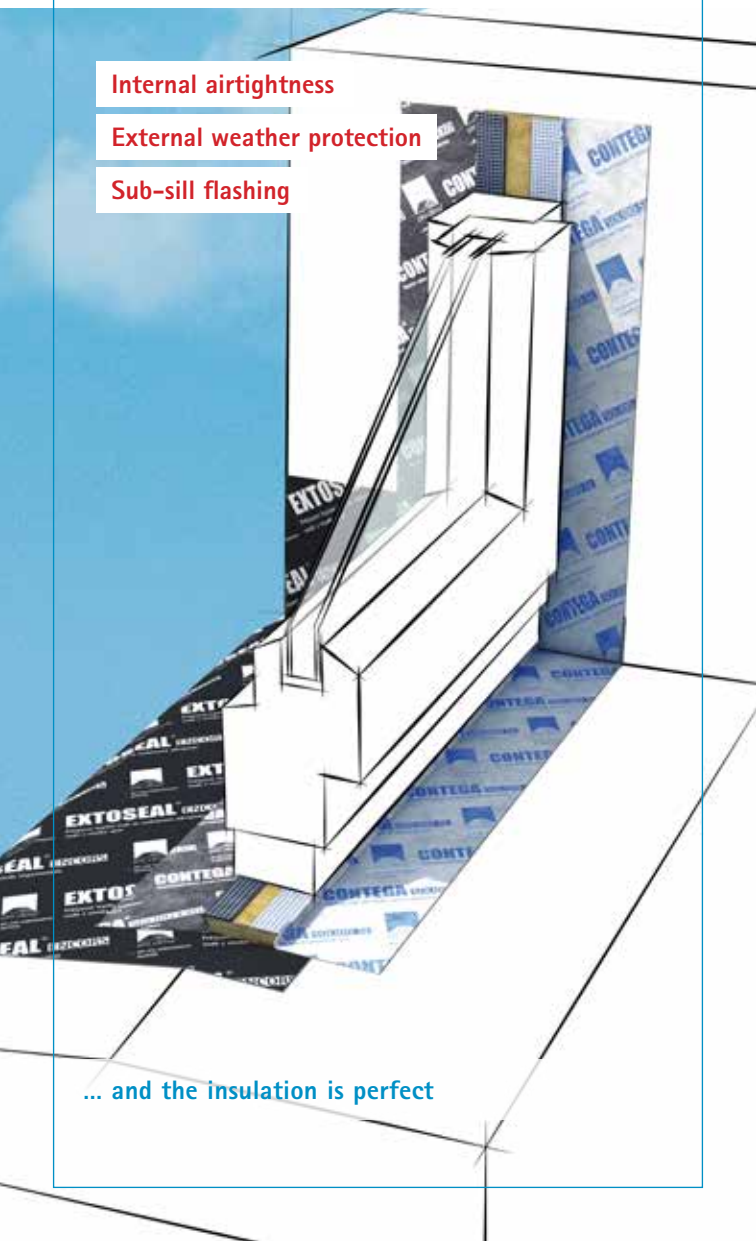
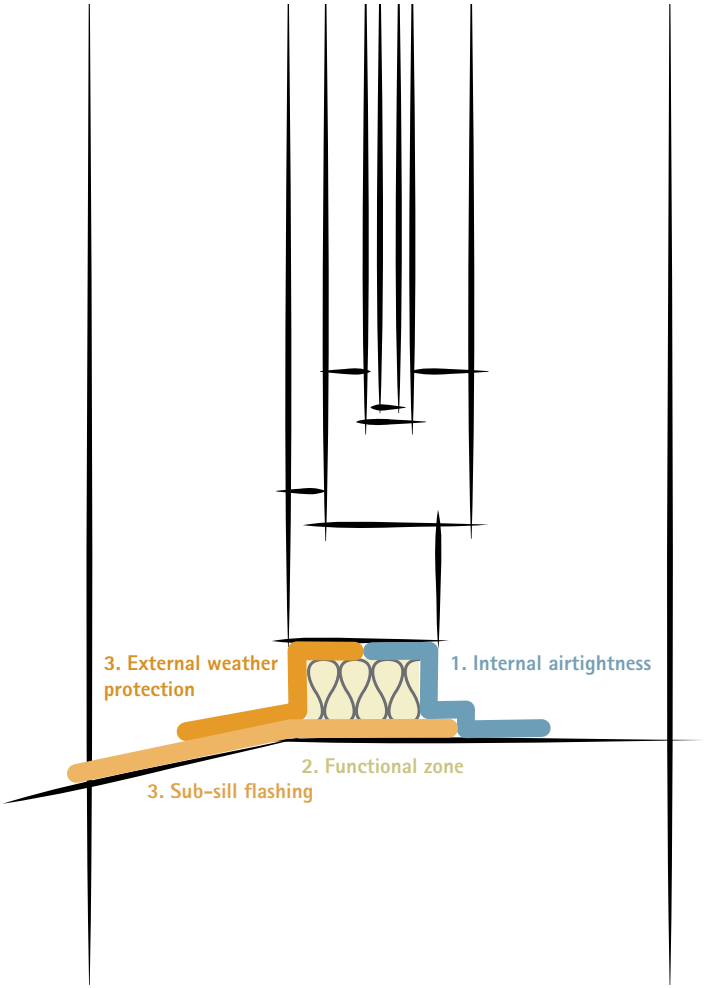
pro clima®

Reliable window joints made easy

Installation guide for the CONTEGA system



... and the insulation is perfect



Simple implementation of reliably sealed joints around modern windows

1. Internal airtightness

The entry of cold outdoor air into structures and the air flow through these structures is prevented. Mould, air currents and energy losses are avoided in this way.

2. Functional zone

Joint gaps are filled with a suitable insulation material. This helps to minimise thermal bridges.

3. External weather protection

The exterior sealing provides protection against driving rain and wind. It prevents the uncontrolled entry of moisture into the building structure and thus provides protection against moisture damage.
The sub-sill flashing serves a second water-draining layer and provides additional protection against penetrating water underneath the window sill.

Perfectly sealed joints made easy

Installation guide for: Facade windows

Checklist – My pro clima products

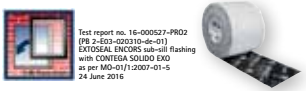
◯ **CONTEGA® SOLIDO SL-D**
Full-surface adhesive plaster/window-sealing tape with an additional adhesive zone, for interior use

Product variant

◯ **CONTEGA® SOLIDO IQ-D**
Intelligent full-surface adhesive plaster/window-sealing tape with additional adhesive zone, for interior and exterior use

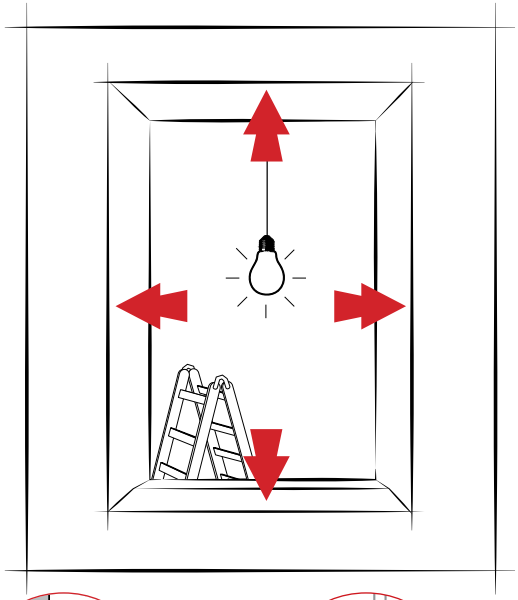
◯ **CONTEGA® SOLIDO EXO-D**
Full-surface adhesive plaster/window-sealing tape with an additional adhesive zone, for exterior use

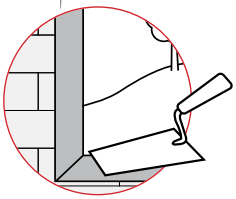
◯ **EXTOSEAL® ENCORS**
Waterproof sealing tape with high adhesive strength



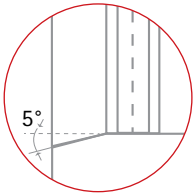
◯ **PRESSFIX**
Pressing aid for pro clima adhesive tapes

