

# Self-regulating sound absorbing window ventilator

## DUCO Ventilation & Sun Control

### GlasVent 100 SR AK

#### Description

This new window ventilator with acoustic damping can be used for all glass thicknesses from 8\* to 56 mm! Mounting is possible above the glass (subtraction 100 mm) or as transom mounting. The **GlasVent 100 SR AK** is ideal in combination with vacuum glass (for glass thicknesses of 8 to 12 mm). The aluminium ventilation flap ensures excellent water and wind tightness. This aesthetic acoustic vent can therefore be used in high-rise buildings without any problems.

#### Version

##### Mounting

- Fitting over glass / transom mounting.
- Stepped rebate flange with glass profile for fitting over glass.
- With rectangular profile for transom mounting.

##### Self-regulating flap

- The standard self-regulating flap (SR flap) works mechanically. The standard self-regulating flap (SR flap) works mechanically.
- The SR flap responds excellently at a pressure difference from 1 Pa, ensures a constant flow rate, prevents draughts, limits energy loss and limits over-ventilation.

##### Vent construction

- The operable aluminium flap ensures a very high level of wind and water tightness.
- The inner profile with perforation is easy to remove, easy to clean and insect-resistant.

### Fitting over glass

- Stepped rebate flange with glass profile.

	Dimension (mm)												
<b>Glazing channel</b>	16	16	18	26	30	34	38	42	46	50	54	58	62
<b>Glass thickness**</b>	8*	10	12	20	24	28	32	36	40	44	48	52	56
<b>Vent depth</b>	162												

\* Glass thickness 8 mm is possible in combination with a 16 mm glazing channel. This involves using a putty replacement kit, putty sealant or sealant such as Renoseal, Monuseal and Dow corning. Glass thicknesses from 10 mm can be used with glazing rubber.

\*\* The specified glass thickness is applicable with (DUCO) glazing rubber. For sealants, a minimum of 4 to a maximum of 8 mm must be provided between glass thickness and glazing channel.

### Transom mounting

- Stepped rebate flange as top profile.
- Rectangular profile for transom mounting at the bottom.

	Dimension (mm)		
<b>Rectangular profile</b>	40 x 20	40 x 25	40 x 35
<b>Top profile</b>	20	24	36
<b>Glazing channel</b>	26	30	42
<b>Vent depth</b>	162		

### Scope of application

- Up to a building height of 40 metres.
- Applicable to all glass thicknesses from 8\* to 56 mm.
- Ideal in combination with vacuum glass.
- Leader for renovation projects.

## Material and surface treatment

### Profiles and controllable flap

- Aluminium                      EN AW-6063 T66
- Finish
  - Natural anodised (15-20 µm) according to Qualanod
  - Polyester powder coated (60-80 µm) according to Qualicoat Seaside type A (specific RAL codes or textured paint on request)
    - DUCO300RAL
    - Duco Anodic Ral (DAR)
    - Bi-color (different color on the inside and outside)

### Coupling pieces, SR flap, end pieces and flap control

- Plastic                              ABS and Polypropylene  
Impact resistant, colourfast and weatherproof
- Finish
  - White / grey / black

### Acoustic material AK

- Composite foam                      10, 60, 80, 100 kg/m<sup>3</sup>

## Technical specifications

### U-value

Type	U-waarde in W/m <sup>2</sup> /K closed position	Inside surface temp factor f
<b>GlasVent 100 SR AK</b>	2.09	0.69

According to EN 10077-2

### Ventilation values

Type	Flow rate (Q) in l/s/m at ...				Flow rate (Q) in m <sup>3</sup> /h/m at ...			
	1 Pa	2 Pa	10 Pa	20 Pa	1 Pa	2 Pa	10 Pa	20 Pa
<b>GlasVent 100 SR AK</b>	15.6	21.5	29.1	25.5	56.2	77.4	104.8	91.8

According to EN 13141

Type	Equivalent area at 1 Pa in mm <sup>2</sup> /m	Geometrical free area in mm <sup>2</sup> /m
<b>GlasVent 100 SR AK</b>	19841.6	17000

According to EN 13141

### Sound reduction

Type	D <sub>n,e</sub> , W (C;Ctr) in dB	
	OPEN position	CLOSED position
<b>GlasVent 100 SR AK</b>	33 (-1;-2)	51 (-1;-4)

According to EN ISO 717

Water tightness (in closed position)	600 Pa
Air tightness (in closed position)	600 Pa
Subtraction of glass height	100 mm
Rebate	25 mm
Operation	... Stepless with <ul style="list-style-type: none"> <li>• handle</li> <li>• rod</li> </ul>
Split as from flap length	2000 mm
Finish	Glazing bars, sealant, tape and glazing rubber
Insect protection	Removable, punched inner profile

### Fitting over glass

Vent height	116 mm
Vent length	... mm Maximum 2500 mm under warranty.

### Transom mounting

Vent height	140 mm
Vent length	... mm Maximum 4000 mm under warranty.

## Standards and certificates

### Standards

DUCO has tested the window ventilator in according with the applicable regulations:

- NEN EN 13141-1:2019
- NEN EN 10077-2:2017
- NEN EN 1026:2016
- NEN EN 1027:2016
- NEN EN ISO 717-1:2021

### Certificates

In addition, DUCO has the following attestations and certificates:

- AluEco certificate

Various digital drawings (PDF, DWG, IFC, Revit) are available.

Please consult your regional dealer or the DUCO 'Ventilation & Sun Control' project department for commercial and technical support (mounting instructions, parts lists, calculations, ...).