Acoustic trickle vent

VELFAC®

Acoustic trickle vent

Efficient glazing is fundamental to noise control, and fresh air is essential to our wellbeing. Until recently, window vents were not an option in buildings where noise control was required, but the acoustic vent from VELFAC offers new opportunities.

The VELFAC acoustic vent. The new acoustic vent is designed to provide both fresh air and noise control in buildings when combined with VELFAC SOUND windows. The vent achieves a sound reduction value of Dn,e,w 40 dB.

Function. The acoustic vent is machined into a timber packer, which will be installed and sealed on site. The external aluminium profile is polyester-powder coated in the RAL colour to match the window sashes, allowing an elegant integration with windows and façade.

Tables and details. The tables below state the key facts, the volume air flow and acoustic test results of the VELFAC acoustic vent. The details present the sound vent in combination with VELFAC SOUND windows with different frame configurations.

Secured by Design

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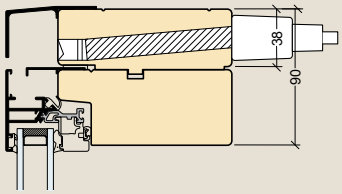
Table 1 - Fact box	
Vent width	546mm
Min. width for packer with vent	675mm
Max. width for packer with vent	4200mm
Possible no. of vents per packer	0, 1 or 2 vents
Colour of internal air valve	White, RAL 9010
Colour of external aluminium profile	As window sashes

Test institute	Testing method	Test results	Classification
VTT, Finland	ISO 140-10 ISO 140-2	Dn,e,w: 40 dB Dn,e,w + C: 40 dB Dn,e,w + Ctr: 39 dB	ISO 717,1

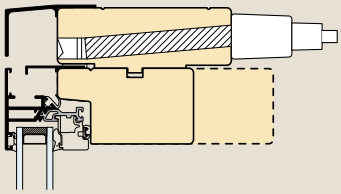
Table 2. The weighted element-normalised level difference Dn,e,w.

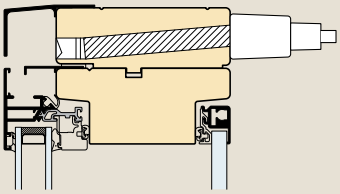
VELFAC Acoustic Vent	Fully open			
Pressure differential (Pa)	6	10	15	20
Volume flow (dm^3/s)	4.6	6.1	8.0	9.7

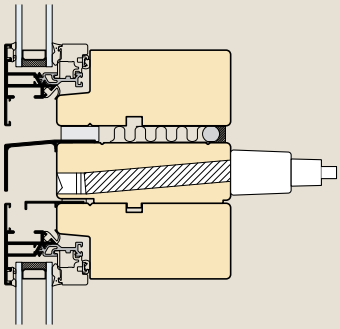
Table 3. Volume air flow measurements with various pressure differentials. Equivalent free area = $2765mm^2$.



Installed on 115mm mainframe


On 90mm and 140mm mainframe


Installed on 2 + 1 window


Installed between 115mm mainframes

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