Check the subsurface



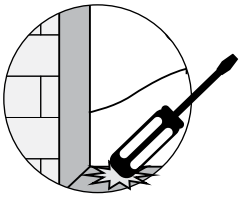


A smooth plaster finish must be present on the masonry

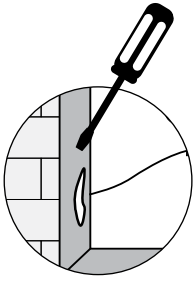


There must be a fall

Check the state of the subsurface



Stability



Internal stability

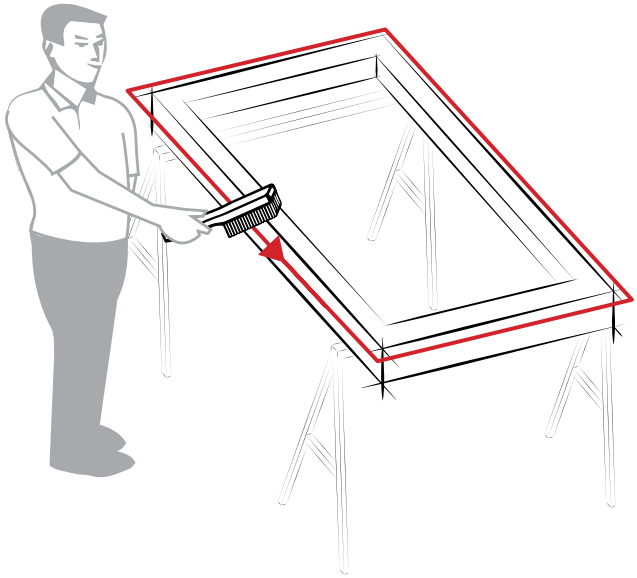
Free of frost

Free of grease and oil

Clean / brush off

Preparation for interior airtightness

1. Clean the perimeter of the window frame



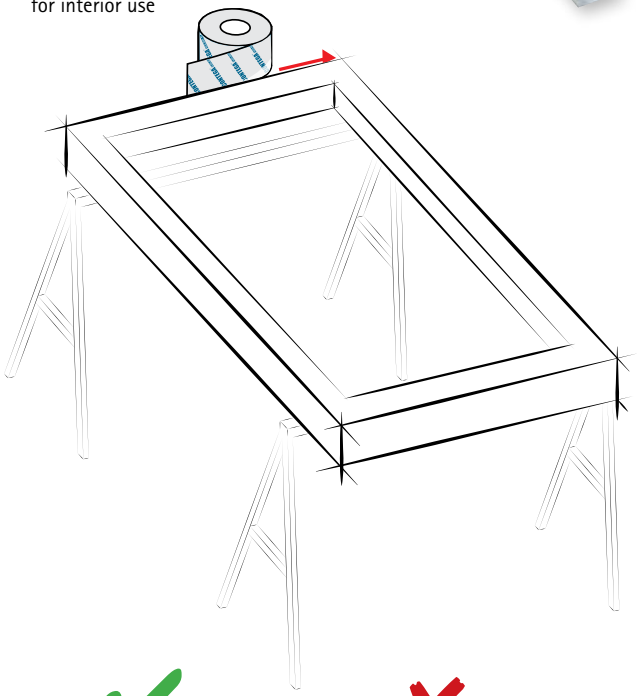
If the CONTEGA window-sealing tapes are to be plastered over subsequently, ensure that at least 50% of the reveal and a maximum of 60 mm (2 3/8") tape width are covered by the plaster.

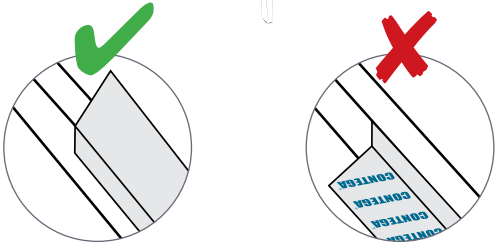
The corner areas of window profiles, clip-on profiles and wideners etc. are to be implemented in a manner that is airtight and/or resistant to driving rain.

Practical tip:
Stick CONTEGA window-sealing tapes to the frame before installing the window: simple application of the adhesive tape – reliable sealing – valuable time saved!

2. Stick CONTEGA SOLIDO SL-D on the inside of the frame

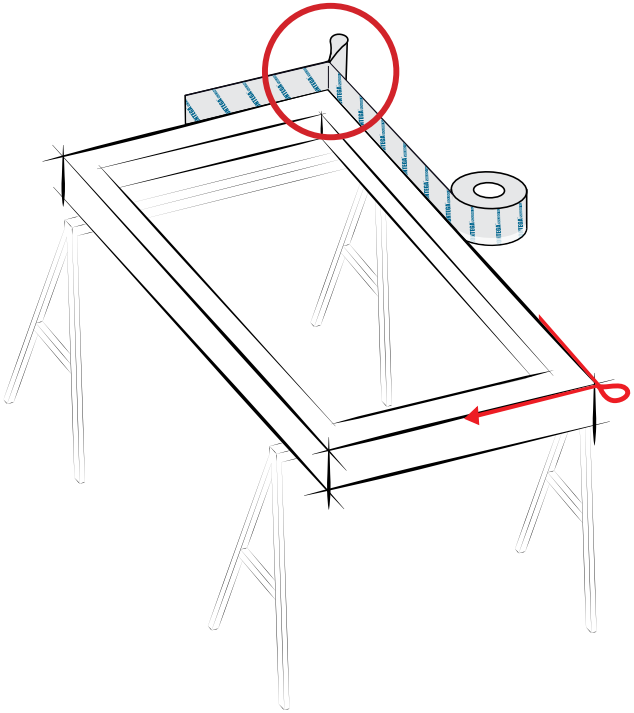
CONTEGA® SOLIDO SL-D
Full-surface adhesive plaster/ window-sealing tape with an additional adhesive zone, for interior use

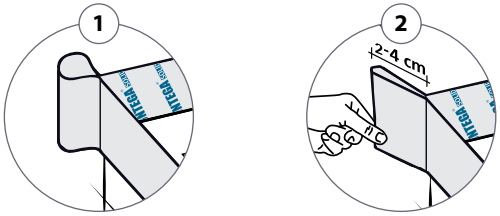




Ideally you should start at the top. Overlap the tape ends by at least 2 cm (7/8"). There must be no tape overlaps in the area around the sub-sill flashing. All overlaps are to be implemented in a waterproof manner.

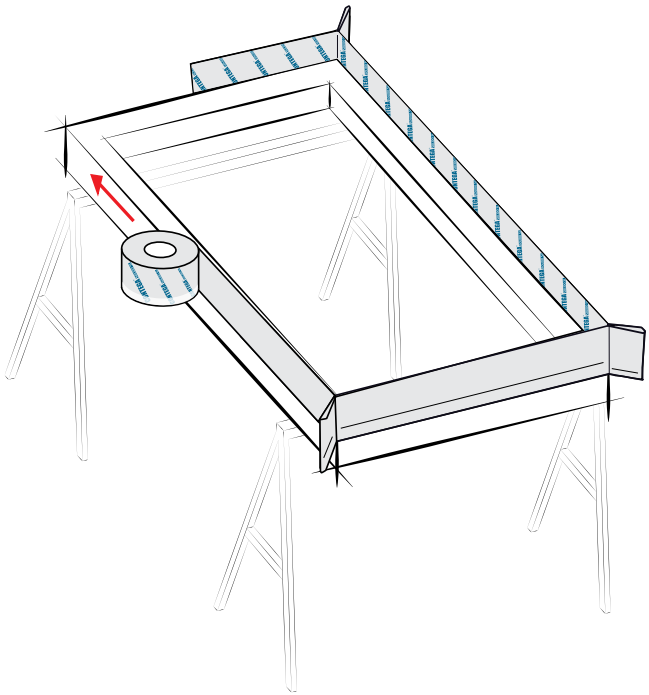
3. Create loops of slack at the corners





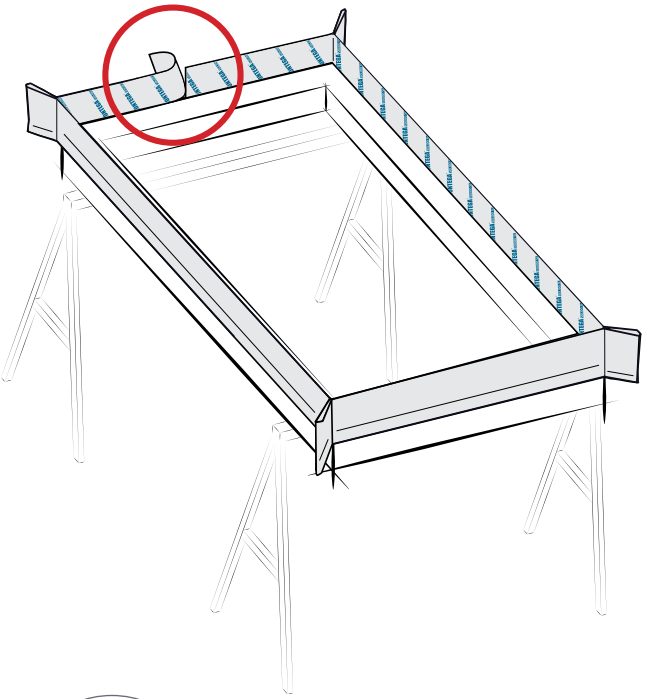
Why create slack loops at the corners? This is done so that the tape can then be folded out again at the reveal corners after the window has been inserted and can be stuck in a secure, airtight manner. The corner slack should be approx 2-4 cm (7/8"-1 5/8"), i.e. approx. 1.5 times the joint width. Press the ends of the corner slack loops together forcefully.

4. Stick CONTEGA SOLIDO SL-D around the perimeter of the frame

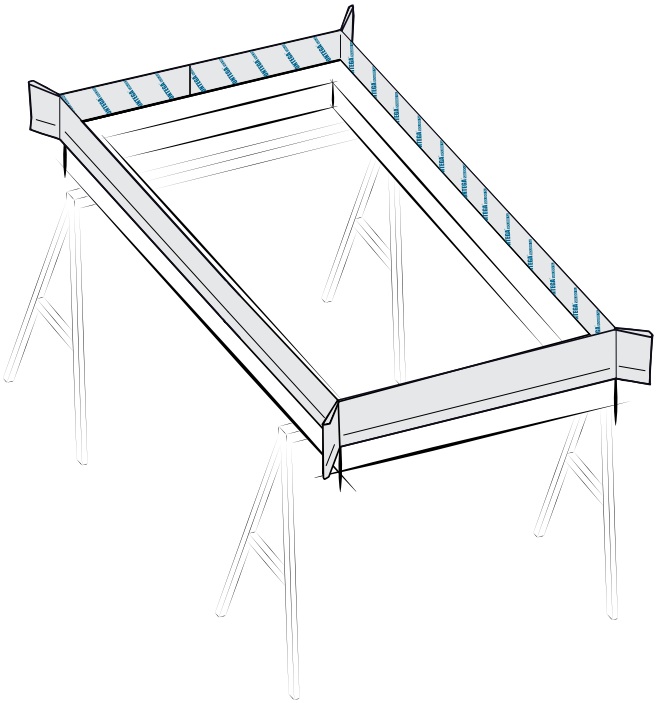


5. Stick the ends

Remove the release film completely and stick in place with approx. 2-5 cm (7/8"-2") of an overlap. Rub firmly with the PRESSFIX application tool.

