



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 ES inside (white = vapour impermeable) and outside (black = vapour permeable) sealing bands are a system of tapes to quickly and safely seal connecting frames to windows and outside doors according to the recommendations contained within the RAL Quality Association's assembly guidelines for windows and front doors and DIN 4108-7. The combination of Winflex® Optima ES inside and Winflex® Optima ES outside guarantees the correct sd value of nearly 10 / 1 inside > outside as required by building physics without the possibility of moisture penetration from the outside of the joint.

Due to their special structure, Winflex® Optima ES inside and Winflex® Optima ES outside are elastic and can adapt optimally to structural movement. This directional flexibility ensures long-lasting sealing of connecting joints.

The all-over self-adhesive underside of the band is equipped with BOSIG High Tack adhesive. This product has extremely effective adhesive properties, facilitating processing even at low temperatures. Thanks to the separated covering film on the self-adhesive layer, processing is especially easy, straightforward and time-saving.

Winflex® Optima ES inside and Winflex® Optima ES outside can be plastered and painted over so that they can be completely hidden from view when assembled.

Winflex® Optima ES inside and Winflex® Optima ES outside offer you the following benefits:



- Building movement can be contained thanks to their elasticity and flexibility.
- Numerous variants for every assembly situation.
- Provide lasting sealing for connecting joints.
- Can be plastered and painted over.
- Their liquid adhesive system ensures that the window area stays clean.
- Solvent-free.
- Made from BOSIG High Tack adhesive, the assembly strips adhere strongly to all types of window frames.
- Fully self-adhesive band underside with easy to process separated covering film, equipped with BOSIG High Tack adhesive.
- Perfect handling and optimal workability due to their soft and supple properties. Numerous variants available, with and without self-adhesive strips, in order to respond to all kinds of building conditions.
- No additional adhesives required for processing, ensuring particular ease of processing and saving you time.
- Particularly suitable for wood frame.

Winflex® Optima ES inside - Winflex® Optima ES outside

Technische Data:

		Winflex® Optima ES inside	Winflex® Optima ES outside	
Colour		white (vapour impermeable)	black (vapour permeable)	
Base		high-grade Polymer film, coated with non-woven polyolefin		
Temperature resistance		- 40 °C to + 80 °C		
Application temperature		recommended + 5 °C to + 35 °C, possible from - 10°C		
Width		70, 100, 150 mm		
		other widths from 50 to 500 mm are available upon request		
Length of roll		40 m		
Max. tensile strength	lengthwise	> 130 N / 5 cm	> 130 N / 5 cm	DIN EN 12311 – 2/A
	across	> 70 N / 5 cm	> 70 N / 5 cm	
Stretchability at max. tensile strength	lengthwise	> 70 %	> 70 %	DIN EN 12311 – 2/A
	across	> 90 %	> 120 %	
Fire behaviour		Fire classification E, normally inflammable		DIN EN 1 501 – 1
Air tightness		a < 0.1 m³ / (m·h·(daPa ^{2/3})) airtight		DIN 4108, based on DIN EN 1026
Tightness for driving rain			≥ 1050 Pa	based on DIN EN 1027
Water pressure resistance		≥ 400 cm water column		DIN EN 20811
s _d -value of the entire product		approx. 30 m	approx. 3.8 m	DIN EN ISO 12572
UV resistance in outdoor weathering		no (interior application)	max. 6 months	

Winflex® Optima ES inside and Winflex® ES Optima outside are available in the following types:

<h2>Types:</h2>	
<h3>Duo</h3>	 <p>Winflex® Optima ES with all-over self-adhesive coating and separated covering film for easy assembly, with an additional 20mm-wide self-adhesive layer for fixing to a window frame made from BOSIG High Tack adhesive.</p>
<h3>Mono</h3>	 <p>Winflex® Optima ES with all-over self-adhesive coating and separated covering film for easy assembly, made from BOSIG High Tack adhesive. Without top surface self-adhesive layer for fixing to a window frame.</p>
<p>Our BOSIG High Tack adhesive provides decisive advantages for perfect mounting.</p> <ul style="list-style-type: none"> • adheres very effectively, even at -10°C • a high degree of thermal stability up to +80°C • an exceptionally high degree of initial adhesion • highly resistant to moisture • optimal bonding between the non-woven carrier and BOSIG High Tack adhesive, even after immersion in water 	

Processing notes:

The bonding surfaces must be smooth, dry, free of oil, grease and dust, and inherently stable and with load-bearing ability. To install Winflex® Optima ES, it is necessary to smooth finish the inside of the embrasure as per DIN 4108-7 with plastering. It must be ensured, especially in low temperatures, 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.

Unroll Winflex® Optima ES inside / outside from the spool and cut to an overlength of at least 5 cm. Pull the covering film from the self-adhesive strip and press onto the back of the window with a pressure roller. Proceed in this manner with all sides of the window to be covered. This process aligns and secures the window element. The hollow space between the window and the wall can be filled only by using insulating material.

The separated protective film on the all-over self-adhesive coating can be removed as required and the tape can be fixed carefully to the subsurface. Watch out for overlapping bands in the corners! Optimal initial adhesion is achieved by using a pressure roller. You can plaster over the non-woven coated side of the bands with standard-use mortar or paint over them with construction paint!

Storage:

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