# 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) | | | | | | | | | | | | |
| Glazing channel | 16 | 16 | 18 | 26 | 30 | 34 | 38 | 42 | 46 | 50 | 54 | 58 | 62 |
| Glass thickness\*\* | 8\* | 10 | 12 | 20 | 24 | 28 | 32 | 36 | 40 | 44 | 48 | 52 | 56 |
| Vent depth | 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) | | |
| Rectangular profile | 40 x 20 | 40 x 25 | 40 x 35 |
| Top profile | 20 | 24 | 36 |
| Glazing channel | 26 | 30 | 42 |
| Vent depth | 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/m3

## Technical specifications

### U-value

|  |  |  |
| --- | --- | --- |
| Type | U-waarde in W/m2/K closed position | Inside surface temp factor f |
| GlasVent 100 SR AK | 2.09 | 0.69 |

According to EN 10077-2

### Ventilation values

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Type | Flow rate (Q) in l/s/m at … | | | | Flow rate (Q) in m3/h/m at … | | | |
| **1 Pa** | **2 Pa** | **10 Pa** | **20 Pa** | **1 Pa** | **2 Pa** | **10 Pa** | **20 Pa** |
| GlasVent 100 SR AK | 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 mm2/m | Geometrical free area in mm2/m |
| GlasVent 100 SR AK | 19841.6 | 17000 |

According to EN 13141

### Sound reduction

|  |  |  |
| --- | --- | --- |
| Type | Dn,e,W (C;Ctr)  in dB | |
| **OPEN position** | **CLOSED position** |
| GlasVent 100 SR AK | 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   * handle * rod |
| 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, …).