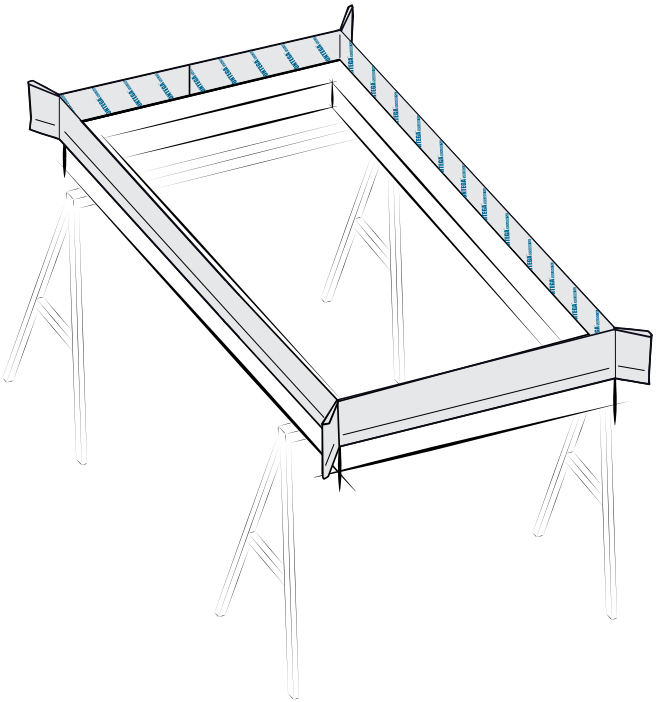


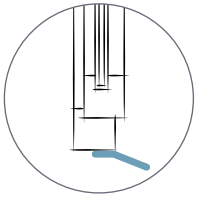
6. Press down firmly on the adhesive tape



PRESSFIX
Pressing aid for pro clima adhesive tapes

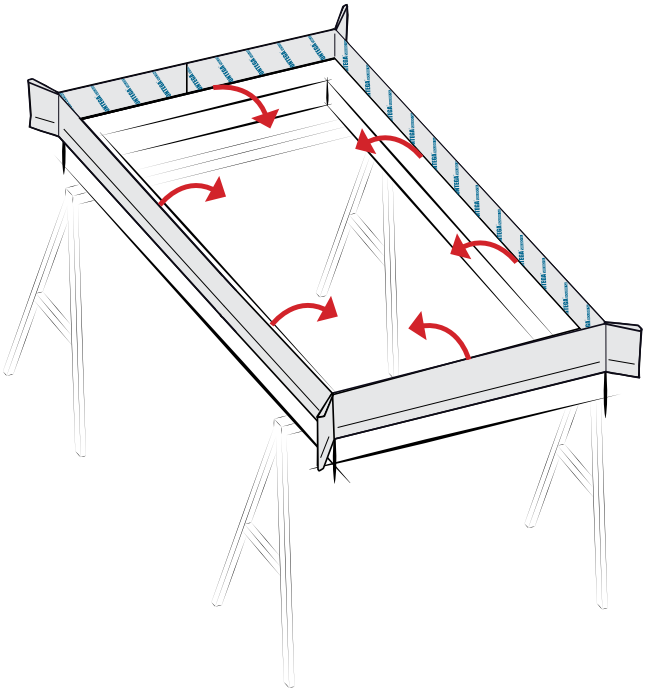
7. Window frame on the interior side

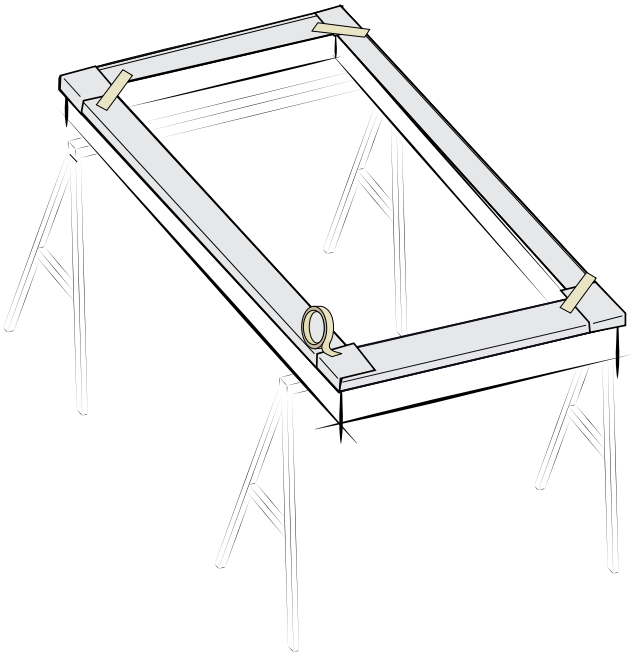




You're finished!

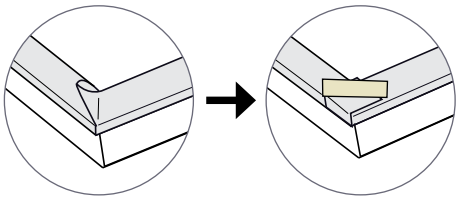
Practical tip





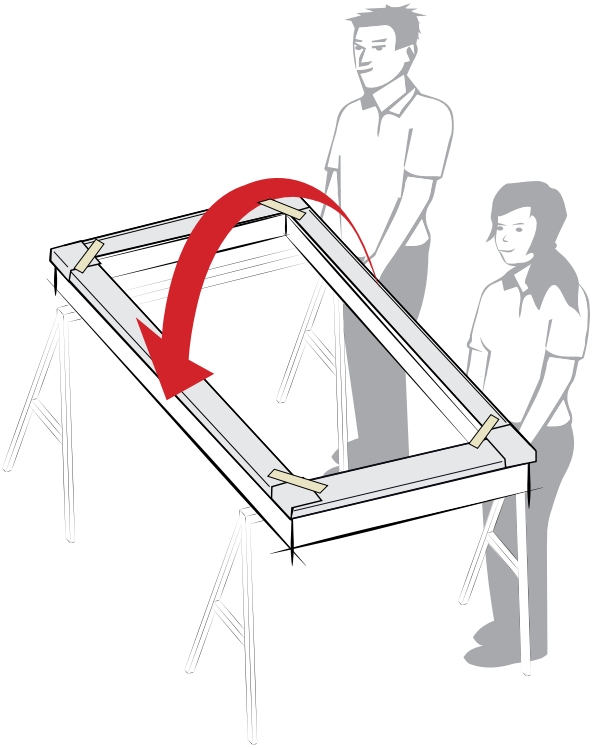
Practical tip:
Hold the tape in place temporarily with removable adhesive tape to make it easier to slide the window into the window opening.

Removable adhesive tape



Preparation for exterior weather protection

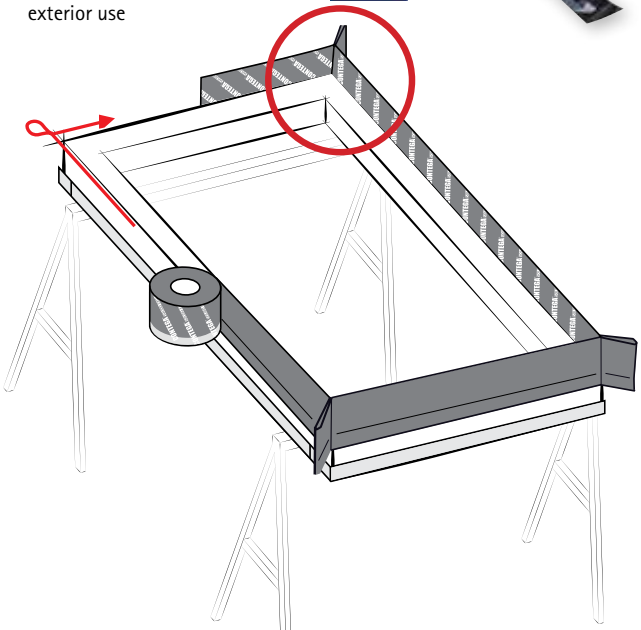
1. Turn the frame over

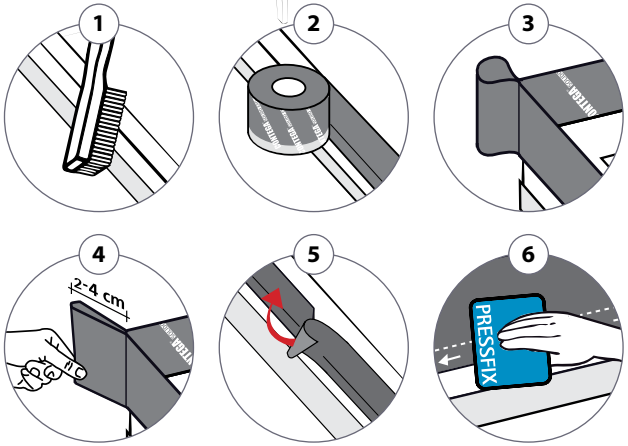


2. Stick CONTEGA SOLIDO EXO-D onto the exterior side of the frame. » Repeat steps 2 to 7

CONTEGA® SOLIDO EXO-D

Full-surface adhesive plaster/ window-sealing tape with an additional adhesive zone, for exterior use



