

45
YEARS
PRODUCTION



ENERGY-EFFICIENT & DURABLE SEALING SOLUTIONS
IN PRE-FABRICATED BUILDINGS

ISO
CHEMIE

ENERGY-EFFICIENT & DURABLE SEALING SOLUTIONS IN PRE-FABRICATED BUILDINGS

ISO-BLOCO
ONE CONTROL



ISO-CONNECT EPDM



ISO-CONNECT
HB-BAND



ISO-CONNECT
VARIO SD





ISO-PROFIL
FILLER STRIPS AND FILLER PIECES



ISO-ZELL
THERMAL TAPE



ISO-MEMBRA SX



ISO-BLOCO
600



ISO-BLOCO
ONE



MODERN SEALING TECHNOLOGY – ESSENTIAL IN PRE-FABRICATED BUILDINGS

The technical requirements for energy-efficient and long-term building seals are increasing all the time. We have developed a series of high-performance sealing products which are tailor-made to the requirements of element-based design in pre-fabricated metal structures, concrete elements and timber structures.

Factors such as air-tightness, permanent movement, weather-resistance, emission-freedom, thermal and acoustic insulation as well as humidity and fire protection are important properties of our standard-conforming sealing solutions. In addition, our innovative products have a positive effect on the energy balance of buildings, at the same time promoting a healthy internal climate.



EASE OF INSTALLATION

Time is money, which is why straightforward and reliable installations are just as important as the durability of the products. Our products can be processed easily, quickly and safely.

PRODUCT QUALITY

The constant quality of our sealing systems is tested and monitored regularly by independent institutes according to the very latest standards and regulations. This offers you assurance in terms of quality and legislation, and you are guaranteed to be up to the latest technical standard.

SERVICE

We offer you comprehensive advice and support in finding individual sealing solutions and a fast delivery service.

Thanks to our flexible logistics, we are able to deliver each of our products at very short notice – project-related if required. This leaves you free to reduce your planning times and stocks.



It goes without saying that we are certified to ISO 9001.

BUILDING JOINTS ARE EXPOSED TO EXTREME LOADS

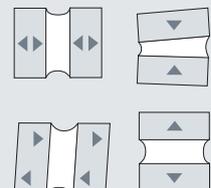
Weather-related loads

- Driving rain
- Wind
- UV-radiation
- Temperature changes



Structural-physical loads

- Material expansion
- Component movement
- Shear forces
- Building settling



BUILDING ENERGY ACT

To improve the overall energy balance of buildings, more and more demanding requirements are being placed on joint air-tightness. According to the Building Energy Act (GEG), a building is to be built in such a way that the heat transfer area, including the joints, have a permanent airtight seal in accordance with the generally accepted technical rules, the requirements of minimum thermal protection are observed and the influence of thermal bridges on the annual heating requirements is kept to a minimum.

This makes a special sealing of the building connection joints necessary, where the elements are optimally matched to one another.



To prevent joints becoming weak spots in the building shell care must be taken to plan a functionally reliable joint seal at an early stage in the design phase.

BLOWER-DOOR TESTS

The air-tightness of buildings makes an important contribution to energy-saving. For this reason, use of the blower-door test to check the air-tightness of the building shell is becoming the standard.

With their outstanding a-values, our ISO-Chemie sealing products contribute to achieving a very good blower-door test result.

PHYSICALLY CORRECT SEALING OF BUILDING JOINTS

In terms of building damage statistics, damage caused by dampness is now the largest group. In many cases it can be shown that the use of unsuitable jointing materials as well as poor planning and execution are responsible for this damage to a major extent. The fact that this damage does not only occur in old buildings but in new buildings as well is particularly worrying. Once the functional ability of the joints has been impaired, water can penetrate building components and the building structure. Disastrous damage due to damp with hazardous mould growth are usually the result. Damp walls also have a significantly poorer insulation value than dry walls. Draughts caused by faulty joints add to the increase in building energy costs caused by unnecessary heat loss.



