

ISO-BLOCO One Control



UK office

ISO-Chemie GmbH
Wheldon House, Front Street
Ebchester, Co. Durham DH8 0PJ
Tel +44 (0)1207 56 68 67
Fax +44 (0)1207 56 68 69
info@iso-chemie.co.uk
www.iso-chemie.co.uk

Head office

ISO-Chemie GmbH
Röntgenstraße 12
73431 Aalen, Germany
Tel. +49 (0)7361 / 94 90 - 0
Fax +49 (0)7361 / 94 90 90
info@iso-chemie.de
www.iso-chemie.de



Product description

ISO-BLOCO *One Control* is a pre-compressed multi-functional joint sealing tape packed in a tear-off activation film. Designed for sealing windows in accordance with Energy Saving Standards and RAL requirements. It was developed especially to allow simple and reliable pre-fitting. The tear-off cover ensures that the window sealing tape remains compressed, even when the roll is unwound. ISO-BLOCO *One Control* now makes it possible to pre-fit a 3-level seal in the workshop. The easy-to-use pre-fitted tape packaged in a robust film combines three functional areas based on the RAL 3-level principle. The 1000 Pa outer area offers particularly high resistance to driving rain, while the middle area provides reliable thermal and acoustic insulation. The inner area with an a-rating of 0.00 guarantees a 100 % airtight seal.

ISO-BLOCO *One Control* thus helps to minimise heat losses due to convection as described in the current Energy Saving Standards. It also has an optimum vapour diffusion gradient from inside to outside (50 : 1) creating effective moisture transport to the outside and thus rapid drying of the joint.

Product advantages

- The tape is activated exactly when required for controlled expansion
- Cost advantage and time saving due to straightforward pre-fitting off site
- Can be fitted regardless of the temperature or weather conditions and no need for external access

- 3-level seal with just one product and in a single operation
- A wide range of joints can be sealed with just a few tape dimensions
- Resistant to driving rain to a minimum of 1000 Pa
- High sd-value gradient, optimum moisture transport to the outside, tested and defined
- Internal air tightness minimises heat losses caused by convection
- Suitable for passive house construction
- Conforms to the requirements of Energy Saving Standards and the principles of the RAL assembly guideline

Finishes

- A: ISO-BLOCO *One Control* (CB) with clip fixing
- B: ISO-BLOCO *One Control* (BT) with self-adhesive butyl fixing
(1-BT) with one butyl adhesive strip in the middle
(2-BT) with two butyl adhesive strips on the outer edges

Packaging

Pre-compressed tape on rolls with tear-off cover with integral activation tab

Accessories

- ISO-TOOL *Clip* for quick and easy pre-fitting on PVC and aluminium windows frames
- ISO-TOOL *Cut* special blade for creating reliable corners

ISO-BLOCO One Control

Technical Data

Standard

Classification

Material description		impregnated PUR flexible foam with special film and tear-off activation film
Colour		black
Impermeable to driving rain	DIN EN 1027	≥ 1000 Pa
Impermeable to driving rain on joint intersections	DIN EN 1027	≥ 600 Pa
Temperature stability range	DIN 18542	-30 °C to +80 °C
Air permeability coefficient	DIN EN 12114	$\alpha = 0,00 \text{ m}^3/[\text{h} \cdot \text{m} \cdot (\text{daPa})^n]$
Compatible with adjacent building materials	DIN 18542	requirements fulfilled
Dimension tolerance	DIN 7715 T5 P3	requirements fulfilled
Building material class	DIN 4102	B1 (fire resistant)
Thermal conductivity	DIN EN 12667	$\lambda_{10, \text{tr}} \leq 0,05 \text{ W/m} \cdot \text{K}$
U-value: Window construction depth 70 mm / 80 mm / 90 mm	DIN 4108-3	$U = 0,7 \text{ W}/(\text{m}^2 \cdot \text{K}) / 0,6 \text{ W}/(\text{m}^2 \cdot \text{K}) / 0,55 \text{ W}/(\text{m}^2 \cdot \text{K})$
Sound reduction		45 dB in 10 mm joint
sd-value gradient (from internal to external)	DIN EN ISO 12572	50 : 1 (internal ≥ 25 m; external ≤ 0,5 m)
Shelf life		1 year, dry and in original packing
Storage temperature		+1 °C to +20 °C

Maximum time between pre-fitting and installation as per manufacturer's specification.

Dimensions

tape widths	window construction depth *)	recommended joint width **)
60 - 94 mm	60 - 96 mm	6 - 20 mm
60 - 94 mm	60 - 96 mm	8 - 33 mm

Alternative dimensions available on request

*) Check the compatibility list.

**) Movement of the components and temporary changes of length of the existing joints should be taken into account when determining the right tape size.

***) Available tape widths correspond to current price lists.



Sample installation (CB): Fitting PVC windows



Sample installation (1-BT): Fitting wooden windows

Applications

The tape is usually fixed to the PVC or aluminium windows frames using a clip fixing. The ISO-TOOL *Clip* assembly tool is used to clip the ISO-BLOCO *One Control* sealing system safely into the grooves in the window profiles, and mechanically fix it to the window frame. The ISO-TOOL *Cut* corner tool ensures that the corner loops are shaped reliably. The pre-fitted tape is also available with one or two high-quality self-adhesive butyl fixing strips for use with wooden windows and on narrow profiles under 65 mm deep.

After the window is aligned and fixed in the aperture, the seal is activated by pulling the activation tab which tears open the foil perforations. This allows the seal to expand, reliably filling the joint within the recommended joint application area.

Additional products

- ISO-TOP *Flex-adhesive* for wind and air impermeable bonding of window connection foils (without pre-treatment)
- ISO-CONNECT for professional window sealing in accordance with RAL-window installation instructions
- ISO-ZELL for sealing and thermal insulation of construction elements, including windows
- ISO-FLAME for increased fire protection on joints and openings in building constructions

The details and information given in this literature are based on best current knowledge. They are intended to serve as general information only and it is advised that the user conducts their own tests for their specific set of conditions to determine the suitability of the product for its proposed use. No warranty or liability is given or implied regarding any part of these instructions or details, or the completeness of the information. We reserve the right to modify, or change, the specifications and information without advance notification. All goods are supplied subject to our standard conditions of sales, copies of which are available upon request.