

7 Gable (plastered) Gable (unplastered)



For joints to plastered gable walls, apply the natural latex adhesive ECO COLL directly from the cartridge in an approximately 5 mm thick adhesive bead. With rough surfaces, increase the bead size as necessary.

Lay the vapour check, with an expansion joint, in the adhesive bed. To allow for movement of the parts, do not press the glue completely flat. Pressure laths are usually not required on stable surfaces.



Defined plaster joint with CONTEGA PV. Affix the fleece at intervals and as far as possible in the corner using ORCON F. Please note: The tape must not have a concave shape!



CONTEGA PV
Plaster sealing tape for secure, long-lasting joints to surfaces that will be plastered.

ORCON F
Multipurpose joint adhesive in cartridge or tubular film. For joints to adjacent mineral or rough structural components



Apply the vapour barrier. Remove the strips of release paper from the back of the CONTEGA PV and affix the fleece to the air-proofing layer using adhesive tape. Press firmly to secure.



If the wall is subsequently plastered, then CONTEGA PV need only be embedded in the middle layer of the plaster. To do this, push back the fleece and reinforcement, apply plaster to the wall behind CONTEGA PV, lay the fleece and reinforcement in the fresh layer of plaster and then complete the plaster work. Finished.

8 Roof beam



For sawed beams or rafters, apply the joint adhesive ECO COLL in an approximately 5 mm thick adhesive bead. With rough surfaces, increase the bead size as necessary.



Lay the vapour check (if possible) with an expansion joint in the adhesive bed. Do not press the adhesive completely flat.

9 Chimney



For connections to insulated, double-layer chimneys, apply approx. 3 cm of DB+ to the chimney. Apply an approx. 5 mm thick adhesive bead (more if necessary) with ECO COLL and lay the membrane, with an expansion joint, in the adhesive bed. Do not press the adhesive completely flat.



Seal the corners with short pieces of TESCON No.1. In the centre of the adhesive tape, cut halfway through. Then it is easy to shape.

10 Pipe and cable



If pipes or cables go through the air-proofing layer, they too must be securely sealed. The most suitable means of doing this is with air-proofing sleeves made of EPDM. This flexible material allows a tight fit, and is available in all common diameters. Cable sleeves are self-adhesive. Remove the release paper, push over the cable and stick on. Pipe sleeves are affixed using UNI TAPE. Press firmly to secure the adhesive tape.

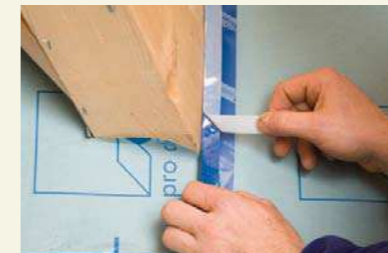


Cable/pipe sleeves:
Secure feed-through of cables and pipes

11 Corner sealing



The air-proofing of angled joints is also important. No problem with the corner adhesive tape TESCON PROFIL. It is equipped with three strips of release paper. This allows you to "activate" a single part of the adhesive surface and to seal one side.



In the second step, simply remove the rest of the release paper and finish sealing.



TESCON PROFIL
Multi-purpose corner tape for windows, doors and corner joints.

12 Completion



A cross-batten at intervals of max. 65 cm should hold the weight of the insulation. Interior lining protects the sheets from damage and UV light.



When all connections have been made air-tight, the thermal insulation system is secure for the long-term. It is recommended to check the air-tightness using a BLOWER DOOR or a pro clima WINCON.

Note on blow-in insulation:

With blow-in insulation materials or insulation materials that tend to sag heavily, an additional supporting lath should be placed on the connections between the membrane overlaps.

Application guide



APPLICATION

pro clima System for creating secure vapour check and air-proofing layers according to DIN 4108, SIA 180 and ÖNorm B8110-2. Perfect protection for thermal insulation systems against structural damage and mould. This high level of security is achieved by the moisture-variable diffusion resistance of the membrane – even in structurally challenging buildings.

ADVANTAGES

- ✓ Exceptional protection against structural damage and mould.
- ✓ For roofs, roof panes, walls, ceilings, and floor.
- ✓ Easy to apply, and extremely tear-proof due to reinforcement.
- ✓ Complete air-proofing system with all necessary adhesive agents.

All information step by step →

1 Initial situation



Insulation is installed between the rafters. A type of matting insulation material is being used here. It is important to ensure that there are no gaps or chinks between the insulation mats and the rafters.

Outside the insulation, an insulati-on protection layer (e.g. pro clima SOLITEX UD/PLUS, wood fibre board or roof lining on wooden planking) should be attached to the rafters to provide wind-proofing. It ensures that cold air does not pass through the thermal insulation and gives optimum insulation.

During colder months, the vapour check and air-proofing layer must be fitted and secured immediately after installation of the thermal insulation.

Note on blow-in insulation:
The insulation material should be inserted with DB+ directly after completion of the air-proofing layer.