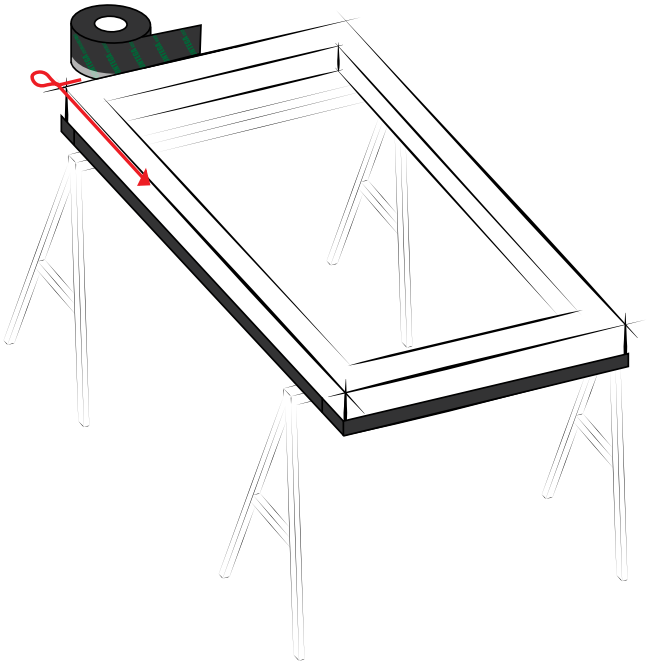


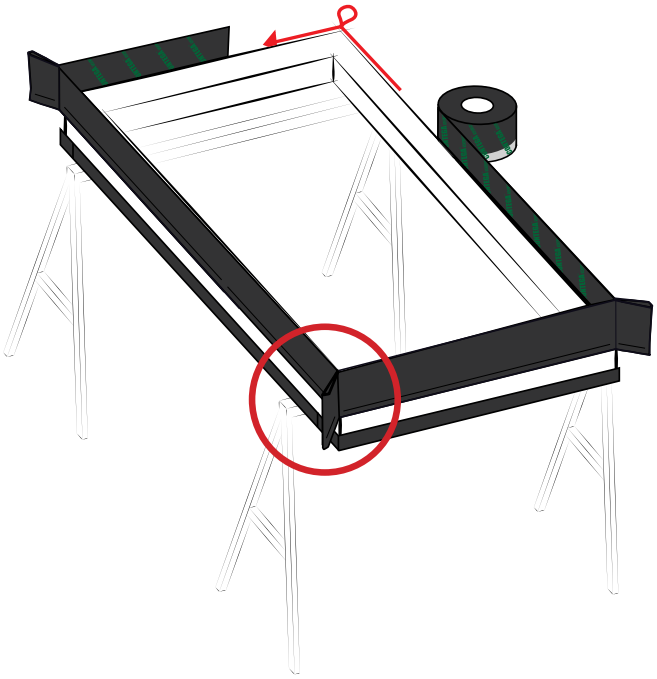
Product variant

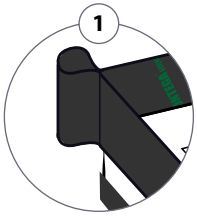
CONTEGA® SOLIDO IQ-D

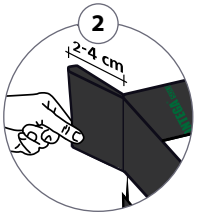
Intelligent full-surface adhesive plaster/ window-sealing tape with additional adhesive zone, for interior and exterior use

Just one tape for interior and exterior use: Humidity-variable s_d value for dry window joints. One tape for inside and outside means easier stock management too!

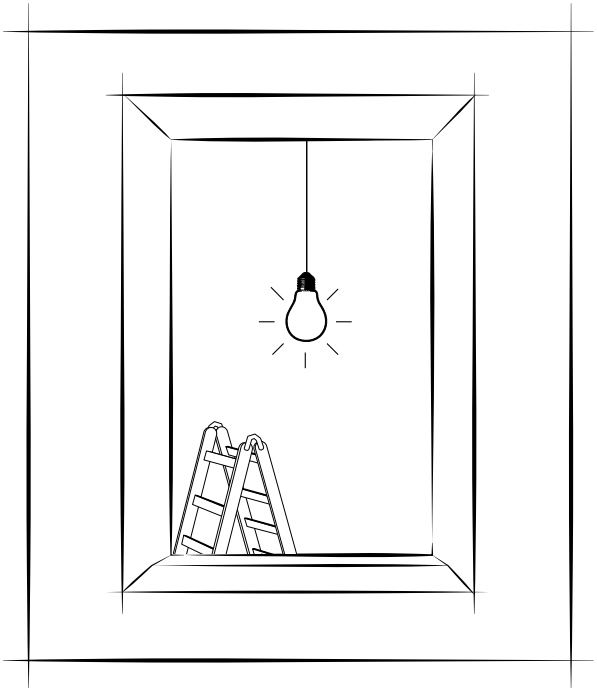








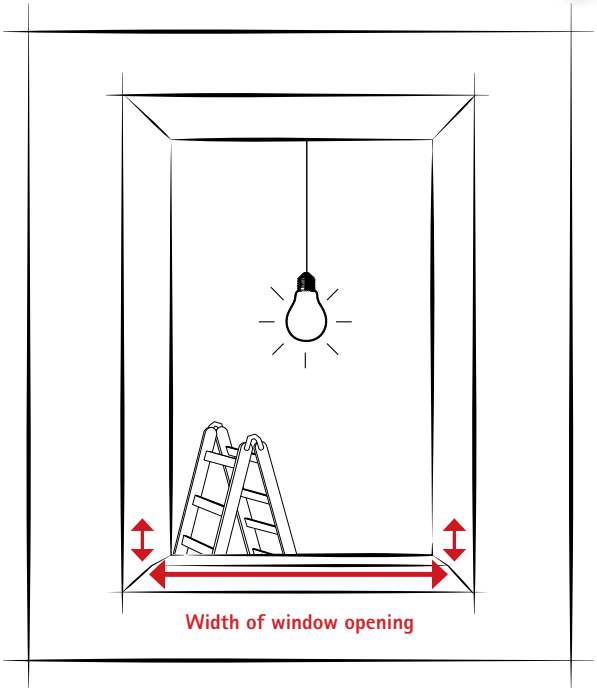
Installation of sub-sill flashing



Practical tip: Install an insulation wedge
An insulation wedge can be used to create an inclined run-off, and to help avoid thermal bridges.

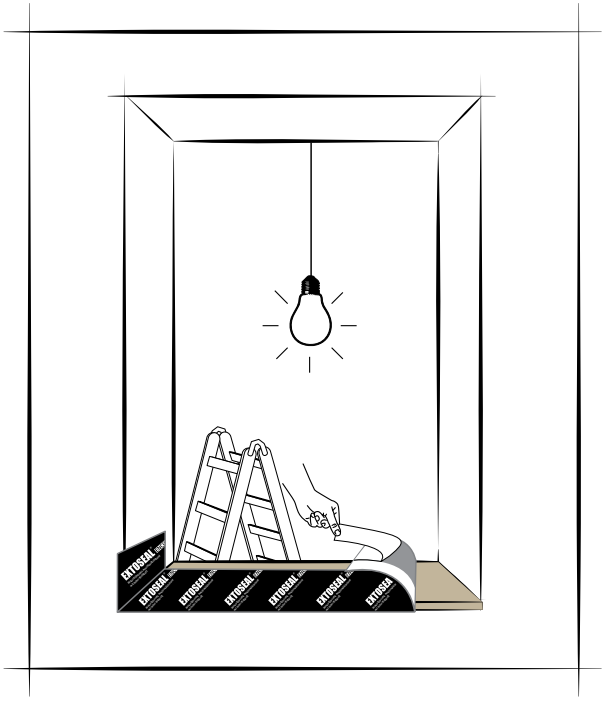
1. Cut EXTOSEAL ENCORS to size, allowing for excess

EXTOSEAL® ENCORS
Water-resistant adhesive tape with high adhesive strength



Allow for an additional length of tape for the reveal sides, depending on the subsequent installation procedure:
- approx. 6 cm (2 3/8") for a directly plastered window reveal.
- approx. 10-15 cm (4" to 6") for rear-ventilated structures or other material layers; capillary suction can reach a height of 10 cm (4")

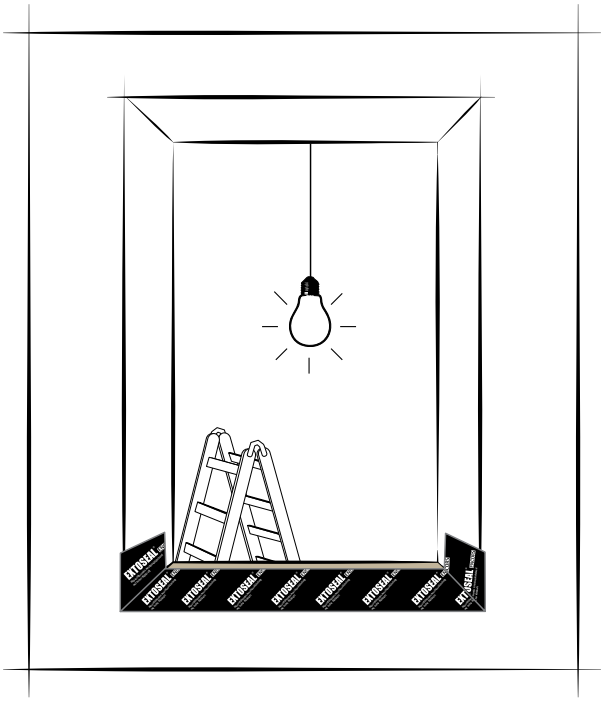
2. Remove the wide release film and stick EXTOSEAL ENCORS onto the window sill.

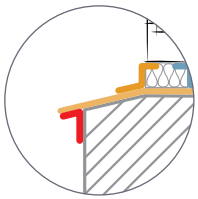


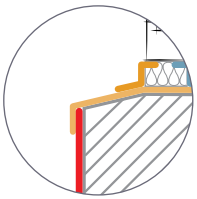
Stick to the reveal sides.

Guide the EXTOSEAL ENCORS tape right into the corners and rub firmly into place. Select the width of EXTOSEAL ENCORS so that it protrudes behind the vertical window profile by at least approx. 2 cm (7/8"). Lengths of tape can be stuck together with an overlap of approx. 2-3 cm (7/8"-1 3/16") to create larger areas.

