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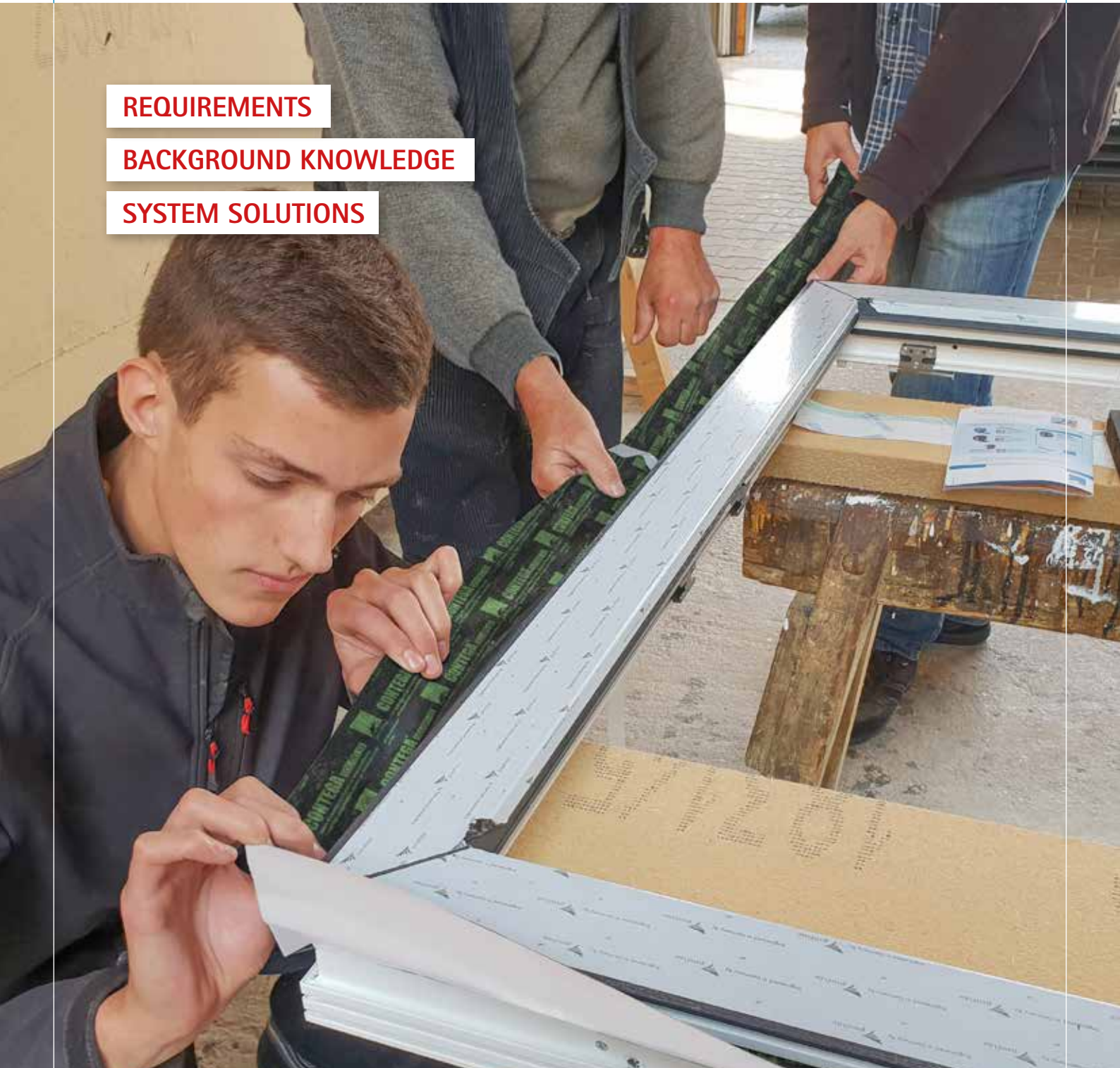
# System and product brochure

## Window-sealing system

REQUIREMENTS

BACKGROUND KNOWLEDGE

SYSTEM SOLUTIONS



Background knowledge for reliable planning and implementation of window joints



## The challenges – What windows have to withstand



Sunlight



Driving rain



High temperature differences



Wind



External noise



Movement of the building structure

## The requirements – Wishes of clients and investors



Energy efficiency



Avoiding mould and moisture damage to structures



Living comfort



Protection against weathering



Natural lighting



Fire protection



Movement of window/door frame



Pleasant temperatures



Indoor air humidity



Ventilation

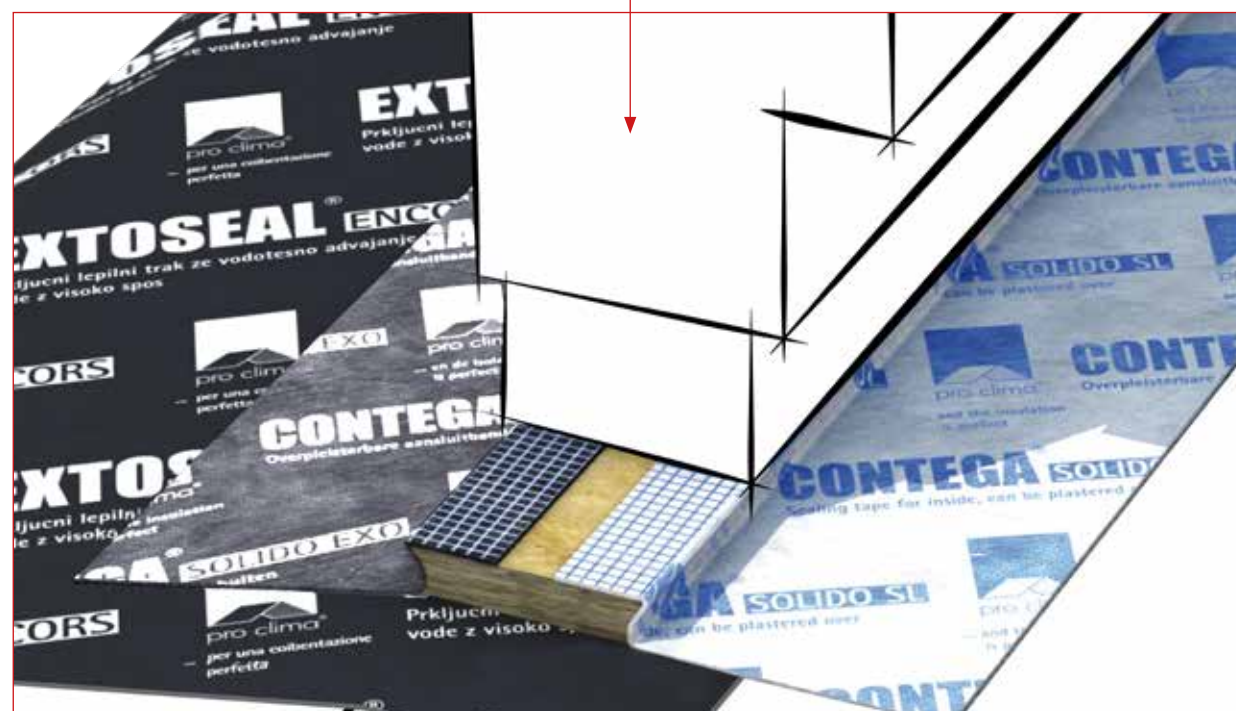
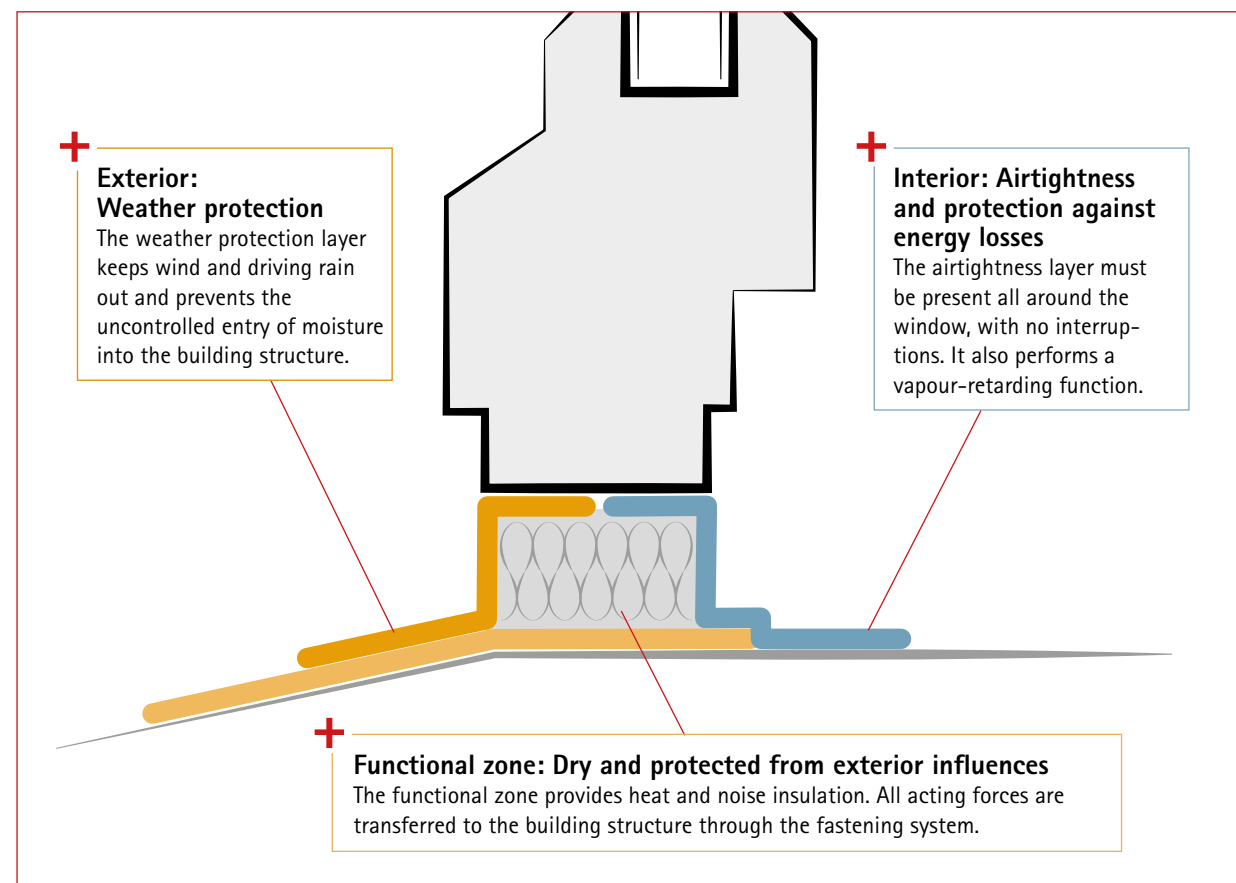


Self-weight



## The design principle: Joints are of critical importance!

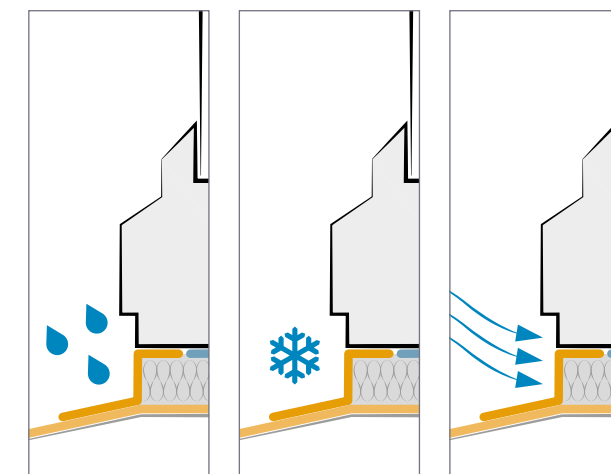
Joints between building components are always challenging – they are just a few millimetres in width, but have to do the same job as an exterior wall with a thickness of 40 centimetres. Alongside the external influences that act on a building component, there are also laws and standards that stipulate requirements that joints have to fulfil. The wishes of clients or investors are additional considerations that have to be taken into account. The quality and performance of window joints are dependent on good planning, installation according to the three-layer principle, and the choice of materials used.



## The logic behind the three functional layers

### 1. Exterior: Weather protection

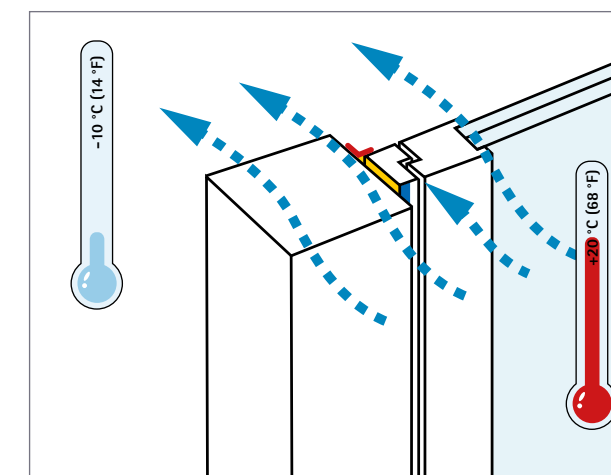
Windtightness and sealing against driving rain are crucial components of a reliable, well-protected structure. Weather protection must prevent the entry of water into the building and the structure to ensure that the walls and windows can perform their functions properly, as planned. Windtightness prevents the flow of cold outdoor air through the joint insulation; rain protection prevents the entry of rain into the structure and/or joint. The entry of rain from the outside into or through the building structure can lead to failure of this structure and to mould formation. Windtightness ensures the effectiveness of the insulation and prevents localised cooling on interior surfaces. Ideally, this layer should be more diffusion-open than the airtightness layer. In this way, any moisture that has entered or any condensation that has formed during wintertime can dry out again. A carefully installed wind-tightness layer also helps to prevent air currents. It provides protection against wind, rain and snow.



Protection against rain, snow and wind

### 2. Interior: Airtightness

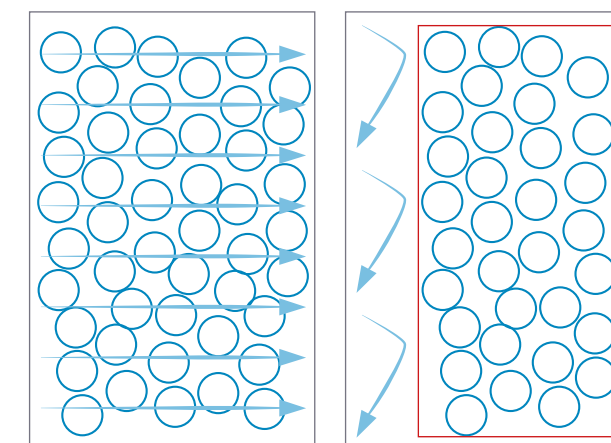
Established best practice has recognised the importance of airtightness for roofs and exterior walls for many years now, and this requirement particularly applies to window joints. The overall reliability, performance and durability of building components depend various factors: one of the most important characteristics of insulated structures in this context is airtightness. In the case of window joints, air currents can have impacts on both sides – interior and exterior. In winter, cold air will flow in through any leaks in the joint, cool down interior surfaces and thus create higher air humidities. Mould and condensation can then be expected. If warm room air flows outwards, moisture damage can be expected on the exterior – with ice formation, algae and mould. The formation of condensation both inside and outside the structure can lead to significant damage to structures and to mould that is harmful to human health. An airtight joint at the window joint helps to avoid this type of damage to structures as well as risks to human health.



Diffusion flow in winter: molecular transport of humidity through the building component and joint.

### 3. Functional zone: Joint insulation

All of the functions of the wall and window also have to be performed by joints in an extremely compact space. Any deficiencies, gaps or flaws in this area directly affect the thermal insulation and noise protection. Full performance can only be achieved with a properly sealed and fully insulated joint. The joint determines the quality of the overall building envelope. It acts as a thin separation between the interior and exterior environments, and it must be protected against the elements and remain dry and airtight. If the quality of the joint and the joint insulation is neglected, cold and/or damp surfaces could result, which in turn lead to damage to structures and mould.



