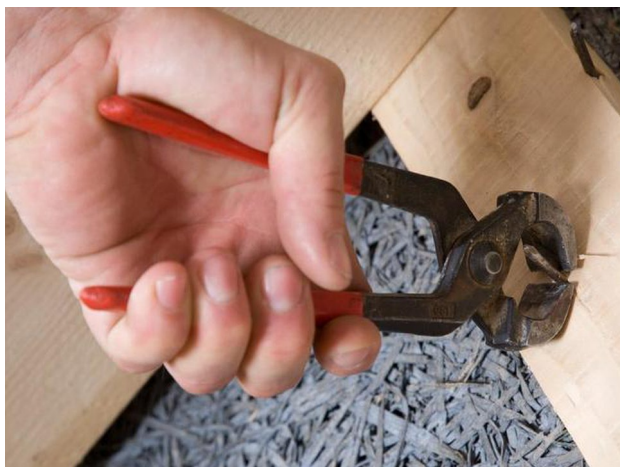
1a. Clean the subsurface

Clean the subsurface. Brush off with a hand brush, ...



1b. Clean the subsurface

... if necessary, clean with a vacuum cleaner and wipe down.



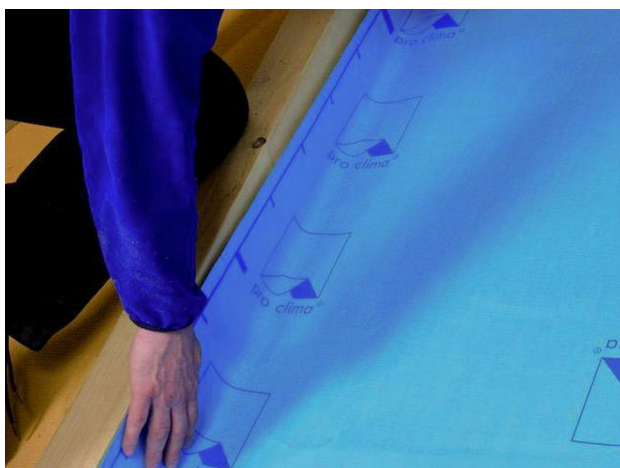
2. Preparation

Remove any sharp-edged or pointy objects (e.g. nails) that protrude from the interior cladding into the area between the rafters.



3. If necessary, insert padding

To protect DB+, install panel-shaped insulating material with a strong structure on the existing interior cladding. The thickness of the insulation underneath DB+ should be a max. of 1/3 of the total insulation thickness.



4a. Install the membrane

Roll out the membrane parallel to the rafters, align it, allow an extra 3-4 cm (1 1/4" - 1 5/8") at the sides of the rafters and press neatly into the corners with an auxiliary lath.



4b. Install the membrane

Avoid convection tunnels. Install the membrane leaving an additional 4 cm (1 5/8") overlap at adjacent building components too so that an airtight bond can be applied here subsequently.



5. Fix to the rafters

Fasten the membrane using galvanised staples with a width of at least 10 mm (3/8") and a length of 8 mm (5/16") at intervals of 10-15 cm (4"-6"). The auxiliary lath that can be moved freely can serve as a support for the pneumatic staple gun and protects the membrane against damage.



6b. Seal at the rafters in an airtight manner

Apply a line of ECO COLL system adhesive of at least $d = 5 \text{ mm}$ (3/16") to roughly sawn rafters, or more in the case of very rough subsurfaces if necessary, and stick the membrane to this.



6a. Clean the subsurface

Clean the subsurface (dry and free of dust, silicone and grease). If necessary, brush off, clean with a vacuum cleaner and wipe down. Very fine dust can be bound by applying TESCON PRIMER.



7. Sealing to smooth rafters

Bond to smooth/planed rafters using the UNI TAPE universal adhesive tape. Apply the adhesive tape centrally and gradually stick it in place. Rub the tape firmly in place using the pro clima PRESSFIX application tool. Ensure that there is sufficient resistance pressure. The subsurface must be suitable for permanent bonding. If necessary, brush off, clean with a vacuum cleaner and wipe down. Very fine dust can be bound by applying pro clima TESCON PRIMER.



