

45

YEARS PRODUCTION

10 YEARS IN
THE UK



AS VARIED AS YOUR WINDOW CONNECTIONS:
ISO³-WINDOW SEALING SYSTEM

ISO
CHEMIE



MEET THE INCREASINGLY DEMANDING REQUIREMENTS OF MODERN WINDOW SEALING!

The versatility and individuality in the planning and construction of buildings are determined not only by the architecture of course, but also by the technical details. Even if buildings always appear to be made up of outer walls, windows, doors and a roof, there are major differences. These can be found in the wall structure, the energy-related performance, sealing requirements, insulation etc. and are thus hidden to a major extent.

The energy rating requirements for buildings are increasing all the time. These days, the standard for modern buildings according to the specifications of the new Building Energy Act (GEG) is already at a low-energy, with Passivhaus becoming more and more popular, too. Their outstanding features are the extremely high thermal insulation of the exterior components and the special airtightness of the building shell. For us to be able to sit in a cosy living room without a bad conscience in the future, means the desire to deal sparingly and efficiently with energy resources will guide technical planning and implementation.

In Northern Europe the cavity wall method is preferred to solid walls. External clay brick facades dominate in these areas. This means that in terms of construction the technical implementation of sealing these walls is very different than in the South.

Timber-based constructions, whether these are solid log cabins, modern or traditional timber frame etc., are all further popular variants. Just like pre-fabricated houses, their structure cannot be seen from the outside. Nevertheless, the characteristics of timber, including initial drying as well as movement during the different seasons, must be taken into account in the plans for the sealing concept.

Our sealing systems are as varied as the technical requirements. Every building type has different connection geometries. Windows are installed both in the wall recess as well as in front of it or in the cavity between walls. However the regulations requirements are the same for all connection situations.

This brochure illustrates just a few of the numerous possibilities. The requirements and the variety will continue to grow. We will grow with them.

WINDOW CONNECTIONS ARE VARIED – SO ARE OUR SEALING SOLUTIONS!

THE ISO³-WINDOW SEALING SYSTEM – AIRTIGHTNESS, INSULATION AND WEATHER PROTECTION ALL FROM A SINGLE SOURCE

Our ISO³-WINDOW SEALING SYSTEM provides the suitable sealing solution for many connection situations. Our quality-tested system products meet the stringent requirements of the Building Energy Act (GEG) and the recommendations of the RAL-Gütegemeinschaft Fenster, Fassaden und Haustüren e.V. (RAL Quality association for windows, facades and doors) in the "installation guide".. Our products can be processed easily, quickly and safely, saving not only energy but valuable working time as well. All the products have been coordinated perfectly in terms of function and application and can be used in any combination.

The system includes a range of window connection films for time-saving and air tight sealing, as well as permanently elastic, impregnated PUR sealing tapes which serve as weather protection as well as being used for thermal and acoustic insulation. In addition, we can also supply you with multi-functional joint sealing tapes which combine all three functions in one product. With the IN FRONT OF WALL INSTALLATION SYSTEM ISO-TOP WINFRAMER as a basis, professional 3-level-sealing of window connections can be implemented easily and reliably.



- ISO-BLOCO 600 "PREMIUM EDITION"
- ISO-BLOCO 600 "COLOUR EDITION"
- ISO-BLOCO 300 "PREMIUM EDITION"
- ISO-BLOCO FILLER
- ISO-BLOCO HF
- ISO-BLOCO HYBRATEC
- ISO-BLOCO MULTI-FUNCTIONAL TAPE
- ISO-BLOCO ONE
- ISO-BLOCO ONE CONTROL
- ISO-BLOCO RENO
- ISO-BLOCO T-MAX
- ISO-CONNECT WIN2WALL
- ISO-CONNECT EPDM SEALING COLLAR & CORNER
- "BLUE LINE"



EFFICIENT 3-LEVEL SEALING IN ACCORDANCE WITH RAL "INSTALLATION GUIDE" WITH THE ISO³-WINDOW SEALING SYSTEM

LEVEL 1 SEPARATION OF INTERNAL AND EXTERNAL CLIMATE

The penetration of humid room air into the structure is prevented by this layer, thus preventing condensation of this humidity at points where surface temperatures are below the dew point. Air tight sealing products are fitted to prevent uncontrolled heat loss and drafts via the connection joint.

LEVEL 2 FUNCTIONAL AREA

Thermal and acoustic protection are guaranteed by this layer. The functional area must remain dry and must not be subject to condensation from the room side nor driving rain from the outside. 5% humidity can reduce insulation by up to 50%. Our product solutions do not permit this to happen.

LEVEL 3 SECURE WEATHER PROTECTION

Level 3 must be designed to resist driving rain, as a wind and rain barrier. Driving rain values of at least 600 Pa are usually required; these are achieved or even significantly exceeded using sealing solutions from the ISO³-WINDOW SEALING SYSTEM.

WELL EQUIPPED FOR THE FUTURE WITH ISO-CHEMIE PRODUCTS!

ISO-Chemie provides planners and designers with energy-efficient and sustainable product solutions that meet the requirements of the Building Energy Act (GEG).

ISO-CONNECT INSIDE EPDM

ISO-CONNECT INSIDE FD

ISO-CONNECT KSKSEAL
"BLUE LINE"

ISO-CONNECT OUTSIDE

ISO-CONNECT OUTSIDE EPDM

ISO-CONNECT VARIO SD

ISO-CONNECT VARIO XD

ISO-TOP BLUE PRIMER

ISO-TOP FLEX-ADHESIVE
PA, SP, SP+, WF, XP

ISO-TOP CONSTRUCTION
SHEETS WF3

ISO-TOP KSKSEAL PRIMER

ISO-TOP SPRAY PRIMER

ISO-TOP WF PRIMER

ISO-TOP WINFRAMER
"TYPE 1" & "TYPE 1" E30

ISO-ZELL PE-CORD AND
PUR-CORD





VALUABLE SUPPORT IN CHOOSING YOUR PRODUCT!

