ABOUT REYNAERS ALUMINIUM

Reynaers Aluminium is a leading European provider of innovative and sustainable architectural aluminium solutions. These include a wide variety of window and door systems, curtain walling, sliding systems, sun screening, conservatories, skylights, screens and systems to incorporate blinds and ventilation grids. Established in 1965 and headquartered in Duffel (Belgium), Reynaers Aluminium has offices in more than 30 countries worldwide.

REYNAERS aluminium

WE BRING ALUMINIUM TO LIFE

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VENTALIS

Efficient and aesthetically pleasing ventilation system

REYNAERS aluminium

LET THE INSPIRATION BREEZE IN

Innovative technology to enhance ventilation via aluminium doors and windows

The emphasis on insulation often occurs at the cost of good ventilation. In turn, this heightens the risk of condensation. To ensure sufficient supply of fresh air without losing the benefits of good insulation, Reynaers has developed a controllable ventilation system: Ventalis.

THE PRODUCT: A UNIQUE SYSTEM

- Self-regulating airflow
- Modular system

EFFICIENCY AND GRIDLESS DESIGN WITH AESTHETIC APPEAL

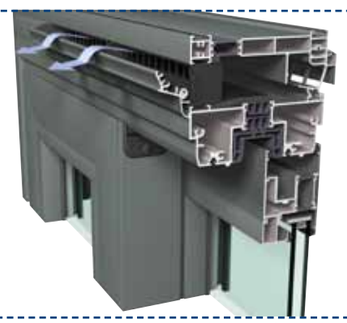
- Ease of installation: the ventilation units are placed in spaces between the ventilation profile and the window frame (patent pending):
  * stable, strong frame including anchoring on top of the window
  * no need for thicker and more expensive glass
  * easy hassle-free cleaning and maintenance.
- The frames can also be mounted partly behind outer walls or facade cladding for a more 'hidden' appearance, respecting transparency and design.
- The number of ventilation units depends on the required airflow, not on the dimensions of the window/door, offering architects more flexibility and freedom of design.
- Ventalis profiles are fully compatible with Reynaers' systems: a limited number of parts can be applied unchanged to various systems, reducing stock levels.

The ventilation profiles can be positioned in various configurations, offering increased versatility for fabricators and architects.

outside detail view

inside detail view

ventilation grid



ventilation airflow (CP 155)

hidden application (CP 130)

The system can be easily integrated into existing Reynaers' systems.

A BREATH OF FRESH AIR

SELF-REGULATING UNITS

Ventalis is a ventilation profile installed at the top of windows or doors in the 'dry rooms'. These can be built in different configurations depending on the aesthetics or the required airflow to satisfy the applicable regulations. The patented (pending) self-regulating units automatically open and close the air inlet when wind pressure increases or decreases, keeping the incoming airflow constant.

EASILY ADJUSTABLE

The ventilation flap can be opened in 5 different positions allowing users to easily adjust ventilation to satisfy changing requirements such as increases in the number of people in a room. In any position, the self-regulating units keep the airflow at the desired level. The ventilation units are both insect-repellent and rainproof.

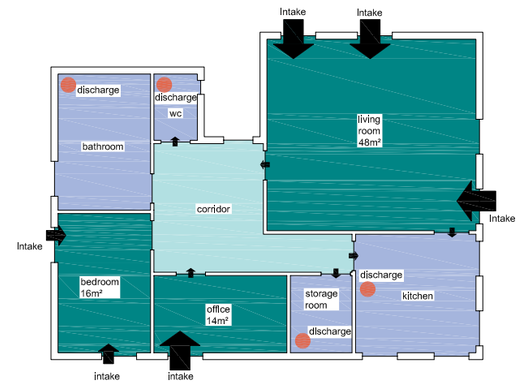
AVOIDING CONDENSATION

Furthermore, by the implementation of an insulation gasket on the flap and special insulation on the connection pieces, the ventilation avoids the risk of condensation.

Ventalis can be integrated in following Reynaers systems : Eco system, CS 68, Eco system Optima, CS 68 Optima, CS 77, CP 130 and CP 155.

TECHNICAL PERFORMANCE OF THE SELF-REGULATING UNIT

- Water tightness: class 9A (600 Pa)
- Airflow for each unit of 20 cm : 10 m^3/h (windows) - 12 m^3/h (sliding elements)
- Self-regulation: class P3
- Extra exterior visible height : 18,5mm (windows) - 30,5mm (sliding elements)



The Ventalis profiles enable a natural intake of fresh oxygen-rich air in 'dry rooms'. The air is guided towards 'damp rooms', thus creating energy-efficient controlled ventilation.