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# System DB+ Installation instructions

CONSTRUCTION RESOURCES



## Important information

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pro clima building papers for internal use should not be exposed to moisture.

This is especially important when undertaking spray-on cellulose insulation work. pro clima building papers should be bonded using pro clima COLL (or TAPE).

The adhesive should always be applied in a continuous line without a break.

Only in this way can a perfect seal be guaranteed. The drying time of the adhesive is about 1/2 hour on an absorbent base and about 6–24 hours on a non-absorbent base.

In the case of cellulose spray-on insulation the reinforced pro clima sealing paper DB+ can serve as the inside boundary as long as there is transverse lathing with a maximum spacing of 500 mm.

## Best time to install

Ideally at the earliest 2 weeks after the walls have been plastered: The moisture in the plaster can evaporate better, the paper can be attached more quickly and easily to the plaster, and the smooth surface needs less adhesive.

If pro clima paper is installed before plastering, then we recommend coating the attachment area with a thin layer of plaster first or plastering over the paper later.

It is essential to plaster porous chimney stones on all sides as well in order to avoid ventilation heat losses.

## Tools

Meter rule, floor measuring tape, cartridge or hose gun, pro clima unroller for unrolling and cutting the paper, with integral length measuring system.

Hand stapler; for large areas a compressed air stapler is recommended. Impact staplers like those used for roof covering work are unsuitable for pro clima: they would make holes in the material.

The staples should be at least 10 mm wide and have a depth of at least 8 mm.

## Cutting tip

Measure the rafters or wall lengths, set the counter with the return lever on zero and pull out the paper to the required length.



The paper can be cut cleanly and straight on the metal guide using a carpet knife.

## Quality assurance

After installation of pro clima sealing paper the quality of the installation can be checked by the builder by means of an air test.



In the air test a special fan is used to produce a reduced pressure of 50 Pa (5 kP/m<sup>2</sup>). Air flows through leak points from the outside to the inside and is detectable as air pressure or visible using smoke tubes. The leak points can be sealed during the test.

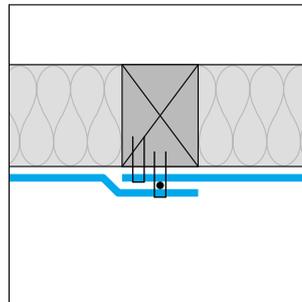
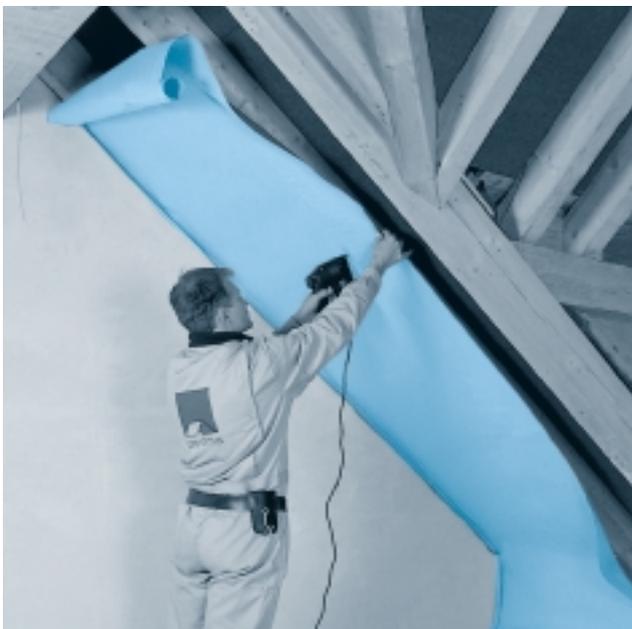
Further information can be found in our prospectus »The pro clima air test«.



Roll up the pro clima paper tightly that it can be grasped in one hand. Start at the bottom rafter. Staple the free end to the bottom rafter or the rafter closest to the bottom rafter in one place. Then unroll the paper upwards along the structure until about 1m below the end of the rafter, straighten it out and attach it to the rafter.

Staple spacing: 150 mm max.  
If cellulose insulation is to be sprayed in later, then the spacing should be 50 mm.