JOINT AIR-TIGHTNESS IN PRE-FABRICATED METAL BUILDINGS

IFBS-TESTED SEALING SYSTEM

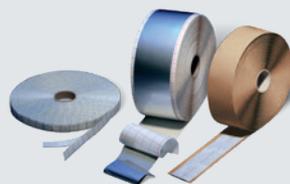
The international association for building systems in lightweight metal construction (IFBS) promotes special sealing requirements for building joints between lightweight construction elements in order to continue the sealing levels beyond the building element boundaries. This demands the use of a joint sealing system that is able to withstand the relevant building design requirements such as thermal insulation, airtightness, acoustic insulation, weather / moisture proofing, fire protection and thermal movement cycles.



The system products of the ISO^M-METAL BUILDING SEALING SYSTEM have been tested as a sealing system by ift-Rosenheim according to the IFBS-guideline „Joint airtightness in lightweight metal constructions“. The test report confirms that the sealing tapes and profile fillers of our proven and standard-approved sealing system comply with the specifications for „sealing tape types for use with lightweight metal constructions“ required by IFBS. That’s why it is the only IFBS conforming system for lightweight metal constructions. The system products of the ISO^M-METAL BUILDING SEALING SYSTEM are subject to regular internal and external checks where the perfect and consistent product quality, in line with the requirements of the ift system test, is monitored.



ISO-BLOCO permanently flexible PUR sealing tapes for sealing movement joints between construction elements in lightweight metal structures



ISO-BUTYL tapes for the safe and air tight bonding of joints in lightweight metal constructions



ISO-CONNECT KSKSEAL film for external lower sealing of windows and door elements

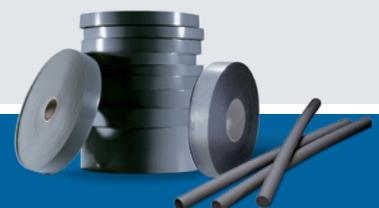


ISO-PROFIL FILLER STRIPS and FILLER PIECES for reliable and permanent closure of trapezoidal and corrugated profile beads

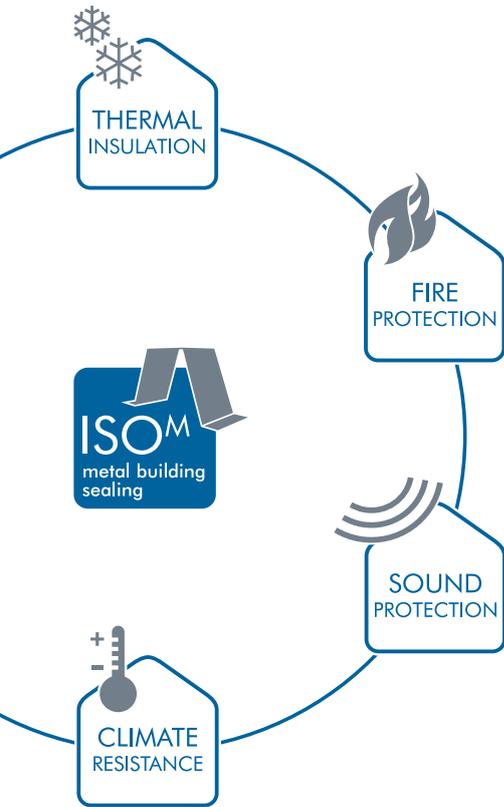


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ISO-TOP sealants for external sealing, PUR foams for thermal insulation and sound protection und primer for surface preparation



ISO-ZELL sealing and decoupling tapes for the sealing and thermal separation of construction elements



ALL-ROUND PROTECTION FOR JOINTS IN LIGHTWEIGHT METAL CONSTRUCTION

Our ISO^M-METAL BUILDING SEALING SYSTEM offers a sealing solution for almost every connection situation in lightweight metal construction which complies with the Building Energy Act, DIN 4108, DIN 18542 MF 1 (BG 1 and BG R) as well as the IFBS-guideline „Joint airtightness in lightweight metal constructions“. It is made up of several components and has been specially designed for the roof and wall structures resistant to driving rain and draughts, with steel panel profiles and sandwich elements. All system products have been matched in terms of function and application and can be used in combination. This saves time and costs, and guarantees a reliable installation.



