



A Member of UKTFA



# ISO-BLOCO One

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## Product description

ISO-BLOCO One is a special multi-functional all-in-one joint sealing tape with outstanding properties. Having an  $\alpha$ -value of  $0,00 \text{ m}^3/[\text{h} \cdot \text{m} \cdot (\text{daPa})^\alpha]$  the pre-compressed tape is 100 % airtight 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. Having an exceedingly high movement accommodation factor (500 %) and an extra-ordinarily high driving rain resistance with a minimum of 1000 Pa (greater than Hurricane Force 12) it outperforms conventional impregnated sealing tapes.

## Applications

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 high resistance to driven rain, within the middle area it provides thermal and acoustic insulation and internally it is absolutely airtight as well as a water vapour barrier.

## Product advantages

- 3-level-sealant with just one product
- resistant to driven rain in excess of 1000 Pa (ift 105 35450)
- optimal outwards vapour diffusion
- reduces convection heat loss
- exceedingly high Movement Accommodation Factor (MAF = 500 %)
- 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

## Service

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

## 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	≥ 1000 Pa
Temperature stability range	DIN 18542	-30 °C to +80 °C
Classification according to	DIN 18542	BG 1 and BG R
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	$\lambda_{10, \text{tr}} \leq 0,048 \text{ W/m} \cdot \text{K}$
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		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

## Dimensions

tape width x area of application	window construction depth	recommended joint width *)	(metres) carton
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

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



## Sealing performance ≥ 1000 Pa

■ Driving rain impermeable joint width

	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					■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

## Additional products

- **ISO-CONNECT** for professional window sealing in accordance with RAL-window installation instructions
- **ISO-TOP Flex-adhesive** for wind and air impermeable bonding of window connection foils (without pre-treatment)
- **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

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