Find out all you need to know about sealing requirements for different types of buildings and read about which product solutions are the right ones to meet these requirements.

This brochure has been designed to help you choose the suitable sealing products and for advisory purposes. We hope it will be useful to you as a guide, adviser and reference document for a long time to come.



SINGLE- AND MULTIPLE-FAMILY DWELLINGS **MAKING CONSISTENT USE OF MAJOR POTENTIAL SAVINGS!**

In contrast to passive houses, conventional single- and multiple-family dwellings have to generate most of their heat using a typical building heating system. To stop costs for the generation of energy going sky high, the importance of permanently air tight joints should not be underestimated, because apart from the use of effective thermal insulation for the outer shell, consistent joint sealing will result in the greatest savings.

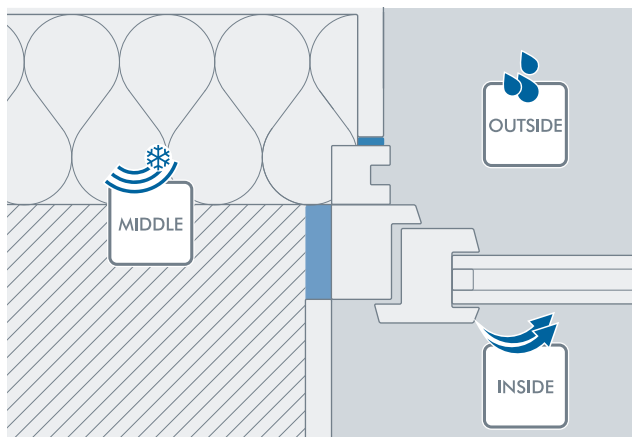
Alongside single-leaf (monolithic) wall structures, designs incorporating an external thermal insulation composite system (EWIS) are being increasingly used. The window installation level is directly at the transition point between the load-bearing wall and the EWIS. Special attention must be paid to the required airtightness with an α -value $\leq 0.1 \text{ m}^3 / (\text{h} \cdot \text{m} \cdot [\text{daPa}]^n)$. The outer connection to the EWIS which must be resistant to driving rain can be realised reliably using joint sealing tapes or membrane foils.

Thanks to the components of our ISO³-WINDOW SEALING SYSTEM you can meet the strict requirements of the GEG in single- and multiple-family dwellings completely and efficiently.



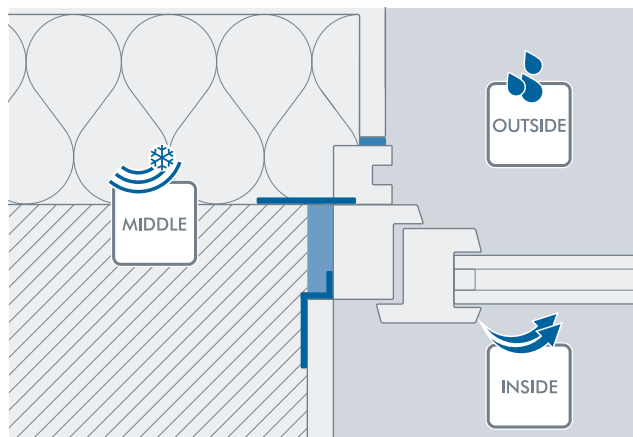
OUR SYSTEM COMPONENTS FOR SINGLE- AND MULTIPLE-FAMILY DWELLINGS

ISO-BLOCO HYBRATEC

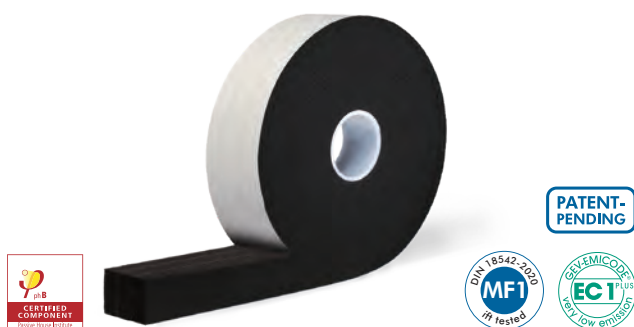


ISO-BLOCO HYBRATEC is a multi-functional tape equipped with several air tight barrier layers. It combines the quality features of premium foils (excellent air and driving rain tightness) with the reliable flexibility and ability to absorb movement with the benefits of MF1 tested and certified multi-functional joint sealing tapes. With just one product, all three sealing levels are sealed simultaneously, complying with the principal of "inside tighter than outside". Additional sealing with further materials is not necessary. ISO-BLOCO HYBRATEC has been tested and certified by ift Rosenheim on the environmental effects of sun and rain as well as sustainability, as an air tight inner seal.

ISO-CONNECT INSIDE BLUE LINE ISO-CONNECT OUTSIDE BLUE LINE



The basic component of the bio-based window connection films ISO-CONNECT INSIDE & OUTSIDE „BLUE LINE“ is gained from renewable raw materials. The polymers used for production are based on sugar-containing plants such as sugar beet and corn. The sustainably produced waterproofing products have the same technical properties as films based on purely synthetic raw materials. With an a-value of 0.00, they have excellent airtightness values and also provide extremely good weather protection with a driving rain resistance of over 1,050 Pa.



