



# Product Verification

## Sustainability

according to BNB BN 2015

according to BREEAM International New Construction 2016

according to DGNB NBV 2015

according to DGNB Gebäude Neubau 2018

according to LEED Building Design and Construction V3 (2009)

according to LEED Building Design and Construction V4 (2015)

### Certification:

The emission behaviour of Winflex® TriSave has been tested independently by the institute for analytic Aurachtal. Winflex® TriSave has been proved and tested to be very low-emission and particularly does not contain any halogenated flame retardant substances.

### Application in passive houses:

Winflex® TriSave is suited to be used for passive houses.



### Product description:

The Winflex® TriSave climate tape is a high-grade combination product which quickly and securely seals joints to windows and exterior doors in acc. with DIN 4108-7, is state of the art and in line with recommendations of the guidelines of the German RAL quality assurance association for windows and doors.

The special structure of Winflex® TriSave permits sealing in one work step, saving costs and time.

Winflex® TriSave's principle "the inside sealed better than the outside" is implemented through a stretchable, air- and diffusion-tight sealing tape on the inside and a vapour permeable, pre-compressed, wind and driving rain resistant tape on the outside. This provides reliable resistance against rain penetration into the joint and against the effects of UV light and optimally handles structural movement.

Winflex® TriSave also provides thermal and sound insulation in the joint, since it covers the full width of the frame.

Our solvent-free, paste-like, white Winflex® TFS adhesive in the flow pack is ideal as a complementary product for levelling rough irregularities and sealing in corners, if required.

### Composition:

Winflex® TriSave consists of polyurethane soft foams impregnated with flame retarding artificial resin and layered on a self-adhesive substrate. The different interior or exterior side diffusion properties of Winflex® TriSave are achieved by different foams with different properties. A defined distance between the foams on the one hand prevents the Winflex® TriSave from being damaged by the fastening screws when mounted and, on the other hand, contributes to thermal and acoustic insulation after installation through its static air column. For better differentiation also in installed condition, the interior side of Winflex® TriSave is grey, the exterior side is black.

### Winflex® TriSave offers you the following advantages:

- simple, quick and durable sealing of the connection joint in a single work step – clear cost-saving due to time saved
- resistance to driving rain, heat-insulating and airtight – all in a single product
- reliable, simple installation
- absorbing structural movement through stretchability / flexibility
- can be plastered and painted over
- no soiling of window areas through fluid adhesive systems
- contains no solvents or hazardous substances

### Technical data:

Fire behaviour	building material class B 2 (normal flammability)	DIN 4102, Part 1
Resistant to driving rain	fulfils requirements up to 600 Pa	DIN EN 1027
Thermal conductivity	$\lambda_{10} = 0.040 / 0.046 \text{ W} / (\text{m} \cdot \text{K})$	DIN EN 12 667
U-value for 60 mm frame depth	0.7 W / (m <sup>2</sup> ·K)	
for 70 mm frame depth	0.65 W / (m <sup>2</sup> ·K)	
for 80 mm frame depth	0.55 W / (m <sup>2</sup> ·K)	
Air tightness	$a < 0.1 \text{ m}^3 / (\text{h} \cdot \text{m} \cdot (\text{daPa})^n)$ Class 4	DIN 18 542 DIN EN 12 207
Diffusion resistance	$\mu \leq 100$ through different components for interior and exterior side sealing, reliably better sealed on the inside than on the outside	DIN EN ISO 12 572
Acoustic insulation	43 dB in 10 mm joint – sound insulation class 4 60 dB with additional interior joint sealing with SB-Sil N – sound insulation class 6	according to DIN EN ISO 717 Part 1
Thermal resistance	- 30 °C to + 80 °C	
Shelf life	1 year	DIN 53 421
Storage temperature	+ 10 °C to + 20 °C	

**Please note:**

Always store Winflex® TriSave in a temperate climate.

Do not clean using compressed air or solutions with high acetic acid content. Winflex® TriSave should not be exposed to solvent-containing or aggressive chemicals.

Winflex® TriSave may be painted over with water soluble paints.

**Standard dimensions:**

<b>Tape description</b>	<b>Installation depth of the window or door frame</b>	<b>Functional range – joint widths</b>	<b>Length of roll</b>
5 mm x 8 m	60 mm	5 – 10 mm	8 m
	70 mm		
	80 mm		
	90 mm		
7 mm x 6 m	60 mm	7 – 15 mm	6 m
	70 mm		
	80 mm		
	90 mm		
10 mm x 4.5 m	60 mm	10 – 20 mm	4.5 m
	70 mm		
	80 mm		
	90 mm		
15 mm x 6 m	60 mm	15 – 30 mm	6 m
	70 mm		
	80 mm		
	90 mm		

Other dimensions are available on request.

