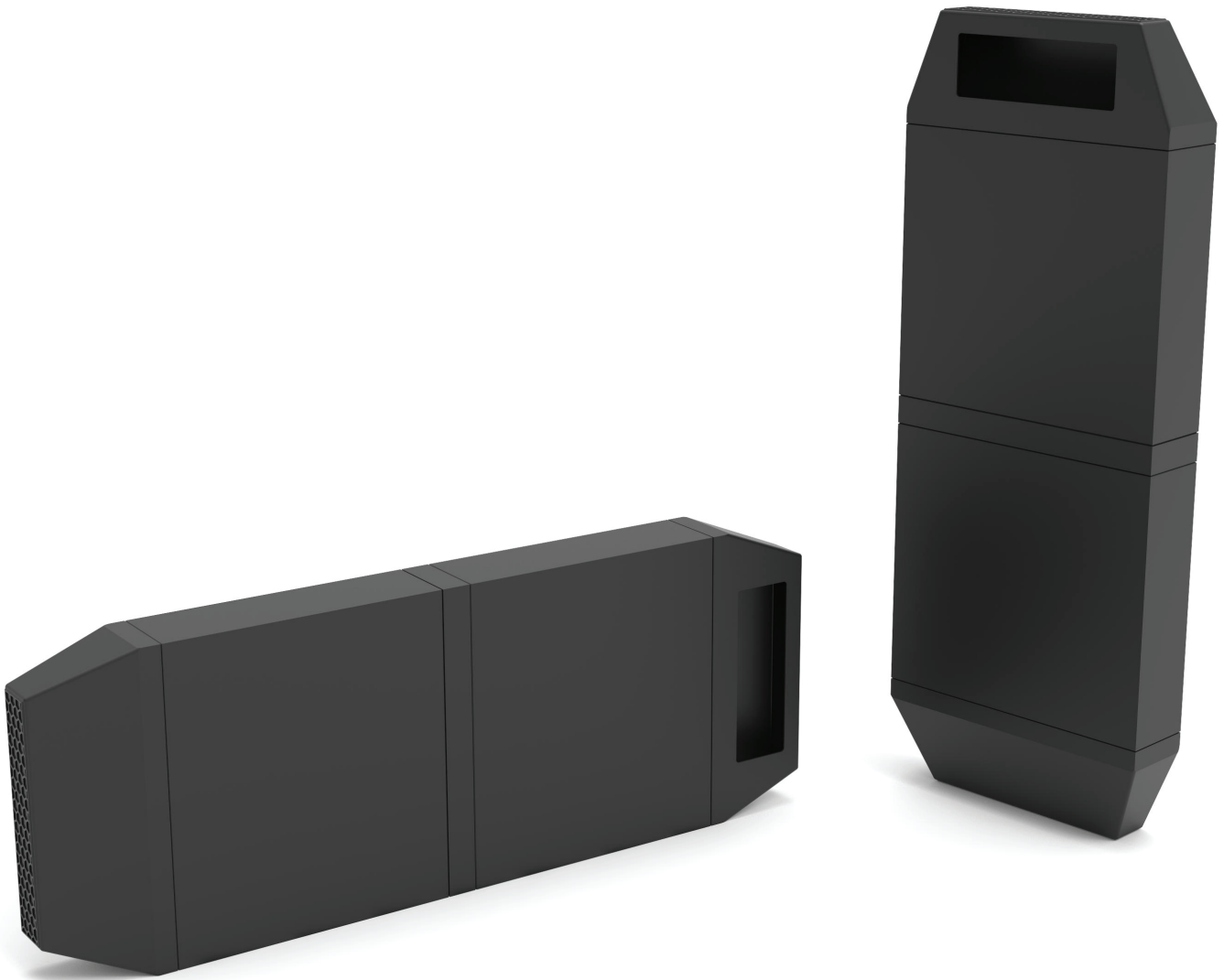


*Your proven answer
to soundproof ventilation
in noise affected buildings.*



64mm Passive Acoustic Wall Ventilator- Premium

Product Code: 13-03-01



Best new product
DesignBuild Australasia



Top 10 Eco Product in the USA
Sustainable Building Magazines



Silver Medal
International Salon des Inventions.
Geneve, Switzerland

Information

The Silenceair 64mm Premium - Passive Acoustic Wall ventilator is designed for use in severe noise pollution locations, such as near Airports, busy arterial roads and train lines. The unit has additional attenuators added to further increase noise reduction. The unit is designed to install in the same manner as the 64mm standard unit.

The unit is robust and can be screwed, glued or set into position without affecting performance. It is made from engineering grade PLA and contains recycled materials. Silenceair is fully recyclable, is UV stabilised and contains spread of flame and smoke inhibitors.