ISO-MEMBRA special sealing tape with integrated membrane technology for sealing profiled steel sandwich elements



ISO-ACUSTIC insulating strips for sound & thermal insulation in the field of trapezoidal sheets, sandwich & lightweight metal constructions



ISO-ZELL THERMAL TAPE



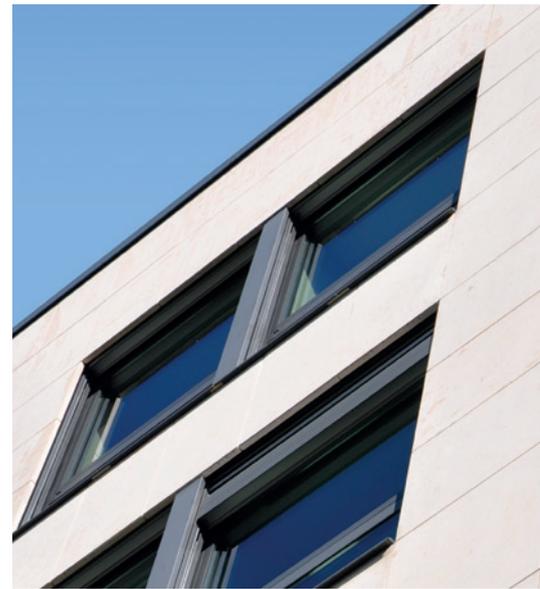
ISO-MEMBRA SX

INNOVATIVE JOINT SEALING IN BUILDINGS MADE OF PRE-FABRICATED CONCRETE ELEMENTS

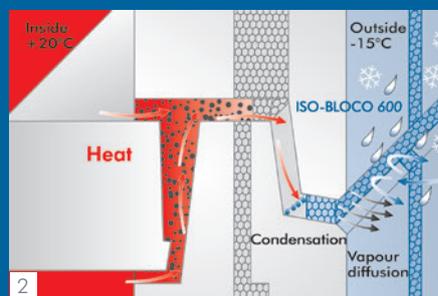
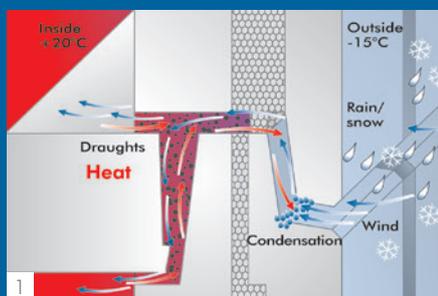
MOVEMENT JOINTS MAKE GREAT DEMANDS ON JOINT SEALING

Expert joint sealing is an important part of building design. In solid construction work, the sealing between pre-fabricated concrete elements is particularly important. Because in pre-fabricated buildings using concrete elements in particular, joint structures are exposed to extreme influences of the weather and structural-physical loads. This is why it is important to use joint materials that guarantee permanent functional ability.

Our BG 1 joint sealing tape ISO-BLOCO 600 has proved itself for sealing joints in pre-fabricated concrete elements in terms of weather resistance, thermal insulation, humidity protection, fire behaviour, joint movements and a positive internal climate. It has been successfully used for many years in both new build and renovation projects.