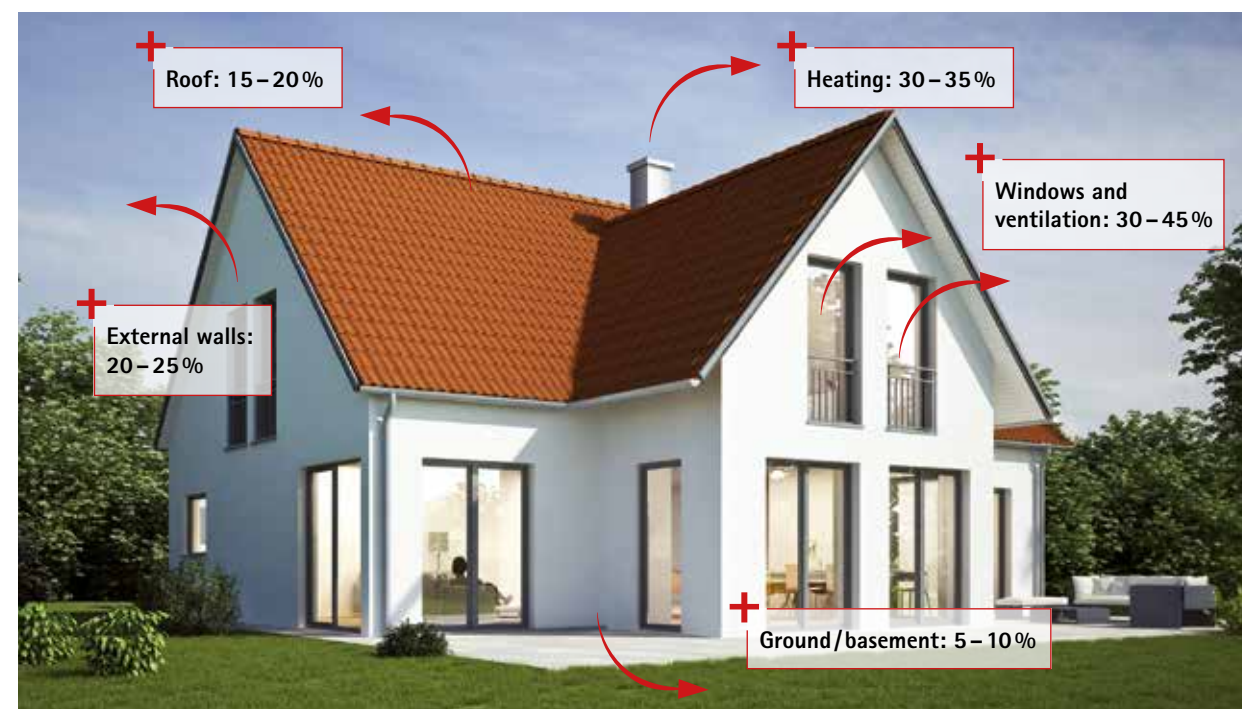
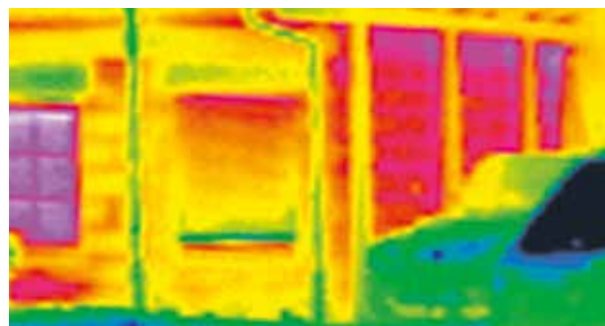
Comparison of unprotected and protected insulation: no air movements within the porous structure are possible on the right. Full insulation effect.

## Energy efficiency

Only an airtight structure is energy-efficient, regardless of its size or whether the structure is an entire roof or a window joint. Airtightness ensures that the joint performs in an optimal manner. This reduces heating costs, and is thus beneficial from both a financial and a climate-protection viewpoint.

### A small matter, but with a major impact!

Even the smallest leaks in the airtightness layer – e.g. those due to window joints that are not installed properly – allow warm room air to escape quickly to the outside. They can thus lead to an increase in heating costs relative to airtight building components. Inadequate airtightness reduces the cost-effectiveness of thermal insulation for building owners.



A leaky and insufficiently insulated building envelope causes heating energy losses. Windows and doors – and the professional installation of these components – have a major influence on this. This is demonstrated by this example of a detached single-family house, built in 1984. (Source: saena)

### A leaky building envelope: High heating costs

A house with a living space of 80 m<sup>2</sup> and inadequate airtightness uses just as much heating energy as an airtight house with a living space of around 400 m<sup>2</sup>. A large fraction of the heat losses here take place through the windows and doors. These energy losses can be avoided if building components and joints are sealed in a professional manner. (Source: dena)

### Airtight building envelope: Low heating costs

On average, houses in Central Europe consume 22 litres of oil or 220 kWh of gas per m<sup>2</sup> of living space for heating. For the sake of comparison, a house built to current requirements for airtightness and thermal insulation uses just 3 litres of oil/m<sup>2</sup> of living space, while a passive house consumes only 1 litre/m<sup>2</sup>.



More information on this topic:

[proclima.info/en/energy-efficiency](https://proclima.info/en/energy-efficiency)



## Healthier buildings

Effective airtightness protects against mould and prevents draughts. Excessively dry indoor air is avoided in wintertime and rooms stay cooler longer in summer. All transitions need to be implemented in an airtight manner on the inside to allow the building envelope to perform in this way.



### Draughts

Gaps in the airtightness layer can result in draughts in indoor rooms, depending on the pressure conditions in and around the building. Draughts not only create an uncomfortable sensation, but may also make people sick. If a light air current is continually present, the body gets used to it and the person is then not inclined to take remedial measures against draughts. The mucous membranes and muscles cool down, and colds and muscle tension can result.

### Mould

Defective window joints can lead to mould formation. If humid, warm indoor air enters into a building component through a leaky airtightness layer, condensation formation on the inside and thus also mould growth may result. If cold outdoor air enters the building through a leak, the surface temperature drops at the entry point. If warm indoor air meets this cooled-down surface, the relative humidity is increased and condensation may form. In this scenario, there is a risk of mould on surfaces.

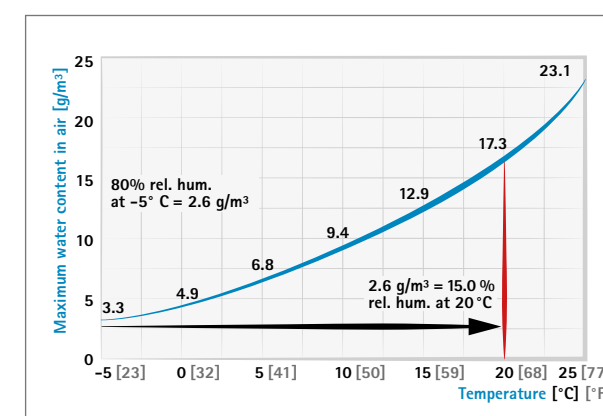
Many mould fungi release poisons – such as MVOCs (microbial volatile organic compounds) – and spores as secondary metabolic products that are harmful to human health. Mould is regarded as a leading cause of allergies. It does not matter whether these MVOCs or spores enter into the human body through food, i.e. through the stomach, or through the air into the lungs. Humans should avoid all contact with mould fungi.



### Dry indoor air in winter

The frequently observed phenomenon of dry indoor air in winter is a result of the entry of cold outdoor air into buildings through gaps in the building envelope. If this cold air is warmed up by heating, its relative humidity content reduces.

For this reason, buildings with poor airtightness tend to have air that is too dry in winter, and this cannot be significantly improved by humidification equipment. The consequence is an unpleasant indoor climate.



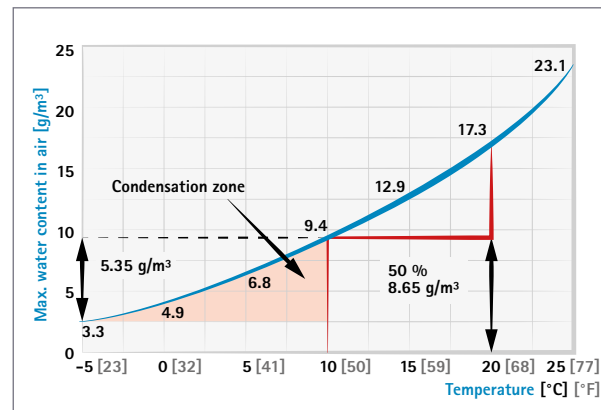
### An example:

Cold air at -5 °C and 80% relative humidity can absorb a maximum of 2.6 g/m<sup>3</sup> of moisture. If this air is heated to 20 °C, the relative humidity falls to 15 %. This value is much too low for a healthy indoor climate. A relative humidity of 40 to 50 % is generally perceived to be pleasant at 20 °C.



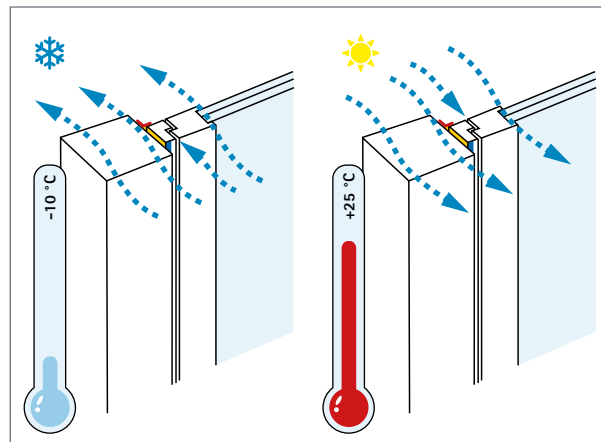
## Avoiding moisture damage

Damage to building structures due to rotting and mould can occur if humid, warm indoor air enters into the functional layer in winter – e.g. through window joints that have not been installed professionally – and condensation is formed. This is avoided if the joint is installed in an airtight manner on the inside. The three causes of moisture in and on building components are:



### Condensation

Air has only a limited capacity for holding water that depends on its temperature. It has a higher uptake capacity at high temperatures, and a lower capacity at low temperatures. If the temperature of the air drops, all that happens initially is that the relative humidity increases. However, if the temperature drops even further, the limit curve of the uptake capacity is reached: the 100% saturation curve. If the temperature drops even further beyond this point, the air can no longer store its initial water content and condensation forms. As an example, the behaviour of air at 20 °C and 50% relative humidity is described. At 20 °C and 50% relative humidity, 8.65 g of water/m³ is stored in the air. If the temperature drops, condensation forms from 9.3 °C onwards: the boundary curve for 100% saturation has been reached. If the temperature drops even more, an increasing amount of condensation is formed and the risk of damage to structures increases.



### Diffusion

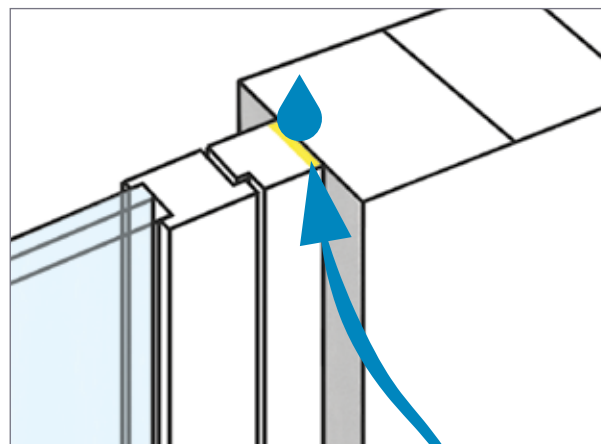
Vapour diffusion refers to the process of moisture transport by means of molecular movement. The driving force is the difference in vapour pressure between the outdoor and indoor environments. In contrast with convection, moisture transport takes place not by means of an air current, but rather through the movement of water vapour molecules through the building component. The direction of the diffusion flow is generally from the inside to the outside in winter, and from the outside to the inside in summer.

The diffusion flow is regulated by the differing resistances ( $s_d$  values) of the individual material layers. An outer layer (e.g. outer sheeting on the window joint) with a low  $s_d$  value allows a lot of moisture to leave the structure. A good design principle is: a building component should become increasingly diffusion-open as you move towards the outside. Layers that have variable  $s_d$  values facilitate intelligent management of moisture and help to achieve balanced conditions within the structure.

### Convection

Convection refers to a current of air – resulting in this case from leaks in the building envelope. It is driven by two factors: the incident wind flow around the building and the pressure conditions inside the building. Temperature distribution, volume and building height are additional factors inside the building that affect convection. Air currents – i.e. the convective transport of humidity through and/or into a building component – must be avoided.

The amount of moisture transported by convection is several times greater than that transported by diffusion processes; indeed, the amount of moisture that enters by convection can easily be 1,000 times greater than that entering by diffusion.



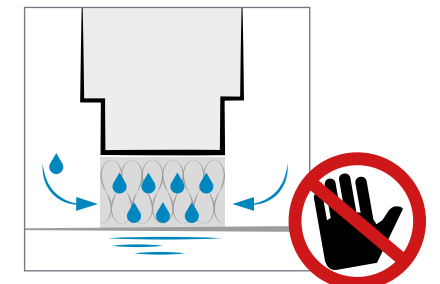
## Protection against moisture and mould

The interior and exterior sealing layers must be correctly installed and must work properly in order to prevent damage to structures and risks to human health.

### The interior and exterior sealing layers are not sealed

Humid, warm indoor air flows through the joint. Condensation is formed. Precipitation water from the outside penetrates into the wall structure.

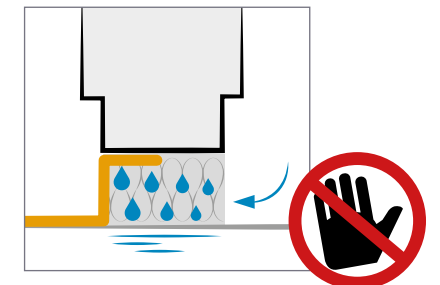
- ✗ The functional layer becomes damp
- ✗ Uncontrolled heat losses
- ✗ Continuous air and wind flows
- ✗ Risk of complete failure of the building component
- ✗ Risk of mould formation



### The exterior sealing layer is sealed, the interior sealing layer is not sealed

Humid, warm indoor air flows through the joint. Condensation is formed.

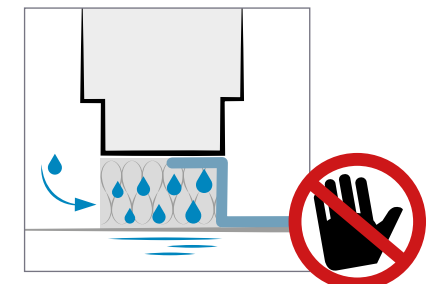
- ✗ The functional layer becomes damp
- ✗ The performance of the insulation is reduced
- ✗ The structure becomes damp
- ✗ Risk of mould formation



### The interior sealing layer is sealed, the exterior sealing layer is not sealed

The joint is not protected against wind and rain on the outside. Moisture can enter.

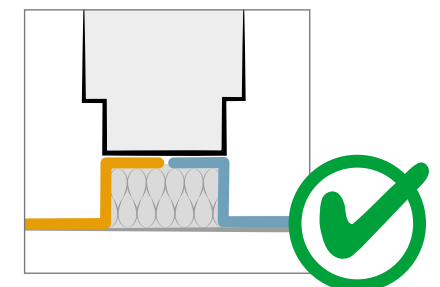
- ✗ The functional layer becomes damp
- ✗ Uncontrolled heat losses
- ✗ Rain enters directly into the structure
- ✗ Risk of mould formation



### The interior sealing layer is airtight and vapour-checking, the exterior layer is windtight, resistant to driving rain and diffusion-open.

Wind or indoor air does not flow through the joint, and the functional layer can carry out its (thermal insulation) function and keeps the structure dry. The exterior of the component joint is protected against wind and rain.

- ✓ The functional layer is protected
- ✓ Air currents are avoided
- ✓ No heat losses



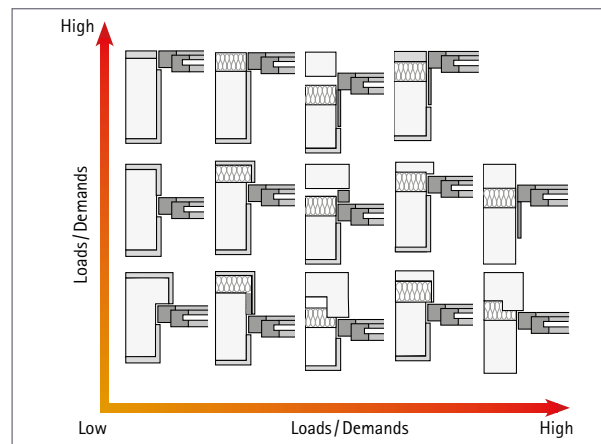
### Summary:

Proper implementation of the joint is crucial!

1. Interior sealing layer = Airtight and vapour-checking
  2. Functional layer = Securely fastened, provides thermal and noise insulation
  3. Exterior sealing layer = Windtight, resistant to driving rain and diffusion-open
- This principle corresponds to current engineering practice and the generally accepted minimum that needs to be fulfilled.



## Installation position and effects of this position

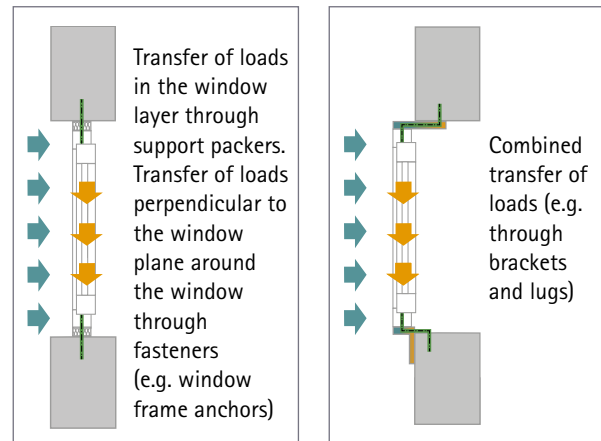


### Loads and demands on the window joint

The installation position of the window in the exterior wall is dependent on the structure of the wall, the possible methods of fastening and sealing, and the design requirements on the interior and exterior.

Particular attention should be paid to reducing thermal bridges and to achieving optimised isotherm profiles.

The graph on the left shows how the loads and demands imposed on a window increase depending on its installation position.

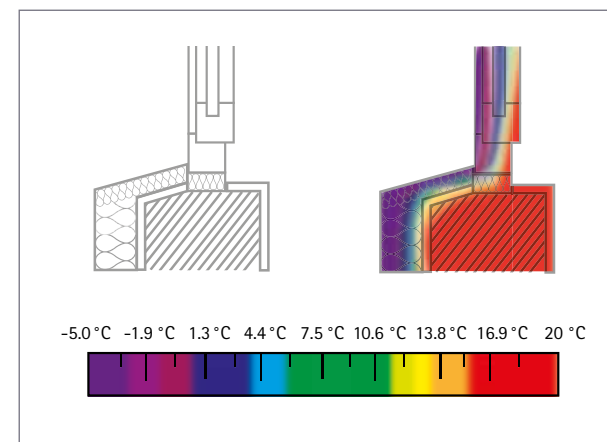


Installation position in the reveal of the supporting structure

Installation position outside of the supporting structure

### Thermal bridges

Thermal bridges refer to thermal weak points (with a higher heat flow density) in structural designs. Firstly, an increased amount of heat is lost through thermal bridges (transmission heat losses), which leads to a higher energy consumption; in addition to this, cold surfaces arise at thermal bridges in winter that can favour the formation of condensation and mould. Thermal bridges always occur at window joints as a result of the different thicknesses of the components. Depending on the wall structure, the window frame should be directly adjacent to the insulation of the exterior wall and, if necessary, covered over with insulation in order to reduce thermal bridges.



