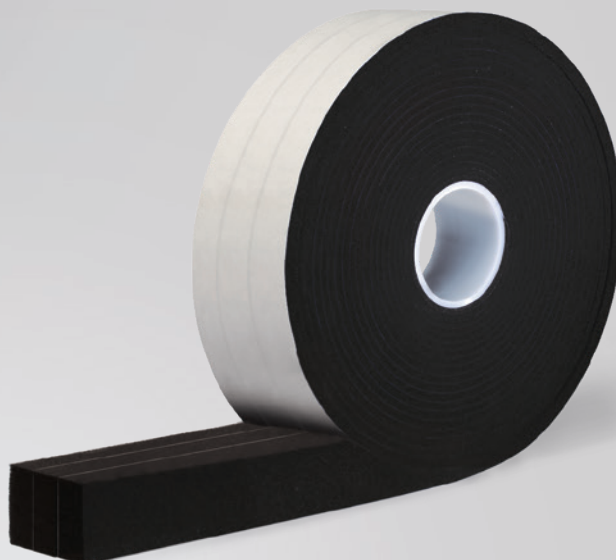


PRODUCT DATA SHEET

ISO-BLOCO HYBRATEC



PRODUCT DESCRIPTION

ISO-BLOCO HYBRATEC is a multi-functional tape 4.0 that is equipped with hybrid technology. The new hybrid technology combines the high resistance of film technology to air and driving rain with the reliable flexibility and movement absorption ability of high-quality multi-functional tapes tested and certified to MF1 (previously BG1 and BGR). With an α -value of $0.00\text{m}^3/[\text{h}\cdot\text{m}\cdot(\text{daPa})^n]$, the pre-compressed tape is 100% air tight when used on the interior and thus prevents convection heat losses. By integrating several barrier layers, ISO-BLOCO HYBRATEC complies with the principle “inside tighter than outside”.

APPLICATION

ISO-BLOCO HYBRATEC is the multi-functional tape that meets the requirements of state-of-the-art buildings 100% in terms of energy efficiency and reliability. It offers the absolute airtightness and maximum thermal protection that is mandatory for passive houses and zero-energy houses as well as a high resistance to driven rain that has been adapted to climate change yet still guarantees long-term permanent absorption of movement. ISO-BLOCO HYBRATEC is the suitable multi-functional tape 4.0 for all these requirements.

PACKAGING

Pre-compressed rolls with one side self-adhesive (to aid installation)

PRODUCT ADVANTAGES

- hybrid technology thanks to film barrier layers
- sealing of a wide range of different joints with one tape dimension 6 – 40mm
- absolutely air tight thanks to several barrier layers of film
- double protection thanks to hybrid technology
- no flow of warm air from the inside to the outside
- maximum energy saving
- resistant to driven rain in excess of 1,050 Pa
- complies with the principle “inside tighter than outside” thanks to several barrier layers of film
- optimum transportation of humidity
- high drying effect
- high functional reliability due to large expansion ability
- 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).

ACCESSORIES

ISO-TOP FLEX-ADHESIVE XP for gluing tape joints



ISO-BLOCO HYBRATEC

Technical data	Standard	Classification
Material description		impregnated PUR flexible foam with hybrid technology
Colour		black
Impermeable to driving rain	DIN EN 1027	$\geq 1,050\text{Pa}$
Temperature stability range	DIN 18542	-30°C to $+80^{\circ}\text{C}$
Classification according to	DIN 18542	MF 1 (BG 1 / BGR)
Air permeability coefficient	DIN EN 12114	$\alpha = 0.00\text{m}^3 / [\text{h} \cdot \text{m} \cdot (\text{daPa})^0]$
Compatible with adjacent building materials	DIN 18542	requirements fulfilled
Dimension tolerance	DIN 7715 TP 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		up to 60 dB
Humidity management	DIN 4108-3 DIN EN ISO 10077-2	drying consistency thanks to hybrid technology
PHI requirement		phA / phA ⁺
Shelf life		1 year, dry and in original packing
Storage temperature		$+1^{\circ}\text{C}$ to $+20^{\circ}\text{C}$

Tape width / area of application	Recommended joint width*		
	S	M	XL
30 mm	3 – 14 mm	4 – 20 mm	6 – 40 mm
40 mm	3 – 14 mm	4 – 20 mm	6 – 40 mm
55 mm	3 – 14 mm	4 – 20 mm	6 – 40 mm
65 mm	3 – 14 mm	4 – 20 mm	6 – 40 mm
70 mm	3 – 14 mm	4 – 20 mm	6 – 40 mm
75 mm	3 – 14 mm	4 – 20 mm	6 – 40 mm
80 mm	3 – 14 mm	4 – 20 mm	6 – 40 mm
85 mm	3 – 14 mm	4 – 20 mm	6 – 40 mm
95 mm	3 – 14 mm	4 – 20 mm	6 – 40 mm
105 mm	3 – 14 mm	4 – 20 mm	6 – 40 mm

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



Installation example: ISO-BLOCO HYBRATEC

RANGE / AREAS OF APPLICATION

Application	Weather protection performance**	Passive House standard	S 3 – 14 mm	M 4 – 20 mm	XL 6 – 40 mm
Residential buildings	600 Pa	phA	3 – 14 mm	4 – 20 mm	6 – 40 mm
Mid-rise buildings	750 Pa	phA	3 – 12 mm	4 – 18 mm	6 – 30 mm
High-rise buildings	1,050 Pa	phA ⁺	3 – 10 mm	4 – 15 mm	6 – 25 mm

** Resistant to driving rain according to DIN EN 1027.