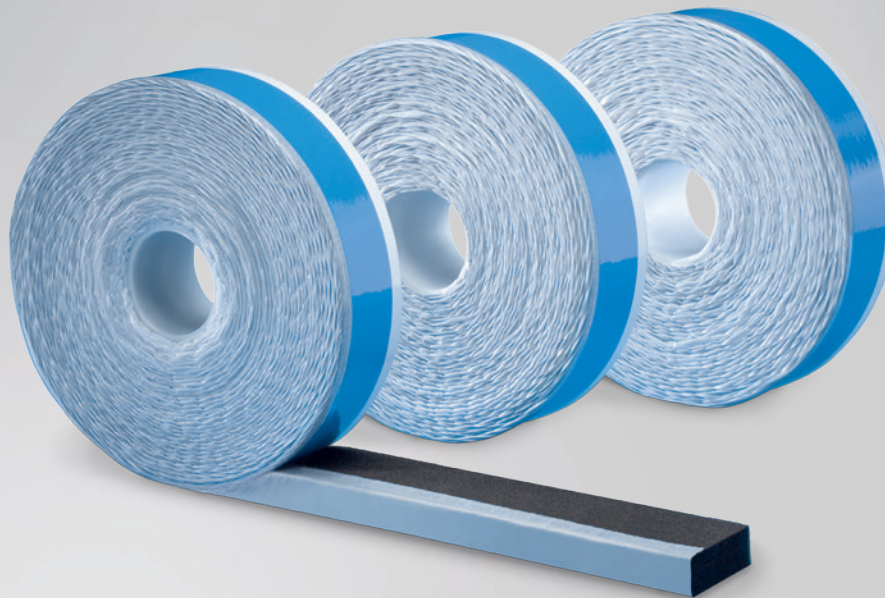


PRODUCT DATA SHEET

ISO-BLOCO ONE



PRODUCT DESCRIPTION

ISO-BLOCO ONE is a special multi-functional all-in-one joint sealing tape with outstanding properties. Having an a-value of $0.00 \text{ m}^3 / [\text{h} \cdot \text{m} \cdot (\text{daPa})^n]$ 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 (50: 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 energy savings regulations (EnEV), the RAL installation instructions 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 1,000 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 1,000 Pa (ift 105 35450)
- 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
- suitable for passive house construction
- can be installed in adverse weather conditions
- complies with the EnEV requirements, RAL window installation principals and the UK Building Regulations

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	≥ 1,000Pa
Temperature stability range	DIN 18542	-30°C to +80°C
Classification according to	DIN 18542	BG 1 and BGR
Air permeability coefficient	DIN EN 12114	$\alpha = 0.00 \text{ m}^3 / [\text{h} \cdot \text{m} \cdot (\text{daPa})^0]$
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 60mm / 70mm / 80mm	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		45 dB in 10 mm joint
sd-value gradient (from internal to external)	DIN EN ISO 12572	50:1 (internal ≥ 25; external ≤ 0.5)
Shelf life		1 year, dry and in original packing
Storage temperature		+1°C to +20°C

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

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



Installation example: ISO-BLOCO ONE

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.

SEALING PERFORMANCE ≥ 1,000 PA

• driving rain impermeable joint width

Area of application	Joint width in mm																													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
/ 2 – 12		•	•	•	•	•	•	•	•	•	•	•																		
/ 3 – 18			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•												
/ 5 – 30					•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

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