Sonovent® < Acoustic flap ventilators glazed-in/at transom

Self-regulating flap ventilator with a superior sound absorption

Renson® has developed the Sonovent® range to meet with two aspects of living comfort:
- physical comfort: fresh and healthy air without draughts
- acoustic comfort: up to 56 dB sound reduction

The Sonovent® is an extensive range of self-regulating window vents with a superior air sound insulation. Four types of the Sonovent® are available; Small, Medium, Large and Xlarge, each model having 4 four different air slot possibilities (10, 15, 20 or 25 mm). This comes up to 16 alternatives in total, each model with a different airflow and sound reduction. Furthermore, thermal breaks can be positioned differently, depending on the model and installation method. The Sonovent® range therefore offers an ideal solution for every situation.

Glazed-in or at transom
The Sonovent® is preferably placed at transom. By adding L-profiles to the upper and lower side, the Sonovent® can also be placed on glass.

Thermally broken
No cold air-transfer from outside to inside. Thermal breaks can be positioned differently depending on the model and installation method.

Self-regulating
Thanks to its self-regulating flap, the Sonovent® ensures the supply of fresh and healthy air without draughts.

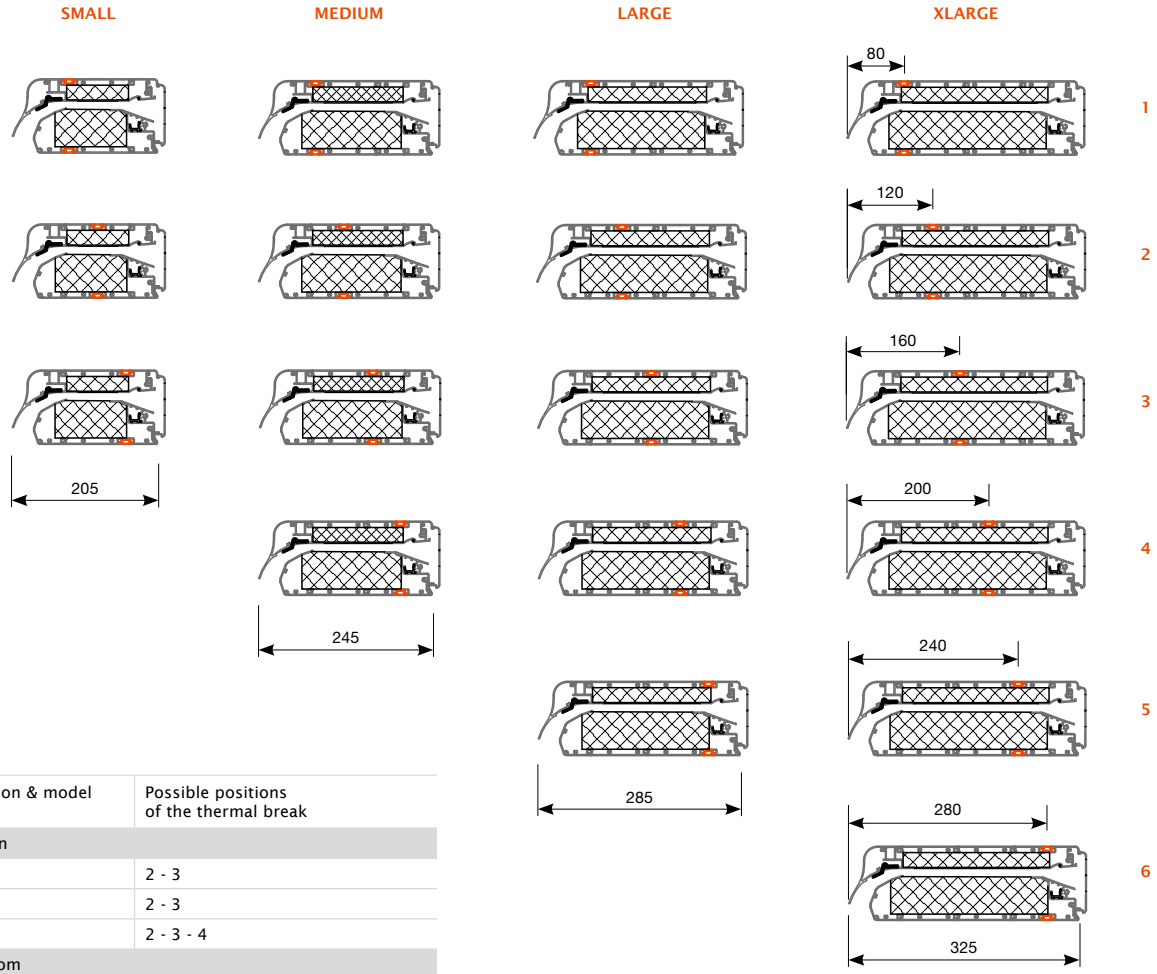
Sound absorption
Various sound reduction levels (depending on the type), from 37dB up to 56 dB.

