

System Product Data Sheet

Edition 11/12/2014

Identification no:

02 05 08 30 102 0 000001

Sika® WindowTape One

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System Description	The Sika® WindowTape One is a multifunctional special tape with outstanding qualifications. The tape is 100% airtight ($\alpha = 0.00\text{m}^3 / [\text{h m (daPa)}^{2/3}]$) and lowers the loss of convection heat substantially. The Sika® WindowTape One has an optimal vapour diffusion gradient from inside to outside (50:1) which assures an efficient humidity transport towards the cooler side and a fast drying of the joint. The driving rain tightness is $\geq 1000\text{Pa}$ which ensures highest safety.
Uses	The Sika® WindowTape One is an all in one tape that fulfils all requirements of the energy conservation regulations (EnEV) and the RAL instructions. It is used to seal joints between window / door frames and adjacent building components. The tape consists of three parts: The high driving rain tightness ($\geq 1000\text{Pa}$) ensures high safety from the outside influence, the middle part ensures reliable thermal and sound insulation and the inner side guarantees absolute air tightness.
Characteristics / Advantages	<ul style="list-style-type: none">■ 100% air tightness,■ Driving rain tightness $\geq 1000\text{Pa}$,■ Thermal & sound insulation■ Optimal humidity transport towards outside■ Reduced convection heat loss■ Cost reduced installation (only one product necessary)■ Suitable for "Passive-House" standards■ Fulfils energy conservation regulations (EnEV) and RAL instructions
Tests	
Approval / Standards	Fire resistance class B1 DIN 4102 ift Rosenheim external control Complies with DIN 18542:2009 BG 1 / BG R EC-1 ^{plus}
Product Description	
Form	Pre-compressed rolls
Colour	Black
Packaging	See dimensioning
Storage	
Storage Conditions / Shelf Life	12 months from date of production if stored in undamaged, original sealed containers, in dry conditions and protected from direct sunlight and temperatures between -5°C and $+30^\circ\text{C}$.



Technical Data

Chemical Base	Impregnated PUR soft foam with special foil	
Classification	BG1 and BG R	DIN 18542
Joint permeability coefficient	$\alpha = 0.00\text{m}^3 [\text{h m (daPa)}^{2/3}]$ ift Rosenheim external controlled	DIN EN 1026
Driving rain tightness	$\geq 1000 \text{ Pa}$	DIN EN 1027
S_d –Value (from inside towards outside)	50 :1 (inside $\geq 25\text{m}$; outside $\leq 0.5\text{m}$)	DIN EN ISO 12572
Thermal conductivity	$\lambda = 0.048 \text{ W/m K}$	DIN EN 12667
U-value Frame thickness 60mm / 70mm / 80mm	$U = 0.8\text{W}/(\text{m}^2 \text{K})$ $U = 0.7\text{W}/(\text{m}^2 \text{K})$ $U = 0.6\text{W}/(\text{m}^2 \text{K})$	DIN 4108-3
Sound insulation	45 dB in 10mm joint width	
Compatibility with adjacent materials	Requirements fulfilled	DIN 18542
Fire Rating	B1	DIN 4102
Temperature stability range	-30°C to +80°C	

System Information

Dimensioning	e.g. term 64 / 3-18 stands for:	
	1st figure: 64 =	corresponds to the thickness of window frame (here =70mm frame)
	2nd figure: 3-18 =	3-18 mm =min – max width of joint

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Width of tape / application range	Thickness of frame	Width of joint	Length of roll m	Packaging content m
64 / 3-18	70	3-18	20	120
74 / 3-18	80	3-18	20	100
64 / 5-30	70	5-30	12	72
74 / 5-30	80	5-30	12	60

Other dimensions on request.

Substrate Quality	Clean and dry, homogeneous, even, free from grease, dust and loose or friable particles. Paint, laitance and any other contaminants must be removed. Window frame must be clean and free from grease.
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Application Conditions / Limitations

Ambient Temperature	Between +1°C and +30°C.
Tape Temperature	Between +1°C and +30°C. Warmth accelerates the expansion of the tape; cold temperatures decelerate the expansion of the tape. Best results are achieved if tape is installed with temperatures around 23°C.

