

Product

ISO BLOCO ONE® is a **sealing system** especially developed for the installation of windows in **low-energy houses** such as passive houses, low-energy houses, constructions with exterior wall insulation or timber frame constructions.

ISO BLOCO ONE® is particularly suitable for joinery with profile widths between 60 and 90 mm installed in tunnelled structures.

Application examples

ISO-BLOCO ONE® unites all high performance requirements for the installation of windows and doors, both in new buildings and in renovation of low-energy houses.

ISO-BLOCO ONE® works with the principle of the 3 levels:

- ✚ **Outside:** torrential rainproof (>1.000 Pa)
- ✚ **Center:** thermal insulation with a U-value between 0,6 and 0,8 W/(m² · K) and acoustic property (45 dB)
- ✚ **Inside:** air and water vapour tight (μd ≥ 25 m)

In addition to its vapour seal on the inside (warm side), ISO-BLOCO ONE® also efficiently releases moisture to the outside of the joint (cold side), avoiding condensation.

ISO-BLOCO ONE® is also adapted to the different joint widths (2-12 mm, 3-18 mm, 5-30 mm) between the joinery and the supporting structure (timber frame construction, ...).

Colour: black

Packaging

On rolls, pre-compressed, one-sided self-adhesive.

ISO-BLOCO ONE® advantages:

- ✓ works according to the principle of the 3 levels
- ✓ torrential rain and airtight (>1,000 Pa)
- ✓ effective evacuation of the moisture to the outside
- ✓ very high thermal and acoustic properties
- ✓ several types can be used according to the different joint widths
- ✓ quick and easy execution with only one product
- ✓ can be placed without having to take the weather conditions into account
- ✓ conforms to the requirements of the RAL label



Technical properties

Property	Value + unit
Product	open-cell polyurethane with impregnation and integrated film
Colour	black
Fire class (DIN 4102)	B1 (not easily flammable)
Thermal conductivity (DIN EN 12667)	$\lambda_{10, tr} \leq 0,048 \text{ W/m} \cdot \text{K}$
U-value / profile width 60 mm/70 mm/80 mm (DIN 4108-3)	$U = 0,8 \text{ W}/(\text{m}^2 \cdot \text{K})$ $U = 0,7 \text{ W}/(\text{m}^2 \cdot \text{K})$ $U = 0,6 \text{ W}/(\text{m}^2 \cdot \text{K})$
Temperature resistance (DIN 18542)	-30°C to + 80°C
Acoustic property	45 dB in a joint of 10 mm
Air tightness (DIN EN 12114)	$a = 0,00 \text{ m}^3/[\text{h} \cdot \text{m} \cdot (\text{daPa})^n]$
Torrential rain resistance of the joints and air in lucht in direct exposure (DIN EN 1027)	≥ 750 Pa in the application field of the tape (see table)
Tolerance with other building materials (DIN EN 52453)	tolerant
Dimensional tolerance (DIN 7715 T5 P3)	meets the requirements
Value of the foil inside (DIN EN ISO 12572)	$\mu d \geq 25 \text{ m}$
Value of impregnated foam outside (DIN EN ISO 12572)	$\mu d \leq 0,5 \text{ m}$
Ratio of the μd value (inside:outside) (DIN EN ISO 12572)	50 : 1
Reports	ift Rosenheim 105 37487 R2 (air and driving rain density) ift Rosenheim 105 36483rd (proof of performance)
Max. storage life	1 year in the original packaging
Storage temperature	between +1 and +20°C

Note

In the case of self-adhesive versions, the adhesive layer only serves for simple, temporary positioning of the product. The product should not be subjected to mechanical stress.

ISO BLOCO ONE®

Versions

Depth/width min.-max. (mm)	Width of window profile (mm)	Application area min.-max. (mm) (after in-service)
54/2-10	60	2 – 10 mm
64/2-10	70	
74/2-10	80	
54/2-12	60	2 – 12 mm
64/2-12	70	
74/2-12	80	
82/2-12	90	
54/3-15	60	3 – 15 mm
64/3-15	70	
74/3-15	80	
54/3-18	60	3 – 18 mm
64/3-18	70	
74/3-18	80	
82/3-18	90	
54/5-30	60	5 – 30 mm
64/5-30	70	
74/5-30	80	
82/5-30	90	



Depth/width min.- max. (mm)	Content per box (m)
54/2-10 & 2-12	210
64/2-10 & 2-12	180
74/2-10 & 2-12	150
82/2-12	120
54/3-15 & 3-18	140
64/3-15 & 3-18	120
74/3-15 & 3-18	100
82/3-18	80
54/5-30	84
64/5-30	72
74/5-30	60
82/5-30	48

Simple, fast and reliable installation



Note

The information contained in this document is provided in good faith and is believed to be correct. However, we have no influence on the conditions in which these products are used or the methods by which they are used. Therefore, this information is not a substitute for tests which the customer must perform himself/herself in order to ensure that the products are safe, effective and achieve the intended purposes. Suggestions regarding the use of the product must not be used as grounds for infringement of any patent whatsoever. The only guarantee Castelein Sealants offers is that this product complies with the Castelein Sealants terms and conditions of sale in force at the time of shipment. Your only remedy in the event of a breach of this guarantee is the refund of the purchase price or the replacement of the product that does not comply with the guarantee.

Technical data of supplier: 04-2025

The producer reserves the right to make changes. 2025 07 07