



# 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

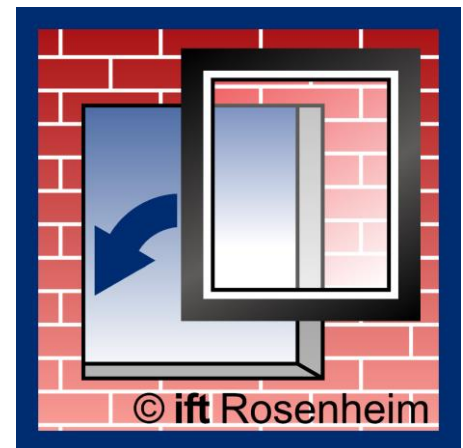
according to LEED Building Design and Construction V3 (2009)

according to LEED Building Design and Construction V4 (2015)

Winflex® Optima Vario has been tested by ift-Rosenheim  
Test report number: 19-001489-PR04(PB-E03-020310-de-01),

Tested performance characteristics:

- Receiving inspection according to ift-Guideline MO-01/1:2007-01
- Air permeability in new condition according to EN 12114:2000-03
- Thermal cycling according to ift-Guideline MO-01/1:2007-01
- Mechanical durability following EN 1191:2000-02
- Resistance to wind load -alternating positive and negative pressures following EN 12211:2016-03
- Air permeability after load tests according to EN12114:2000-03
- Dismantling and inspection according to ift-Guideline MO-01/1:2007-01



Winflex® Optima Vario is a special membrane for fast and reliable sealing of abutment joints on windows and exterior doors in accordance with the recommendations of the RAL Quality Assurance Association installation guidelines for windows and front doors and DIN 4108-7. Winflex® Optima Vario has a special structure allowing it to stretch in the transverse direction for optimal absorption of structural movement. This directional flexibility guarantees durable sealing of abutment joints. Winflex® Optima Vario allows the abutment joint to dry out from the inside or outside, depending on weather conditions, since the Winflex® Optima Vario water vapour diffusion characteristics allow it to adapt to the physical properties of the building structure, thus assisting optimal drying of the abutment joints. The same Winflex® Optima Vario tape can be used for internal and external sealing, in both cases blocking moisture from penetrating the joint.

The underside of the self-adhesive tape is full-surface coated with the BOSIG High Tack adhesive, which is an extremely aggressive adhesive. This allows application even at low temperatures. The split cover foil on this self-adhesive layer allows particularly easy and time saving application.

Winflex® Optima Vario may be plastered and painted over and is fully concealed after installation.

### Winflex® Optima Vario offers you the following advantages:

- a single tape for internal and external abutment joint sealing – no danger of confusion, reliable planning, reducing stocks by half
- numerous variants for any installation situation
- optimal drying of the abutment joint
- structural movements are absorbed thanks to transverse stretchability / flexibility
- durable sealing ensured
- can be painted and/or plastered over
- no fluid adhesive systems to soil the window surfaces
- solvent-free
- good compatibility with acrylic glass and polycarbonate
- strong adhesion of the adhesive strip to all types of window frames
- full-surface self-adhesive tape underside with application-friendly, split cover foil, equipped with the BOSIG High Tack adhesive
- perfect handling and optimal workability due to soft and pliable consistency and many types with and without self-adhesive strips to match all structural conditions
- no additional adhesives required for application, rendering application particularly easy and time-saving
- especially suited for wooden frame construction

### Technische Daten:

Colour	beige	
Base	high-grade polymer membrane, coated on both sides with fibrous web	
Temperature resistance	- 40 °C to + 80 °C	
Processing temperature	recommended + 5 °C to + 35 °C, possible from – 10°C	
UV resistance (outdoor weathering)	3 months max.	
s <sub>d</sub> value	0.1 to 6.6 m, depending on humidity	based on DIN EN ISO 12572
Fire behaviour	Fire Classification E, normally inflammable	DIN EN 13501 – 1
Width	70, 100, 150 mm auf Wunsch sind andere Breiten von 50 mm bis 500 mm gerne möglich	
Length of roll	40 m	
Max. tensile force	lengthwise	> 450 N / 5 cm
	across	> 70 N / 5 cm
Elongation	lengthwise	> 20 %
	across	> 110 %
Air tightness	a < 0.1 m <sup>3</sup> / (m·h·(daPa <sup>2/3</sup> )), airtight	DIN 4108, based on DIN EN 1026
Tightness for driving rain	≥ 1050 Pa	based on DIN EN 1027
Water pressure resistance	≥ 200 cm water column	DIN EN 20811

### Processing notes:

The bonding surfaces must be smooth dry, free of oil, grease and dust, and firm, stable, and load bearing. The jambs and reveals have to be smoothed out according to Din 4108, part 7 for installation of Winflex® Optima. Especially in low temperatures, it must be ensured that all bonding surfaces are free of any frost and ice. It is necessary to prime the substrate in several cases, e.g. with absorbent substrates and / or for instance to stabilise friable surfaces. We recommend our **Multi Primer / Multi Primer for spraying** in such cases. Application at 0 to - 10 °C will reduce initial adhesion. Although application is possible at such temperatures, high final strength will need longer time of contact.

### Winflex® Optima Duo:

Spool Winflex® Optima off the reel and cut to length with at least 5 cm to spare. Peel the cover foil off the self-adhesive strip and press the latter to the back of the window frame. Proceed in this way on all sides of the window frame to be sealed. The window frame can now be aligned and fastened. The cavity between window and wall can now be filled with the requisite volume of insulating material. Our **Combband 600** is suited for this purpose.

The split protective foil on the full-surface self-adhesive layer is peeled off as required and the tape carefully pressed onto the substrate. Ensure that the tapes overlap in the corners! Use a pressure roller to achieve optimal initial adhesion.

### Winflex® Optima Mono:

The window element is aligned and fastened and the cavity between window and wall filled with a suitable quantity of insulating material. Our **Combband 600** is suited for this purpose. Winflex® Optima Mono is spooled off the reel and cut to length with at least 5 cm to spare. The split protective foil on the full-surface self-adhesive layer is peeled off as required and the tape is carefully pressed onto the substrate and window frame.

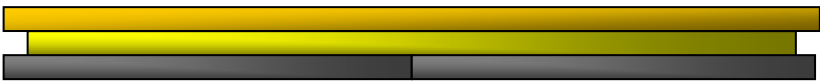
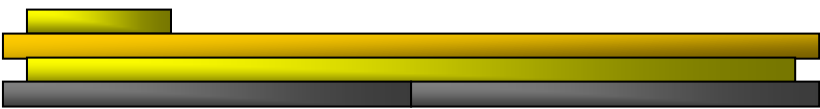
Ensure that the tapes overlap in the corners! Use a pressure roller to achieve optimal initial adhesion.

The fibrous web coated side of the tapes can now be plastered over with commercial mortars or painted with emulsion paints!

### Storage:

12 months from date of manufacture in sealed original packaging in a properly ventilated storage area at temperatures between + 10 °C bis + 25 °C.

Winflex® Optima is available in the following types:

Types:	
<b>Mono</b>	 <p style="text-align: center;">Winflex® Optima Mono with full-surface coating and split cover foil for easy installation</p>
<b>Duo</b>	 <p style="text-align: center;">Winflex® Optima Duo with full-surface self-adhesive coating and split cover foil for easy installation, additionally with 20 mm wide self-adhesive layer for fixing to the window frame</p>

### 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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