## Installation along rafters



The bonding of the paper layers can be done after the installation of each strip or after the installation of several or all of them. In this case lift up the overlapping piece of paper and apply pro clima COLL continuously.



Turn the overlapping or connecting piece back again and press it to the piece below.



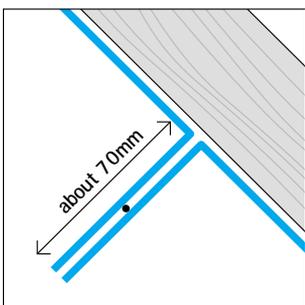


## Installation across rafters

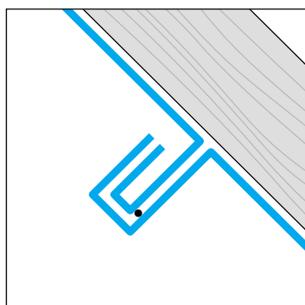
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Staple the paper to the outermost rafter in one place in the center of the paper, then unroll it across the rafters, pull it straight and staple it every 3–4 m. Then staple it to every rafter.

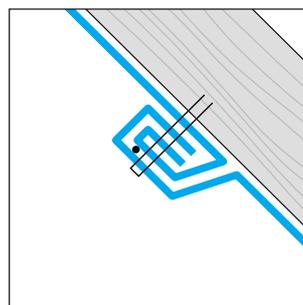
Staple spacing, 150 m max. or 50 m if cellulose insulation is to be sprayed in later.



Unfold the lower strip about 70mm and apply the adhesive in the center of the turned-over strip.



Lay the upper strip over it and press both strips together between two fingers.



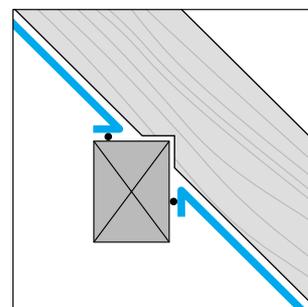
Then fold the join over twice upwards and staple it to the rafter.



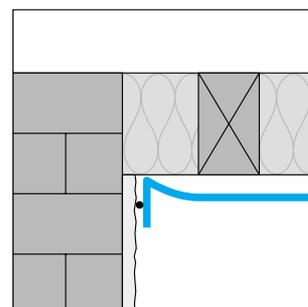
Attach the remaining piece of the strip after the paper has been installed: Lift up the piece, apply a line of adhesive, press down the strip and (in the case of wood or plaster) if necessary staple it to the surface underneath.

**Particularly in the case of lateral joins, fold back the connecting strip gently so that the pro clima insulation paper can equalize construction movements and cannot be damaged during subsequent installation procedures.**

## Abutments: gable walls and purlins



After the adhesive has dried any extra pieces of the paper can be cut away with a sharp carpet knife.



**Caution:** When connecting with adjacent building parts apply pro clima coll in a band only as wide as the join will later be covered by the sub-construction (lathing) (mark the bonding line before installation). When connecting with middle rafters and ridge rafters it is easy to miscalculate.



If the sub-surface is wood or plaster: staple the paper if necessary over the bonded join.

In the case of concrete or metal: If they are under strain, press on the bonded points once more after half an hour.

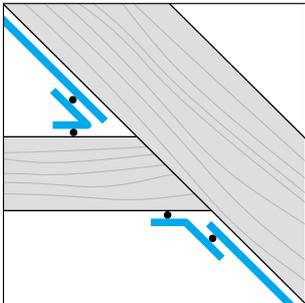




## Abutments: exposed beams

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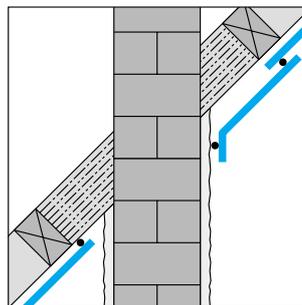
Form two sleeves from the insulation strip as wide as the rafter. Apply pro clima COLL to the sleeves and mount one from above and one from below.



## Abutments: chimneys

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Attach pro clima sealing paper to the concrete ring or directly to the chimney. According to DIN 18160 attaching normally flammable building parts to a chimney is prohibited. All flammable materials must accordingly be attached at least 5 cm away. Fire experts and chimney manufacturers are now convinced that attaching normally flammable building materials such as building paper to today's insulated and plastered chimneys does not cause problems in terms of fire safety, since in the case of these chimneys a chimney fire is not a



possibility (unlike uninsulated chimneys).