### Fastening

All forces that can be expected to act on the window must be reliably transferred to the building structure by means of suitable fastening. The installation position determines the choice of fastening system to a significant extent. The transfer of forces to the building structure is to be taken into account accordingly during design.

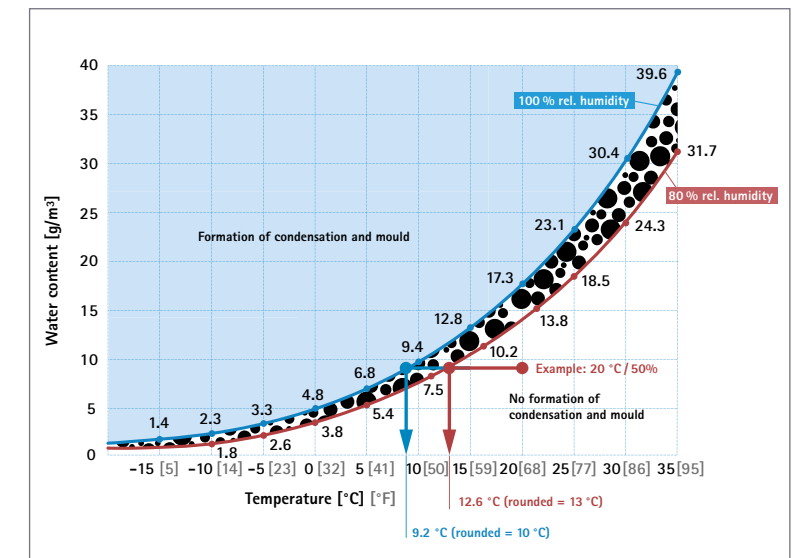
Acting forces: Self-weight horizontally and vertically, additional loads due to add-on components, wind load, loads from self-weight, vertical and – if applicable – horizontal live loads

## Isotherm curves

### Critical temperature for the dew point and for mould fungi

Consideration of isotherm curves is a necessary part of a modern approach to planning window installation – due in part to the increase in damage to structures that can be observed. This issue is the basis for professional installation and the reliable sealing of window joints.

Isotherms run through points with the same temperature within building components. They are shown as curves or surfaces. They are calculated on the basis of the conditions in accordance with DIN 4108-2 with an indoor temperature of +20 °C and an outdoor temperature of -5 °C. Condensation can form along the +10 °C isotherm, as indoor air with a standard climate of 20 °C and 50% relative humidity condenses around this temperature. If this isotherm passes along building component surfaces or lies inside of the building component, the indoor air may condense and the surface will become damp. Mould and moisture damage to structures can result. However, consideration of the +13 °C isotherm is even more important in the planning of the position of the window in the building structure. At a temperature of 12.6 °C, the relative humidity (based on 20 °C/50%) takes on a value of 80%, which represents the start of a risk of mould. If this line lies within the structure, i.e. if the surface temperature is greater than 13 °C,

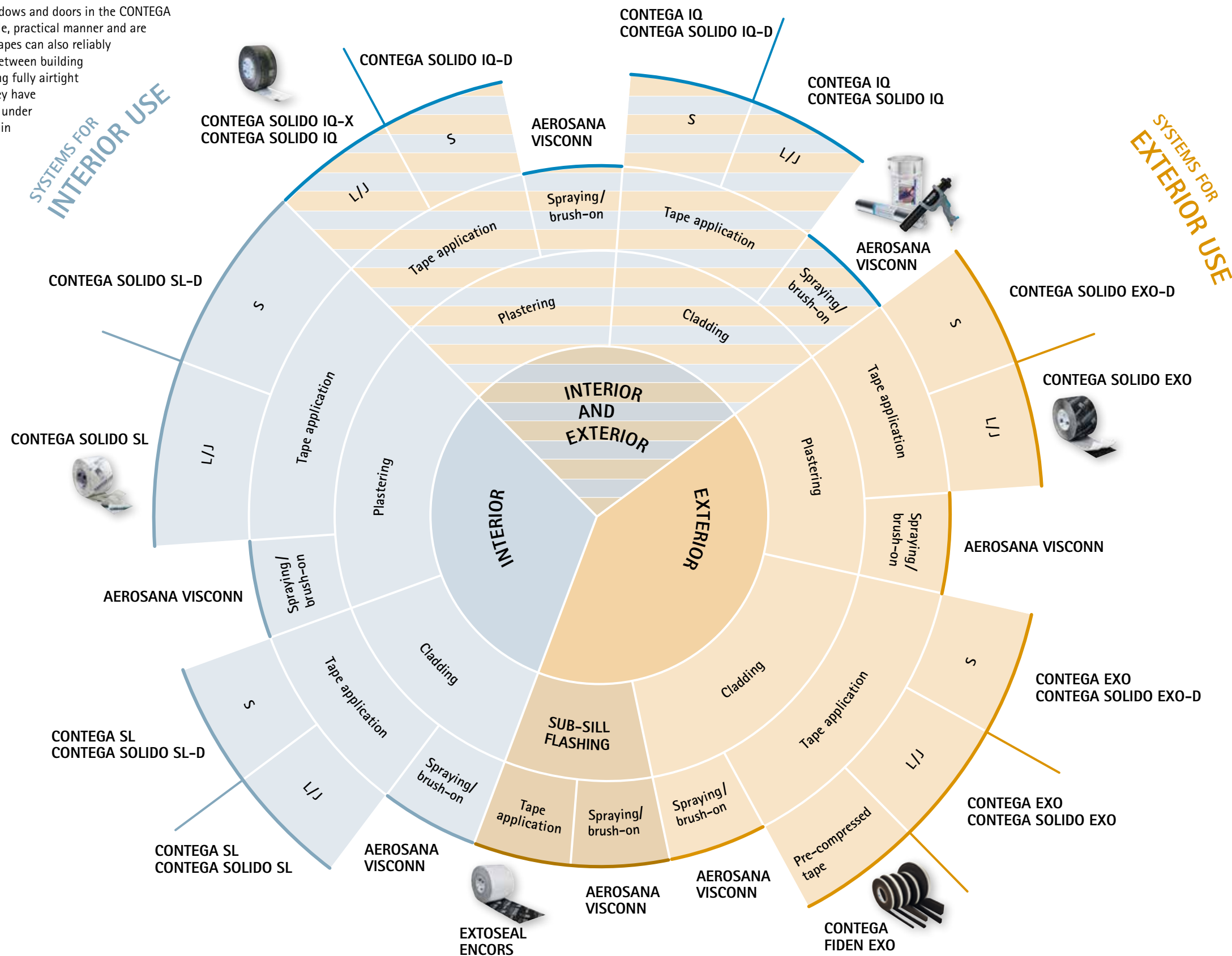




## System finder for plaster and window joints

The joint adhesive tapes for windows and doors in the CONTEGA series can be installed in a simple, practical manner and are very resistant to ageing. These tapes can also reliably accommodate relative motion between building components, while still remaining fully airtight and resistant to driving rain. They have demonstrated these capabilities under the most demanding conditions in test on building components conducted by the IFT (Institute for Window Technology) in Rosenheim, Germany.

SYSTEMS FOR  
INTERIOR AND EXTERIOR USE



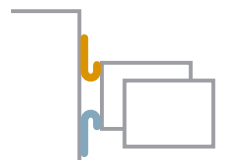
## Adhesion geometries



S-shaped



L-shaped



J-shaped

What do the product names mean ... ?

**CONTEGA**  
Adhesive tapes for  
plaster and window joints

CONTEGA **SOLIDO**  
Full-surface adhesion

CONTEGA SOLIDO **SL**  
For interior use

CONTEGA SOLIDO **EXO**  
For exterior use

**CONTEGA SOLIDO IQ**  
For interior and exterior  
use

**CONTEGA SOLIDO IQ-D**  
With additional adhesive  
zone on the fleece side

CONTEGA SOLIDO IQ-X  
Pre-folded

**Note:**

The products that are recommended here are intended as initial orientation as regards possible applications. Detailed product-specific recommendations for structural designs and applications can be found on our website or by contacting our Technical Support at **+49 (0) 62 02 – 27 82.45**

**More information on this topic:**  
[proclima.info/en/window-sealing](https://proclima.info/en/window-sealing)





Window-sealing tapes – the same tape for interior or exterior use, e.g.



CONTEGA<sup>®</sup> SOLIDO IQ-D

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

Areas of application:

For interior use for vapour-checking and airtight joints between membranes or wood-based panels and windows, doors or mineral surfaces. For exterior use for corresponding windtight joints that are resistant to driving rain. The adhesive zone on the fleece side allows for easier adhesion to windows and doors if applied before they are installed.



Advantages:

- ✓ Reliable installation: the same tape for interior and exterior use thanks to its intelligent functional membrane
- ✓ Saves time: the joint is immediately windproof and resistant to driving rain, and it can be subjected to loading
- ✓ Reliable joints: water-resistant SOLID adhesive has extremely strong adhesion on mineral subsurfaces too
- ✓ Easy to work with thanks to additional adhesive zone on the fleece side
- ✓ Extra thin: for easy folding in corner areas
- ✓ Construction in adherence with standards: for airtight sealing in accordance with DIN 4108-7, SIA 180 and RE 2020
- ✓ Fleece side can be plastered over: defined transition between window joints and plasterwork
- ✓ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme

Installation:



Remove the release film strip.



Create loop of slack at corner (length: 1.5 x width of gap).



Stick tape ends to one another, length: 5 cm.



Install the window, remove the release film strip and stick the tape all around the window.



Stick to be airtight or resistant to driving rain in the corners.



Rub with PRESSFIX.



Other window-sealing tapes and further information on CONTEGA SOLIDO IQ-D

- Detailed CAD drawings
- And much more:

[proclima.info/en/window-sealing](http://proclima.info/en/window-sealing)



For interior & exterior use

**CONTEGA SOLIDO IQ**  
Intelligent, full-surface adhesive plaster/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



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



Only while stocks last

**CONTEGA IQ**  
Intelligent window-sealing tape, for interior and exterior use

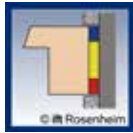


Technical data:

Backing	PP backing fleece, PE copolymer special membrane	
Adhesive	Modified water-resistant SOLID adhesive	
Release film	Single/double-split silicone-coated PE sheet	
Colour	black, print: green	
s <sub>d</sub> value, humidity-variable	EN ISO 12572	0,4 - > 25 m
Outdoor exposure	8 months	
Water column	EN ISO 811	> 2 500 mm ; 8' 2"
Can be plastered over	yes	
Installation temperature	above -10 °C ; 14 °F	
Temperature resistance	permanent -40 °C to 90 °C ; -40 °F to 194 °F	
Storage	cool and dry	



CONTEGA SOLIDO IQ-D



CONTEGA SOLIDO IQ

Supply forms:

Length: 30 m (98' 3/8"); width: 80 mm (3 1/8"); 100 mm (4"); 150 mm (5 7/8")



System finder for plaster and window joints – pages 12/13



Window-sealing tapes for interior use, e.g.



**CONTEGA<sup>®</sup> SOLIDO SL-D**

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

**Areas of application:**

For interior airtight and vapour-checking joints between membranes or wood-based panels and windows, doors and mineral surfaces. The adhesive zone on the fleece side allows for easier adhesion to windows and doors if applied before they are installed.



**Advantages:**

- ✓ Saves time: the joint is immediately airtight and can be subjected to loading
- ✓ Easy to work with thanks to the additional adhesive zone on the fleece side
- ✓ Can be plastered over directly: defined transition between window and/or vapour check and plasterwork
- ✓ Reliable joints: water-resistant SOLID adhesive has extremely strong adhesion on mineral subsurfaces too
- ✓ Independently confirmed suitability: tests in accordance with MO-01/1 passed at IFT in Rosenheim, Germany
- ✓ Construction in adherence with standards: for airtight bonding in accordance with DIN 4108-7, SIA 180 and RE 2020
- ✓ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme

**Installation:**



Masonry or timber structure



Stick to the head of the frame



Preparation of corners



Stick the tape all around the window frame



Install the window and insulate the joint



Stick onto the reveal and rub into place



Other window-sealing tapes and further information on CONTEGA SOLIDO SL-D

- Detailed CAD drawings
- And much more:

[proclima.info/en/  
window-sealing](http://proclima.info/en/window-sealing)



**CONTEGA SL**  
Window-sealing tape,  
for interior use



**CONTEGA SOLIDO SL**  
Full-surface adhesive plaster/  
window-sealing tape, for interior use



**Technical data:**

Backing	PP backing fleece, PE copolymer special membrane	
Adhesive	Modified water-resistant SOLID adhesive	
Release film	Single/double-split silicone-coated PE sheet	
Colour	white	
s <sub>d</sub> value	EN 1931	2.8 m
Airtightness	ift, MO-01/1:2007-01, Abs. 5	up to 1000 Pa, around window
Bond durability, non-aged/aged	DIN 4108-11	passed
Can be plastered over	yes	
Installation temperature	above -10 °C ; 14 °F	
Temperature resistance	permanent -40 °C to 90 °C ; -40 °F to 194 °F	
Storage	cool and dry	



**CONTEGA SOLIDO  
SL-D**

**Supply forms:**

Length: 30 m (98' 3/8"); width: 80 mm (3 1/8"); 100 mm (4"); 150 mm (5 7/8"); 200 mm (7 7/8")



**System finder for plaster and  
window joints – pages 12/13**



Window-sealing tapes for exterior use, e.g.



CONTEGA<sup>®</sup> SOLIDO EXO-D

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

Areas of application:

For exterior windtight joints that are resistant to driving rain between membranes or wood-based panels and windows, doors and mineral surfaces. The adhesive zone on the fleece side allows for easier adhesion to windows and doors if applied before they are installed.



Advantages:

- ✓ Saves time: the joint is immediately resistant to driving rain and can be subjected to loading
- ✓ Easy to work with thanks to additional adhesive zone on the fleece side
- ✓ Can be plastered over directly: defined transition between window and/or wind sealing and plasterwork
- ✓ Reliable joints: water-resistant SOLID adhesive has extremely strong adhesion on mineral subsurfaces too
- ✓ Independently confirmed suitability: tests in accordance with MO-01/1 passed at IFT in Rosenheim, Germany

Installation:



Masonry or timber structure



Stick to the head of the frame



Preparation of corners



Stick the tape all around the window frame



Install the window and insulate the joint



Stick CONTEGA SOLIDO EXO-D onto the reveal and rub into place



Other window-sealing tapes and further information on CONTEGA SOLIDO EXO-D

- Detailed CAD drawings
- And much more:

[proclima.info/en/window-sealing](http://proclima.info/en/window-sealing)



CONTEGA EXO  
Window-sealing tape,  
for exterior use



CONTEGA SOLIDO EXO  
Full-surface adhesive plaster / window-  
sealing tape, for exterior use



Technical data:

Backing		PP backing fleece, PE copolymer special membrane
Adhesive		Modified water-resistant SOLID adhesive
Release film		Single/double-split silicone-coated PE sheet
Colour		black
s <sub>d</sub> value	EN 1931	0.7 m
Outdoor exposure		3 months
Water column	EN ISO 811	> 2 500 mm ; 8' 2"
Resistance to driving rain	ift, MO-01/1:2007-01, Abs. 5	up to 600 Pa, around window
Bond durability, non-aged/aged	DIN 4108-11	passed
Can be plastered over		yes
Installation temperature		above -10 °C ; 14 °F
Temperature resistance		permanent -40 °C to 90 °C ; -40 °F to 194 °F
Storage		cool and dry



CONTEGA SOLIDO  
EXO-D



System finder for plaster and window joints – pages 12/13



Flashing/sill tapes, e.g.



**EXTONSEAL®** ENCORS

Waterproof sealing tapes for interior and exterior use

Areas of application:

For creating sub-sill flashing, for sealing window joints with masonry or concrete structures, for sealing wood-based panels to smooth mineral surfaces, for taping underlay panels made of wood fibre to one another (e.g. in roof valleys and transitions), and for sealing these to adjoining structural elements.



Advantages:

- ✓ Excellent protection for building components thanks to strong sealing effect
- ✓ Reliable application: extremely high adhesion even to slightly damp and cold subsurfaces
- ✓ Easy to work with: very elastic - can adapt flexibly to subsurfaces and corners
- ✓ Proven resistance to driving rain up to 2400 Pa
- ✓ Independently confirmed suitability: tests in accordance with MO-01/1 passed at IFT in Rosenheim, Germany
- ✓ Subsequent work can be started quickly: sticks to stable mineral subsurfaces without primers
- ✓ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme

Many possible applications:



Can be used to create sub-sill flashing.



Very elastic – adapts flexibly to subsurfaces and corners.



Waterproof taping of angle brackets.



Joints between windows and masonry or concrete structures.



Extremely elastic for corner areas.



Other flashing/sill tapes and further information on EXTONSEAL ENCORS

- Detailed CAD drawings
- And much more:

[proclima.info/en/flashings-tapes](http://proclima.info/en/flashings-tapes)



**EXTONSEAL ENCORS**  
Waterproof sealing tape, for interior and exterior use



**EXTONSEAL FINOC**  
Moisture-sealing adhesive tape, for interior and exterior use



Technical data:

Backing		Elastic PE carrier film
Main product component		Butyl rubber modified with acrylate
Colour		Butyl rubber: grey, film: black
Surface weight	EN 1849-2	1.9 kg/m² ; 6.23 oz/ft²
Thickness	EN 1849-2	1.1 mm ; 43 mils
s <sub>d</sub> value	EN 1931	> 200 m
Outdoor exposure		6 months
Resistance to driving rain	ift, MO-01/1:2007-01, Abs. 5	600 Pa (ift), sub-sill flashing
Installation temperature		-10 °C to 35 °C ; 14 °F to 95 °F
Temperature resistance		permanent -40 °C to 80 °C ; -40 °F to 176 °F
Storage		cool and dry



EXTONSEAL ENCORS

Supply forms:

Length: 20 m (65' 5/8"); width: 100 mm (4"); 150 mm (5 7/8"); 200 mm (7 7/8"); 300 mm (11 3/4")



System finder for plaster and window joints – pages 12/13





CONTEGA® FIDEN EXO

Pre-compressed joint-sealing tape, for exterior use

Areas of application:

Expanding tape for external sealing of joint gaps around windows and doors in a manner that is diffusion-open and resistant to driving rain.