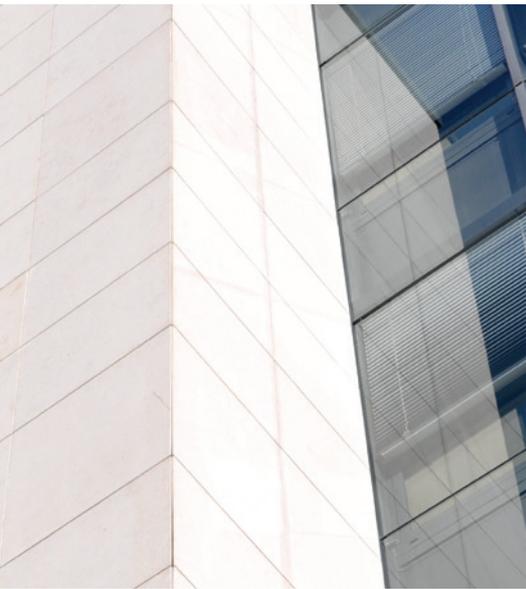


ISO-BLOCO 600



- 1 Warm air from the inside escapes through the joints to the outside and condenses on the cold surface. This results in draughts and building damage.
- 2 ISO-BLOCO 600 ensures impermeability to wind and driving rain up to 600 Pa and allows condensate to escape through the façade joint by diffusion.

ISO-BLOCO 600 PREMIUM EDITION **REMAINS FULLY FUNCTIONAL EVEN UNDER HEAVY LOADS**



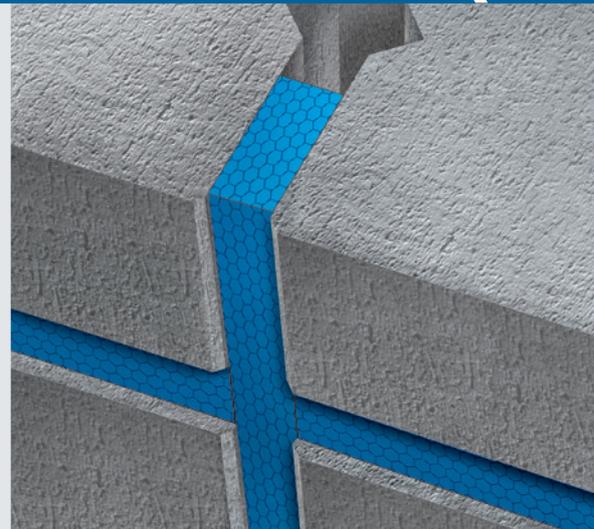
ISO-BLOCO 600 is a pre-compressed PUR sealing tape impregnated with polymer dispersion which has been especially designed for reliable joint sealing in tall buildings and façades up to 100 m high. The quality-tested BG 1 joint sealing tape meets the demanding requirements of DIN 18542. As well as having a driving rain impermeability of more than 600 Pa ISO-BLOCO 600 has outstanding acoustic and thermal insulation properties.

The special material structure of the joint sealing tape which is open to vapour diffusion allows the condensation which collects in the joint to escape to the outside, thus ensuring reliable transportation of humidity. In addition, ISO-BLOCO 600 has a great expansion ability and guarantees large permanent movement absorption. This means irregular joint patterns and movement joints can be sealed reliably. Adhesive and cohesive failure or material hardening, which can occur with wet sealants, is also avoided.

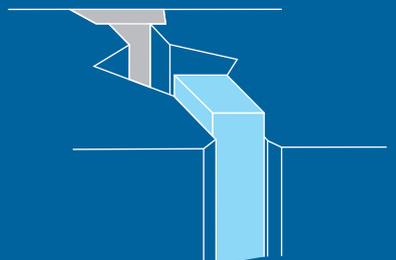
Joint sealing with ISO-BLOCO 600 meets the requirements of the Building Energy Act in the sense of an energy-saving building seal and fulfils all the pre-conditions important for permanent, physically correct joint sealing.

ISO-BLOCO 600 COLOUR EDITION
OUR COLOUR COLLECTION

Alongside our standard colours, we also have a comprehensive range of colours available for customised façade design.



ISO-BLOCO 600 for joint sealing in tall buildings and façades with high permanent movement.