In the case of single-shell (old) chimneys it is essential to maintain the 50mm gap, i.e. the pro clima sealing paper should be adhered to the concrete ring.



If necessary, clarify the possible forms of attachment with the municipal chimney sweep.



Attaching to rooflights



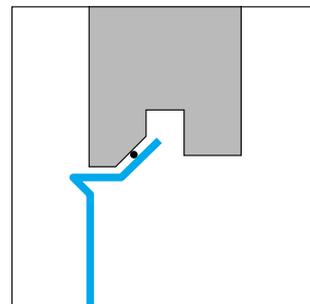
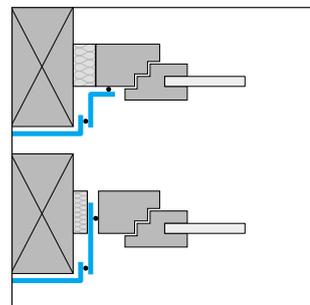
**Narrow connections:**

pro clima DS14+ or DS21+ or a strip cut to size are very suitable here. The original straight edge of the paper is always the connector to the building part in this case. First apply the adhesive to the connecting building part and then install the strip.

**Windows in post and beam or timber frame construction:**

Attach pro clima to the front side of the window frame or preferably, before the window is installed, attach the strip to the side of the window frame.

**Abutments: windows in timber frame or post and beam constructions**



**Window reveals made from plasterboard or timber:**

Line the rafters with a wood-fibreboard i.e. GUTEX standard-n boards so that the plasterboard or timber lining fits as snugly as possible. First seal the open corners of the groove with a piece of sealing paper and pro clima COLL, then cut the pro clima strip to fit and fold it far enough back so that it does not become damaged when the wood casing folded to the outside is installed.

Apply pro clima COLL to the edge of the groove and attach the pro clima paper strip. Then attach the strip to the paper already laid over the area.

**Around window sills and lintels:**

Here we have found wood-fibre boards very useful as the internal lining for the insulation, especially for spray-in cellulose insulation. Nail or screw the panels between the trimmer and the rooflight frame and then cover them with the appropriate

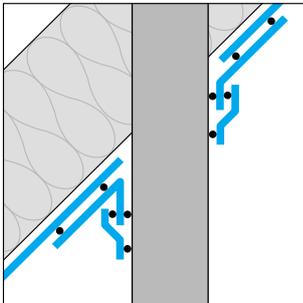
pro clima sealing paper. Then attach the paper with adhesive or staple it in the groove of the sub-frame.



## Penetrations pipework and cabling

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Cut into one side of the pro clima rosette (pre-cut) and apply pro clima COLL to the pro clima paper, the ventilation pipe and the rosette. Ensure the lines of adhesive are continuous.



Then install the counter-sleeve also using pro clima COLL. Counter-sleeves are available for roof pitches of 15–25°, 25–35° and 35–45°



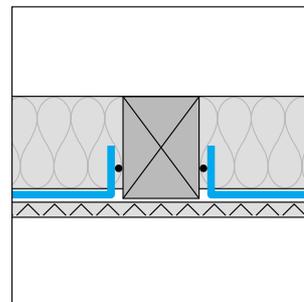


After the roof lathing and if necessary the old insulation have been removed, lay the appropriate pro clima paper parallel to the edge of the gable wall, i.e. from the top to the bottom, on the inside sheathing.

Lift up the paper left and right on the rafters to a maximum of half the rafter height and by folding fit the paper carefully into the corners of the rafters and the inside sheathing. (The paper should not be laid over the rafters.)

Then attach the paper to the sides of the rafters and the adjacent building parts (posts, skylights, etc.) with adhesive, if necessary using strips of pro clima paper.

It is not necessary to staple the lateral rafter connection points if the paper is not under tension.





The information given in this prospectus is based on current actual research and practical experience. We reserve the right to make changes in the recommended designs and processing as well as in the further development of individual products and associated quality changes. If necessary, please ask about the current status of technical information at the time of your order.

Your pro clima dealer:

Further documentation can be obtained from your dealer.

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