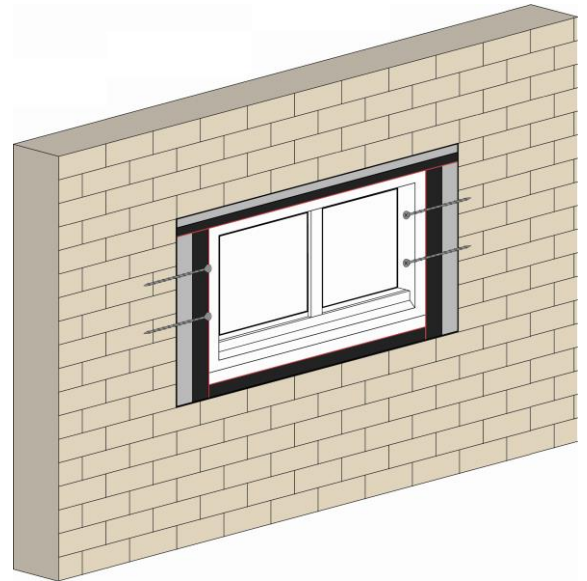
**Expansion behaviour:**

It is the delayed reset, that makes Winflex® TriSave manageable. Expansion behaviour of the tape depends on the temperature of the joint and the environment. At higher temperatures, the tape expands comparatively fast and the construction part has to be installed in short times. Therefore a storage temperature > 20 °C is to be avoided for longer times and the tape should not be stored in direct sun light. At lower temperatures we recommend to store the tape for at least 24 hours before installation at a temperature of around 20 °C. The expansion of the installed tape may be accelerated by warming with a hot-air gun. Warm the tape in pivoting action.

At temperatures above 20 °C Winflex® TriSave should be kept in a cool place even at the construction side, at temperatures below 8 °C Winflex® TriSave should be kept at room temperature even at the construction side, because high temperatures accelerate the expansion of the tape, low temperatures decelerate the expansion.

### Processing notes:

Winflex® TriSave replaces three window joint sealing products with one product, provided the width of the gap is within the expansion range of the tape; gap widths of 5 to 20 mm can be handled with only three tape sizes. The width of the gap is determined by measuring the window frames and the embrasure opening. This is necessary to select the correct tape dimension and to determine the required overhang for the cut lengths at the lintel and on both sides. Cut a length for the lintel area of twice the side gap width + 1 cm and on both sides cut to the length of the gap width of the sill + 1 cm. Cut off the over-compressed beginning and end pieces of the tape. The bonding surfaces on the window frame must be dry and free of oil, grease and dust. If necessary, clean with our Cleaner 10 or Cleaner 20. The cut lengths are then glued to the faces of the prepared window frames. Take note of the interior (grey) and exterior (black) sides of the tape (see also marking in roll core)! This requires careful pressing down, preferably using a pinch roller. This is done by gluing the cut lengths flush with the outer edge, overhanging by the lateral gap width + 0.5 cm on the left and right of the lintel region and on the sides, the cut lengths overhang by 0.5 cm at the top and at the bottom they overhang by the gap width on the sill + 0.5 cm in each case. At the corners Winflex® TriSave is butt joined.



In the sill region, the narrower Winflex® TriSave sill version, specifically designed for use together with a base profile, is glued under the base profile, in each case leaving a 0.5 cm overhang on the left and right.

Our solvent-free, paste-like, white Winflex® TFS adhesive in the flow pack is used for levelling rough irregularities and sealing in corners, in tape joints, or in every gap which may occur.

Remove dirt and mortar residues from the window embrasure. Afterwards, immediately fit the window into the opening, align and fasten. Ensure that the compressed tape is not damaged by the spacers and alignment material or similar.

Our solvent-free, paste-like, system adhesives of the type Fasatan®- / Winflex® TFS or -TFU in the flow pack are used for levelling rough irregularities and sealing in corners, in tape joints, or in every gap which may occur.

The processing temperature (= component temperature) must not be under + 5 °C.

### Attention! Important Note:

Above information are based on best present knowledge of current technology, but do not guarantee faultless processing of our products. The information is based on practical results of our tests, but is not binding and does not constitute warranties of characteristics in terms of Federal Supreme Court jurisdiction. Our information does not constitute a legally binding assurance of certain properties or suitability for a specific purpose. Supplementary information by our specialists are merely recommendations, for which no liability is accepted.

Due to the many possible applications of our products, we recommend subjecting the project to a thorough suitability test on original materials before release for further application.

Since our information are non-binding we do not warranty their correctness. For this reason we accept no liability for possible improper processing based on information submitted by our employees.

This technical data sheet replaces all previous versions and is valid until a new version is issued, or until Dec. 31, 2024. Please request the latest version after Jan. 01, 2025.

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