QUALITY CHARACTERISTICS

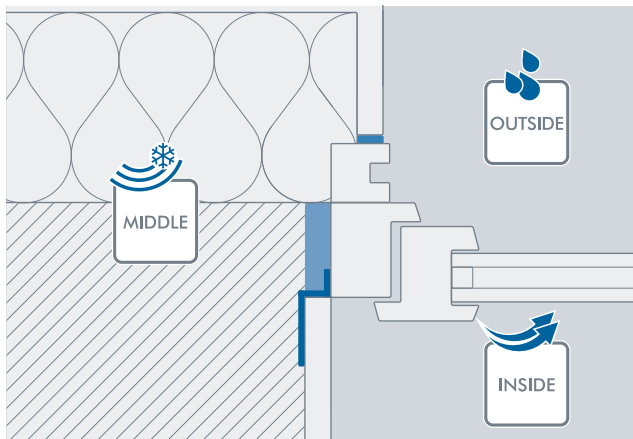
- hybrid technology thanks to film barrier layers
- sealing of a wide range of different joints with one tape dimension 6 – 40 mm
- absolutely air tight thanks to several barrier layers of film
- resistant to driven rain in excess of 1,050 Pa
- optimum transportation of humidity
- high functional reliability due to large expansion ability
- certified Passive House component



QUALITY CHARACTERISTICS

- bio-based and sustainably produced
- healthy with very low emissions
- driving rain resistant up to over 1,050 Pa, high airtightness, low energy loss
- high elasticity and flexibility compensates movement between joints

ISO-CONNECT INSIDE FD



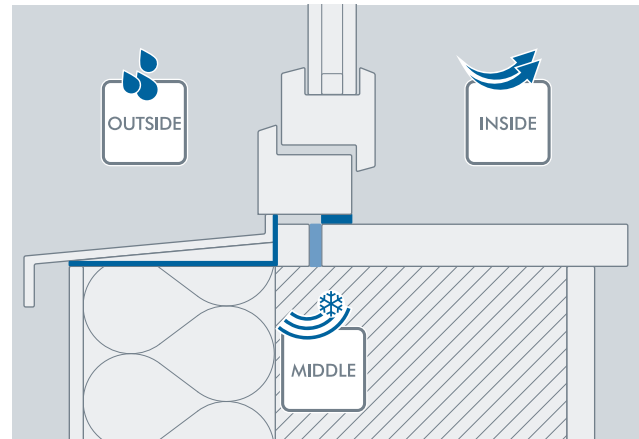
Modern buildings are built with excellent thermal insulation and extremely air tight. Thanks to the use of ISO-CONNECT INSIDE FD an air tight connection joint is achieved between the wall and window element. With an airtightness value of $0.00 \text{ m}^3 / (\text{h} \cdot \text{m} \cdot [\text{daPa}]^n)$ no warm air can escape through joints in the building to the outside. This saves energy and thus heating costs. As well as being absolutely air tight, the foil has an sd-value of 39 m and is thus sufficiently diffusion-tight to prevent humidity entering the thermal insulation. The elasticity of the special foil also ensures a long-term sealing performance.



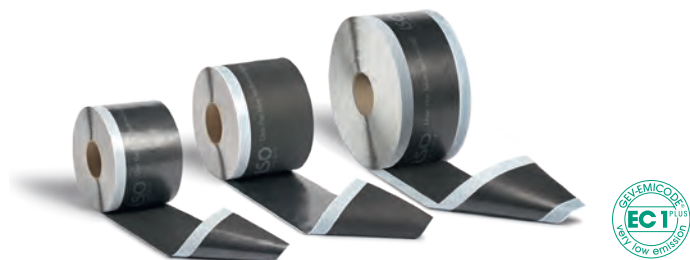
QUALITY CHARACTERISTICS

- high stretchability and flexible adaptation compensates joint movements
- low inherent rigidity combined with high tensile strength for simple and precise application
- driving rain and water resistant
- air tight, wind proof, vapour diffusion impermeable
- special fleece surface which is good for plastering, painting or gluing over

ISO-CONNECT VARIO XD



The window cill connection on the outside is moving more and more into focus in terms of joint sealing, because this is exactly the spot where leaks and structural damage occur. From the 1st floor onwards in particular, the wind pressure is so strong that rain can be forced along the facade upwards under the window cill. In addition, a great deal of condensation can occur in these spots under aluminium window cills and damage the structural joint over the years. For these reasons, the "installation guide" published by the RAL-Gütegemeinschaft Fenster und Haustüren e.V. (RAL Quality association for windows and doors) prescribes the fitting of trough-shaped sealing foil at these points. ISO-CONNECT VARIO XD can be used to form this tub-shaped seal under the outer window cill quickly; the seal will work for years.



QUALITY CHARACTERISTICS

- only one product for inner and outer sealing
- high drying effect in the joint thanks to humidity-regulating functional mechanism (variable sd-value)
- resistant to driving rain up to more than 1,050 Pa
- up to 1 year UV-stability in any weather conditions
- special fleece surface, easy to plaster and glue over
- with self-adhesive strips for efficient application



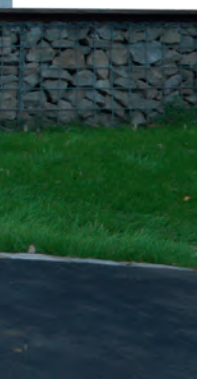
PASSIVE HOUSES

MAXIMUM SEALING EFFICIENCY IN PASSIVE HOUSES!

Highly efficient thermal insulation coupled with optimised thermal bridge details and ventilation systems to recuperate heating energy are all decisive factors in passive houses. The efficient handling of energy sources and resources takes top priority. The better the building shell components are matched to one another, the more easily the energy saving targets can be reached.