Advantages:

- ✓ Permanent sealing of joints thanks to extremely high resistance to weathering
- ✓ Fulfils the highest requirements: BG1 quality and fire rating B1, P-NDS04-1001
- ✓ Ensures dry building components: resistant to driving rain and diffusion-open
- ✓ RAL quality-tested installation
- ✓ Large range of sizes available to seal all typical gap widths

Many possible applications:



Cut the outer protective film with a utility knife and remove this film.



Roll off a length of CONTEGA FIDEN EXO and cut off the overcompressed start of the tape (approx. 2 cm; 3/4").



Remove the release film, align the tape straight on the frame and gradually stick it in place. The tape must not be visible after installation (allow a recess of approx. 1-2 mm; 1/16").



Allow for a small amount of slack in the tape when sticking it in place, particularly near joints – do not stretch the tape!



Stick the tape all around the window frame. Use a separate length of CONTEGA FIDEN EXO on each side, and use butt-joints at the corners. Allow for a small amount of slack near the corners.



Install the window professionally using a suitable fastening system.



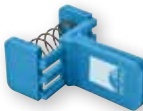
Other window-sealing tapes and further information on CONTEGA FIDEN EXO

- Detailed CAD drawings
- And much more:

[proclima.info/en/window-sealing](http://proclima.info/en/window-sealing)



EXTONSEAL FIDEN EXO  
Pre-compressed joint-sealing tape,  
for exterior use



KLIPFIX  
Clip for rolls of CONTEGA  
FIDEN EXO tape



Technical data:

Main product component	Open-cell polyurethane flexible foam with polymer impregnation
Colour	anthracite
s <sub>d</sub> value	< 0.5 m
Fire behaviour	B1, P-NDS04-1001
Joint permeability	a < 0.1 m³/[(h*m*(daPa)n]
Loading group	BG1
Weather resistance	passed
Resistance to driving rain	requirements fulfilled up to 600 Pa
Can be plastered/painted over	yes
Compatibility with conventional construction materials	yes
Installation temperature	above +1 °C ; 34 °F
Temperature resistance	permanent: -30 °C to +90 °C ; -22 °F to 194 °F
Storage	1 °C to 20 °C ; 34 °F to 68 °F, 12 months, cool and dry

Supply forms:

Length: 2.6 m (8' 1/2"); 3.3 m (10' 7/8"); 4.3 m (14' 1/8"); 5 m (16' 3/8"); 8 m (26' 1/4"); 10 m (32' 3/4"),  
Width: 10 mm (3/8"); 12 mm (1/2"); 15 mm (7/16"); 20 mm (7/8")



System finder for plaster and  
window joints – pages 12/13





## Liquid sealants



### AEROSANA VISCONN

Sprayable frost- and moisture-resistant sealant, humidity-variable, blue/black

#### Areas of application:

As a sprayable and brush-on vapour check and airtightness layer that can be applied to surfaces such as non-plastered masonry or porous panel-form materials – both indoors and outdoors. Also suitable for building component joints and for strengthening subsurfaces on renovation projects.



#### Advantages:

- ✓ Time-saving and can be applied in versatile ways: spray with an airless sprayer or AEROFIXX (compressed air) or else paint on
- ✓ Reliable structures thanks to excellent adhesive properties on all standard construction surfaces
- ✓ Covers cracks and joints of up to 3 mm (1/8") width. Larger joints can also be covered in combination with AEROSANA FLEECE.
- ✓ For robust building components: moisture-resistant, permanently elastic and highly durable once it has dried
- ✓ Improves surfaces: forms a bonding course between subsurfaces and subsequent coatings
- ✓ Can be plastered/painted over, pro clima adhesive tapes can be stuck onto it
- ✓ Flexible use in indoor and protected outdoor areas thanks to its humidity-variable  $s_d$  value
- ✓ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme

#### Many possible applications:



Airtight spraying over angle brackets,



... joints at double collar ties that are difficult to access,



... joints between wood-based panels,



... window joints,



... unplastered walls, and



... for challenging refurbishment situations.



## Other liquid sealants and further information on AEROSANA VISCONN

- Installation videos
- Detailed CAD drawings
- And much more:

[proclima.info/en/liquid-seals](http://proclima.info/en/liquid-seals)



**AEROSANA VISCONN**  
Sprayable frost- and moisture-resistant sealant, humidity-variable, blue/black



**AEROSANA VISCONN white**  
Sprayable sealant, humidity-variable, white



**AEROSANA VISCONN FIBRE**  
Sprayable frost- and moisture-resistant fibre-reinforced sealant, humidity-variable, blue/black



**AEROSANA VISCONN FIBRE white**  
Sprayable fibre-reinforced sealant, humidity-variable, white



**AEROSANA FLEECE**  
Fleece for covering cracks or joints



**AEROFIXX**  
Application gun for AEROSANA system foil cartridges



**AEROBOXX**  
Transport case for AEROFIXX with flexible inlay padding



#### Technical specs:

Component		Modified aqueous acrylate polymer dispersion
Colour		dark blue, when fully dry dark blue/black
Surface weight	EN 1849-2	290 g/m <sup>2</sup> ; 0.95 oz/ft <sup>2</sup> (dried, at 0.3 mm ; 13 mil thickness)
Coating application		0.2 – 1.0 mm ; 8 – 39 mil – wet film
$s_d$ value / humidity variable	EN 1931 / EN ISO 12572	6 m (at 0.3 mm ; 13 mil thickness) / 0.13 – 10.00 m
g value / humidity variable	EN 1931 / EN ISO 12572	30 MN-s/g (at 0.3 mm ; 13 mil thickness) / 0.65 – 50 MN-s/g
Fire rating	DIN EN 13501-1	E
Outdoor exposure		3 months
Resistance to driving rain	ift, MO-01/1:2007-01, Abs. 5	up to 600 Pa, around window
Watertightness to liquid water	EN 1928	W1
Water column	EN ISO 811	2 000 mm ; 6' 7"
Airtightness	ift, MO-01/1:2007-01, Abs. 5	up to 1000 Pa, around window
Can be plastered/painted over		yes, and pro clima adhesive tapes can be stuck onto it
Durability after artificial ageing		passed
Application temperature		+5 °C to +60 °C; 40 °F to 140 °F (also applies to subsurface temp.)
Drying		approx. 12 – 48 hours (at 20 °C, 65% rel. humidity) depending on subsurface and applied thickness
Temperature resistance		permanent -40 °C to +90 °C ; -40 °F to +194 °F (dried)
Coverage		~ 1.33 m <sup>2</sup> /l ; 0.42 ft <sup>2</sup> /US fl oz (= 0.75 l/m <sup>2</sup> ; 2.36 US fl oz/ft <sup>2</sup> ), depending on subsurface and application method
Storage		-15 °C to +25 °C ; 5 °F to 77 °F, closed in an airtight manner

#### Supply forms:

AEROSANA VISCONN /white: 10 litres (2.64 US gallons) tin, 0.6 litres (20.3 US fl oz) foil cartridge;  
AEROSANA VISCONN FIBRE/white: 5 litres (1.32 US gallons) tin, 0.6 litres (20.3 US fl oz) foil cartridge



**System finder for plaster and window joints – pages 12/13**





Adhesive sealants, e.g.

ORCON®

All-round adhesive sealant for interior and exterior use

Areas of application:

Permanent, elastic adhesive sealant. For sealing all types of vapour checks and vapour barriers – e.g. pro clima INTELLO, PE, PA, PP and aluminium sheeting, and underlay and breather membranes – to adjacent building components.

Advantages:

- ✓ Reliable adhesion even during frosty conditions: can be worked with above -10 °C (14 °F)
- ✓ Particularly durable: adhesion for 100 years, independently tested and confirmed
- ✓ Ensures firm and permanently elastic adhesion
- ✓ Ensures reliable joints: penetrates deep into the subsurface, remains elastic
- ✓ Test winner in April 2012 with the German product-testing foundation 'Stiftung Warentest'
- ✓ Construction in adherence with standards: for airtight sealing in accordance with DIN 4108-7, SIA 180 and RE 2020
- ✓ Can be stored down to -20 °C (-4 °F). Material does not freeze in the tube
- ✓ Excellent values in hazardous substance testing, has been tested according to the ISO 16000 evaluation scheme

Many possible applications:



Adhesive sealant for interior airtightness membranes,



... for exterior windtightness membranes,



... for vapour checks underneath external roof insulation,



... for vapour checks on refurbishment projects,



... and floor joints with wood-based panels,



... e.g. with INTELLO conneX

Other joint adhesives and further information on ORCON F

- Detailed CAD drawings
- And much more:

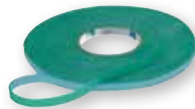
proclima.info/en/  
adhesive-sealants



ORCON F  
All-round adhesive sealant for  
interior and exterior use



ORCON CLASSIC  
Solvent-free all-round adhesive  
sealant for interior and exterior use



ORCON MULTIBOND  
Rolls of adhesive sealant for  
interior and exterior use



Technical data:

Main product component	Dispersion based on acrylic acid copolymers and ethanol. Free from plasticisers, halogens	
Colour	green	
Characteristics	high elasticity	
Bond durability, non-aged/aged	DIN 4108-11	passed
Installation temperature	-10 °C to 50 °C ; 14 °F to 122 °F	
Temperature resistance	permanent -40 °C to 80 °C ; -40 °F to 176 °F	
Storage	down to -20 °C; -4 °F, cool and dry	

Supply forms:

Contents: 310 ml (10.5 US fl oz) in cartridges; 600 ml (20.3 US fl oz) in foil tubes





Primers, e.g.



TESCON® SPRIMER

Sprayable primer for interior and exterior use

Areas of application:

For preparation and stabilisation of subsurfaces for subsequent application of pro clima adhesive tapes such as TESCO VANA, TESCO PROTECT and sealing tapes in the EXTONSEAL series. Suitable for wood, wood-fibre boards, masonry, roofs, walls and ground slabs. Also suitable for building component joints and for stabilising subsurfaces on renovation projects.



Advantages:

- ✓ Easy to apply: spray on directly from the can, no contamination of the primer in its container
- ✓ Secure bonds: penetrates deep and strengthens dusty subsurfaces or subsurfaces with insufficient stability
- ✓ Saves time: adhesive tapes can be stuck to absorbent subsurfaces with no drying time necessary
- ✓ Flexible use: can be used on dry and slightly moist subsurfaces
- ✓ At any time of the year: can also be applied during frosty conditions

Many possible applications:



Use on wood-fibre underlay panels



... wood-based panels and mineral subsurfaces



and on old timber.



Adjustable spray jet: horizontal or vertical.



Tapes can be stuck directly onto recently applied primer.



The primer strengthens unstable subsurfaces.



Other primers and further information on TESCO SPRIMER

- Detailed CAD drawings
- And much more:

[proclima.info/en/primers](http://proclima.info/en/primers)





TESCON SPRIMER  
Sprayable primer for interior and exterior use



TESCON PRIMER RP  
Solvent-free primer for interior and exterior use



Technical data:

Main product component	Synthetic rubber
Colour	translucent
Installation temperature	-5 °C to 40 °C ; 23 °F to 104 °F
Temperature resistance	permanent -25 to ~90 °C; -13 to ~195 °F, short-term up to 100 °C; 212 °F (1h)
Storage	12 months, protect from frost, cool and dry

Supply forms:

Spray cans: 0.4 (13.5 US fl oz); 0.75 litres (25.4 US fl oz)

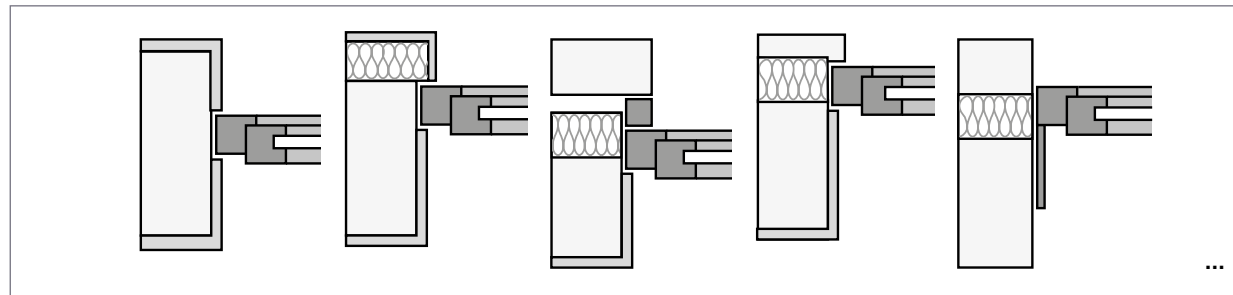


## Perfectly sealed window joints made easy

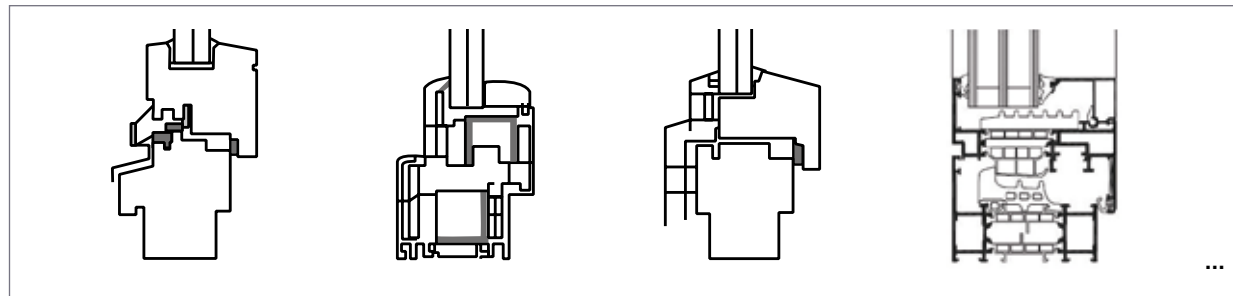
No matter how small your window joints may be, it is still extremely important to plan your installation carefully in advance and then to implement it carefully too. This process can be considered in terms of the following steps:

### Planning phase

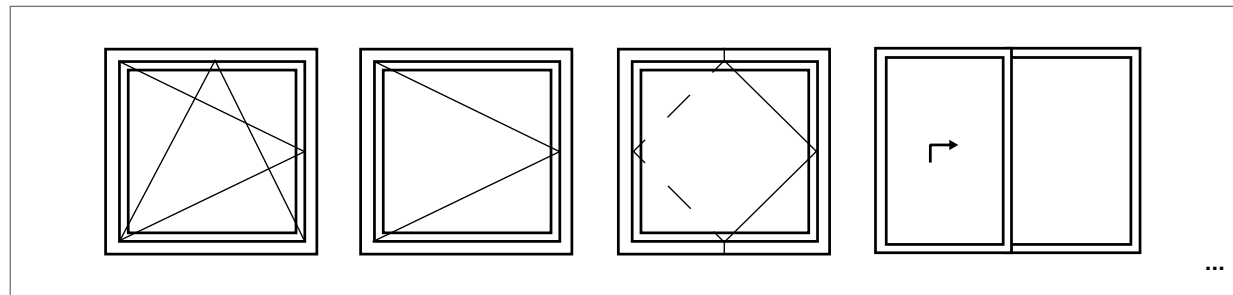
1. Type of construction, wall structure, analyse statics and determine the window position, assessment of installation situation on site if necessary



