

AK80^{EVO} - AK80 < Acoustic flap ventilators glazed-in/at transom



AK80^{EVO}: Compact, self-regulating acoustic window vent for installation at transom

The AK80^{EVO} is a thermally broken acoustic vent with a pleasing compact design. This ventilator is the self-regulating version of the AK80, and therefore ensures the supply of fresh and healthy air without any draughts.

Four different types are developed, each with their specific airflow and sound absorption. The AK80^{EVO}, which has a high isolation value, is typically installed at transom and suits for all window types (aluminium, wood, PVC).

Installation at transom

The AK80^{EVO} should preferably be installed at transom, and is applicable for aluminium, timber and PVC window frame types.

Thermally broken

No cold air transfer from outside to inside.

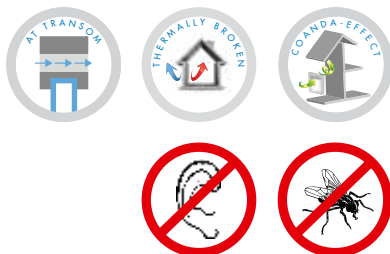
i-Flux®

Thanks to its self-regulating flap, the AK80^{EVO} ensures the supply of fresh and healthy air without draughts. The self-regulating flap only starts working at wind pressure of 8 Pa (instead of at 2 Pa). Moreover, the interior profile deflects the incoming air upwards, causing an optimal spread of fresh air in the room.

Sound absorbing

Various sound reduction levels (depending on the type), from 33 (-1;-2) dB up to 47 (0;-3)dB in open position.

Insect mesh



AK80: Compact non self-regulating acoustic window vent for installation at transom

The AK80 is a thermally broken acoustic vent with a pleasing compact design. Four different types are developed, each with their specific airflow and sound absorption. The AK80 is typically installed at transom.

Installation at transom

The AK80 should preferably be installed at transom, and is applicable for aluminium, timber and PVC window frame types.

Thermally broken

No cold air transfer from outside to inside.

Coanda effect

The interior profile deflects the incoming air upwards, causing an optimal spread of fresh air in the room.

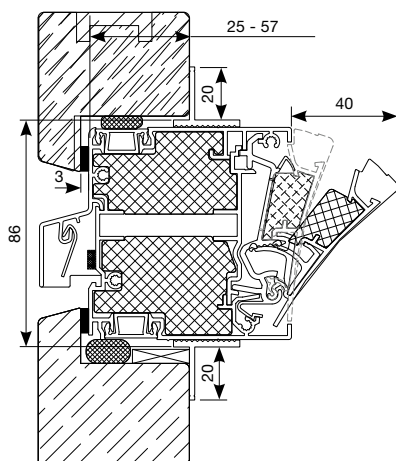
Sound absorbing

Various sound reduction levels (depending on the type), from 33 (-1;-2) dB up to 47 (0;-3) dB in open position.

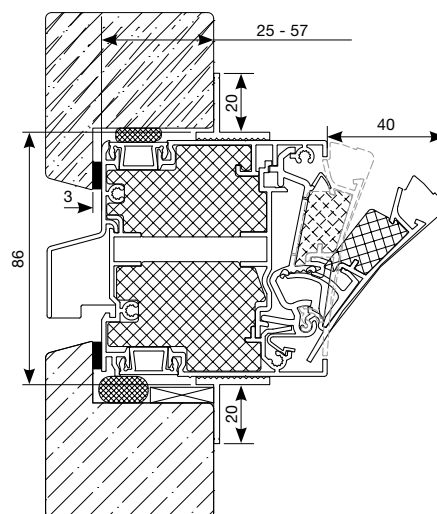
Insect mesh



Section detail

 AK80^{EVO}


AK80



Technical characteristics

	AK80 ^{EVO} /1	AK80 ^{EVO} /2	AK80 ^{EVO} /3	AK80 ^{EVO} /4
Airflow				
Equivalent area	n.p.d.	n.p.d.	n.p.d.	n.p.d.
Q at 1 Pa	0,6 l/s/m	0,9 l/s/m	1,3 l/s/m	4,1 l/s/m
Q at 1 Pa	2,0 m ³ /h/m	3,2 m ³ /h/m	4,7 m ³ /h/m	19,8 m ³ /h/m
Q at 2 Pa	1,1 l/s/m	1,7 l/s/m	2,1 l/s/m	6,6 l/s/m
Q at 10 Pa	3,5 l/s/m	5,4 l/s/m	6,6 l/s/m	20,5 l/s/m
Q at 20 Pa	3,7 l/s/m	5,8 l/s/m	6,3 l/s/m	19,6 l/s/m
Comfort				
Sound reduction D _{n,e,w} (C;C _{tr})				
- in open position	47 (0;-3) dB	44 (-1;-4) dB	41 (-1;-3) dB	33 (-1;-2) dB
- in closed position	51 (-1;-3)	n.p.d.	n.p.d.	n.p.d.
Technical characteristics				
Controllable internal flap	5 stepped positions			
Control options internal flap	Manual, cord, rod, motor			
U value	2,3 W/m ² K	2,3 W/m ² K	2,3 W/m ² K	2,1 W/m ² K
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				
Height	80 mm (box height) / 126 mm (total height with flanges)			
Max. length	2000 mm			

Technical characteristics

	AK80/1	AK80/2	AK80/3	AK80/4
Airflow				
Equivalent area	1488 mm ² /m	2163 mm ² /m	2545 mm ² /m	8780 mm ² /m
Q at 1 Pa	1,2 l/s/m	1,7 l/s/m	2,0 l/s/m	6,9 l/s/m
Q at 1 Pa	4,2 m ³ /h/m	6,1 m ³ /h/m	7,2 m ³ /h/m	24,8 m ³ /h/m
Q at 2 Pa	1,6 l/s/m	2,5 l/s/m	2,9 l/s/m	9,7 l/s/m
Q at 10 Pa	3,6 l/s/m	5,8 l/s/m	7,1 l/s/m	21,1 l/s/m
Q at 20 Pa	5,0 l/s/m	8,4 l/s/m	10,4 l/s/m	29,6 l/s/m
Comfort				
Sound reduction D _{n,e,w} (C;C _{tr})				
- in open position	47 (0;-3) dB	44 (-1;-4) dB	41 (-1;-3) dB	33 (-1;-2) dB
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