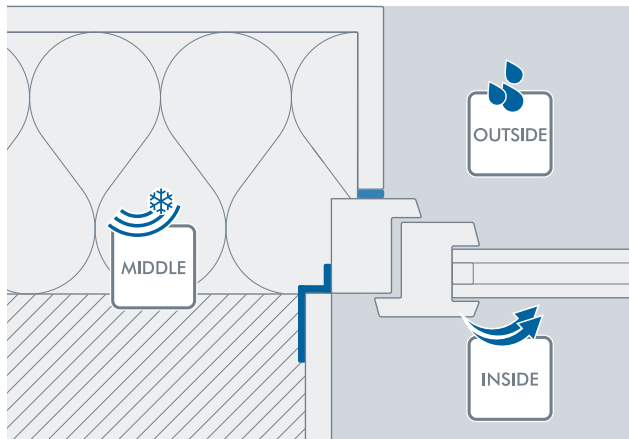
Alongside their highly thermally insulating components, passive houses also have an extremely air tight building shell. The airtightness of the building shell must be almost 3 times the value of buildings built in accordance with the specifications of GEG. The limit of the air change rate n_{50} figure established using the blower door test method is a maximum of 0.6 air changes per hour. These are determined using a differential pressure of 50Pa between the inside and the outside.

The prescribed airtightness is only achieved through the interplay between all the components installed in the building shell, such as windows, doors and a functioning joint seal. The required effectiveness is thus achieved with a maximum energy output of only 15kWh of heating energy per m² floor space per year.



OUR SYSTEM COMPONENTS FOR PASSIVE HOUSES

ISO-CONNECT VARIO SD FINISH FIX



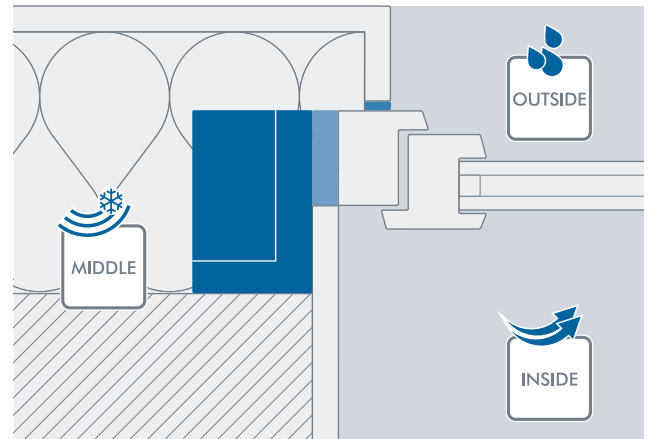
Installation of windows and doors in the thermal insulation composite system (EWIS) makes the use of modern air tight membrane foils like ISO-CONNECT VARIO SD finish FIX necessary. The variable sd-value of ISO-CONNECT VARIO SD finish FIX always promotes joints drying, depending on seasonal conditions. The sd-value is between 0.03 m (diffusion-permeable) and 15 m (diffusion-impermeable). Thus use of the foil on both sides complies with the “inside tighter than outside” requirement of the RAL “installation guide”. ISO-CONNECT VARIO SD finish FIX can be fixed easily and quickly directly to a mineral base thanks to the integrated special adhesive strip. This saves time and money, since no separate system adhesives are required.



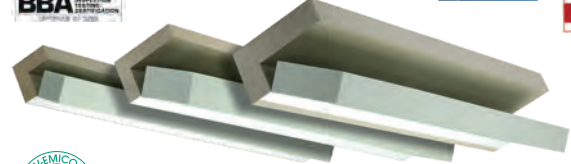
QUALITY CHARACTERISTICS

- increase in plaster adhesion thanks to practical plastering mesh fixing, two self-adhesive strips and a superior adhesive surface on the fleece side
- easy installation even on difficult surfaces
- special fleece surface, easy to plaster and glue over
- only one product for inside and outside
- high drying effect of the joint thanks to humidity-regulating functional mechanism

ISO-TOP WINFRAMER „TYPE 1“



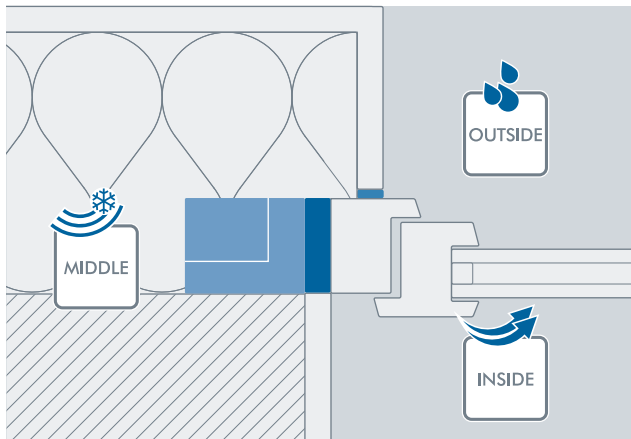
Installing windows and doors in front of the wall in a thermal insulation composite system is very complicated. Metal support brackets or adjustment anchors are generally used. Every single attachment point, usually spaced 40 cm apart, is measured up separately, marked, set and readjusted. The IN FRONT WALL INSTALLATION SYSTEM ISO-TOP WINFRAMER „TYPE 1“ makes installation, mechanical attachment and sealing significantly easier. ISO-TOP WINFRAMER „TYPE 1“ is glued and screwed to the outside masonry all round the window opening. The system brackets from 80 mm to 200 mm projection offer very good thermal insulation and stability. The thermal insulating core is connected via a hinged mechanism and guarantees reliable integration in the EWIS. The installation of the ISO-TOP WINFRAMER „TYPE 1“ permits optimum use of multifunctional joint sealing tapes.



