

Application for exterior roof insulation



1. Install the membrane

Roll out the membrane and fasten it 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") in the overlap area. 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.



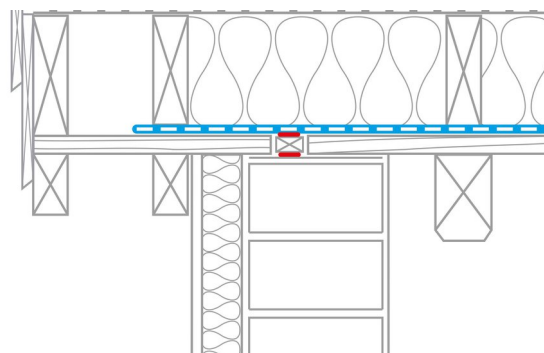
2. Overlap the membranes

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



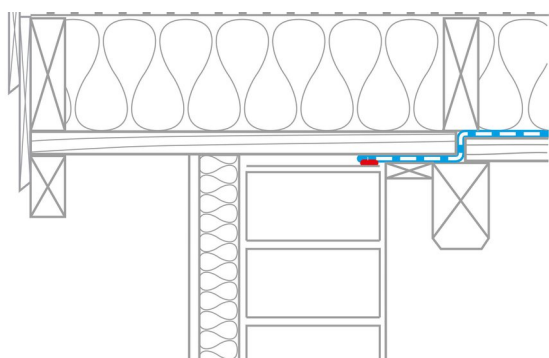
3. Stick the overlap

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 the tape firmly in place using the pro clima PRESSFIX application tool.



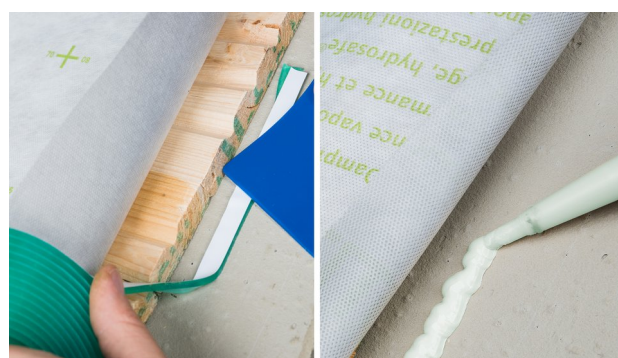
4. Joint at bargeboard

Interruption of the timber cladding at the top of the wall cap, which has a layer of mortar applied to it. A roof lath is adhesively bonded to the wall cap with ORCON F along its entire length. Bonding of the membrane to the roof lath using ORCON F.



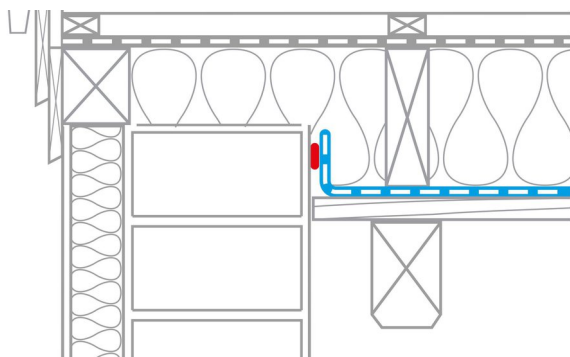
5. Joint at bargeboard, alternative 1

Butt joint between timber cladding and last rafter. The membrane passes through the butt joint and onto the inside of the timber cladding and is stuck to the top of the wall cap using ORCON F.



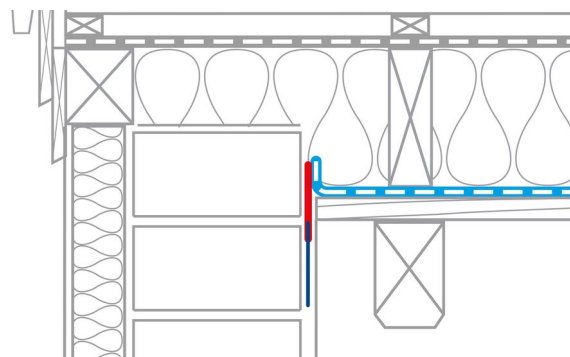
Example: Joint at wall cap

Bonding to the continuous smooth plaster finish on the wall cap can be carried out using the ORCON MULTIBOND joint adhesive (applied from a roll) or in liquid form using ORCON F (or, alternatively, ORCON CLASSIC). Any loose material on the subsurface should be removed beforehand.



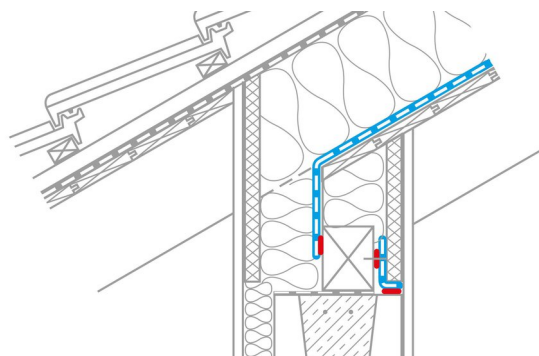
6. Joint at bargeboard, alternative 2

In the case of a plastered gable wall, bond the pro clima membrane to the plaster using ORCON F.