3. Cut off excess tape at window reveals



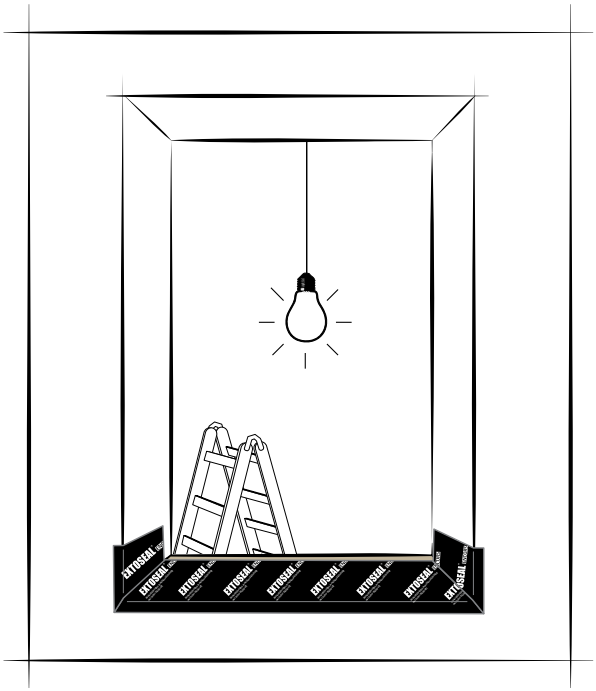


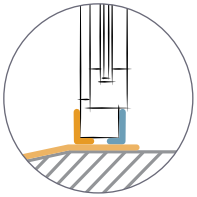


Depending on the type of facade used, EXTOSEAL ENCORS is continued onto a drip profile or a facade membrane.

Practical tip:
Installation is easier if the side with the narrow release film protrudes on the outside. EXTOSEAL ENCORS can be installed with full-surface adhesion as a temporary protection measure during the construction period.

4. Stick EXTOSEAL ENCORS in place



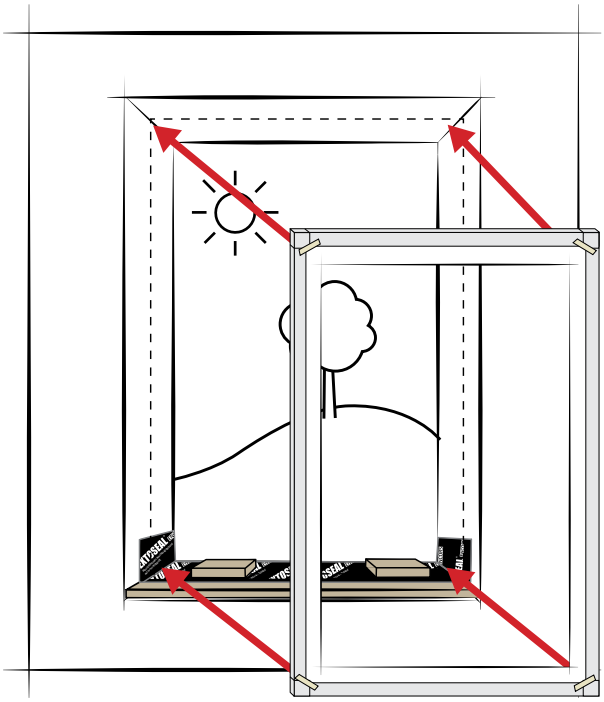


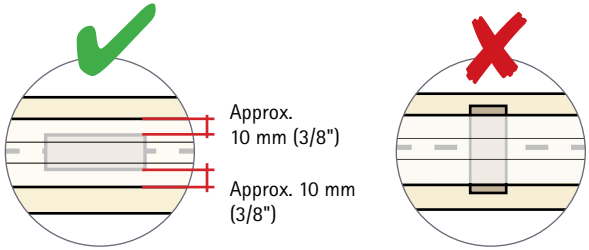
You're finished!

Guide the EXTOSEAL ENCORS tape right into the corners and rub firmly into place. EXTOSEAL ENCORS cannot be plastered over (see pages 7 and 21): fit a reveal plate before plastering, or else tape over with TESCON VANA and add suitable reinforcement to the plaster. In this example, EXTOSEAL ENCORS is shown as sub-sill flashing as part of a rear-ventilated system. In the case of a thermal insulation composite system (TICS), installation of the sub-sill flashing should be adapted as necessary.

Installation of the window

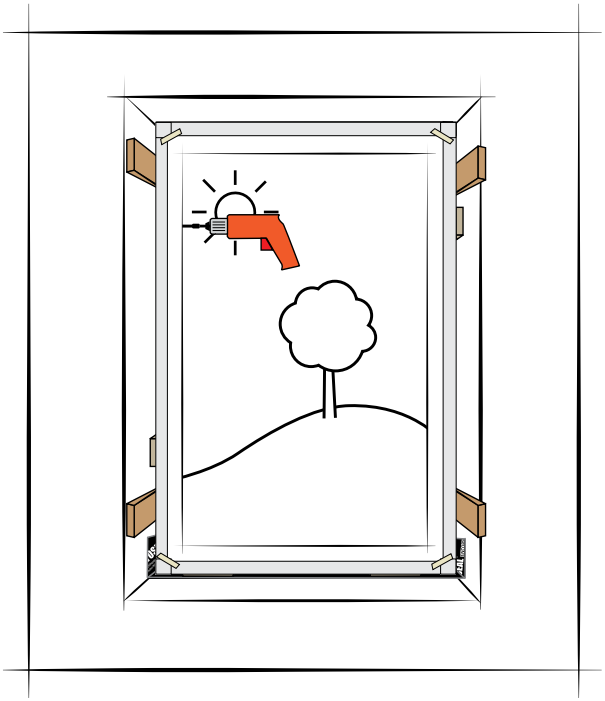
1. Mount the window

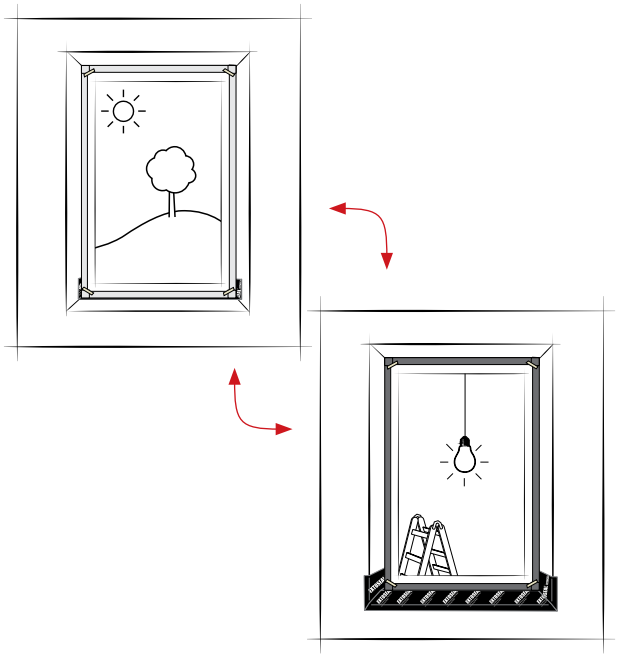


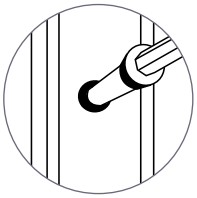


Use setting blocks made of hardwood or plastic (they must be pressure-resistant and keep their shape). They must not protrude beyond the frame.

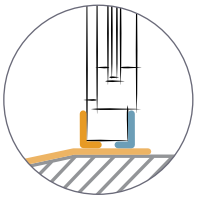
2. Fasten the window properly







Fasten the window using
a suitable fastening system

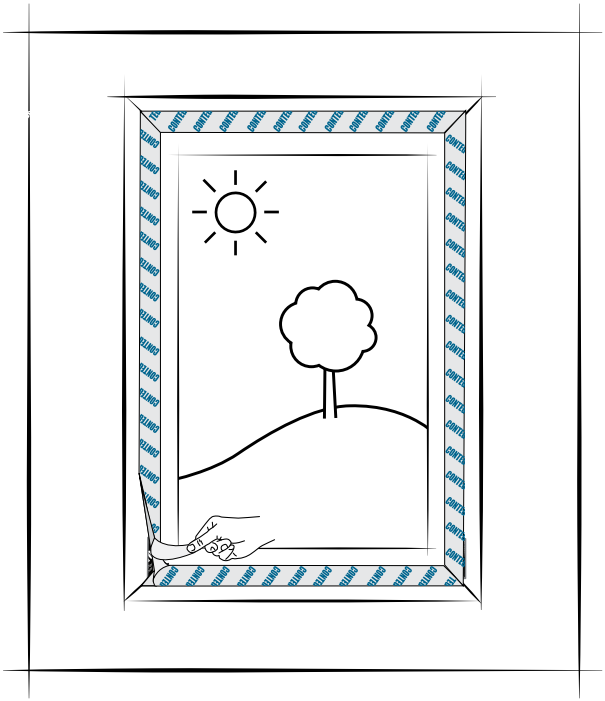


You're finished!

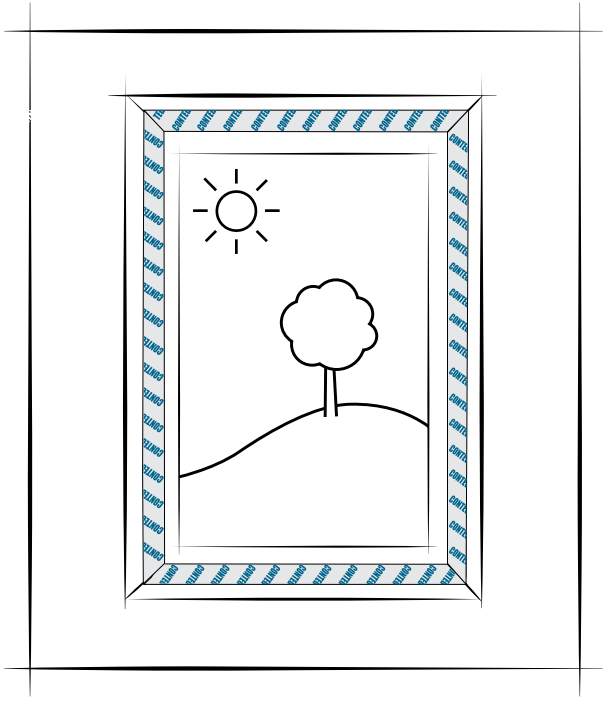
Practical tip:
Should you start sealing inside or outside? Decide based on the on-site situation, such as weather conditions or the stage of progress of construction – this decision does not depend on the pro clima window-sealing tapes.