Insect mesh

The versatile Sonovent® - range

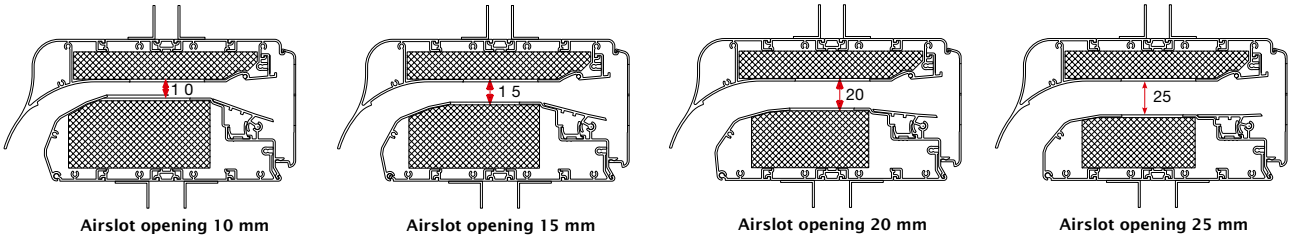
4 different models with different positions of the thermal break

- Models: Small – Medium – Large – Xlarge
- Thermal break: different positions 1 to 6



Installation & model	Possible positions of the thermal break
Glazed-in	
Small	2 - 3
Medium	2 - 3
Large	2 - 3 - 4
At transom	
Small	1 – 2 - 3
Medium	2 - 3 - 4
Large	2 - 3 - 4
Xlarge	2 - 3 – 4 - 5

- Airslot opening: 10 - 15 - 20 -25 mm



Airslot opening 10 mm | Airslot opening 15 mm | Airslot opening 20 mm | Airslot opening 25 mm

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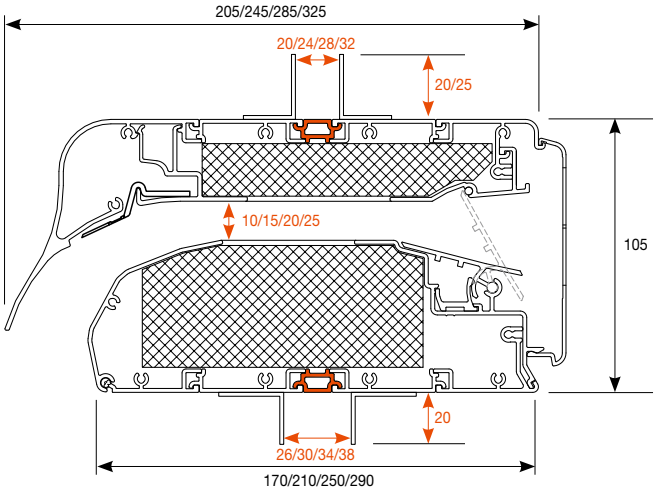
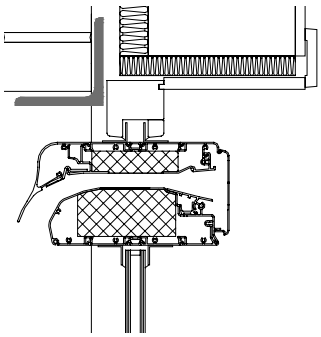
Section detail

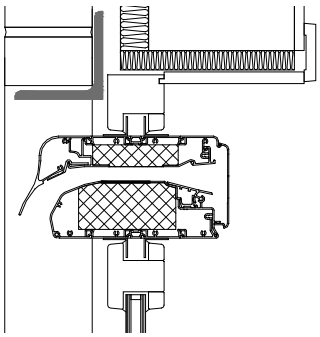


Installation

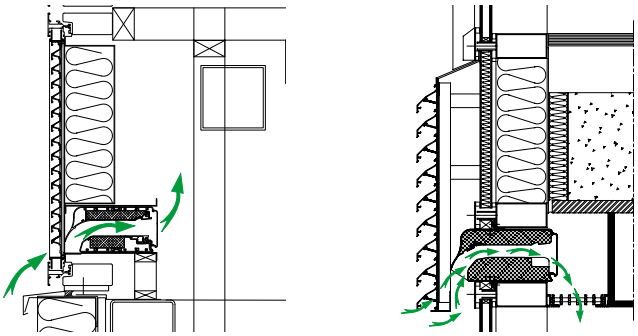
The Sonovent® is designed to be installed glazed-in or at transom (preferred installation).
Hidden installation behind louvers or in a ventilated panel of a curtain wall system is also possible and commonly applied in offices, schools, … .
By choosing the right model of Sonovent® and varying the length, the required airflow together with the necessary acoustic performances can be reached.