2 Lay the membranes

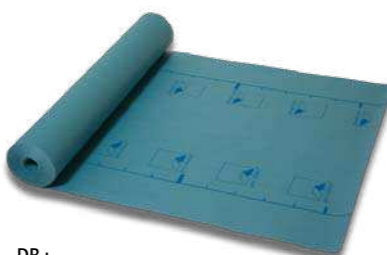


On the interior side, beneath the insulation the pro clima DB+ vapour check and air-proofing membrane is now laid. It protects the thermal insulation from moisture and mould. The membrane has no front and back side and can be fitted with either the printed or the unprinted side facing the room. Staples should be 10 mm wide and 8 mm long and set at a max. distance of 10-15 cm.

Note on blow-in insulation:
With blow-in insulation systems, max. staple spacing must be 5-10 cm.



DB+ can be unrolled and stapled either downwards or across the rafters. Lengthwise fitting is shown here. As rolls are available in various widths, there is usually very little waste. It should be laid as far as possible without creasing. Important for later connection: The vapour membrane should extend about 3 cm onto the gable wall and jamb wall and should if possible be fastened with staples. This joint will later be sealed air-tight.



DB+ moisture-variable vapour check and air-proofing membrane made of building paper. The optimal combination of protection and ecology.

3 Overlap the membranes



Once the first membrane is in place, the second layer is fitted. The membranes are overlapped on the rafters. The printed markings are an aid to orientation. Overlap with cross-wise application: approx. 10 cm; with lengthwise application: at least 1 cm.

4 Preparation



Surfaces should be brushed down before bonding. Dust should be vacuum cleaned or wiped with a cloth.

All surfaces must be suitable for permanent, airtight adhesion with air-proofing tape and joint adhesive, and must be stable, dry, smooth and free of dust, silicone and grease.

Adhesion to frozen surfaces is not possible. When it comes to protecting the structure, the best results can be achieved with high-quality vapour check and air-proofing membranes together with wooden panels. In case of doubt, adhesion tests should be carried out.

5 Seal



Once the vapour barrier is fitted, the overlaps have to be sealed. The membranes should be sealed in the overlap area, without strain or loading, using the universal adhesive tape UNI TAPE. The joint should be over the rafters. Creases in the overlap area must not be over-taped; they must be cut off and re-sealed. The tape should be applied centrally and pressed down firmly using, for example, pro clima PRESSFIX.



An alternative ecological solution for sealing the building shell, is to position all bonds one below the other and seal the joints to adjacent structural components using ECO COLL.

6 Jamb wall



Just as important as the sealing of overlaps are joints to adjacent structural components. UNI TAPE is used for joints to smooth, non-mineral structural components (such as the jamb wall made of OSB panels shown here). Gable walls are treated analogously.



UNI TAPE Universal adhesive tape for sealing membrane overlaps
PRESSFIX Pressing aid.



The joint adhesive ECO COLL is applied to adjacent mineral structural components or rough wooden components (e.g. plastered walls or sawed rafters) directly from the cartridge in an approx. 5 mm thick adhesive bead. With rough surfaces, increase the bead size as necessary. Lay the vapour check, with an expansion joint, in the adhesive bed. To allow for movement of the parts, do not press the glue completely flat. Pressure laths are usually not required on stable surfaces.



ECO COLL Natural latex adhesive For joints to adjacent mineral or rough structural components

continue with steps 7-12 p.t.o.



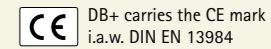
COMPOSITION

DB+ is made from natural and recycled cellulose, glued with a thin halogen-free and plasticiser-free PE film, with a reinforcement layer. This allows for easy recycling.

TERMS AND CONDITIONS

The joints must not be systematically or intentionally subjected to strain. When the vapour check membrane is sealed, the weight of the insulating material must be borne by lathing. Adhesion should be supported by battens if necessary. Press firmly to secure the adhesive tape. Ensure there is sufficient back-pressure. Airtight seals can only be achieved on vapour check membranes that have been laid without folds or creases. Ventilate regularly to prevent build-up of excessive humidity. Use a dryer if necessary.

The information provided here is based on practical experience and the current state of knowledge. We reserve the right to make changes to the recommendations given 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 state of technical knowledge at the time you use our products.



DB+ carries the CE mark i.a.w. DIN EN 13984

Further information about application and construction is given in the pro clima planning documentation. (Please also take note of the sealing recommendations contained in the current pro clima application matrix.)

For queries you can reach the **pro clima technical hotline at:**
Tel.: +49 (0) 62 02 - 27 82.45
Fax: +49 (0) 62 02 - 27 82.51
eMail: technik@proclima.de

s_d-value:	Moisture variable, 0,6 - 4,0 m
Fire class	E
Temperature resistance	Long-lasting up to +40° C
Delivery form:	100 m roll: 75, 90, 105 and 135 cm wide 50 m roll: 105, 135, 170 and 275 cm wide

MOLL bauökologische Produkte GmbH
Rheintalstraße 35 - 43
D - 68723 Schwetzingen
Fon: +49 (0) 62 02 - 27 82.0
Fax: +49 (0) 62 02 - 27 82.21
eMail: info@proclima.de

www.proclima.com
...and the insulation is perfect