SEALING CONSTRUCTION ELEMENTS IN PRE-FABRICATED TIMBER STRUCTURES

ENERGY-EFFICIENT AND SUSTAINABLE BUILDING WITH TIMBER

Modern timber buildings are becoming more and more popular, not only on account of their healthy living environment. One important aspect of the decision in favour of a timber house is the fact that wood inherently complies with an optimum construction method in terms of energy and the environment.

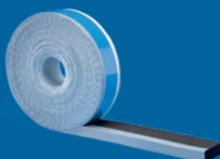
What people living in timber houses perceive as romantic creaking in their cosy four walls is due to the alternating expansion and contraction of the timbers used.

Joints in timber houses are subject to special loads. In addition to general weather-related influences, use of the natural building material wood also leads to increased component movement.

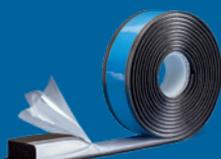
To achieve reliable sealing of the building shell, timber structures need special joint seals. It is important to ensure that the insulation and sealing materials selected can meet these structural-physical requirements of timber structures.



ISO-CONNECT HB-BAND



ISO-BLOCO ONE for the multifunctional 3-layer sealing of window and door connections in only one single working step



ISO-BLOCO ONE CONTROL multifunctional joint sealing tape for pre-fitting to timber post-and-beam wall elements and windows



ISO-BLOCO 600 joint sealing tape for perimeter sealing of windows, doors and interconnected windows joints, as well as skylights

SEALING SOLUTIONS IN LINE WITH REQUIREMENTS



With appropriate insulation and sealing measures, timber houses can turn into real energy-saving marvels which easily meet the requirements of the Building Energy Act.

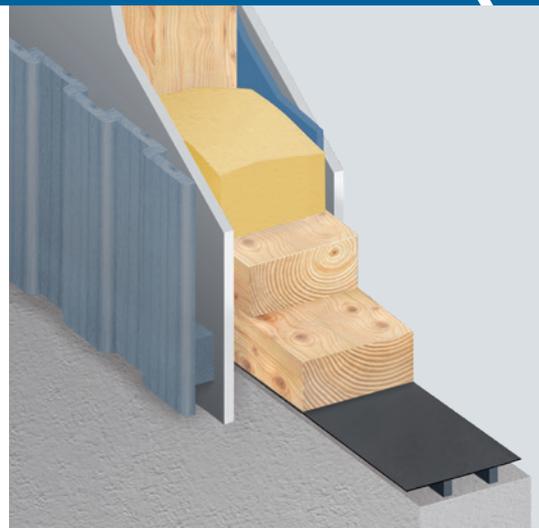
We have developed joint sealing tapes and connection films for pre-fabricated timber structures which meet the structural-physical requirements and reliably and permanently seal movement joints with large joint tolerances.

Our products are ideal for sealing elements in pre-fabricated timber structures:

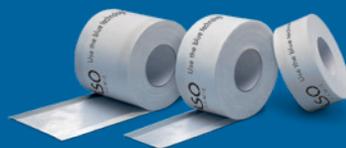
- Beam layers
- Ridges
- Roof connections
- Floor slabs and cellar ceilings
- Window and door connections
- Wooden post-and-beam wall elements

ISO-BLOCO ONE CONTROL provides the unique advantage of preparing joint sealing for both windows, doors and wall elements in the factory. The sheath is stripped off later on site, activating the seal.

We provide a tailor-made consultation and planning service.



ISO-CONNECT HB-BAND sealing strip to prevent humidity transportation from the masonry to the ground beam



ISO-CONNECT VARIO SD humidity variable window connection film for the inner & outer sealing of window, door and façade connections



ISO-TOP FLEX- AND POWERTAPE powerful adhesive tapes for vapour barrier films and roof insulating sheets

