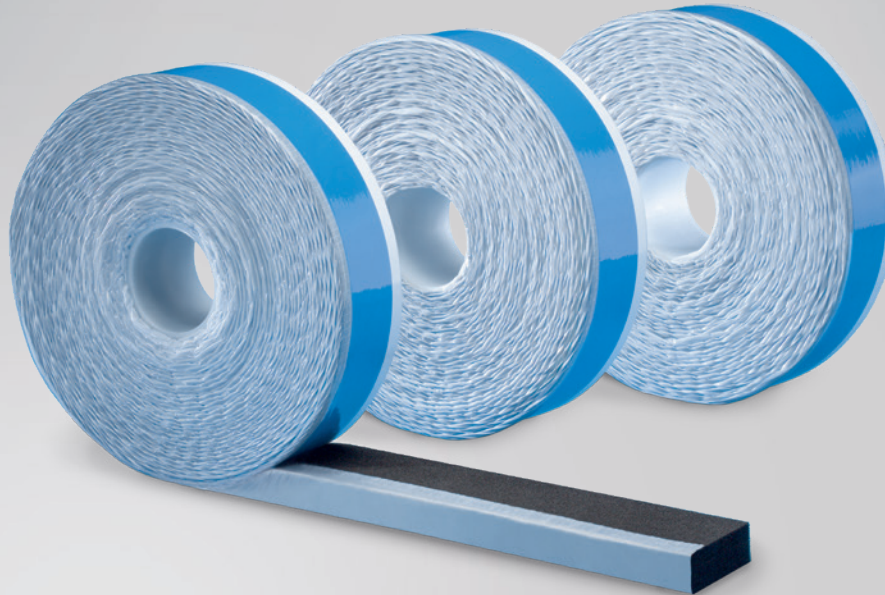


PRODUCT DATA SHEET

ISO-BLOCO ONE



PRODUCT DESCRIPTION

ISO-BLOCO ONE is a special multi-functional all-in-one joint sealing tape with outstanding properties. Having an α -value of $0.00 \text{ m}^3 / [\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3}]$ the pre-compressed tape is 100% air tight at the internal seal area, contributing in minimising heat loss by convection. It also possesses an optimal vapour diffusion gradient from the inside outwards (40:1) enhancing the external transmission of moisture, enabling the joints to dry out quicker.

APPLICATION

This all-in-one PUR-flexible foam sealant tape combines all the requirements of the Building Energy Act (GEG, EnEV was valid 31.10.20), the RAL "installation guide" and the UK Building Regulations in one product. It is particularly suitable for the reliable, uncomplicated and time saving perimeter sealing of windows and doors. This intelligent joint sealing tape functions around the 3-level-principal. Externally it provides, with more than 750 Pa, high resistance to driven rain, within the middle area it provides thermal and acoustic insulation and internally it is absolutely air tight as well as a water vapour barrier.

SERVICE

- standard sizes available from stock
- competent experienced technical support available in the field and by phone

PRODUCT ADVANTAGES

- 3-level-sealant with just one product
- resistant to driven rain in excess of 750 Pa optimal outwards vapour diffusion
- reduces convection heat loss
- high functional reliability due to large expansion ability
- sealing a wide range of joint sizes with a minimum of tape dimensions
- easy one step application for a reliable seal
- significant cost advantage through time saving installation
- certified Passive House component
- can be installed in adverse weather conditions
- complies with the requirements of the Building Energy Act (EnEV was valid 31.10.20) and the recommendations of the RAL "installation guide"
- 10 Year Function Warranty*

* On the conditions of the manufacturer (available on request).

PACKAGING

pre-compressed rolls with one side self-adhesive (to aid installation) in cardboard cartons



ISO-BLOCO ONE



Technical data	Standard	Classification
Material description		impregnated PUR flexible foam with special film
Colour		black
Impermeable to driving rain	DIN EN 1027	≥ 750 Pa
Impermeable to driving rain, joint intersection	DIN EN 1027	MF 1
Temperature stability range	DIN 18542	-30 °C to +80 °C
Classification according to	DIN 18542-2020	MF 1 (BG 1 / BGR)
Air permeability coefficient	DIN EN 12114	$\alpha < 0.00 \text{ m}^3 / [\text{h} \cdot \text{m} \cdot (\text{daPa})^{2/3}]^{**}$
UV light and weather stability	DIN EN ISO 4892-2	MF 1
Compatible with adjacent building materials	DIN 52453	requirements fulfilled
Dimension tolerance	DIN 7715 T5 P3	requirements fulfilled
Building material class	DIN 4102	B1 (fire resistant)
Thermal conductivity	DIN EN 12667	$\lambda_{10, \text{tr}} \leq 0.048 \text{ W} / \text{m} \cdot \text{K}$
U-value: window construction depth 60 mm / 70 mm / 80 mm	DIN 4108-3	$U = 0.8 \text{ W} / (\text{m}^2 \cdot \text{K}) / 0.7 \text{ W} / (\text{m}^2 \cdot \text{K}) / 0.6 \text{ W} / (\text{m}^2 \cdot \text{K})$
Sound reduction		up to 56 dB in 10 mm joint
sd-value gradient (from internal to external)	DIN EN ISO 12572	≈ 40 : 1 (internal ≥ 22; external ≤ 0.5)
ETA - 15/0407		CE mark since 2015
Shelf life		1 year, dry and in original packing
Storage temperature		+1 °C to +20 °C

** no measurable air penetration according to DIN EN 12114.

Tape width / area of application	Window construction depth	Recommended joint width***	Carton (metres)
54 / 2 – 12 mm	60 mm	2 – 12 mm	210.0
64 / 2 – 12 mm	70 mm		180.0
74 / 2 – 12 mm	80 mm		150.0
82 / 2 – 12 mm	90 mm		120.0
54 / 3 – 18 mm	60 mm	3 – 18 mm	140.0
64 / 3 – 18 mm	70 mm		120.0
74 / 3 – 18 mm	80 mm		100.0
82 / 3 – 18 mm	90 mm		80.0
54 / 5 – 30 mm	60 mm	5 – 30 mm	84.0
64 / 5 – 30 mm	70 mm		72.0
74 / 5 – 30 mm	80 mm		60.0
82 / 5 – 30 mm	90 mm		48.0

Alternative dimensions available on request.

*** Movement in structural elements and temporary longitude changes are to be taken into account by the max. joint width.



Installation example: ISO-BLOCO ONE

ACCESSORIES

ISO-TOP FLEX-ADHESIVE PA and ISO-TOP FLEX-ADHESIVE XP

ISO-BLOCO ONE „SET“

ISO-BLOCO ONE „SET“ can be used for construction depths greater than 82 mm. Here, ISO-BLOCO ONE is combined with an extension tape (without inner sealing membrane). The two tapes are bonded parallel on the frame edge with a small gap between them. See our current article list for details of the ISO-BLOCO ONE „SET“ tape dimension combinations available.