Wikofix®-W3E

One tape for all three functional areas in the window installation joint, pre-pressed in a roll, sealing, thermal and acoustic insulation tape

Application areas	Wikofix W3E is a single-sided, self-adhesive multifunctional tape for:

- sealing between masonry and window or door frames
- airtight and driving rain-proof sealing
- insulation of movable window joints according to the principle «inside is tighter than outside»
- sealing of partition wall elements, coupling profiles, trusses
- ideal for new building, window manufacture, Fassadenbau, interior finishing, half-timbered building, noise protection construction, timber construction and handicraft

Product benefits

- airtight acc. to DIN 18542 BG R (inner side / room sided)
- thermal and sound insulating (insulation level)
- vapour permeable (acc. to DIN 18542 BG1), thus significantly reducing the risk of wood rot and fungal infestation in neighbouring materials
- save time and money; complete sealing in a single operation with a single product
- exterior side / weather side: wind and driving rain proof ≥600 Pa
- light and moisture resistant (acc. to DIN 18542 BG1); permanent drying of joints is possible, especially in new buildings, which prevents structural damage caused by moisture
- fulfils BG1, the highest stress group according to DIN 18542
- flame retardant (B1 acc. to DIN 4102-1)
- when used correctly reliable and durable sealing against driving rain, splash water, noise, dust, draughts and heat loss (reduces energy costs)
- self-adhesive on one side for simplified installation
- excellent long-term resistance when used correctly and with the required degree of compression
- compatible with adjacent building materials and Wisabax window sealants (acc. to DIN 18542 BG1)
- resistant to salts and alkaline environments (acc. to BRL-K407/02)
- thermal shock resistant acc. to DIN 18542 BG1 (tested from -30 °C up to +90 °C based on RAL-GZ 711)
- for indoor and outdoor use

Base

Open cell flexible polyurethane foam, evenly impregnated with a polymer solution with flame retardant properties and UV protection.

Retrofittable system components

On the inner side of the building, in order to achieve a higher level of tightness, a suitable sealant from our range can also be used.
For increased vapour barrier requirements, our Wikofix window tape INSIDE (sd value approx. 55 m) or, if required, our vapour-tight, aluminium-laminated butyl tape Wikofix-BBA (sd value >500 m) can also be applied to the interior of the room.

Processing

The substrate must be sound, dry and free of dust and grease.

The flanks of the joint must be parallel to each other. In particular, the substrate on the masonry must be permanently load-bearing and sufficiently level (smooth finish). The tape dimension is selected according to the joint size, expected joint movement and tightness requirements (use different tape dimensions if necessary). **The inside of the tape is marked and must always face the inner side of the room!**

The first 3 cm of each roll must be cut straight. The tape should also be cut to a straight length with an overlength of approx. 2 %.
Remove the masking film and press the tape onto the intended smooth surface (window frames, immediately before installing the windows).
Lay the tape at least 2 mm inwards from the front edge of the joint. Do not place the tape along corners. Always butt the ends together and never stretch the tape. The excess length of the belt is pressed into the corners. Start vertical joints from bottom to top and allow the joints to run as far as possible. When extending the belt, the ends of the lengths must be pushed together. Overlaps must be avoided at all costs.
Joints and imperfections can be levelled with Wikoplast-MSW.

Note	Do NOT clean the tape with compressed air or solutions containing strong acetic acid and always avoid contact with aggressive chemicals.
Driving rain tightness	≥600 Pa acc. to DIN 18542 BG1 and acc. to DIN EN 1027 Attention: Only a high level of compression will provide a high level of sealing effect!
Fire behaviour	B1 acc. to DIN 4102-1, flame retardant
Stress group	BG1 acc. to DIN 18543
Thermal conductivity	λ = 0.046 W/(m*K) acc. to DIN EN 12667 (with a tape width 75 mm) U-value = 0.56 W/(m^2*K)
Sound insulation	joint sound insulation: $R_{ST,w\,max}$ = ca. 59 dB in accordance with ift guideline SC-01/2:2002-09
Water vapour permeability	sd-value <0.5 m (well permeable) acc. to EN ISO 12572; depending on the degree of compression
Condensation water resistance	erfüllt die Anforderungen gemäss DIN EN 2440
Joint permeability (Airtightness)	a <1 m^3/ (h*m*(daPa)$^{0.91}$ acc. to DIN EN 12114
Processing temperature	from -5 °C up to +30 °C
Temperature resistance	from -20 °C up to +80 °C
Building material compatibility	given with conventional building materials according to DIN 18542 BG1

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Expansion behaviour (Summer / Winter)	The mounting behaviour of pre-compressed tapes is highly dependent on temperature and humidity. At temperatures below +15 °C, it is recommended to temper the tape at 20 °C - 25 °C 24 hours before processing. In order to achieve faster expansion of the tape when installed, the tape can be sprayed with water and heated with a heat source (e.g. hair dryer) in a swivelling motion. Never store the tape in the vehicle or in the sun / heat. In summer, the belt should be cooled down beforehand and installed as quickly as possible.

Recoatability

After complete drying, good coatability with most water-based and synthetic paints (excluding mineral colours). If painted too soon or if the joints are shifted too much, the paint can crack. Similarly, overpainting with (highly filled) water-based paints can lead to paint cracking. It is advisable to test the compatibility with the colours concerned before application.

Further information

You can find more information about this product (link to the product on our homepage, safety data sheet, certificates, special enquiries etc.) under the adjacent ISOPIN QR code.

Colour

grey (anthracite upon request, the inner side marked)

Standard stock dimensions (compressed on rolls)

Item no.	Window installation depth	Tape width	Carton box content	Joint width*
W3E 55.04-09	**60 mm**	**55 mm**	9 x 8 m = 72 m	**4 - 9 mm**
W3E 55.06-16	**60 mm**	**55 mm**	9 x 8 m = 72 m	**6 - 16 mm**
W3E 55.10-20	**60 mm**	**55 mm**	9 x 6 m = 54 m	**10 - 20 mm**
W3E 55.15-30	**60 mm**	**55 mm**	9 x 4 m = 36 m	**15 - 30 mm**
W3E 65.04-09	**70 mm**	**64 mm**	7 x 8 m = 56 m	**4 - 9 mm**
W3E 65.06-16	**70 mm**	**64 mm**	7 x 8 m = 56 m	**6 - 16 mm**
W3E 75.06-16	**80 mm**	**74 mm**	6 x 8 m = 48 m	**6 - 16 mm**

* suitable for driving rain-proof joint sealing >600 Pa

Quality: To avoid confusion, each roll is individually labelled and shrink-wrapped to prevent soiling or unintentional expansion.

Special dimensions

Further dimensions on request.

Shelf life

In closed original packaging, protected from direct sunlight, when stored in a dry place at a temperature of +15 °C to +20 °C and an optimum humidity of 50 % to 60 %, the official shelf life is 12 months from date of production. Never store the tape in the vehicle or in the sun / heat.

Have you noticed an unclear formulation or an error? Thank you for your feedback. In case of doubt, the German version of the technical data sheet applies.