Glazed-in



Fully glazed-in (at transom) (recommended installation)



Hidden installation (behind louvres)

Technical characteristics

Sonovent®	Small	Medium	Large	Xlarge
Airflow				
Equivalent area				
Air slot 10 mm	17756 mm²/m	17509 mm²/m	16153 mm²/m	14427 mm²/m
Air slot 15 mm	29593 mm²/m	26511 mm²/m	25524 mm²/m	21578 mm²/m
Air slot 20 mm	31813 mm²/m	33292 mm²/m	32059 mm²/m	31073 mm²/m
Air slot 25 mm	33786 mm²/m	34032 mm²/m	33416 mm²/m	32676 mm²/m
Q at 1 Pa				
Air slot 10 mm	14,0 l/s/m	13,8 l/s/m	12,7 l/s/m	11,3 l/s/m
Air slot 15 mm	23,3 l/s/m	20,8 l/s/m	20,1 l/s/m	17,0 l/s/m
Air slot 20 mm	25,0 l/s/m	26,2 l/s/m	25,2 l/s/m	24,4 l/s/m
Air slot 25 mm	26,6 l/s/m	26,7 l/s/m	26,3 l/s/m	25,7 l/s/m
Q at 1 Pa				
Air slot 10 mm	50,2 m³/h/m	49,5 m³/h/m	45,7 m³/h/m	40,8 m³/h/m
Air slot 15 mm	83,7 m³/h/m	75,0 m³/h/m	72,2 m³/h/m	61,0 m³/h/m
Air slot 20 mm	90,0 m³/h/m	94,2 m³/h/m	90,7 m³/h/m	87,9 m³/h/m
Air slot 25 mm	95,6 m³/h/m	96,3 m³/h/m	94,5 m³/h/m	92,4 m³/h/m
Q at 2 Pa				
Air slot 10 mm	14,0 l/s/m	13,8 l/s/m	12,7 l/s/m	11,3 l/s/m
Air slot 15 mm	23,3 l/s/m	20,8 l/s/m	20,1 l/s/m	17,0 l/s/m
Air slot 20 mm	25,0 l/s/m	26,2 l/s/m	25,2 l/s/m	24,4 l/s/m
Air slot 25 mm	26,6 l/s/m	26,7 l/s/m	26,3 l/s/m	25,7 l/s/m
Q at 10 Pa				
Air slot 10 mm	15,3 l/s/m	15,1 l/s/m	14,0 l/s/m	12,5 l/s/m
Air slot 15 mm	25,6 l/s/m	22,9 l/s/m	22,1 l/s/m	18,7 l/s/m
Air slot 20 mm	27,5 l/s/m	28,8 l/s/m	27,7 l/s/m	26,9 l/s/m
Air slot 25 mm	29,2 l/s/m	29,4 l/s/m	28,9 l/s/m	28,2 l/s/m
Q at 20 Pa				
Air slot 10 mm	22,9 l/s/m	n.p.d.	n.p.d.	n.p.d.
Air slot 15 mm	28,5 l/s/m	n.p.d.	n.p.d.	n.p.d.
Air slot 20 mm	29,2 l/s/m	n.p.d.	n.p.d.	n.p.d.
Air slot 25 mm	27,1 l/s/m	27,5 l/s/m	25,0 l/s/m	n.p.d.
Comfort				
Sound reduction $D_{n,e,w}$ ($C;C_{tr}$) in open position				
Air slot 10 mm	46 (-1;-5) dB	48 (-2;-6) dB	50 (-2;-6) dB	56 (-2;-6) dB
Air slot 15 mm	41 (-1;-2) dB	45 (-2;-6) dB	49 (-2;-7) dB	53 (-2;-6) dB
Air slot 20 mm	40 (-1;-3) dB	43 (0;-3) dB	44 (-2;-6) dB	46 (-2;-6) dB
Air slot 25 mm	37 (-1;-3) dB	39 (-1;-4) dB	41 (-2;-6) dB	45 (-2;-6) dB
Sound reduction $D_{n,e,w}$ ($C;C_{tr}$) in closed position				
		n.p.d.		
Technical characteristics				
Controllable internal flap		Continuous adjustment		
Control options internal flap		Manual, cord, rod, motor		
U value	4,5 W/m²K	4,6 W/m²K	4,6 W/m²K	4,7 W/m²K
Air leakage at 50 Pa		<15% (in closed position)		
Watertightness in closed position, up to		650 Pa		
Watertightness in open position, up to		50 Pa		
Dimensions				
Glass reduction		130 mm (flange 20 mm), 135 mm (flange 25 mm)		
Height		105 mm (total height with flanges: 145 or 150 mm)		
Glass thickness		20, 24, 28, 32 (or more upon request)		
Max. length		2000 mm (glazed-in installation) / 2500 mm (installation at transom)		
Depth/Total depth		170/205 mm (Small), 210/245 mm (Medium), 250/285 mm (Large) or 290/325 mm (Xlarge)		