2. Specify the window structure

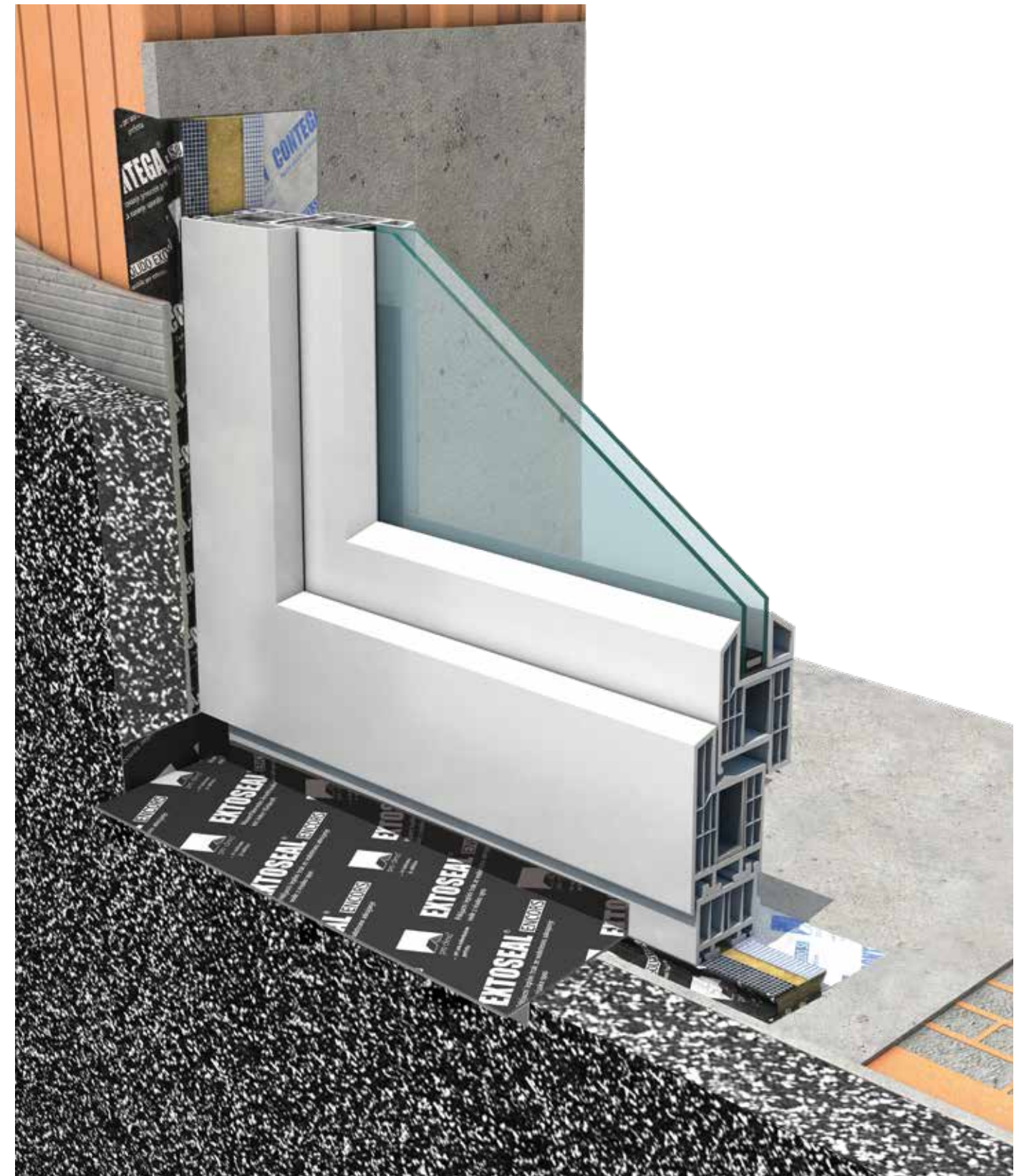


3. Specify the window type



## Installation phase

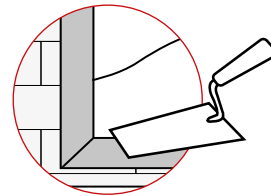
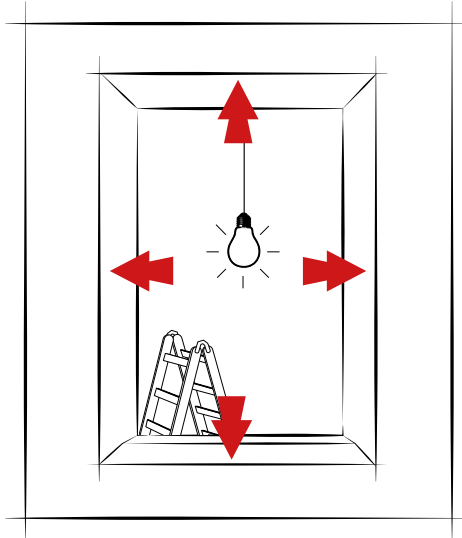
Considering a scenario with a tilt-and-turn window made of plastic, installation flush on the outside, masonry with thermal insulation composite system, new-build project with directly plastered window reveal.





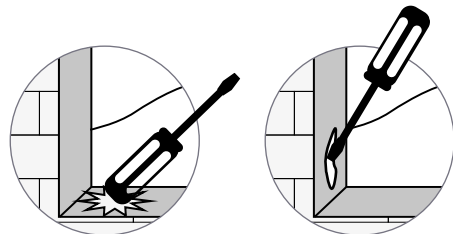
## Check the subsurface

Example: Tilt-and-turn window made of plastic, installation flush on the outside, masonry with thermal insulation composite system, new-build project with directly plastered window reveal.



A smooth plaster finish must be present

### Check the state of the subsurface

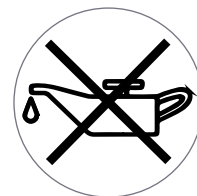


Tap surface carefully

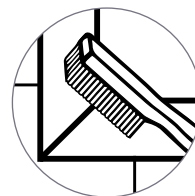
Try to rub surface



Free of frost



Free of grease and oil



Clean / brush off



#### Note

Joints at corners, clip-on profiles, wideners and covering strips are to be carried out in a manner that is airtight and/or resistant to driving rain. Open ends can be closed off with EXTOSSEAL ENCORS.

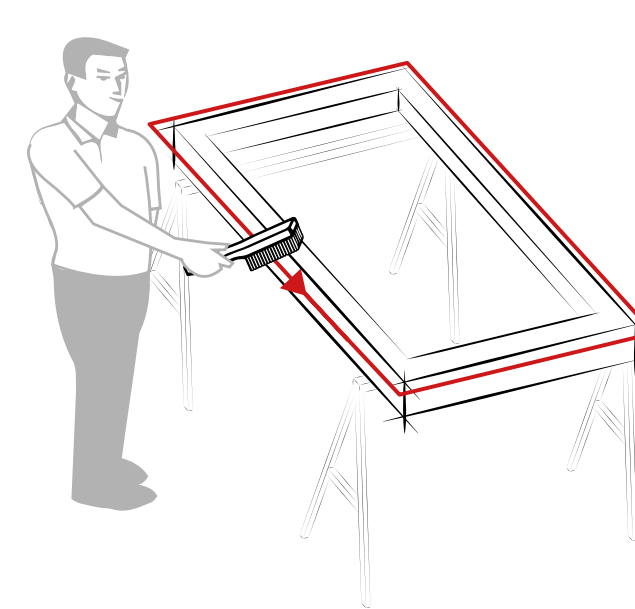


#### Practical tip

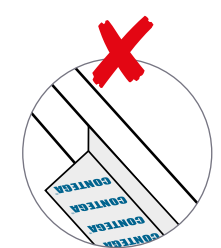
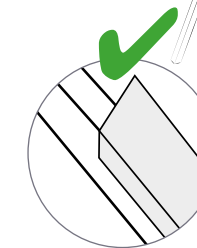
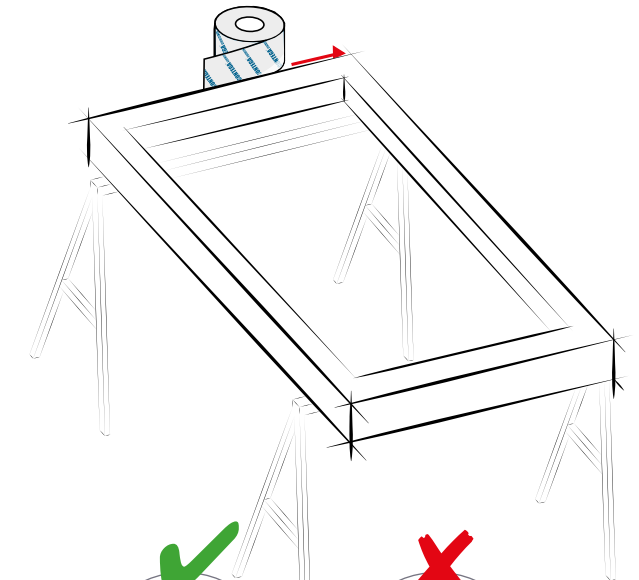
Stick CONTEGA window-sealing tapes to the frame before installing the window: simple application of the adhesive tape – reliable sealing – valuable time saved!

## Preparation for interior airtightness

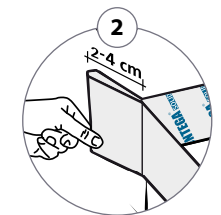
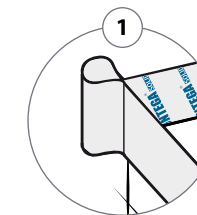
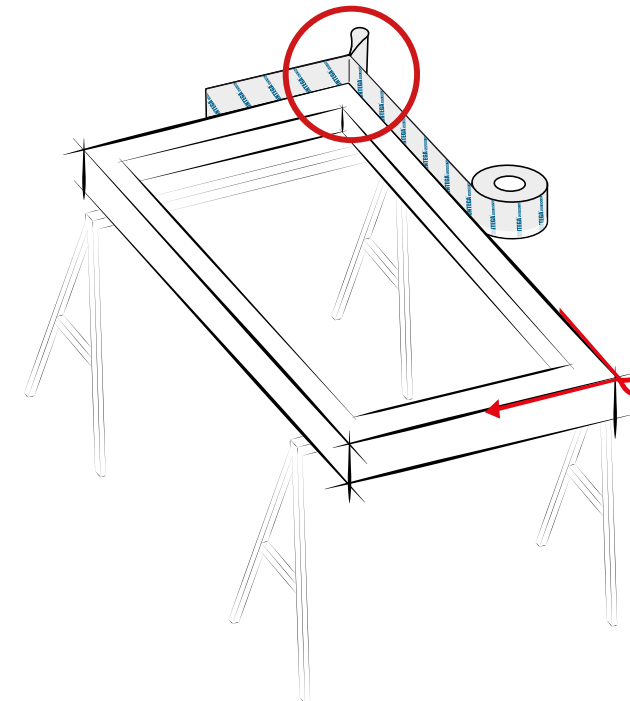
### 1. Clean the perimeter of the window frame



### 2. Stick CONTEGA SOLIDO SL onto the interior side of the frame, starting on the head of the frame



### 3. Create loops of slack at the corners



#### Note:

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 at least 4 cm (1 5/8"), i.e. approx. double the joint width.

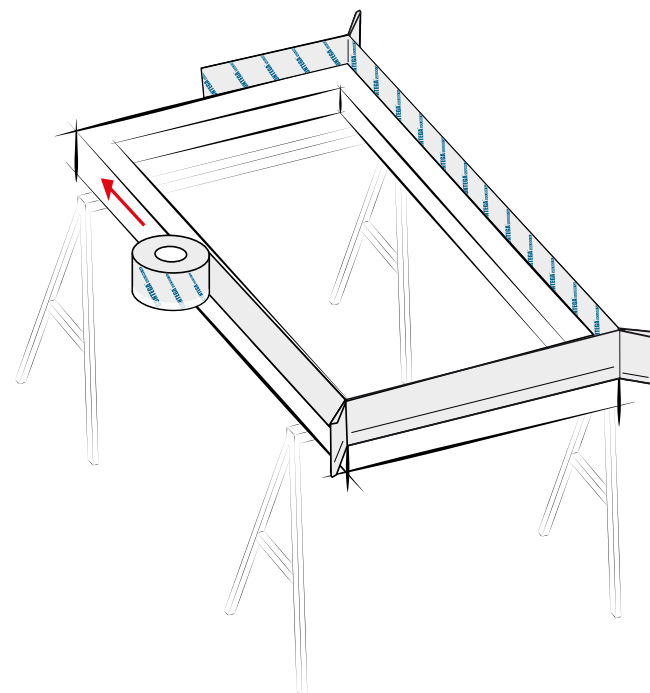


**CONTEGA SOLIDO SL**  
Full-surface adhesive plaster/  
window-sealing tape that can be  
plastered over, for interior use

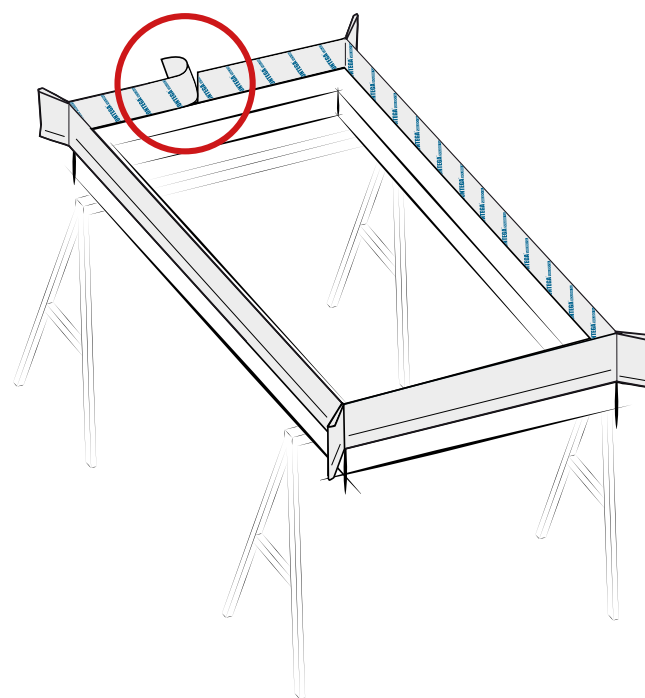


CONTEGA  
SOLIDO SL

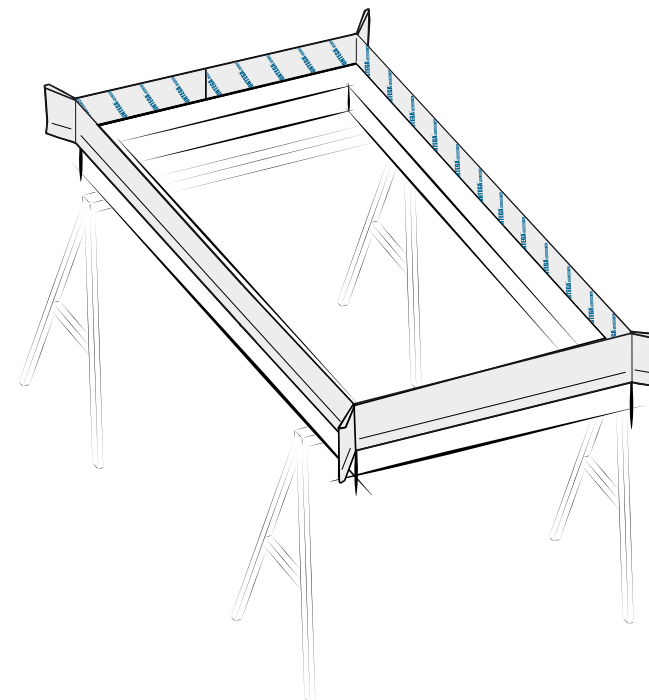
#### 4. Stick CONTEGA SOLIDO SL around the perimeter of the frame



#### 5. Stick the ends

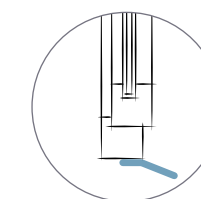
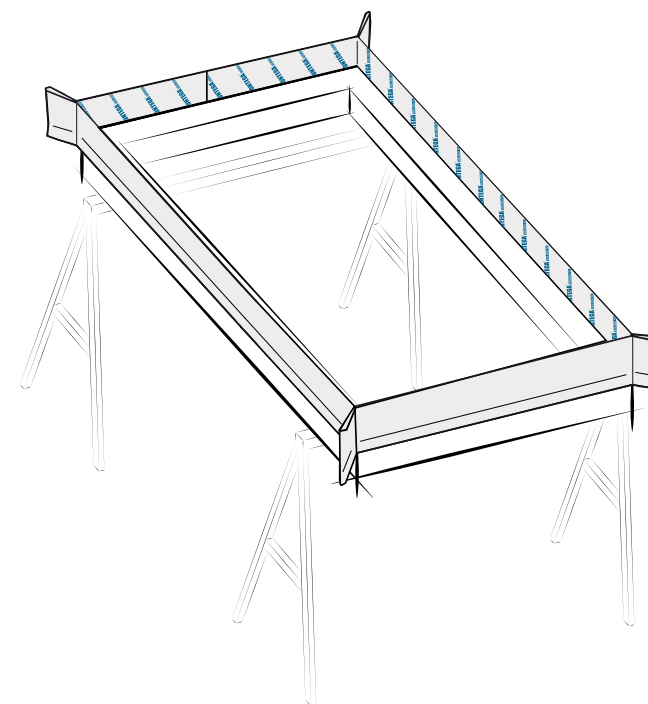


#### 6. Press firmly to secure the adhesive tape



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

#### 7. Window frame on the interior side

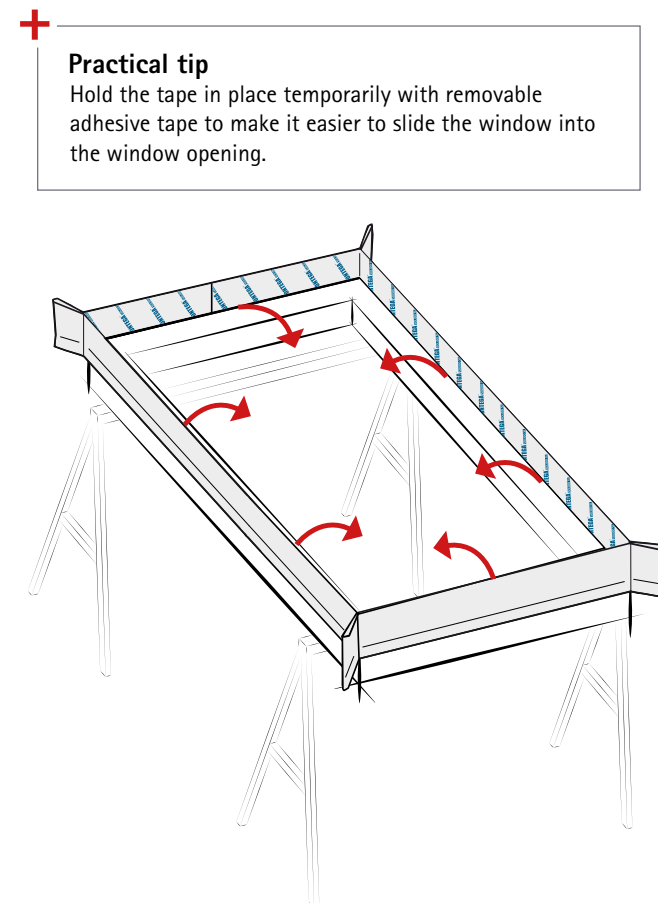


You're finished!