SEALING PRODUCTS – IN PRE-FABRICATED STRUCTURES

Product	Pre-fabricated metal buildings			Pre-fabricated concrete	
	Windows	Façade	Roof	Windows	Façade
ISO-BLOCO ONE	•			•	•
ISO-BLOCO ONE CONTROL	•			•	•
ISO-BLOCO 600	•	•	•	•	•
ISO-BLOCO 300	•	•	•	•	
ISO-BLOCO HF	•			•	
ISO-BUTYL	•	•	•	•	•
ISO-CONNECT VARIO SD	•			•	
ISO-CONNECT INSIDE FD/CX	•			•	
ISO-CONNECT OUTSIDE FD/CX	•			•	
ISO-CONNECT INSIDE EPDM	•	•	•	•	•
ISO-CONNECT OUTSIDE EPDM	•	•	•	•	•
ISO-CONNECT HB-BAND					
ISO-MEMBRA SX		•			
ISO-MEMBRA SX „FINISH B“					
ISO-ACOUSTIC INSULATING STRIPS			•		
ISO-PROFIL FILLER STRIPS			•		
ISO-PROFIL FILLER PIECES			•		
ISO-TOP FLEX- AND POWER-TAPE					
ISO-ZELL PE-TAPE AND FIX-TAPE		•	•		
ISO-ZELL THERMAL TAPE		•			



THE NEW GREEN IS BLUE

RANGE OF SEALING TAPES CERTIFIED FOR SUSTAINABLE CONSTRUCTION

Sustainable construction starts with the construction products. We are the first manufacturer of sealing products in the world to have drawn up an Environment Product Declaration (EPD) for our range of sealing tapes and to have this monitored and certified according to the European standard ISO 14025 and prEN 15804. The EPD clearly shows that our sealing tapes are already extremely energy-efficient and that their use will have a positive effect on energy consumption and thus on the environmental balance of buildings.

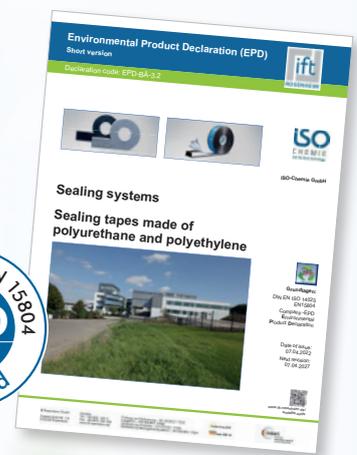
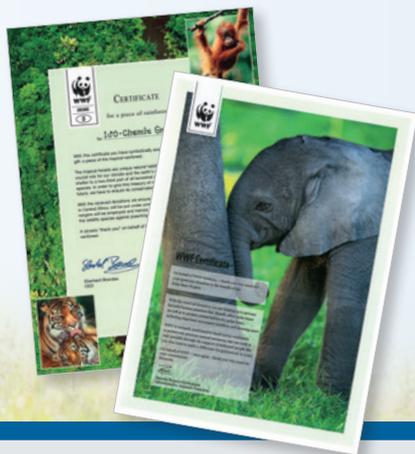


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ENVIRONMENT CERTIFICATION ACCORDING TO ISO 14001

As a manufacturer of energy-efficient and sustainable sealing solutions we feel we have an obligation to further improve the environmental effect of our products and to constantly extend our company environment activities.

An outward sign of our commitment is certification to the international environment management standard ISO 14001.



As we see it, both economic and ecological points of view must be taken into consideration when developing forward-looking products. We are committed to acting responsibly with respect to people and nature. Which is why we use energy and resource saving production methods and make sure we use healthy and recyclable materials. For example, we only work with CFC free and climate neutral foams that conform to the latest environmental regulations.

By sustainability, we mean accepting responsibility for a future worth living in everything that we do. This is why you should use "blue technology" from ISO-Chemie as well!

OUR PRODUCTS CREATE A HEALTHY LIVING ENVIRONMENT

Many of our sealing products were rated as "very low emission" with the GEV mark EMICODE® EC1 PLUS. This premium classification by the Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V. (GEV) means maximum possible protection against ambient air contamination. Both users and clients are thus guaranteed that these products do not give off hazardous substances into the ambient air and do not represent any risk to health.

Use the blue technology.



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