QUALITY CHARACTERISTICS

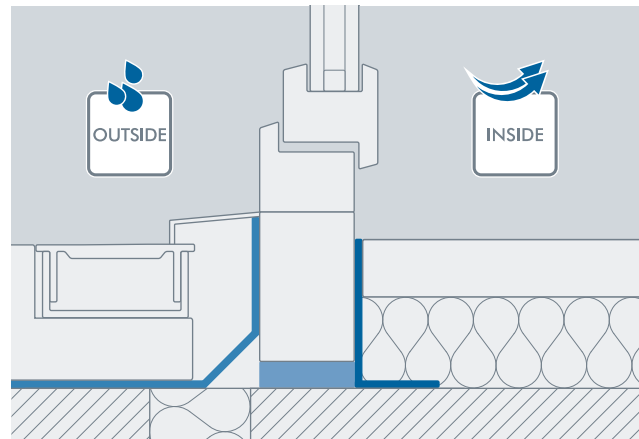
- RC2 and RC3 tested for the installation of burglar resistant windows and doors
- precise system installation into the thermal insulation system / area
- can be combined with the system products of the ISO³-WINDOW SEALING SYSTEM
- reduction of structural thermal bridges thanks to exceptional thermal value of components
- for projections up to 200 mm
- certified Passive House component

ISO-BLOCO ONE



Thanks to the IN FRONT WALL INSTALLATION SYSTEM ISO-TOP WINFRAMER „TYPE 1“, the benefits of ISO-BLOCO ONE can now also be exploited in classic passive house wall structures. The unique product characteristic of absolute airtightness and an α -value of 0.00 even exceeds the airtightness values required in the blower door method. What has previously only been possible with foils can now be implemented using the multi-functional joint sealing tape ISO-BLOCO ONE. The benefits of fast installation take full effect. Thanks to the structurally stable wood profiles of the front of wall installation system, window screws can be used in combination with ISO-BLOCO ONE to secure the long term safe fixing of the windows and doors.

ISO-CONNECT OUTSIDE EPDM

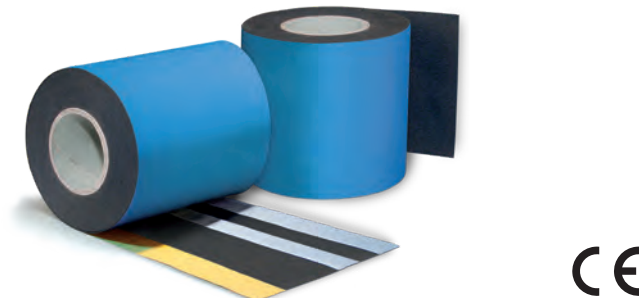


DIN 18531 and DIN 18533 prescribe a seal with EPDM foils at least 1.1mm thick for the bottom, outer patio door connection and floor-level elements. With ISO-CONNECT OUTSIDE EPDM, standard-conform seals against non-pressurised water can be executed. The seal must run at least 150 mm above the water-bearing level and be trough shaped. In addition, sealing heights can be reduced. It can make sense, for example, to plan these at 50 mm (compliant with flat roof guidelines) or 20 mm. The use of EPDM foils or other materials mentioned in the standard must always be taken into consideration. The foils are glued using ISO-TOP FLEX ADHESIVE XP.



QUALITY CHARACTERISTICS

- 3-level sealing using only one product
- optimal outwards vapour diffusion
- sealing of a wide range of different joints with only a few tape dimensions
- high functional reliability due to large expansion ability
- reduces convection heat loss
- can be combined with sprayable sealing materials
- certified Passive House component



QUALITY CHARACTERISTICS

- permanent outer seal
- high stretchability – compensates joint movements
- extremely temperature- and weather resistant
- bitumen-compatible
- standard-conform sealing according to DIN 18531 and DIN 18533



CLAY BRICK CONSTRUCTIONS

MAKE THE MOST OF THE ADVANTAGES OF MODERN WINDOW SEALING SOLUTIONS!

Clay brick constructions are made using a classical cavity wall method. The load-bearing wall on the inside is usually made of lime sand bricks and the clay brick facade built in front of this with a gap of around 100 mm between the two. The brick wall is usually built with a cavity between it and the load-bearing wall. In older buildings, this gap is not insulated; in modern houses it will usually be insulated with mineral wool, board or have insulation material blown into the gap after construction.

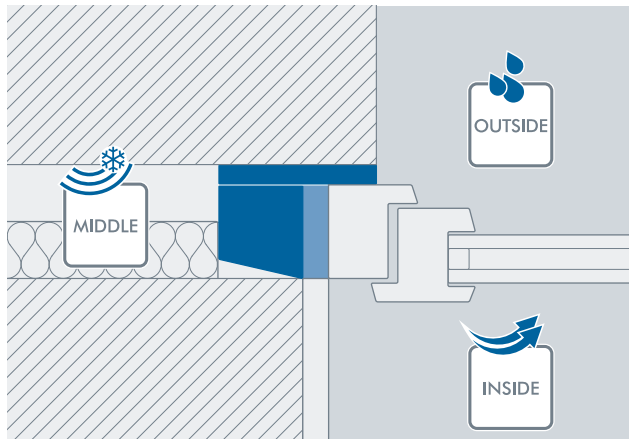
With the cavity design of clay brick facades, which are mainly popular in Northern Europe, windows and doors are installed in the gap level between the inner and outer masonry wall. In most areas the outer brick wall is built with a stop so that the frames of windows and doors are covered by the outer wall by up to 5 cm.

Airtightness and thermal insulation of the external walls is a requirement of GEG. However clay brick walls normally have ventilation gaps / cavities. The structure must ensure that any water that penetrates the air gap is routed back outside and effectively sealing around the window and door connection joints is a vital part of restricting water penetration.