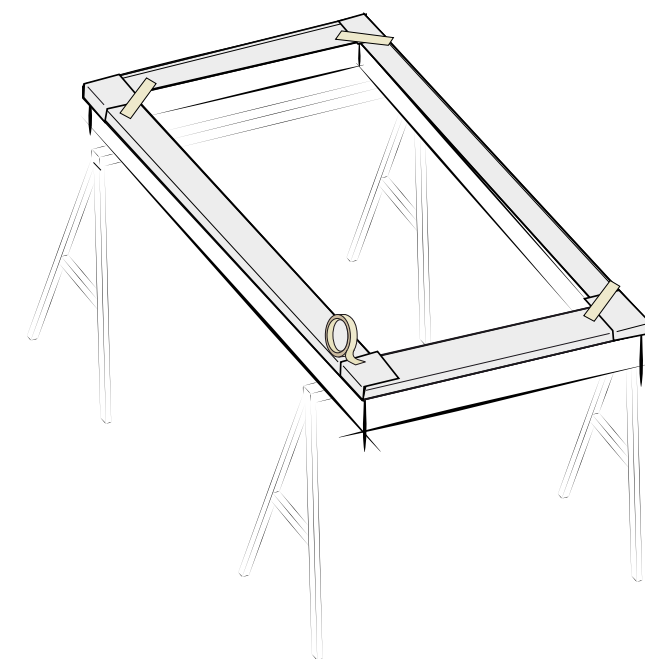
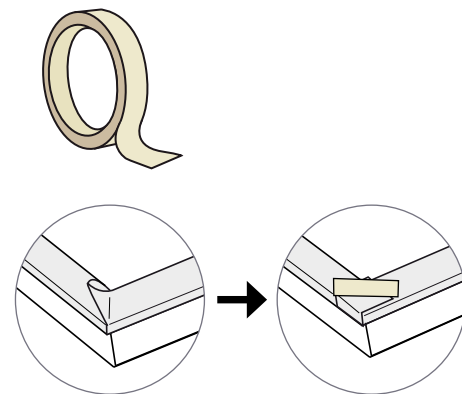


**PRESSFIX**  
Pressing aid for pro clima adhesive tapes



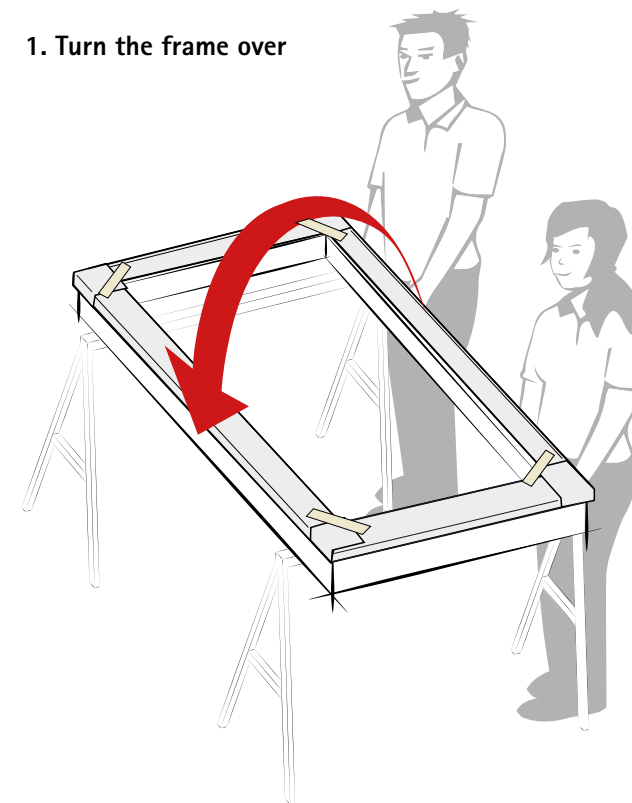


Removable adhesive tape

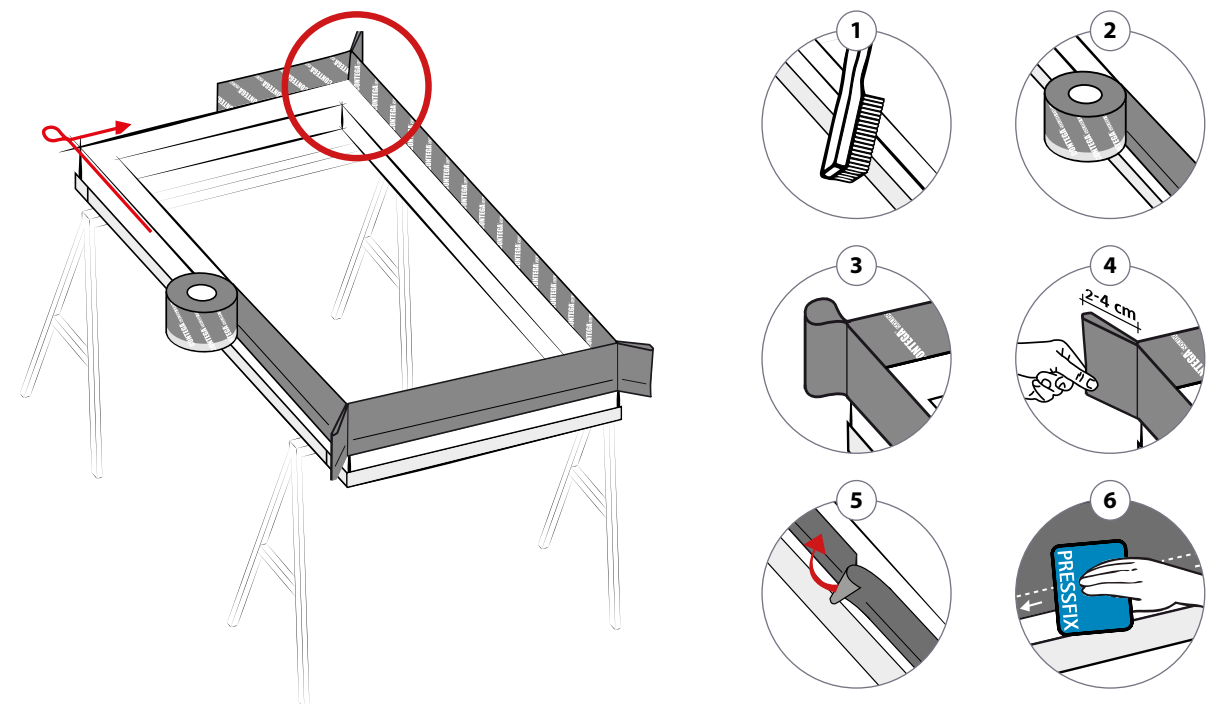


## Preparation for exterior weather protection

### 1. Turn the frame over



### 2. Stick CONTEGA SOLIDO EXO-D onto the exterior side of the frame, starting on the head of the frame



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



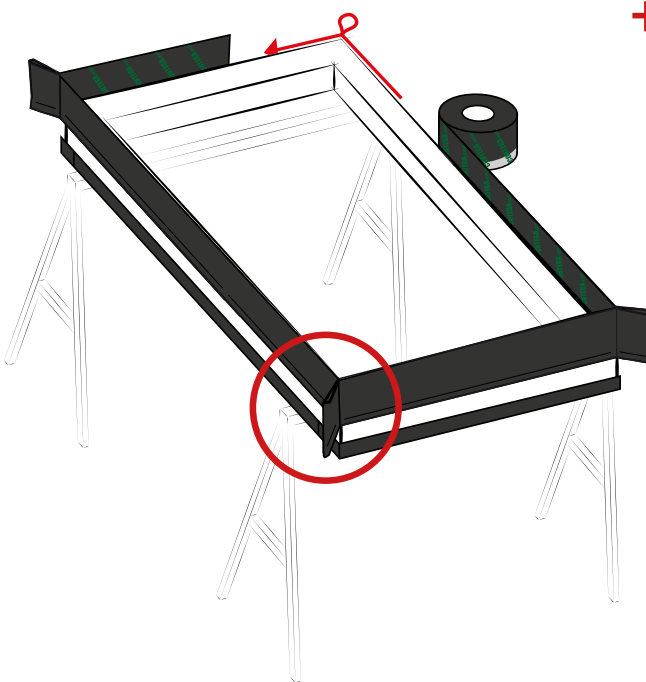
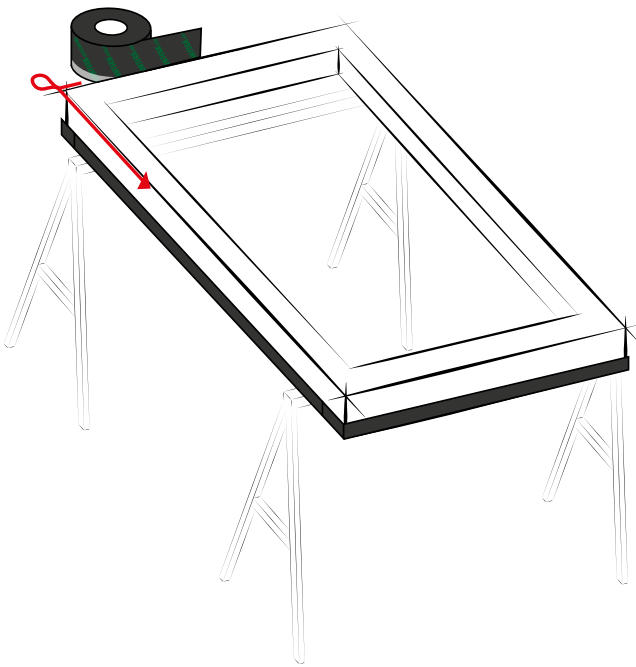
**CONTEGA  
SOLIDO EXO-D**



## Product variant

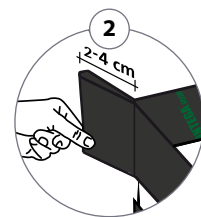
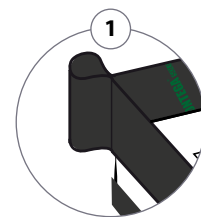
### with CONTEGA SOLIDO IQ-D

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!



#### Note

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 or windtight manner. The corner slack should be approx 2-4 cm (7/8"-1 5/8"), i.e. approx. 1.5 times the joint width.



CONTEGA SOLIDO IQ-D

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

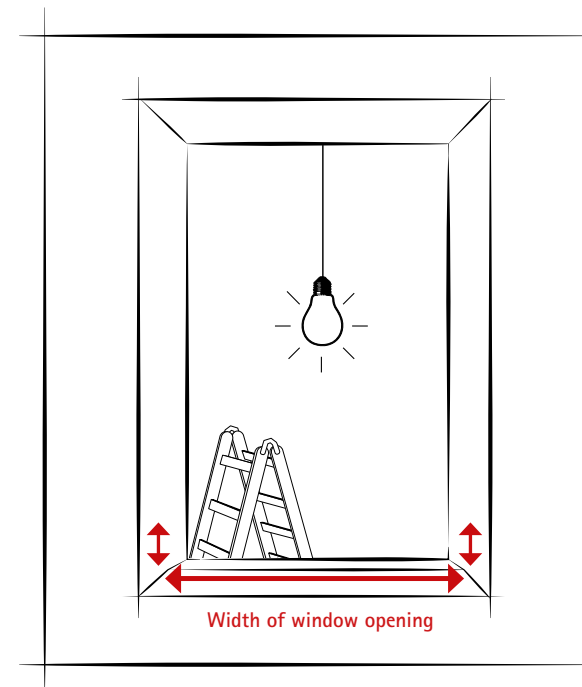
Just one tape for interior and exterior use: Humidity-variable  $s_d$  value for dry window joints. One tape for inside and outside means easier stock management too!



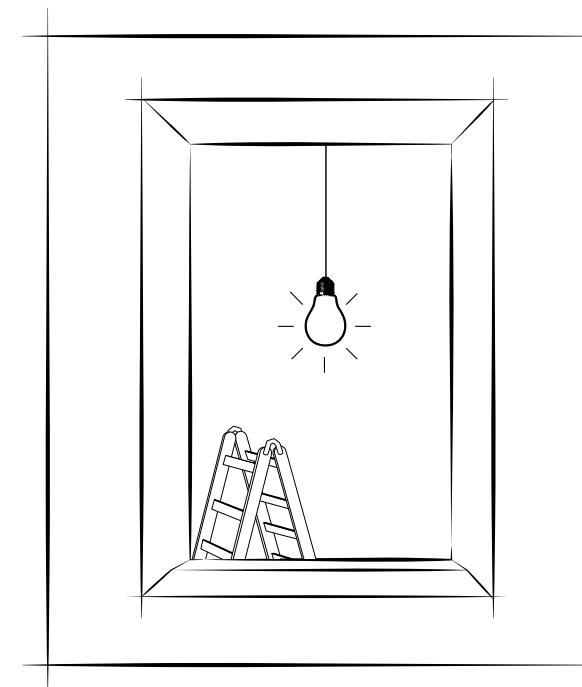
CONTEGA SOLIDO IQ-D

## Installation of sub-sill flashing

### 1. Cut EXTONSEAL ENCORS to size, allowing for excess



- 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 (take capillary suction into account for approx. 10 cm [4"])



#### Practical tip: Install an insulation wedge

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



EXTONSEAL ENCORS

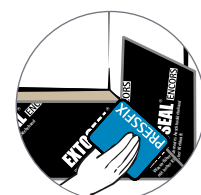
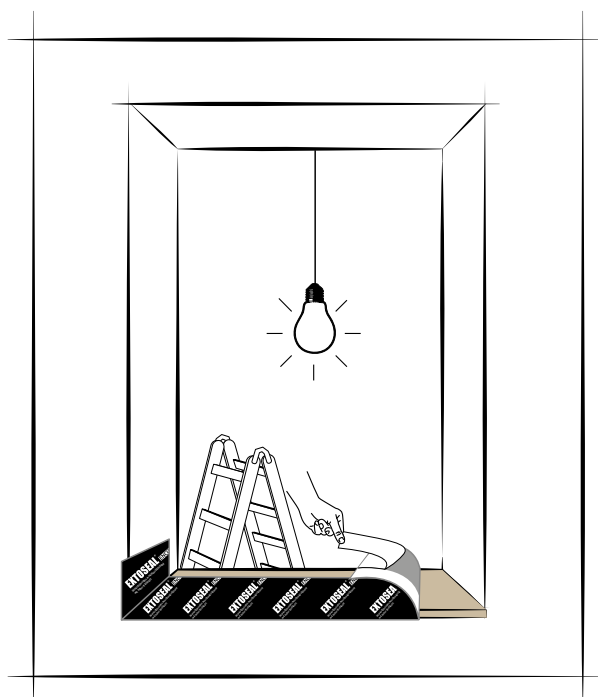
Waterproof sealing tape, for interior and exterior use



EXTONSEAL ENCORS



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



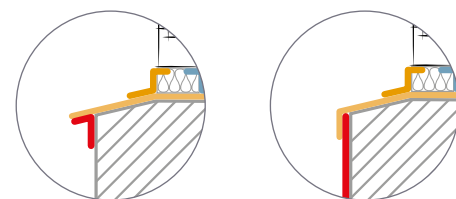
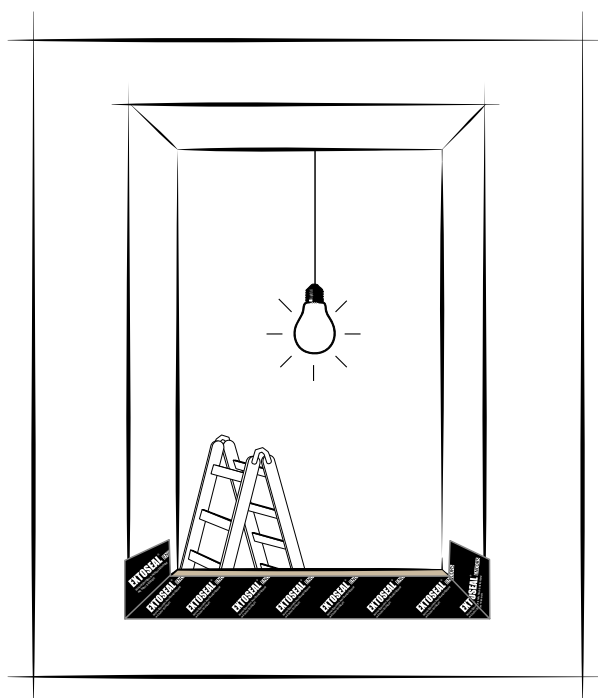
Stick to the reveal sides



### Note

Guide the EXTONSEAL ENCORS tape right into the corners and rub firmly into place. Select the width of EXTONSEAL 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



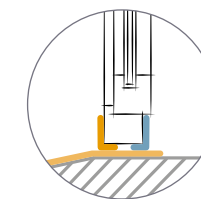
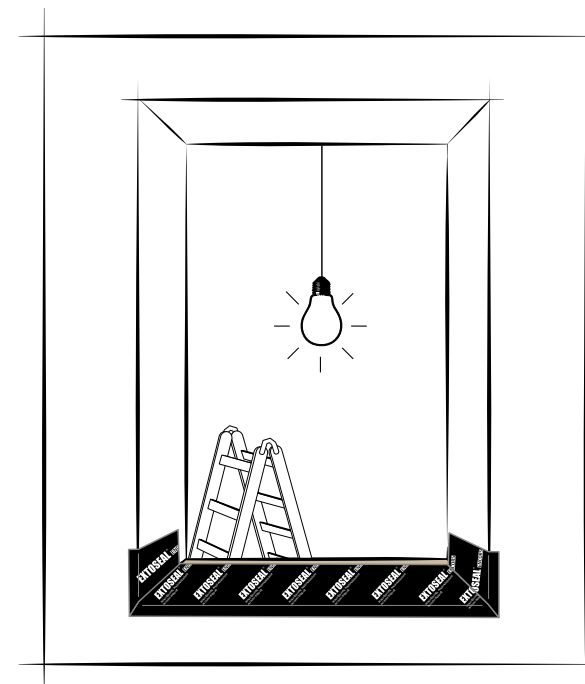
Depending on the type of facade used, EXTONSEAL ENCORS is continued onto a drip profile or a facade membrane.



