



# Product Verification

## Sustainability

according to BNB BN 2015

according to BREEAM International New Construction 2016

according to DGNB NBV 2015

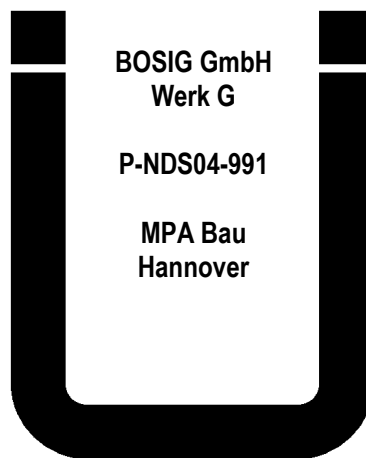
according to DGNB Gebäude Neubau 2018

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



### Product description:

The climate tape Winflex® TriSave eco is a pre-compressed, specially impregnated connection tape for the sealing and heat and sound insulation of connecting joints in windows and external doors. Winflex® TriSave eco fulfils all requirements for seals that are airtight and resistant to driving rain. It has heat and sound insulation properties and is airtight and vapour inhibiting to the inside. Winflex® TriSave eco reduces the work necessary for the window connection to a single step. Winflex® TriSave eco is characterised by simple, safe, time saving and easy assembly so that the window can be connected quickly and smoothly. The climate strip Winflex® TriSave eco guarantees good joint drying. It conforms to the requirements of DIN 4108-7.

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

- Tested by MPA Bau Hanover and ift Rosenheim
- Extremely reasonably priced, very simple, fast and long-lasting sealing and insulation of the connection joint in a single step – a clear cost saving through this time advantage
- Both sides of Winflex® TriSave eco are airtight – it can be used on both sides – no risk of confusion
- Building materials load classification BG 1 to DIN 18542: Sealed against driving rain > 600 Pa  
Air tight  $a < 0.1 \text{ m}^3 / (\text{h} \cdot \text{m} \cdot (\text{daPa})^n)$
- Material class B1 in accordance with DIN 4102
- Very good sound insulation values
- Heat insulating
- Permanent joint drying
- Good compatibility with adjacent materials
- Reliable, simple assembly
- Long term absorption of building movement through elasticity / flexibility
- Can be plastered and painted over
- No soiling of the window surface using liquid adhesive systems
- Contains no solvents or hazardous substance

### Technical data:

Building materials load classification	BG 1	DIN 18542
Fire behaviour	building material class B 1 (flame retardant)	DIN 4102, Part 1
Resistant to driving rain	fulfils requirements up to 600 Pa	DIN EN 1027
Thermal conductivity	$\lambda_{10} = 0.040 \text{ W} / (\text{m} \cdot \text{K})$	DIN EN 12667
U-value for 60 mm frame depth	$0.65 \text{ W} / (\text{m}^2 \cdot \text{K})$	
for 70 mm frame depth	$0.60 \text{ W} / (\text{m}^2 \cdot \text{K})$	
for 80 mm frame depth	$0.50 \text{ W} / (\text{m}^2 \cdot \text{K})$	
Air tightness	$a < 0.1 \text{ m}^3 / (\text{h} \cdot \text{m} \cdot (\text{daPa})^n)$ Class 3	DIN 18 542 DIN EN 12207
Diffusion resistance	$\mu \leq 100$	DIN EN ISO 12572
Acoustic insulation	43 dB in 10 mm joint – sound insulation class 4 60 dB with additional interior joint sealing with SB-Superacryl– sound insulation class 6	according to DIN EN ISO 717 Part 1
Thermal resistance	- 30 °C to + 80 °C	
Processing temperature	+ 5 to + 25 °C	
Shelf life	1 year	DIN 53421
Storage temperature	+ 1 °C to + 20 °C	

### Please note:

Always store Winflex® TriSave eco in a temperate climate.

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

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

**Standard dimensions:**

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

Other dimensions are available on request.

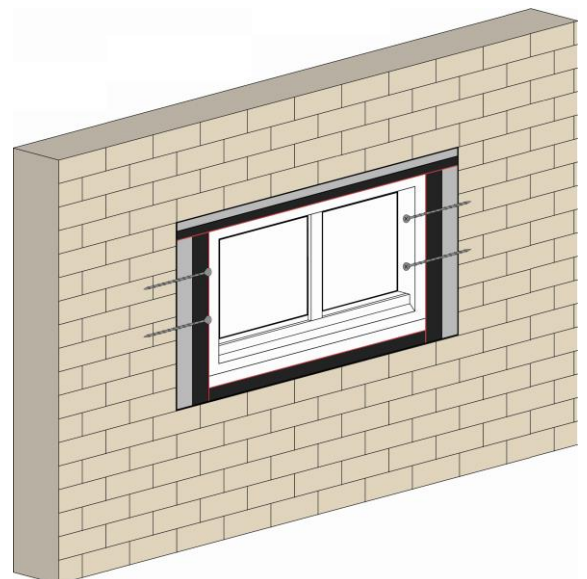
**Processing notes:**

Winflex® TriSave eco can replace three sealing products at the window connection joint with just one as long as the joint width is within the expansion range of the strip, whereby joint widths from 5 to 20 mm can be covered with only three strip dimensions.

Determine the remaining joint width by measuring the window frame and the reveal opening. This is necessary in order to select the correct strip dimension and to determine the necessary excess for lengths at the lintel and on both sides. In the lintel area the length must be cut to 2 x the side joint width +1 cm longer and on both sides the lengths must be selected the joint width of the parapet + 1cm longer. Cut off the over-compressed sections at the beginning and end of the strip.

The adhesion areas on the window frame must be dry and free of oil, grease and dust. Cleaning may be necessary using our cleaning materials - Cleaner 10 or Cleaner 20. The lengths are then attached on the faces of the prepared window frame. Careful pressure is necessary here, preferably using a pressure roller. This is carried out in such a way that the lengths are attached so they are level with the outer edge,

whereby the length exceeds by the side joint width by +0.5 cm at the left and right in the lintel area and the lengths are fitted at the sides with 0.5 cm excess at the top and the joint width of the parapet + 0.5 cm at the bottom. There is no need to differentiate between the room and outdoor sides and there is no risk of confusion. Winflex® TriSave eco is butt jointed at the corners.



For the parapet area use the narrower Winflex® TriSave eco for the parapet as it is specially designed for use in conjunction with a base profile and attach it with 0.5 cm excess on the left and right below the base profile.

Clean dirt and residual mortar from the window reveal. The window is then immediately fitted into the opening, aligned and fixed. Please ensure that the compressed strip is not damaged by the underlay and alignment materials 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) may not fall below + 5 °C.

### 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.

### 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, 2023. Please request the latest version after Jan. 01, 2024.

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