OUR SYSTEM COMPONENTS FOR CLAY BRICK CONSTRUCTIONS

ISO-BLOCO FILLER



In new and renovated buildings, the gap round the windows and doors must have optimum thermal insulation. At the transition points between the inner masonry reveal and the window frame the thermal efficiency must be taken into account. DIN 4108-2 prescribes calculation and a resulting surface temperature of at least 12.6°C at this point under standard climate conditions. This is the only way mould-critical climates can be avoided. Optimum thermal insulation and a fast finishing layer can be achieved using the new masonry filler ISO-BLOCO FILLER. This sealing product is jammed between the outer stop and the inner wall, thus creating fast thermal insulation and filling the air gap. In addition, the sealing tape strip seals the stop against the frame so that it is resistant to driving rain.

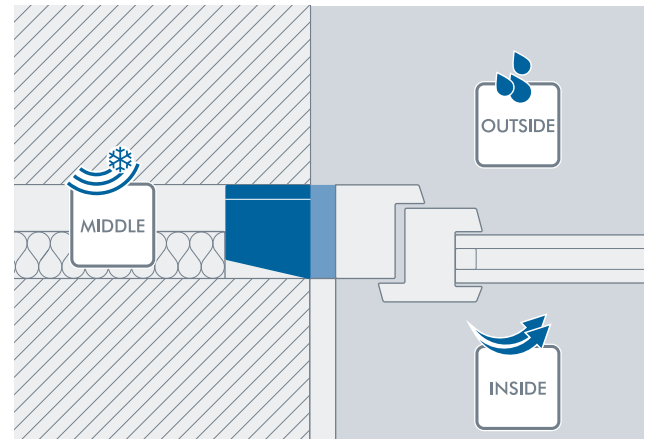


PATENTED

QUALITY CHARACTERISTICS

- perfectly suitable as a finishing layer in the gap for use of multi-functional joint sealing tapes
- high adaptation to "check reveals" and unevenness of up to 30%
- integrated sealing tape system for sealing the weather protection level

ISO-BLOCO ONE, ISO-BLOCO ONE CONTROL AND ISO-BLOCO MULTI-FUNCTIONAL TAPE



The use of multi-functional joint sealing tapes such as ISO-BLOCO ONE, ISO-BLOCO ONE CONTROL or ISO-BLOCO MULTI-FUNCTIONAL TAPE was not usually possible in open cavity wall structures. The new product ISO-BLOCO FILLER supports the use of multi-functional joint sealing tapes as being most suitable. Permanently installed and jammed in place, it not only improves the thermal efficiency, but also creates the possibility of using multi-functional joint sealing tapes with their inherent advantages of speedy and simple installation, thus perfectly sealing the window connection joint against the inner wall. This way, the advantages of modern multi-functional joint sealing tapes can also be used in cavity wall structures.

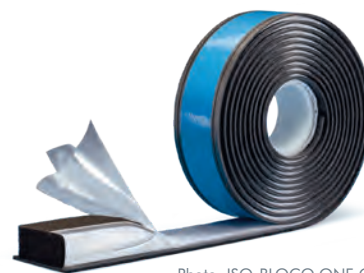


Photo: ISO-BLOCO ONE CONTROL

CE

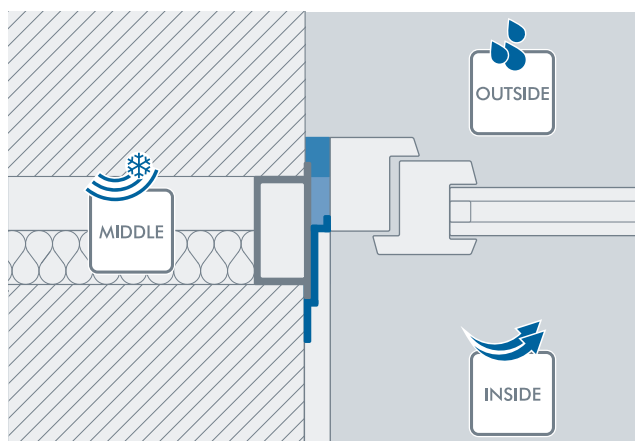


PATENTED

QUALITY CHARACTERISTICS

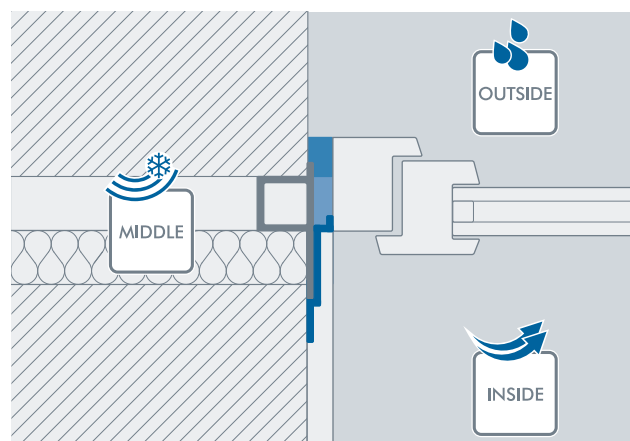
- 3-level seal using only one product
- simple and safe window sealing with fitting in a single working step
- sealing of a wide range of different joints with only a few tape dimensions
- can be combined with sprayable sealing materials

ISO-BLOCO 600 PREMIUM EDITION

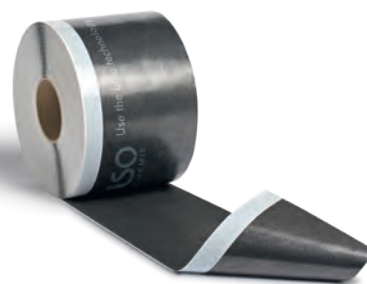


In the case of clay brick constructions, the special requirement is to seal the outer wall against driving rain. On account of the usual brick projection, joint sealing tape ISO-BLOCO 600 is extremely suitable for this application. The elastic sealing tape is bonded to the window frame and is so flexible that even sharp-edged projections are reliably sealed in the permitted joint function area. The solution looks good and will work well in the long term. The BG 1 and BGR joint sealing tape can be exposed to all weathers. It can even be covered with other sealing agents, but these often reduce the breathable properties of the ISO-BLOCO 600.