### Practical tip

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

## 4. Stick EXTONSEAL ENCORS in place



You're finished!

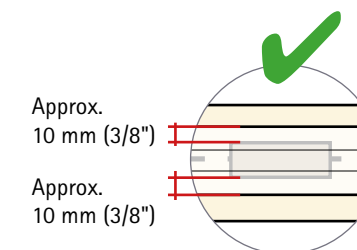
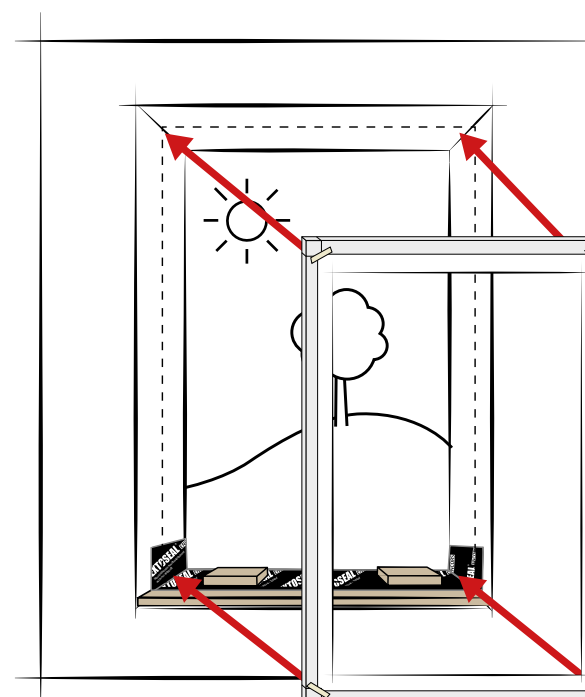


### Note

Guide the EXTONSEAL ENCORS tape right into the corners and rub firmly into place. EXTONSEAL ENCORS cannot be plastered over: fit a reveal plate before plastering, or else tape over with TESCON VANA and add suitable reinforcement to the plaster. In this example, EXTONSEAL 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.

## Install the window

### 1. Install the window professionally



Approx.  
10 mm (3/8")

Approx.  
10 mm (3/8")

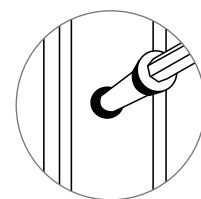
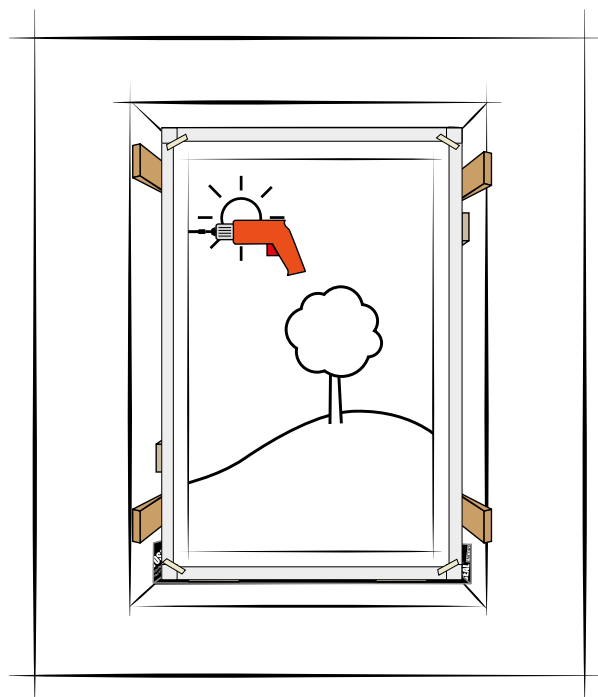


### Note

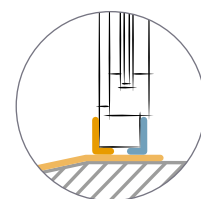
Use setting blocks made of hardwood or plastic (they must be pressure-resistant and keep their shape). They must not protrude beyond the frame.



## 2. Install the window professionally



Fasten the window using a suitable fastening system

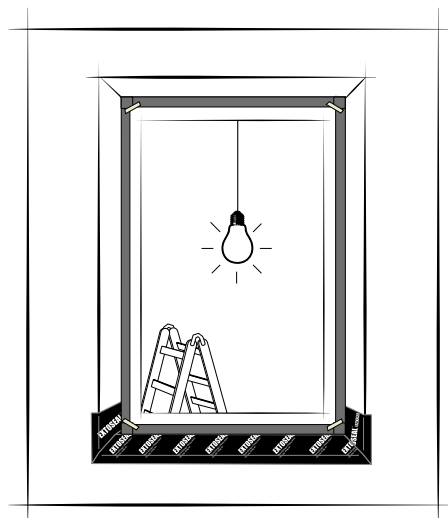
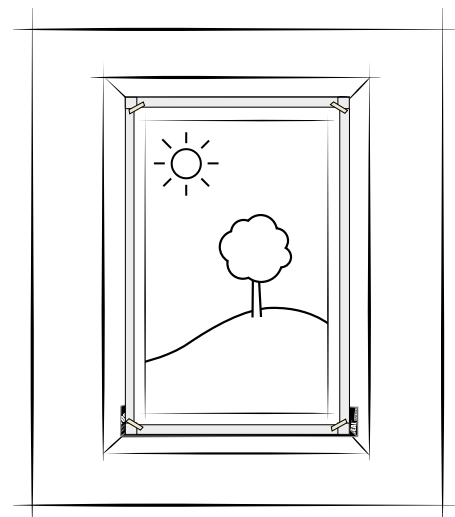


You're finished!



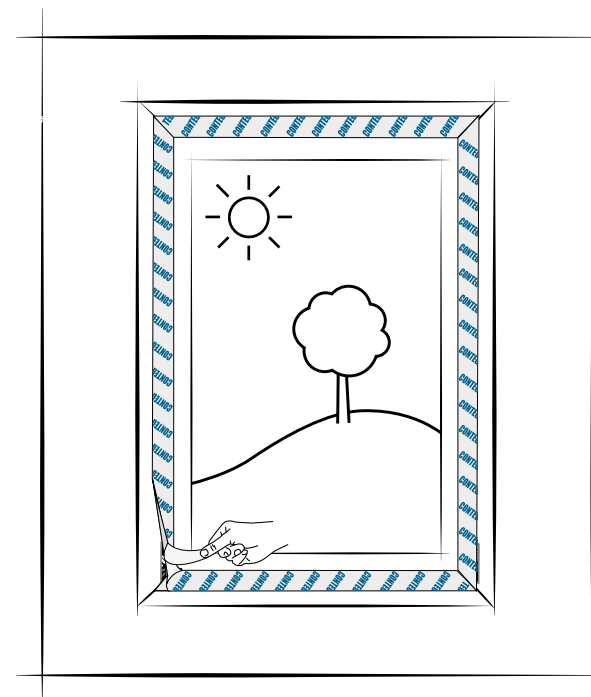
### Practical tip

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.

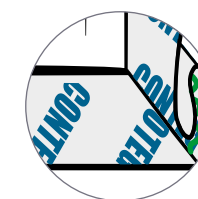


## Installing the interior airtightness sealing

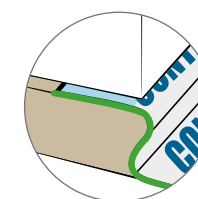
### 1. Stick the tape all around the reveal



Rub in place using the PRESSFIX tool



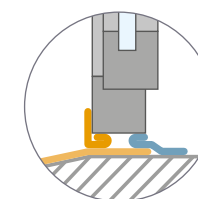
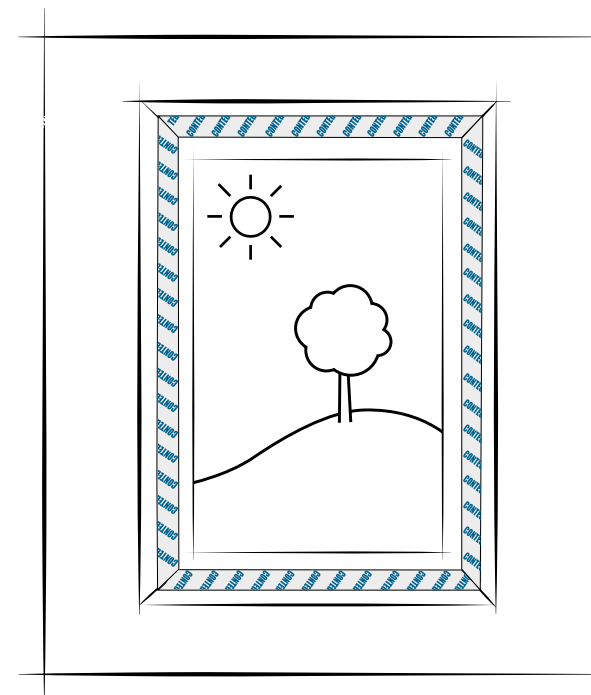
Use ORCON F adhesive at the corners if necessary



### Note

Apply the tape with slack to allow for movement.

### 3. Interior airtightness: finished

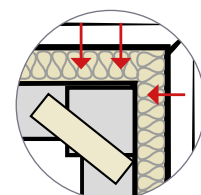
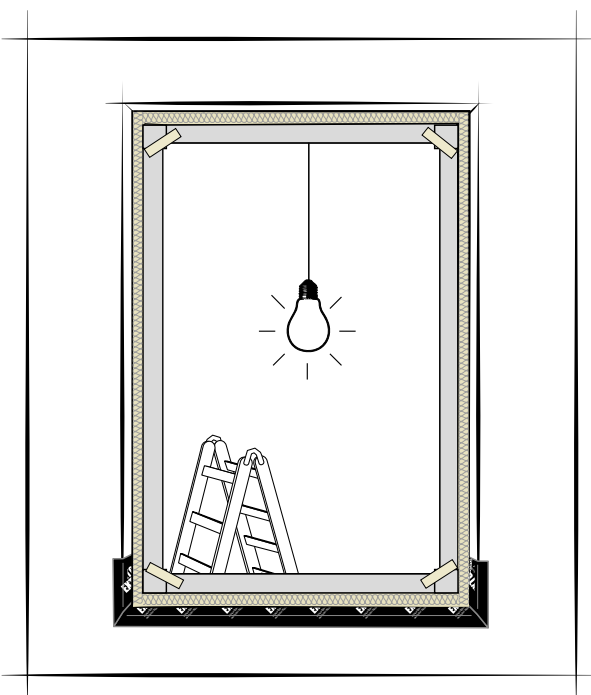


You're finished!

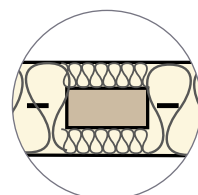


## Insulating the joint

### 1. Fill the joint with insulation material



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



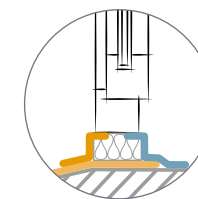
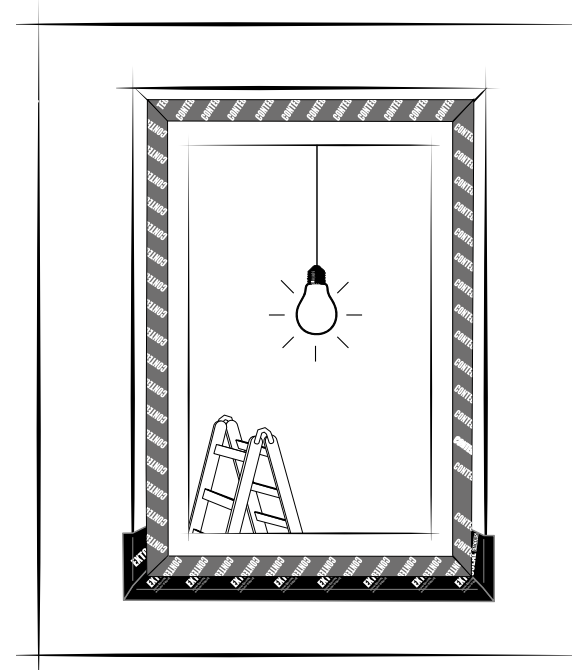
Insulate over setting blocks



#### 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.

### 2. Exterior weather protection: finished



You're finished!

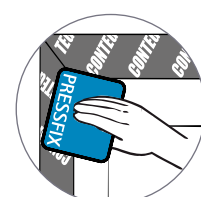
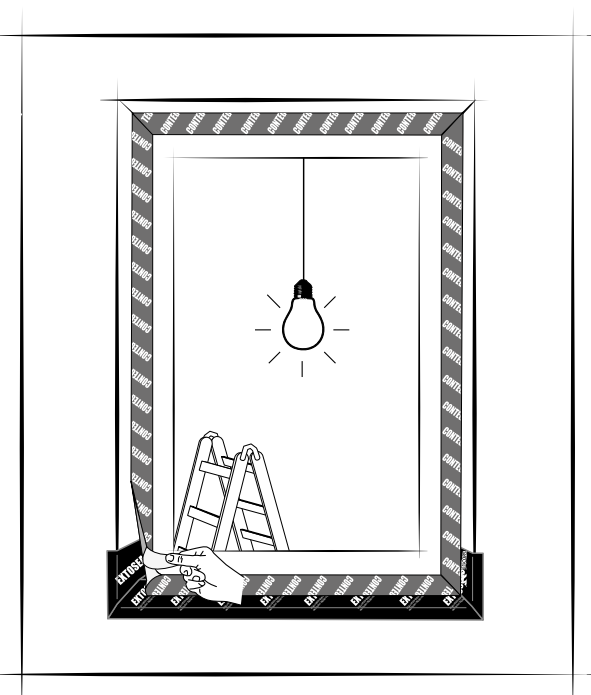


#### Note

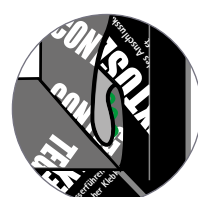
Install endpieces of window sills in such a way that they can be finished to be flush with the outer plaster layer. This prevents standing water from collecting on the top surface. Seal off any fasteners.

## Installing exterior weather protection

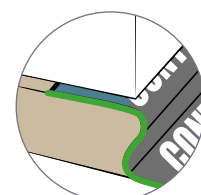
### 1. Stick the tape all around the reveal



Rub in place using the PRESSFIX tool



Use ORCON F adhesive at the corners if necessary



Apply the tape with slack to allow for movement



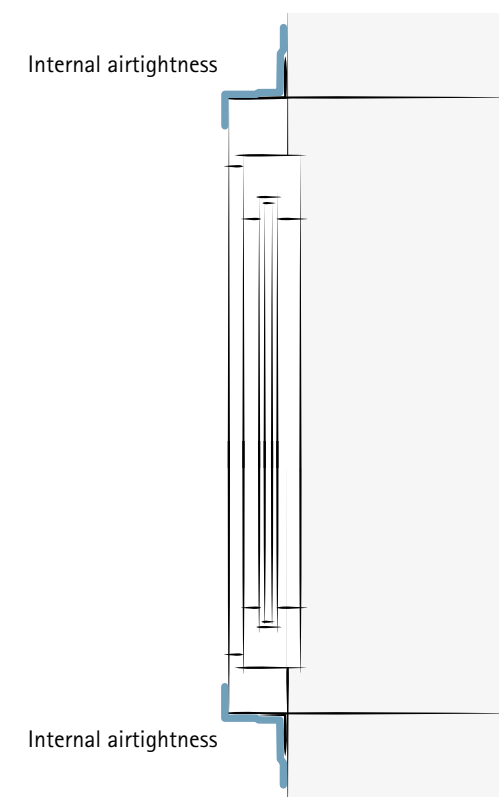
#### Note

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.

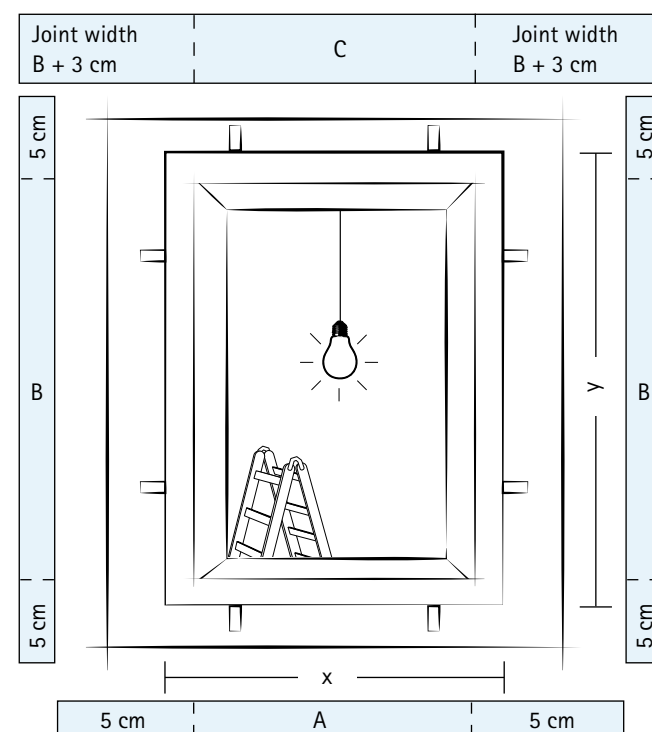
Remove the release film

## Installation in front of the wall

### Installation steps: Externally mounted windows



### 1. Cut the tape to size

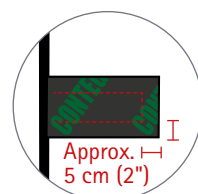
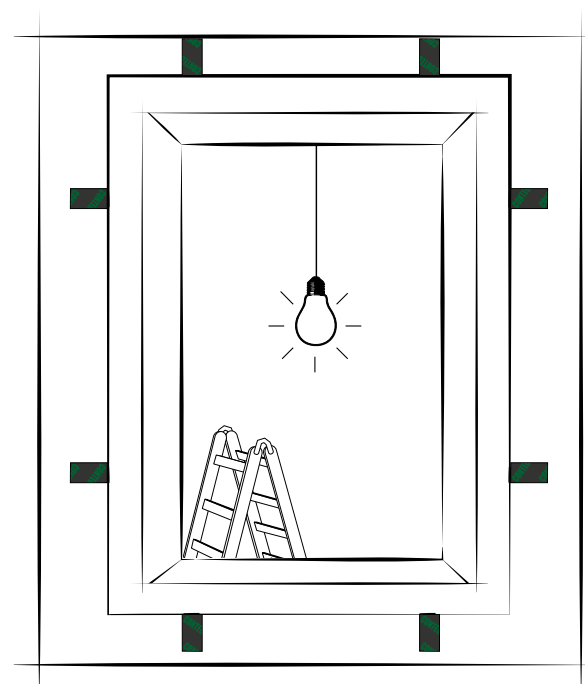


#### Note

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

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,  $2 \times 5 \text{ cm (2")}$  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 joints 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.