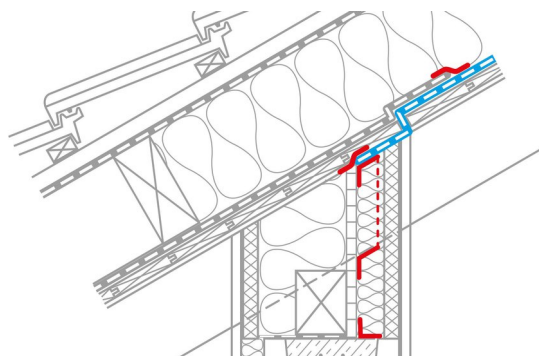
7. Joint at bargeboard, alternative 3

If there is no layer of plaster, affix CONTEGA PV to the wall using joint adhesive and bond the membrane to the adhesive strip. At least 1 cm (3/8") width of the fleece must be embedded into the middle of the layer of plaster.



8. Eave joint with offset visible rafter

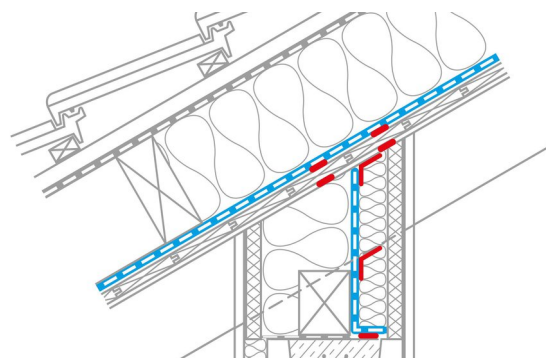
Stick the membrane to the wallplate in an airtight manner using ORCON F. Seal the joint between the wallplate and the ring beam in an airtight manner using a strip of vapour retarder (e.g. INTELLO connex) and ORCON F.



9. Eave joint with continuous visible rafters

Install a positioning board made of wood-based panel on the inside between the rafters and bond it to the ring beam and the rafters using TESCON PROTECT. If necessary, apply ORCON F underneath the tape in the case of rough concrete.

Interrupt the cladding above the positioning board and stick the membrane to this board.



10a. Eave joint with continuous visible rafters, alternative

Install a strip of vapour retarder, e.g. INTELLO connex, on the inside between the rafters and bond it to the ring beam and the rafters using TESCON PROTECT.

If necessary, apply ORCON F underneath the tape in the case of rough concrete.

Stick the cladding to the rafters above the vapour retarder strip and to the membrane using a double strip of adhesive.



10b. Sheet joint in corners with support

The TESCON FIX mounting bracket rail is stuck to the subsurface using one of the two independent strips of adhesive tape that are fitted to it. The vapour retarder sheet is put in place and then stuck to the second independent strip of adhesive tape in an airtight manner (working from the inside). The (exterior) bracket rail provides resistance pressure when pressing with the PRESSFIX tool.

Airtight bonding to the upper side of the rafter is carried out simply by using a length of TESCON VANA.



11a. Joints to cables

Place a KAFLEX cable grommet over the cable and stick to the membrane. The cable grommets are self-adhesive.

The range includes:

- KAFLEX mono (see photo)
- KAFLEX duo - for 2 cables
- KAFLEX multi - up to 16 cables
- KAFLEX post - for retrofit installation



11b. Joints to pipes

Place a ROFLEX pipe grommet over the pipe and stick to the membrane using TESCON VANA.

The range includes:

- ROFLEX 20 - e.g. for pipes, Ø 15-30 mm (9/16" - 1 1/4")
- ROFLEX 20 multi - ... up to 9 conduits
- ROFLEX 30 - 300 - for Ø 30-320 mm (1 1/4" - 12 5/8")



12. Quality assurance

If all joints have been implemented in an airtight manner, the thermal insulation structure will be reliable and permanent.

Testing of the airtightness with a BlowerDoor test is recommended for quality assurance purposes.

General conditions

pro clima INTELLO X connect is to be installed with the printed side facing the installation technician. It may only be installed on top of decking.

Airtight seals can only be achieved on vapour retarders that have been fitted with no folds or creases. Ventilate regularly and systematically to prevent build-up of excessive humidity (e.g. during the construction phase). Occasional, intermittent ventilation is not sufficient to remove large quantities of moisture due to construction work from a building; use a dryer if necessary.

To avoid condensation formation, the thermal insulation should be installed immediately after airtight adhesion of INTELLO X connect. This applies particularly to work carried out in winter.

Fastening

Overlap the membranes by at least 10 cm (4").

Use fastening staples that are at least 10 mm (3/8") wide and 8 mm (5/16") long to attach the membranes. The membranes can only be fastened in a protected manner in the overlap area. The maximum distance between fasteners is 10 to 15 cm (4"-6").

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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