8. Membrane overlaps, if necessary

Allow for an overlap of approx. 10 cm (4") between the membranes. Centre the UNI TAPE system adhesive tape on the overlap and gradually stick it in place, ensuring that there are no folds or tension. Rub the tape firmly in place using the pro clima PRESSFIX application tool. Ensure that there is sufficient resistance pressure.



9. Bonding at the bargeboard

First create a smooth finish on rough wall caps. lean the subsurface. Apply a line of ECO COLL system adhesive of at least d = 5 mm (3/16") , or more in the case of very rough substraces if necessary.



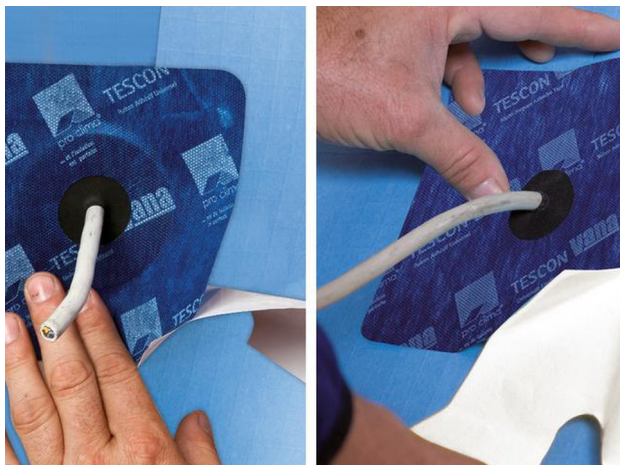
10. Bonding at the bargeboard

Place DB+ on the adhesive bed, leaving slack to allow for expansion. Do not press the adhesive completely flat.



11. Sealing at eaves

Sealing to the eaves is carried out analogously to the joint at the bargeboard.



12. Joints to pipes and cables

Place a KAFLEX or ROFLEX sealing grommet over the cable or pipe and stick it to DB+. The cable grommets are self-adhesive.



13. Joints to pipes

Stick the pipe grommets to the membrane using TESCON VANA. Rub the tape firmly in place using the pro clima PRESSFIX application tool. Ensure that there is sufficient resistance pressure.



14. Compartment insulation and underlay

The next step is to insert the insulation and install the underlay, e.g. pro clima SOLITEX MENTO 3000. Insulation cover for rafters is possible as an option, but is not required.

General conditions

pro clima DB+ can be laid with the printed or unprinted side facing the installer, along or at a right angle to the sub-structure, for example, the rafters. It must not be laid and stretched tight.

If laid horizontally (at right angles to the sub-structure) then the maximum space permitted between the rafters is 1 m (3 ft). After laying, it is necessary to support the weight of the insulation with lathing on the inside. The laths should be no more than 65 cm (2' 2") apart. If, when using insulation mats and boards, for example, you expect tension as a result of the insulation weight on the adhesive tape joins, an additional supporting lath should be placed on the overlap. Alternatively, the adhesive tape can be reinforced along the overlap by sticking strips of adhesive tape at right angles to the overlap every 30 cm (1 ft).

Airtight seals can only be achieved on vapour control membranes that have been laid without folds or creases. Ventilate regularly to prevent excessive humidity (e.g. during the construction phase). Occasional rush/inrush ventilation is not adequate to quickly evacuate large amounts of construction-related humidity from the building. Use a dryer if necessary.

To prevent condensation, DB+ should be stuck down so that it is airtight immediately after installing the thermal insulation. This particularly applies when working in winter.

Additionally for blown-in insulation

DB+ can also be used as a membrane for all types of blown-in insulation. Its reinforcing layer prevents tearing when blowing in the insulation. If laid along the sub-structure it has the advantage that the overlap is supported on a firm foundation and is therefore protected.

To prevent condensation, the blown-in insulation should be introduced immediately after installing the airproofing layer. This particularly applies when working in winter.

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.

MOLL

bauökologische Produkte GmbH
 Rheintalstraße 35 - 43
 D-68723 Schwetzingen
 Fon: +49 (0) 62 02 - 27 82.0
 eMail: info@proclima.de