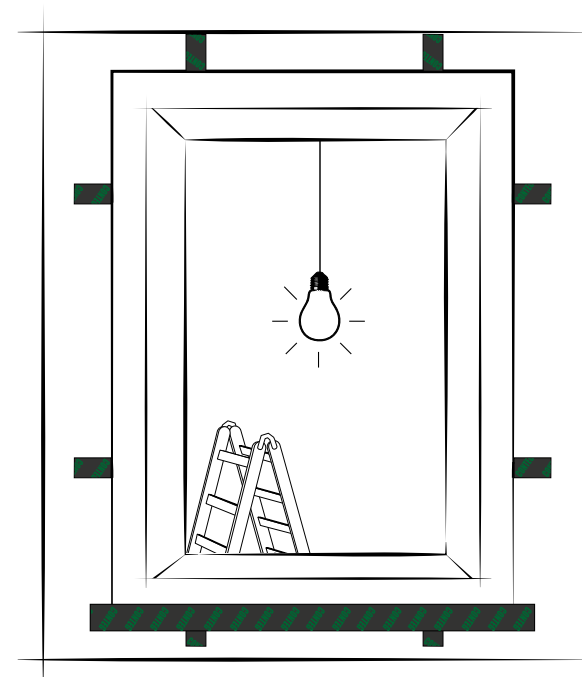
### 2. Tape over brackets



#### Note

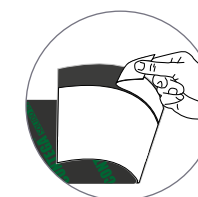
Brackets should be taped in such a way that a minimum width of approx. 5 cm (2") is achieved for adhesion to the subsurface.

### 3. Stick to the window

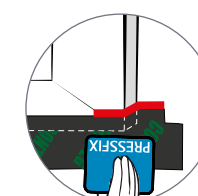
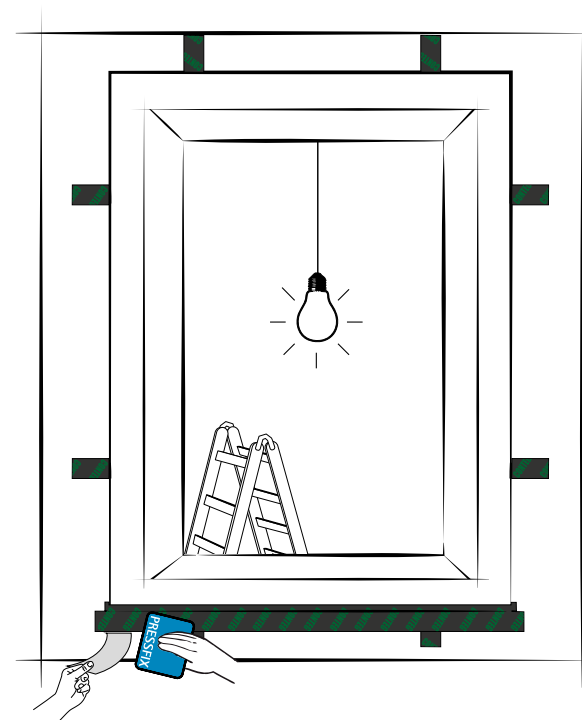


#### Note

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

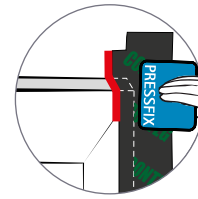
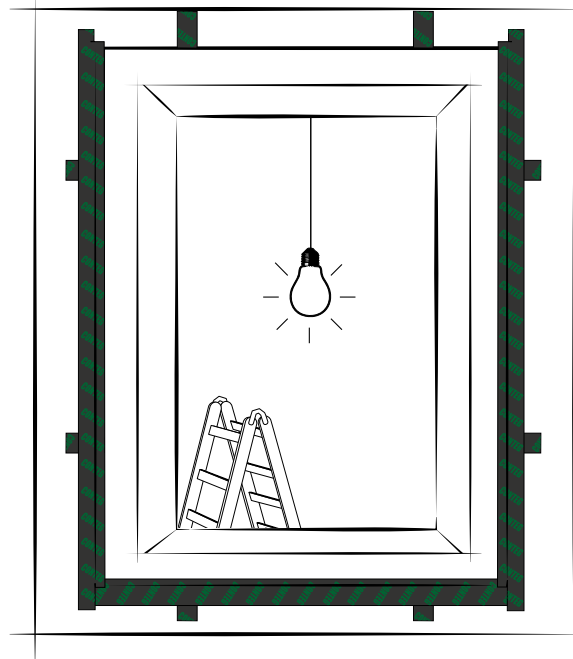


#### Note

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. Creating the bond

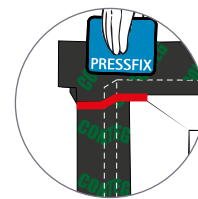
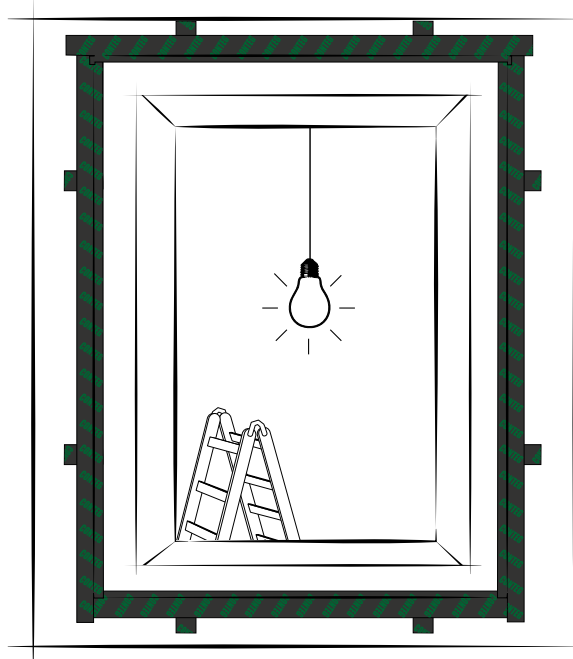


Install corner taping  
on the sides

**Note**

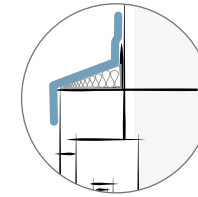
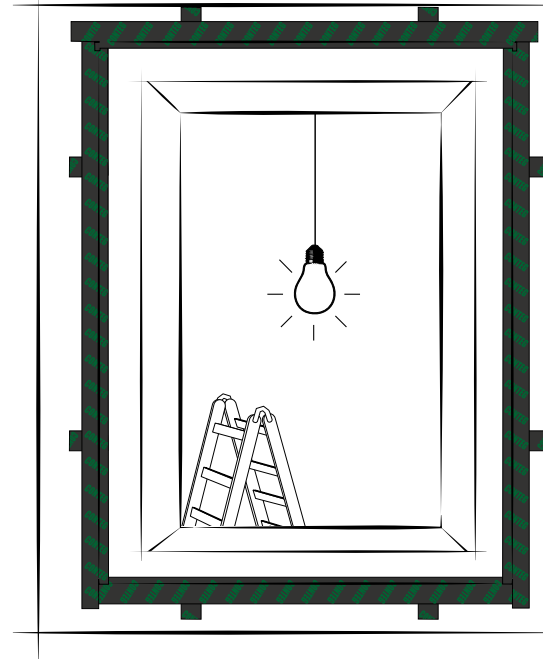
Apply CONTEGA SOLIDO IQ around the corners of the window frame, ensuring there is no tension. Ensure that there are no folds in the outer area of the tape. After sticking, rub the tape firmly into place using the PRESSFIX application tool.

## 6. Create the upper joint



Install corner taping  
at the top

## 7. Installation in front of the wall: finished

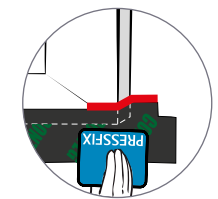
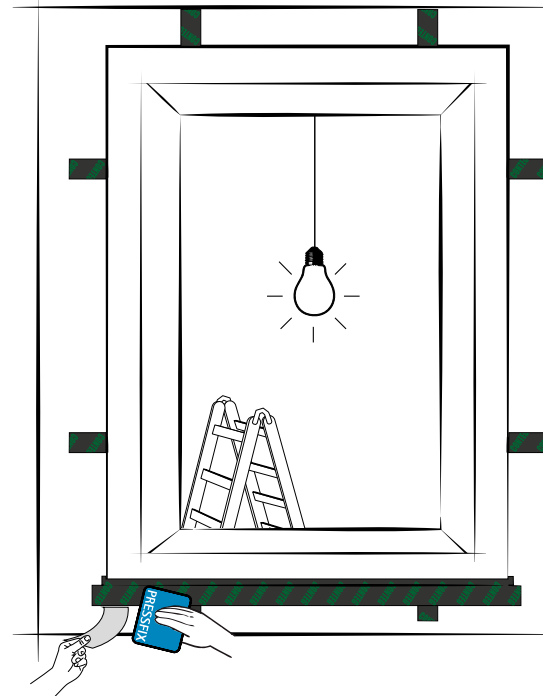


You're finished!

**Note**

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.

## 4. Stick to the wall



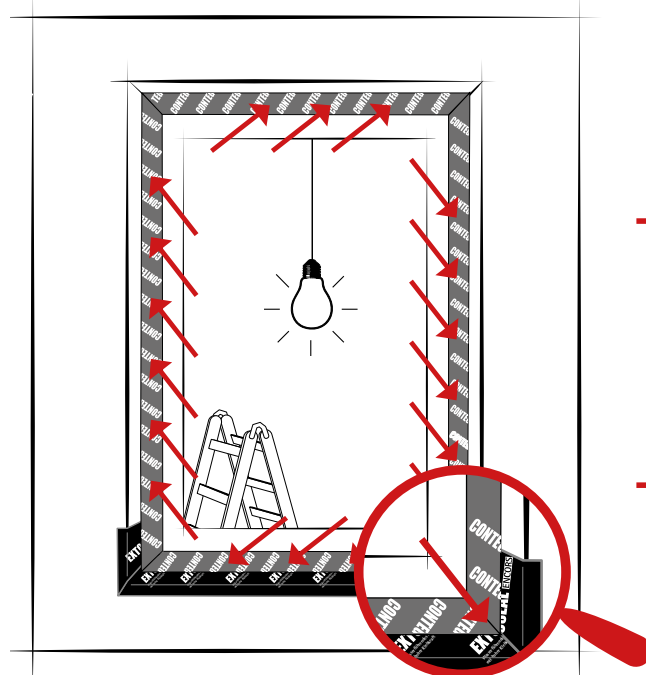
Tape application at  
the corners

**Note**

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.

## Quality assurance, acceptance and documentation

### 1. Visual inspection on the inside and outside



#### Note

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



#### 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 Blower Door



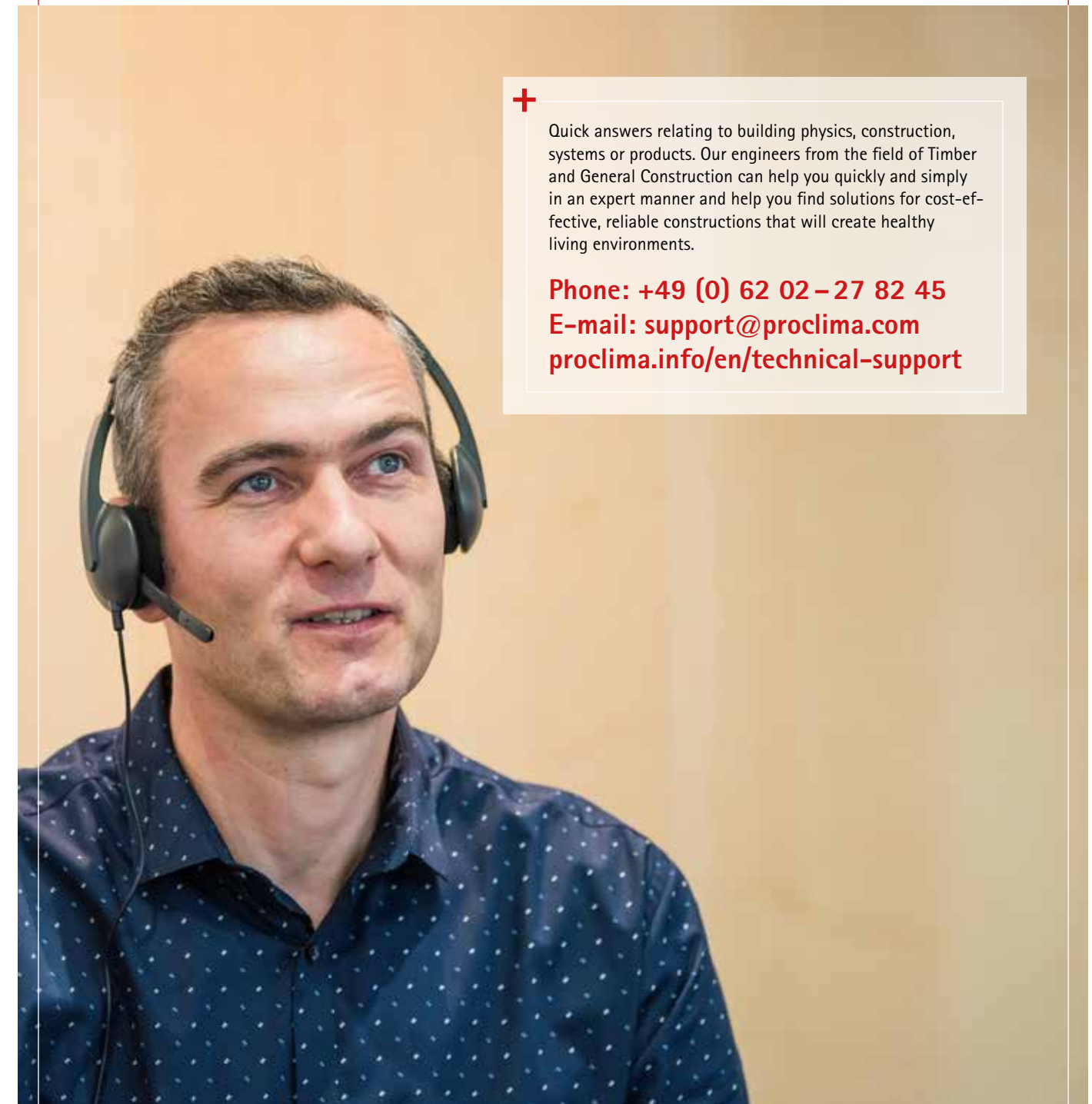
#### BlowerDoor

The BlowerDoor procedure is a testing method that creates a differential pressure in the building. This differential pressure allows defects in joints to be identified and 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!



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## Detailed CAD drawings

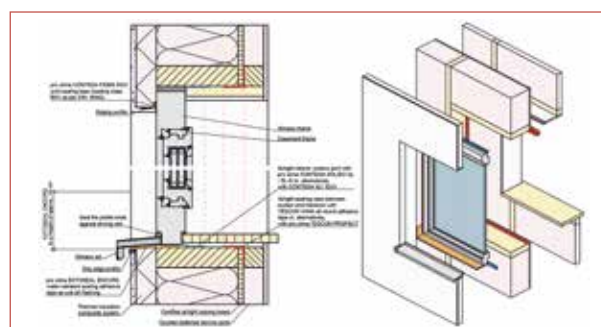


All drawings are available for download at:  
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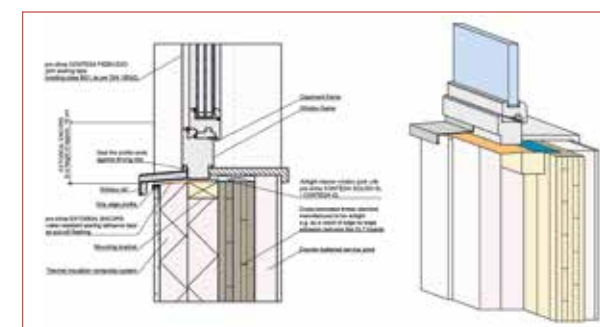


The pro clima database of CAD detail features provides you with a range of suggested solutions for planning and implementing your construction projects. Drawings showing how to achieve airtightness and windtightness at detail features are available to be downloaded for free in the form of DWG files, DXF files or PDF files. The drawings are grouped by construction type (timber frame and solid timber construction) and by the type of details – for example: base joints, component transitions, pitched roofs, flat roofs, windows and penetrations. A number of variants are available for many of the construction situations.

### Timber Frame Construction detail features



### Solid Timber Construction detail features



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