Finishing the interior airtightness

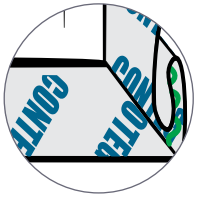
1. Stick the tape all around the reveal



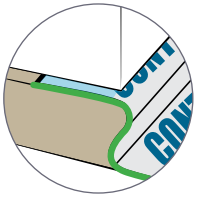
2. Interior airtightness: finished

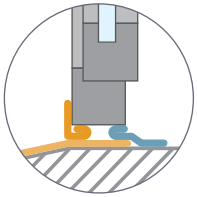


Rub in place using the PRESSFIX tool



Use ORCON F adhesive at the corners if necessary



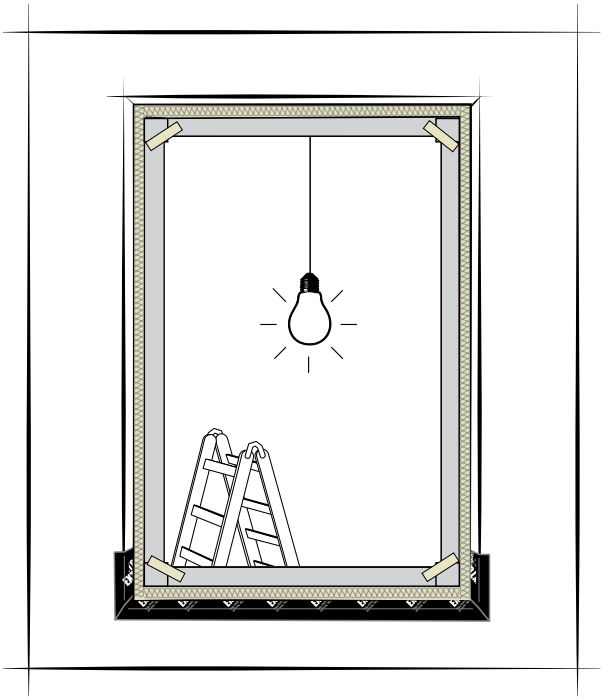


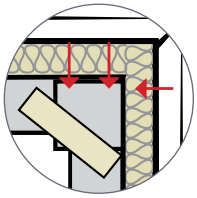
You're finished!

Apply the tape with slack to allow for movement.

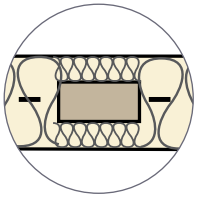
Insulating the joint

1. Fill the joint with insulation material





Fill the joint with insulation material around the perimeter, leaving no cavities



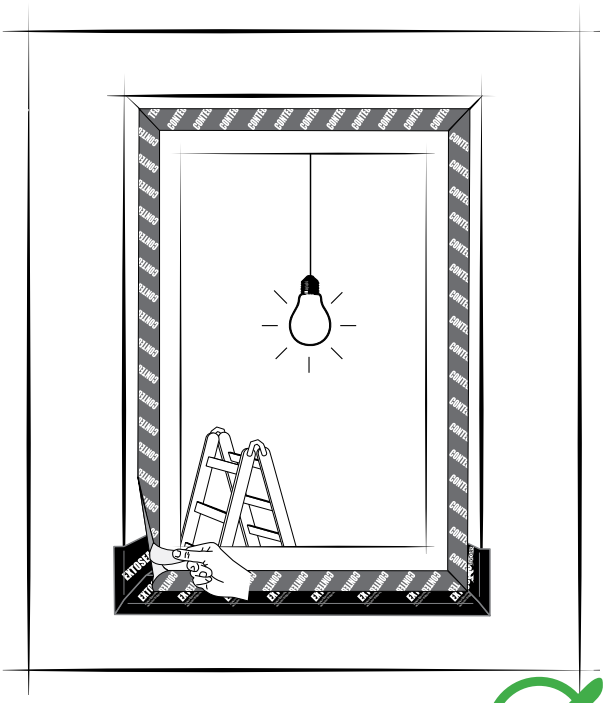
Instulate around setting blocks

Practical tip:
Folding over the window-sealing tape in advance will make it easier to insert the insulation. Install the insulation material around the profile, leaving no cavities, before applying the tape. This makes it easier to carry out adhesion work on the interior and exterior sealing layers.

Installing exterior weather protection

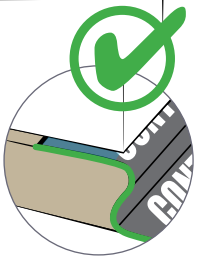
1. Stick the tape all around the reveal

Remove the release film



Rub using the PRESSFIX tool to secure

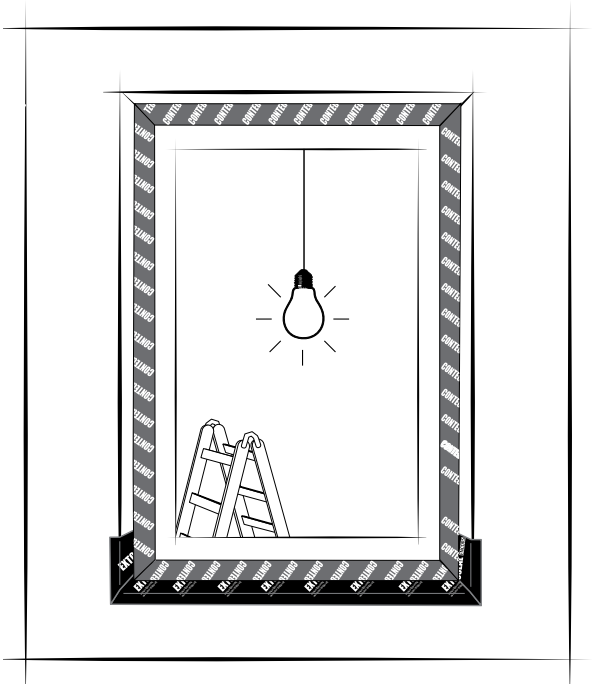
Use ORCON F adhesive at the corners if necessary

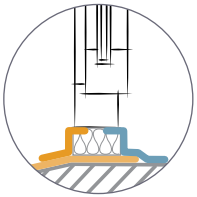


Apply the tape with slack to allow for movement.

Adhesive joints that are resistant to wind and driving rain can only be achieved if the sealing tape is installed free of folds and breaks.

2. Exterior weather protection: finished





You're finished!

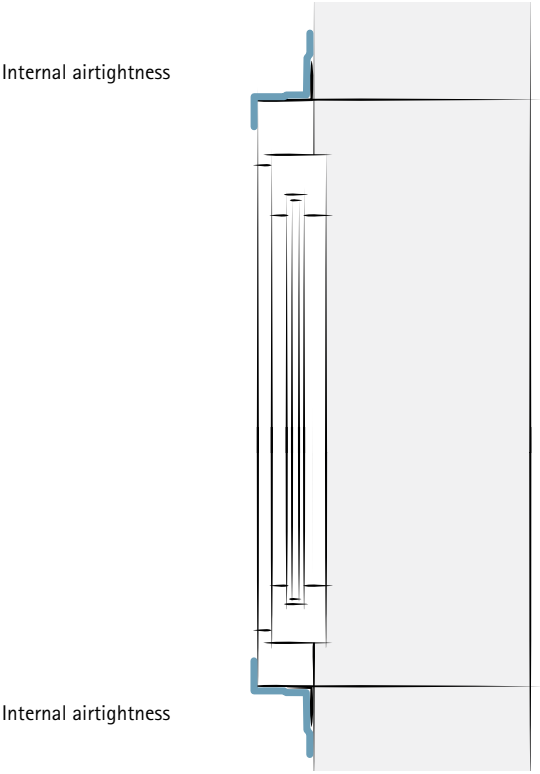
Install endpieces of window sills in such a way that they can be finished to be flush with the outer plaster layer. This prevents standing water from collecting on the top surface. Seal off any fasteners.

Installation in front of the wall

CONTEGA® SOLIDO IQ

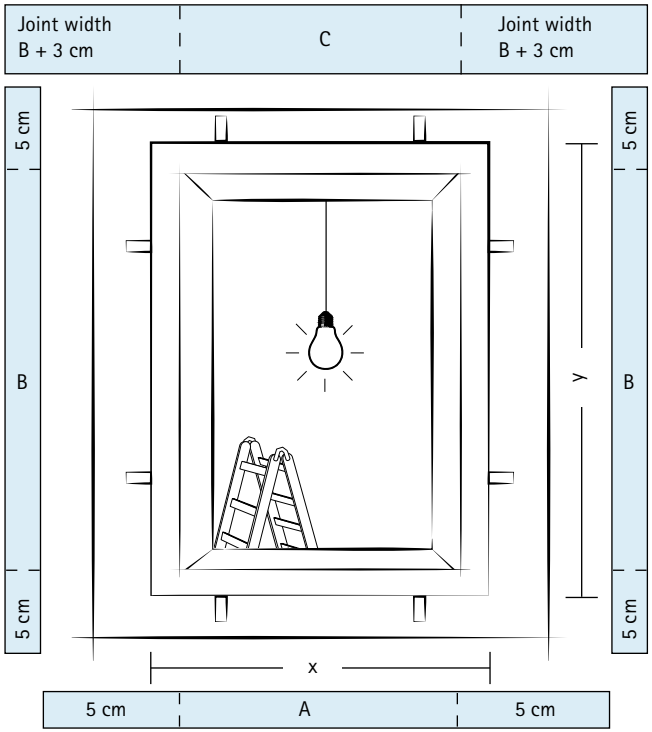
Intelligent, full-surface adhesive plaster/ window-sealing tape, for interior and exterior use

Installation steps: Externally mounted windows



The airtightness layer takes on the function of temporary weather protection during the construction phase.

