

Reference: D09-1433 / 31.08.2012



Product Declaration - DGNB Neubauversion Büro- und Verwaltungsgebäude (NBV09)

Manufacturer **BOSIG GmbH**

Product Name **Winflex® interior - Winflex® exterior**



Product Rating

• The product fulfills the requirements of action level 1 to 4 and contributes to achieve 10 (of max. 10) criterion points within Criterion 06 'Risks for the regional environment'.

Reference: L09-1433 / 31.08.2012



Produkt Declaration - LEED® 2009 New Construction And Major Renovations NC & CS

Manufacturer **BOSIG GmbH**

Product Name **Winflex® interior - Winflex® exterior**



Product Rating

The product is not applicable to any LEED credits.



Registered in the PRONOTA Positive List for Building Products, suited for DGNB® – certified buildings.

Certification:

The emission behaviour of Winflex® has been tested independently by the institute for analytic Aurachtal. Winflex® has been proved and tested to be very low-emission and particularly does not contain any halogenated flame retardant substances. Winflex® therefore is registered in the PRONOTA Positive List for Building Products and is suited to be used for DGNB® (Deutsche Gesellschaft für Nachhaltiges Bauen e. V.) – certified buildings.

Winflex® interior / Winflex® exterior are tested by



Winflex® interior (red = water-vapour-proof) and Winflex® exterior (white = water vapour permeable) is a system of sealing tapes to seal connection joints on windows and outer doors quickly and safely, vapour proof on the inside and vapour permeable on the outside, according to ENEC, DIN 4108 – 7 as well as recommendations of the guidelines of the German RAL quality assurance association for windows and doors.

The combination of Winflex® interior and Winflex® exterior ensures a proper construction physical gradient of s_d value of $> 10 / 1$ interior / exterior, eliminating infiltration of moisture from the outside of the joint.

Due to their special construction, Winflex® interior and Winflex® exterior tapes are flexible in crosswise direction, which allows them to optimally absorb movements within the building. Due to this pointed flexibility, the permanent seal of window joints is ensured.

Winflex® interior and Winflex® exterior sealing tapes can be plastered over and painted, therefore they can be very easily covered completely. The connection with the window frame can be sealed permanently and reliably with the special self-adhesive strip while our white adhesive pastes Winflex® TFS or Winfix in a squeeze tube as well as a strip of butyl rubber adhesive on the tape can be used for a permanent seal to the wall or soffit. Also Winflex® TFS or Winfix can be used to properly even out any bumps.

Winflex® interior and Winflex® exterior sealing tapes offer the following advantages:

- due to their flexibility in crosswise direction they compensate for any building movements
- they therefore provide a permanent seal
- they can be plastered over and painted
- there are no dirty window surfaces due to liquid adhesive systems
- they contain no solvents, either on the adhesive strip on the seal nor in the Winflex® TFS or Winfix from the tubular bag
- they offer significant savings due to time advantages
- they are compatible with acrylic glass and polycarbonates
- they provide high adhesion of the sealing strip on all types of window frame

In addition to the combination of Winflex® interior / Winflex® exterior, the following material combinations can be used as inside / outside seals:

Inner seal		Outer seal
<ul style="list-style-type: none"> • Inside Alu • Inside Mono / Duo • Winflex® interior • Sealants such as SB-Acryl, SB-Superacryl / SB Sil-N 	combined with	<ul style="list-style-type: none"> • Winflex® exterior • Outside Mono / Duo • compressed foam tape Combband





Possible combinations with Winflex® interior or Winflex® exterior for inner and outer seals depending on s_d value.

Technical data:

		Winflex® interior	Winflex® exterior	
Colour		red (vapour-proof)	white (vapour permeable)	
Basis		high quality polymer foil, non-woven material lining on both sides		
Temperature resistance		- 30 °C to + 80 °C		
Shelf life		a minimum of 12 months at + 10 °C to + 25 °C in original packaging		
Processing temperature		+ 5 °C to + 35 °C		
Width		available in widths from 50 mm to 500 mm		
		80 m for standard version		
		40 m for A version		
		20 m for B and C versions		
Max. tensile strength	linear	> 450 N / 5 cm	> 450 N / 5 cm	DIN EN 12 311 – 2 / A
	lateral	> 80 / 5 cm	> 80 N / 50 mm	
Elongation at max. tensile strength	linear	> 20 %	> 20 %	DIN EN 12 311 – 2 / A
	lateral	> 100 %	> 140 %	
Fire behaviour		building material class B2 fire behaviour Class E airtight		DIN 4102 – 1 DIN EN ISO 11925 - 2 DIN 4108 – 7
Air tightness				
Water pressure proof – Driving rain proof		> 200 cm water column		DIN EN 20811
S _d value		approx. 55 m	approx. 0.1 m	DIN EN ISO 12 572 DIN EN 1931
UV- / weather resistance		3 months max.		

Winflex® interior and Winflex® exterior are available in the following versions:

Versions:

Standard	 <p>Winflex® without self-adhesive coating</p>
A	 <p>Winflex® with 20 mm wide special self-adhesive strip for installation on window frame and installation with Winflex® TFS or Winfix on wall or soffit</p>
B	 <p>Winflex® with 20 mm wide special self-adhesive strip for installation on window frame and a butyl adhesive strip for installation on wall or soffit, on one side of the tape</p>
C	 <p>Winflex® with 20 mm wide special self-adhesive strip for installation on window frame and a butyl adhesive strip for installation on wall or soffit, on alternate sides of the tape</p>

When using versions with butyl rubber adhesive strip, an additional mechanical mount or additional adhesion with Winflex® TFS or Winfix is required for foil widths of more than 150 mm (facade area).

Processing notes:

The mounting surfaces must be clean and dry, free of oil, grease or dust and they must be stable. For porous and absorbent surfaces, we recommend a pre-treatment with our special **Multi Primer** when using Winflex® versions with butyl adhesive strips. Roll Winflex® interior and Winflex® exterior off the spool and cut about 10 cm longer than needed. Pull off the covering and press the mounting strip carefully on the window frame. Proceed the same way on all sides of the window to be sealed. Now align and attach the window element. Then fill the gap between the window and the wall with the correct amount of insulating material. Our pre-compressed PU foam tape **Combband 600** is especially suited for this purpose.

Now use Winflex® TFS or Winfix in the squeeze tube on the wall or soffit. Apply one or several thick beads, then smooth out with a spatula for a neat finish. After that, the Winflex® tapes are glued very carefully into this adhesive layer.

Or pull the protective foil from the butyl adhesive strip and carefully place the tape on the surface.

Make sure that the corners overlap! Use a pressure roller for optimum adhesion. For a clean plastering job, make sure that the complete area of the strip to be covered is properly adhered to the mounting surface. Make sure there are no gaps underneath the strips!

The tapes therefore can even be used on uneven surfaces.

The non-woven covered side of the strips can now be plastered over with commercially available mortar or painted with exterior paint!

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, 2014. Please request the latest version after Jan. 01, 2015.

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