ISO-CONNECT VARIO XD



ISO-CONNECT VARIO XD is a variable-humidity foil for the area of application on the inside level 1 and the weather protection level 3. With an sd-value of 1 m to 12 m which adapts to the relative humidity, ISO-CONNECT VARIO XD always ensures that residual humidity will dry out in the construction joint. The foil has a UV light stability of at least 12 months even when exposed to direct sunlight e. g. during the construction phase and ensures absolute airtightness of the construction joint as well resistance to standing water. This saves energy and goes easy on your wallet. The foil has been prepared with a plastering felt on one side for optimum plastering over with mineral plaster and has a special hydrophobe side for optimum water draining.



QUALITY CHARACTERISTICS

- meets the requirements of DIN 18542 BG 1 / BGR
- seals against driving rain, wind, dust and splashwater
- vapour diffusion permeable
- high adhesive strength during fitting
- permanently elastic, with life-long movement capacity
- safety thanks to wide area of application for joints

QUALITY CHARACTERISTICS

- only one product for inner and outer sealing
- high drying effect in the joint thanks to humidity-regulating functional mechanism (variable sd-value)
- resistant to driving rain up to more than 1,050 Pa
- up to 1 year UV-stability in any weather conditions
- special fleece surface, easy to plaster and glue over
- with self-adhesive strips for efficient application



LOG CABINS AND TIMBER HOUSES

THIS IS HOW TO KEEP HUMIDITY OUT OF YOUR LOG HOUSE!

Houses in log cabin design and prefabricated timber structures are manufactured industrially and transported as construction kits to the building site. Dimensional accuracy and system conformity are essential in this context. However, the timber itself moves over its whole life cycle and reacts extremely sensitively to humidity. Humid patches which are in concealed spots cause substantial damage to the structure and can usually not be renovated.

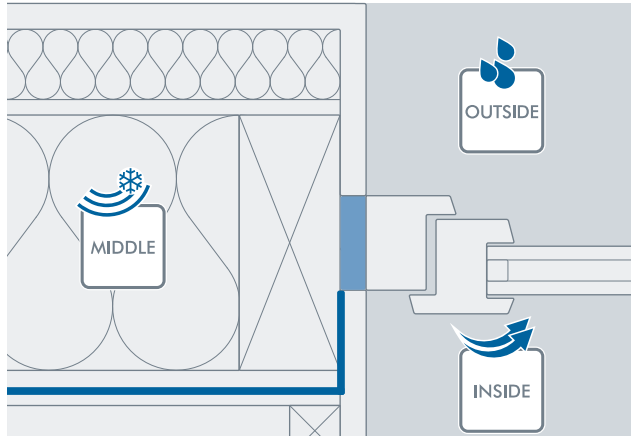
The trend is also moving towards low-energy houses, passive houses and zero-energy houses in the field of solid log cabin and so-called post-and-beam structures, too. Yet humidity enrichment must be avoided at all costs when the building material involved is timber. The building shell must be designed and built 100% air tight, because condensation in the insulation will lead to major damage later on.

The vapour barrier layer, usually in combination with prefabricated wooden boards and PE membrane foils, as well as the joint seals around the construction elements must be permanently air-impermeable in accordance with the generally accepted technical regulations.

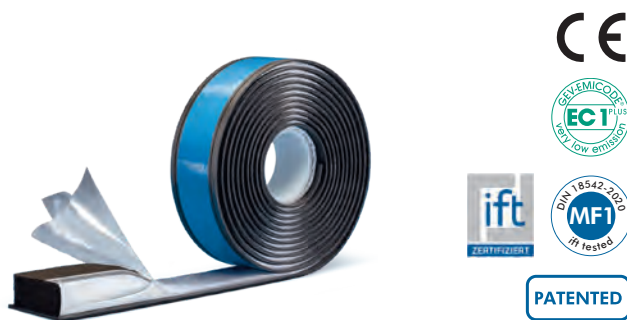


OUR SYSTEM COMPONENTS FOR LOG CABINS AND TIMBER HOUSES

ISO-BLOCO ONE CONTROL



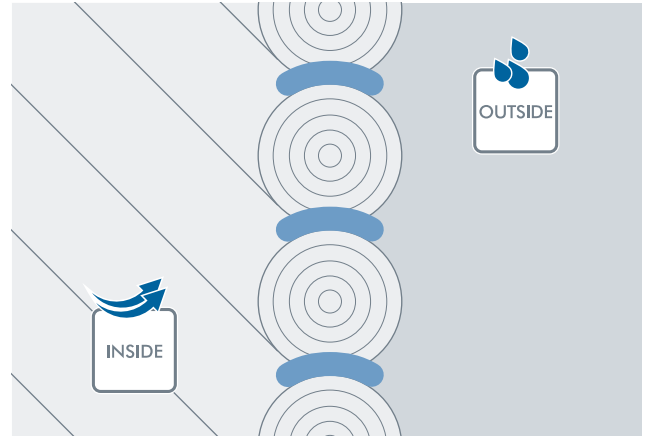
ISO-BLOCO ONE CONTROL is particularly advantageous for use in timber frame construction due to the clear plannable window openings. The pre-compressed MF1 multifunctional tape is packed in a tear-off release film and is therefore perfect for pre-fitting in the factory. An activation tab can be used to trigger expansion in a controlled manner after window installation. On the outside, the 3-level tape ensures particularly high driving rain tightness of 1,050 Pa. On the inside, it is 100% airtight and vapour-retardant with an α -value of 0.00. Due to the PE foil membrane, it can be perfectly connected to the inner vapour barrier level. It supports a good Ψ -value through excellent thermal insulation of the connection joint (and a U-value of up to $0.6 \text{ W}/(\text{m}^2 \cdot \text{K})$).