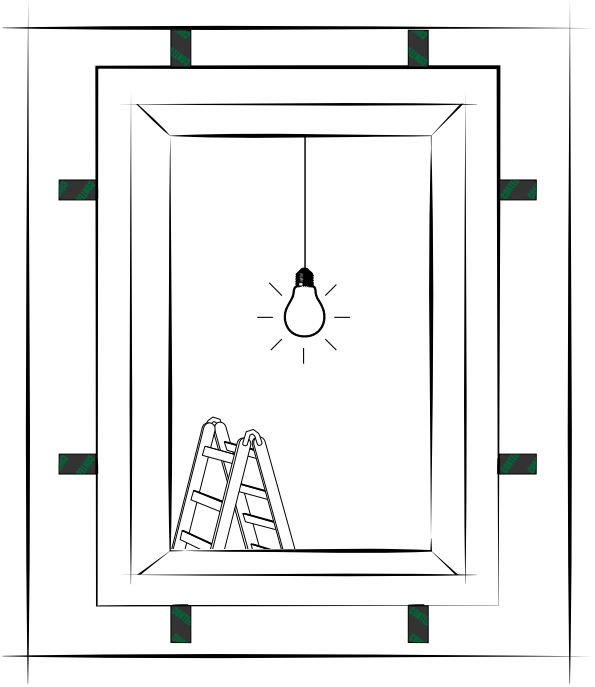
1. Cut the tape to size

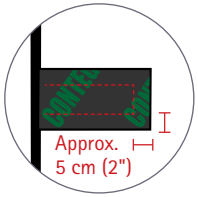


Select the tape width so that a width of 5 cm (2") is covered by the tape on the concrete/masonry. CONTEGA SOLIDO IQ should cover a width of at least 5 cm (2") on the concrete/masonry in the area around brackets/anchors.
When cutting CONTEGA SOLIDO IQ to length for the joints around the window, 2 x 5 cm (2") should be added to the frame dimensions for the lower and side tape lengths to allow for corner overlaps. The joint created at the top must completely cover the width of the taped areas at the sides. If the adhesive joints are created using a number of shorter lengths of tape for a particular side, the tape overlap must always be at least 3 cm (1 3/16") at tape joints.

A = x + 5 cm (2") + 5 cm (2")
B = y + 5 cm (2") + 5 cm (2")
C = x + double the side joint width + 3 cm (1 3/16")

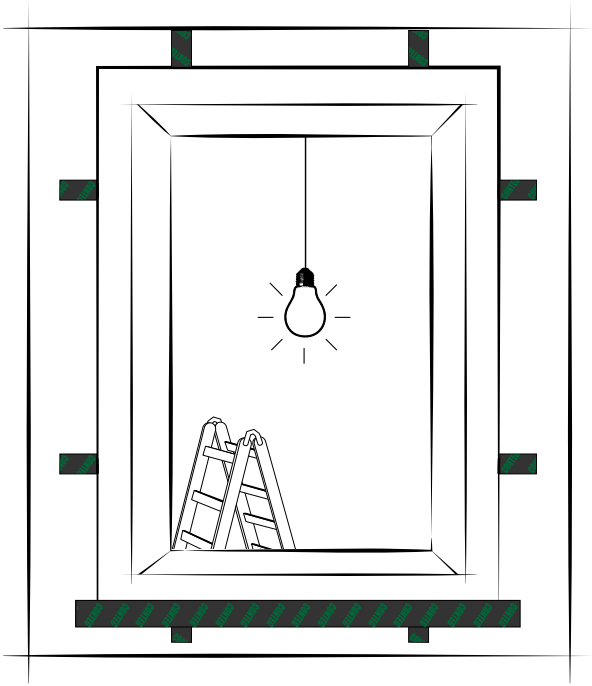
2. Tape over brackets

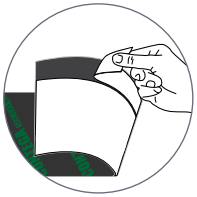




Brackets should be taped in such a way that a minimum width of approx. 5 cm (2") is achieved for adhesion to the subsurface.

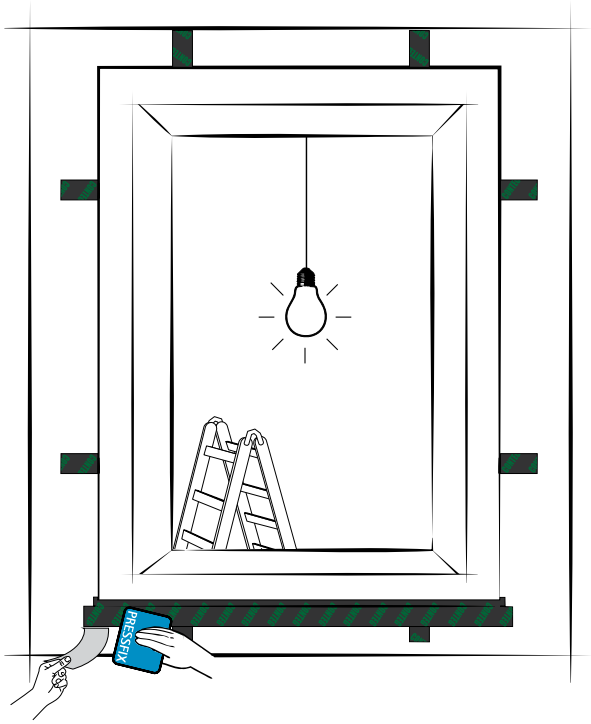
3. Stick to the window

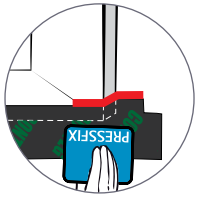




Apply the tape in a waterproof manner, starting at the bottom of the window and working up. Do not tape over any drainage openings in the window!

4. Stick to the wall

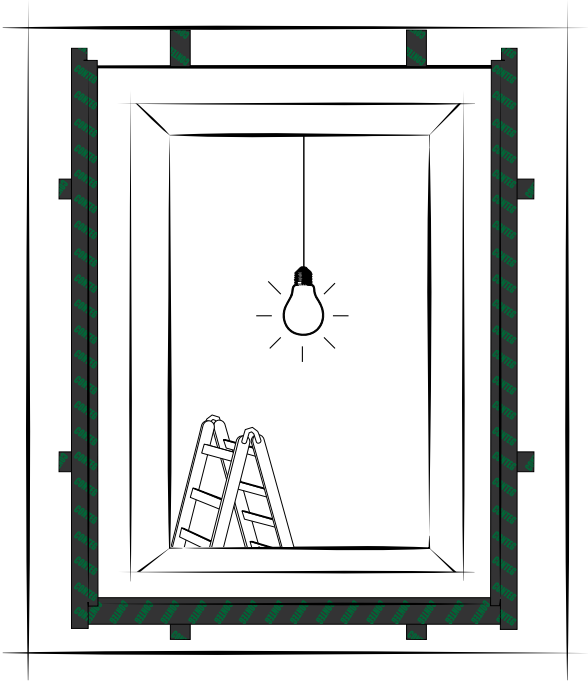


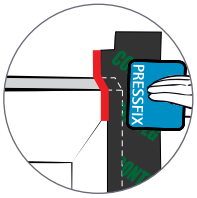


Tape application at the corners

Apply CONTEGA SOLIDO IQ around the corners of the window frame, ensuring there is no tension. Ensure that there are no folds in the outer area of the tape. After sticking, rub the tape firmly into place using the PRESSFIX application tool.

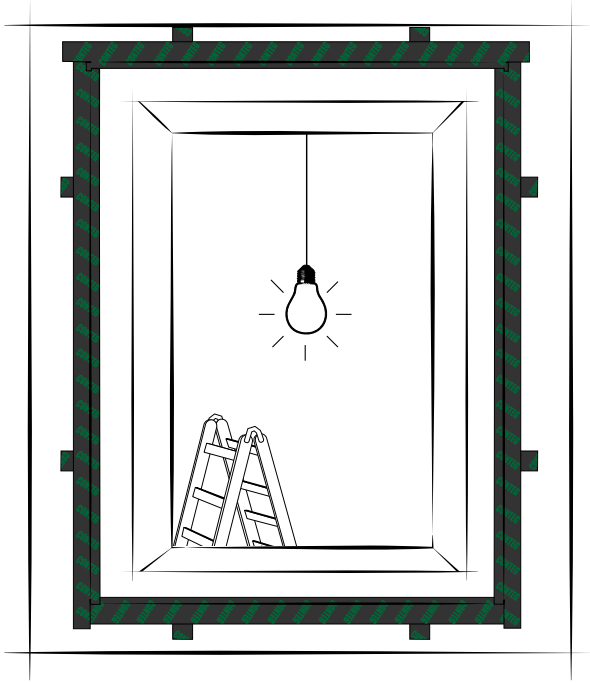
5. Sealing the side joints

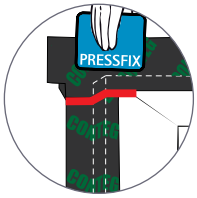




Install corner taping on the sides

6. Create the upper joint

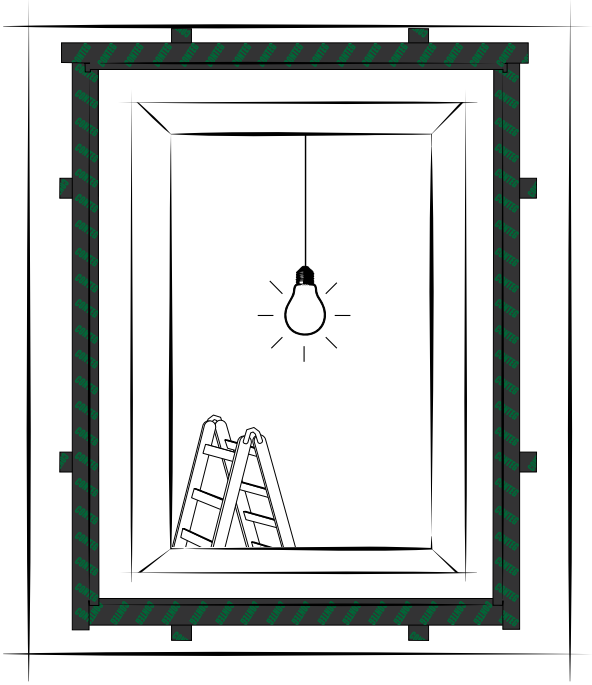


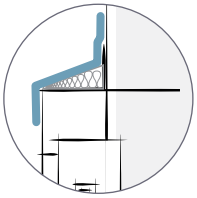


Install corner taping at the top

Apply CONTEGA SOLIDO IQ around the corners of the window frame, ensuring there is no tension. Ensure that there are no folds in the outer area of the tape. After sticking, rub the tape firmly into place using the PRESSFIX application tool.