Application instructions

Preparation work

- 1) Clean window reveal from dust and residual mortars. Surface of window reveals have to be smooth mortar.
- 2) Measuring the window reveal.
- 3) Evaluate thickness of window frame and maximum joint with.
- 4) Tape dimensioning according to window frame thickness and the recommended width of joint –see packaging label
- 5) Length of tape to be evaluated by measuring single sides of the window frame. Additional length has to be added for expansion and edges (approx. 20 mm per edge).

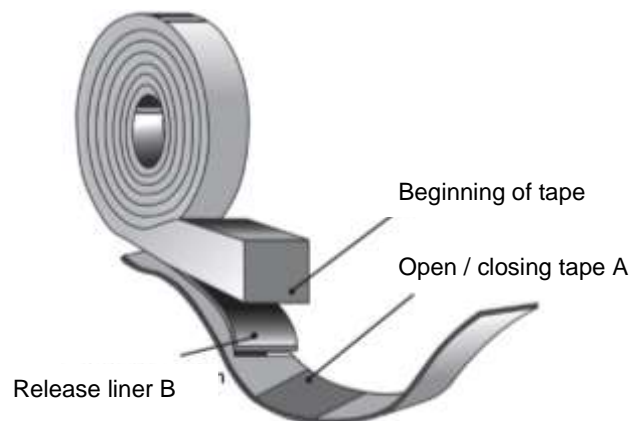
Important advice: Expansion time: Warm temperatures accelerate the expansion of the tape; cold temperatures decelerate the expansion of the tape. Best results are achieved if tape is installed with temperatures around 23°C.

Application (please consult the Method Statement)

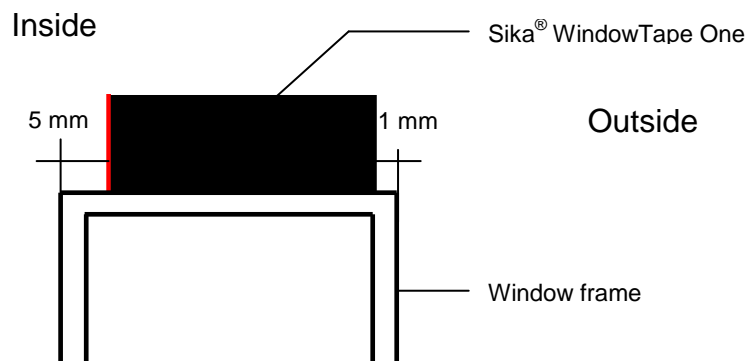
- 1) Open the tape: Cut the blue opening/closing tape A with scissor or knife. Release blue tape from the airtight foil.

Advice: After cutting to length re-use blue tape to close the roll. Otherwise the tape will expand and cannot be used for other jobs (expansion cannot be reversed).

- 2) Cut the tapes' end straight and loosen the release liner B.



- 3) Press adhesive side of tape onto clean window frame tightly. Beginning and end of tape have to be joint with an over length of 10-20 mm. The tape has to be 6 mm smaller than the thickness of the window frame. The Tape should be positioned 1 mm from the frame outside and 5mm from the frame inside



- 4a) in case the tape is mounted in one piece around the frame (joint less edges) than the mounting of the tape starts on the frame upper / top side.

Corners: The tape is mounted in a loop around the window frame. The length of the loop should be approx. 2/3 of the joint thickness. (E. g. joint thickness 15 mm, length of the loop 10 mm)

4b) In case the tape is not mounted in one piece, (=cut at the corners) then start with the lower horizontal part. The tape is cut and mounted bluntly.

Sealing against standing water: for sealing against standing water at the window sill, we recommend SikaMembran® Window Outside. Please mount the membrane around the lower corners up to a height of approx. 10 cm.

Fixing of window with screws: The trill holes in the window frame can be made through the Sika® WindowTape One. In order not to shift the tape, it is recommended to hold it tightly during trilling the trill hole.

Joints: the SikaWindowTape One can be jointed dull edged. In order to have a tight joint the tape should be approx. 20 mm longer

Sealing of corners after installation of window: Corners and joints of the Sika® WindowTape One are sealed with Sikaflex® AT-Connection after mounting

Value Base

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Local Restrictions

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

Legal Notes

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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