QUALITY CHARACTERISTICS

- 3-level seal using only one product in one working step
- sealing of a wide range of different joints with only a few tape dimensions
- resistant to driven rain of more than 1,050 Pa
- high sd-value gradient, optimum transportation of humidity to the outside, tested and defined
- suitable for passive energy houses
- pre-fitting in production saves time in assembly on site

ISO-MEMBRA SX



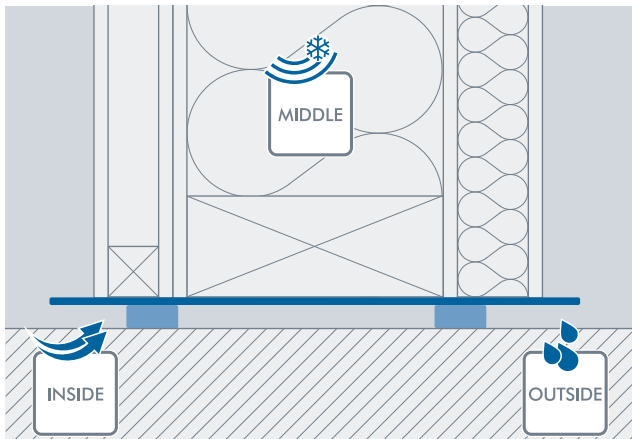
Very large logs are built on top of one another and react to humidity and ageing. This is typical for rustic and cosy log cabin houses. ISO-MEMBRA SX (Finish B) guarantees airtightness and thermal insulation between the log layers. The joint sealing tape can be ordered with or without a self-adhesive side and is placed pre-compressed between the log layers during assembly. Directly after fitting, the joint sealing tape starts to expand and closes any residual gaps in the log wall. Its material strength and elasticity makes it the optimum solution for a long-term outer wall system. In addition, the ISO-BLOCO JOINT SEALING TAPES have EC1^{PLUS} certification, guaranteeing no emissions.



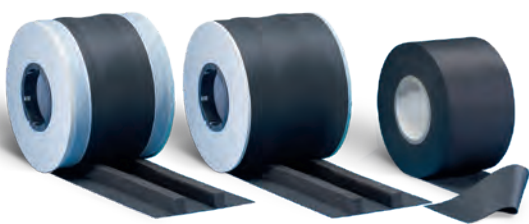
QUALITY CHARACTERISTICS

- meets the requirements of DIN 18542 BG1 / BGR for large joint tolerances
- resistant to driving rain more than 600 Pa
- integrated membrane system for enhanced sealing
- high permanent movement compensation
- vapour diffusion permeable
- weatherproof, acoustic and thermal insulation properties

ISO-CONNECT HB-BAND



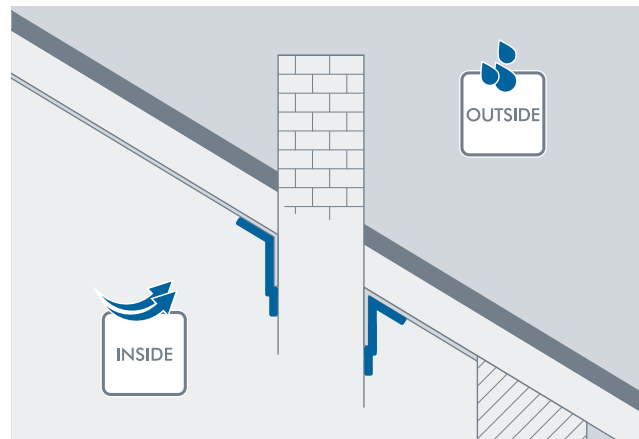
Timber houses are always built on sturdy concrete foundations. No matter whether these are designed as strip or slab foundations – there is always a risk that residual humidity will migrate from the concrete slab to the bottom timberwork. For this reason, a capillary-breaking layer must be installed between the timber structure and the mineral floor slab to stop residual humidity rising. The ISO-CONNECT HB-BAND is made up of a sturdy and tear resistant EPDM sealing strip which has up to two PUR joint sealing tapes laminated onto it. This provides an additional air tight seal for the joint, because the joint sealing tapes expand to fill the uneven surface of the floor slab.



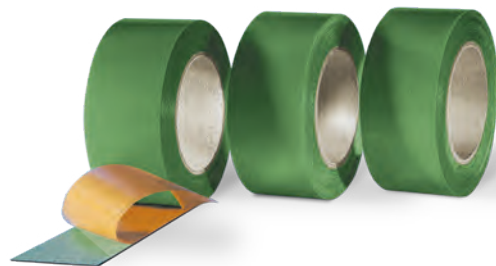
QUALITY CHARACTERISTICS

- permanent seal
- high compression strength
- excellent resistance to tearing
- weather resistant and UV stable
- impermeable to water vapour
- bitumen-compatible
- extremely temperature-resistant
- air tight connection reduces the risk of cold spots

ISO-TOP FLEX-TAPE



PE foils are used to establish airtightness in the wall and roof structures. Butt joints between the foil strips and transitions to other materials must be connected so that they provide a permanent seal. Special adhesive foils such as the ISO-TOP FLEX-TAPE should be used for this. The ISO-TOP FLEX-TAPE is air tight and elastic, so that even difficult 3-D geometries can be sealed tightly. The tape is coated with a special adhesive that provides reliable, air tight bonding to all standard vapour barrier foils and roof tile underlays.



QUALITY CHARACTERISTICS

- meets the requirements for windproof connection stipulated in DIN 4108-7
- air tight bonding of foils to adjacent components
- very good adhesion to standard vapour barrier foils and roof tile underlays
- air tight finish on openings
- free of softening agents and halogens

Use the blue technology.



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