7. Installation in front of the wall: finished



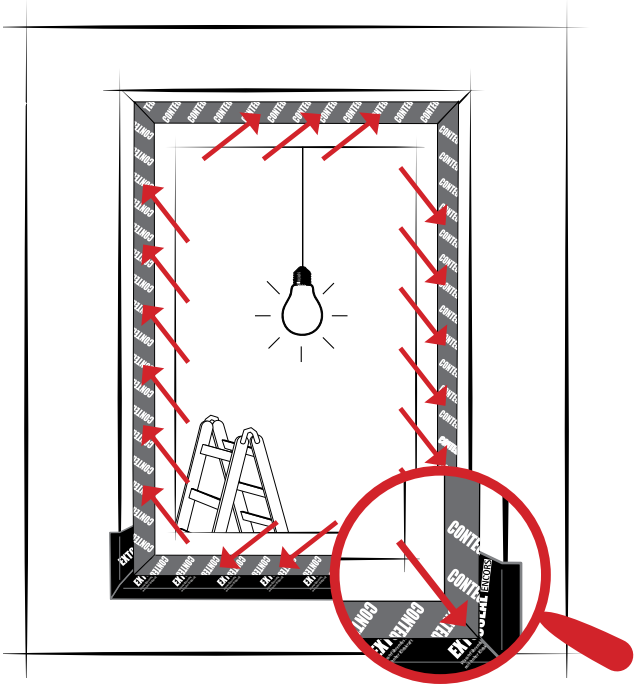


You're finished!

Before applying the tape, a wedge-shaped (insulation) profile can be installed on the window frame to prevent the collection of standing water on the top surface.

Quality assurance, acceptance and documentation

1. Visual inspection



Careful visual inspection of work carried out is essential. This check, along with documentation of quality, should be carried out before other work is carried out and before other trades begin their work. At this stage, improvements can still be carried out quickly and easily – e.g. by using ORCON F.

Practical tip:
Take photos of the installed window. This does not take much time, but is very useful: you can document the quality of your work before subsequent trades start their work.

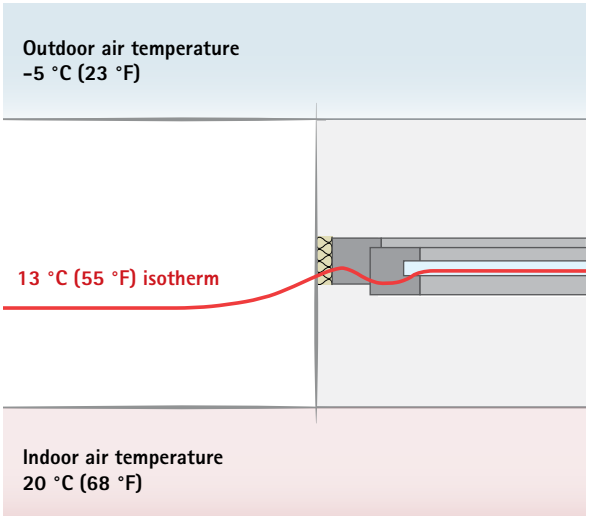
2. Differential pressure test with BlowerDoor

BlowerDoor
The Blower Door procedure is a testing method that uses a blower fan (BlowerDoor) to create different pressure conditions inside the building relative to the atmospheric pressure outdoors. This differential pressure allows defects in joints to be identified and rectified. Quality assurance using this method is recommended during the course of building work, as possible leaks can be clearly identified and easily rectified. This procedure can also be used to measure the air change rate (n_{50}) in the building.

Practical tip:
Consult with other trades (e.g. roofers, carpenters, plasterers ...) beforehand, as a Blower Door test may already be planned and a number of trades can then take advantage of this test at the same time. And the client will save money too!

The correct position of the window in the building structure

Window joints



Depending on the type of wall system used, the position of the window varies as a function of the position of the 13 °C (55 °F) isotherm. This shape of this isotherm should be as smooth as possible within the overall isotherm pattern.
The window can generally be positioned in the middle of the wall. This position roughly corresponds to the course of the 13° C (55 °F) isotherm. Significant deviations from this isotherm (= reduction in the temperature) can result in increased levels of moisture in the building component and on its surface. This leads to a risk of condensation and mould formation.

Overview of pro clima's range of window-sealing products

Interior + **Exterior**

CONTEGA® SOLIDO IQ-D

Intelligent full-surface adhesive plaster/window-sealing tape with additional adhesive zone, for interior and exterior use

CONTEGA® SOLIDO IQ

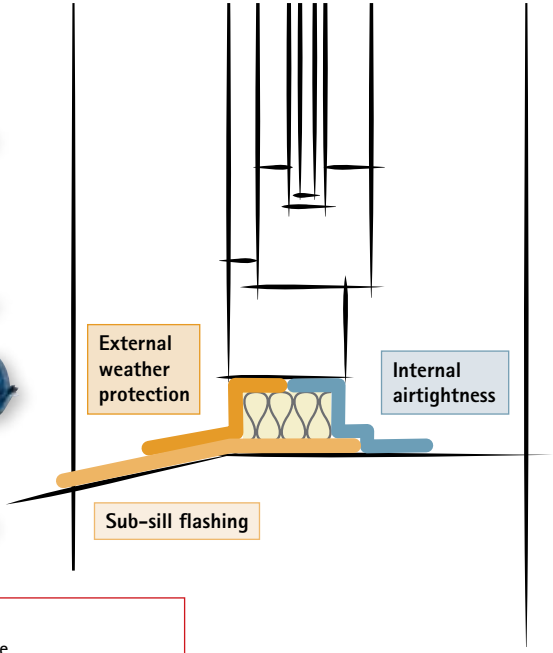
Intelligent, full-surface adhesive plaster/window-sealing tape, for interior and exterior use

CONTEGA® IQ

Intelligent window-sealing tape, for interior and exterior use

CONTEGA® SOLIDO IQ-X

Pre-folded, intelligent, full-surface adhesive plaster/window-sealing tape, for interior and exterior use



AEROSANA VISCONN system:
Sprayable sealants for interior and exterior use

AEROSANA VISCONN

Sprayable airtightness sealant with humidity-variable water vapour permeability, blue/black or white

AEROSANA VISCONN FIBRE

Fibre-reinforced sealant with humidity-variable water vapour permeability, blue/black or white

AEROSANA FLEECE

Fleece for covering cracks or joints

What do the product names mean?

SOLIDO	Full-surface adhesive, not sensitive to moisture
SOLIDO-D	Full-surface adhesive + adhesive surface on the fleece side, for simple corner details
IQ	INTERIOR + EXTERIOR, humidity-variable ... with IQ
SL	INTERIOR, airtight and vapour-checking
EXO	EXTERIOR, diffusion-open, windtight and resistant to driving rain

Interior: Airtightness

CONTEGA® SOLIDO SL-D

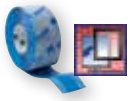
Full-surface adhesive plaster/window-sealing tape with an additional adhesive zone on the fleece side, for interior use

CONTEGA® SOLIDO SL

Full-surface adhesive plaster/window-sealing tape, for interior use

CONTEGA® SL

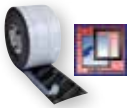
2-ply plaster/window-sealing tape with vapour-checking properties



Exterior: Weather protection

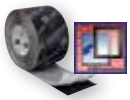
CONTEGA® SOLIDO EXO-D

Full-surface adhesive plaster/window-sealing tape with an additional adhesive zone on the fleece side, for exterior use



CONTEGA® SOLIDO EXO

Full-surface adhesive diffusion-open plaster/window-sealing tape that can be plastered over, for exterior use



CONTEGA® EXO

Window-sealing tape, for exterior use

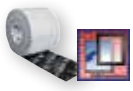
CONTEGA® FIDEN EXO

Pre-compressed, diffusion-open joint-sealing tape that is resistant to driving rain, for exterior use

Sub-sill flashing

EXTOSEAL® ENCORS

Water-resistant adhesive tape with high adhesion



You too can benefit from the advantages of our system solutions!

- ✔ Sealing system with our CONTEGA tapes for interior and exterior use that has been tested on all four sides around windows, i.e. including the bottom sill area.

- ✔ Excellent capacity to absorb relative motion between components, in all directions.
- ✔ Immediately sealed, can be subjected to 100% loading, regardless of the subsequently installed material layers, you can choose the insulation material and everything else. Tested without covering / cladding layers
- ✔ 10-year system warranty if used as part of the pro clima sealing system.

pro clima
10 year-system-warranty
comprehensive · transparent · fair
proclima.com/service/system-warranty

Notes

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info@proclima.com · **proclima.com**

pro clima®

System and product brochure

Our detailed system and product brochure for the pro clima window-sealing system describes the requirements that have to be fulfilled by window and door joints, presents relevant background knowledge, and introduces our system solutions and products.
This brochure can be downloaded here:
proclima.info/en/downloads-windows

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