The Silenceair 64mm Premium unit is ideal for keeping noise INSIDE a room, such as band room or home theatre room, whilst still allowing external fresh air to enter the room. In conjunction with an air extraction or supply system, code compliant acoustic ventilation can be achieved at minimal cost and ease of construction.

Airflow

The aerodynamic air-passage allows for a highly efficient flow of air at very low pressure. For example, a single unit will allow 12.8 cubic metres of air into a room at very low pressure of 2 Pascals. Airflow rates at these low pressures can be increased simply by increasing the number of units used. Balancing can be achieved by the same method.

Sound Reduction

By using a revolutionary patented technology that incorporates arrays of sound attenuating tubes, Silenceair can reduce the noise that enters the room through a ventilation opening by up to 85%. The compact size removes the need for bulky and costly acoustic ducting.

Wall suitability

The Silenceair 64mm acoustic ventilator can be installed in any wall that is at least 64mm thick.

It is ideal for use in brick veneer walls, where the slim design allows for small and discrete vents to the inside and outside. A standard brick vent can be used for the outside.

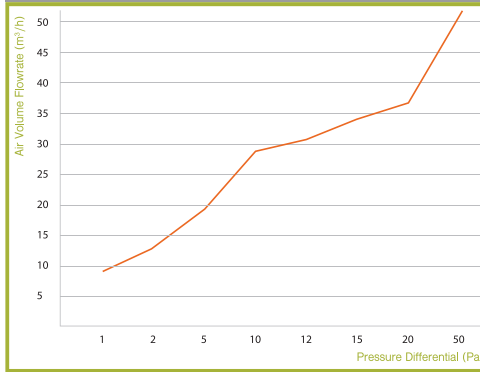
Advantages

Reduces noise transmission by 85% across the acoustic barrier.

Highly efficient. The unique design allows for higher airflow at minimum pressure, and superior noise reduction over the thickness of the wall than alternative technologies.

Cost effective. Silenceair is a highly effective solution for air penetrations through acoustic barriers. You can save on materials, installation time and operating costs.

Superior Airflow

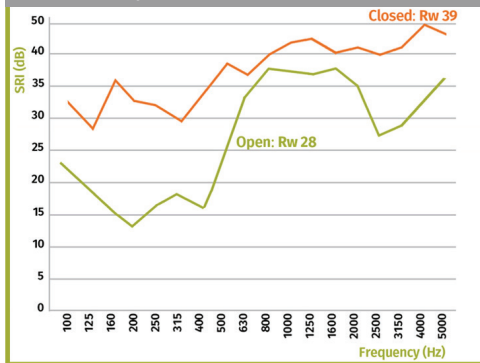


Tabulate Airflow Performance

Pressure Drop (Pa)	m3/h	l/s
1.00	9.5	2.6
2.00	12.8	3.6
5.00	19.4	5.4
10.00	28.2	7.8
12.00	30.5	8.5
15.00	34.3	9.5
20.00	36.7	10.2
50.00	57	15.8

The airflow performance graph and table above shows how much air flows through the Silenceair acoustic attenuation device at different air pressures. For example, when the air pressure differential is 1 Pascals, air will flow through the device at 9.5 cubic metres an hour, or 2.6 litres per second.

Superior Noise Reduction

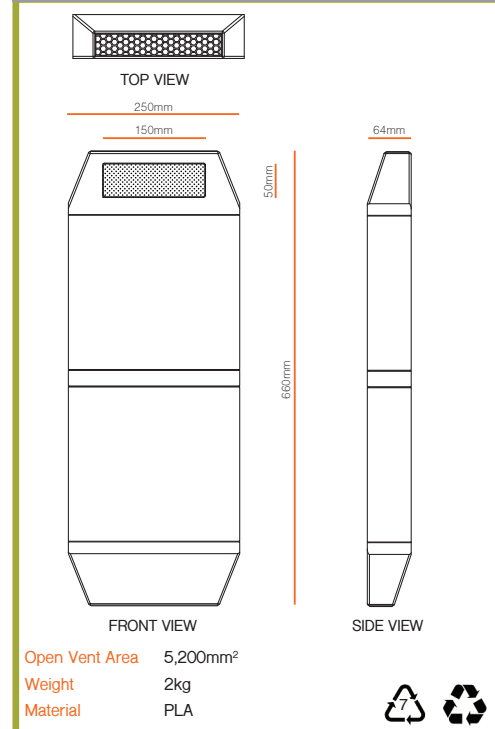


Data Table SRI, dB re 20 µPa

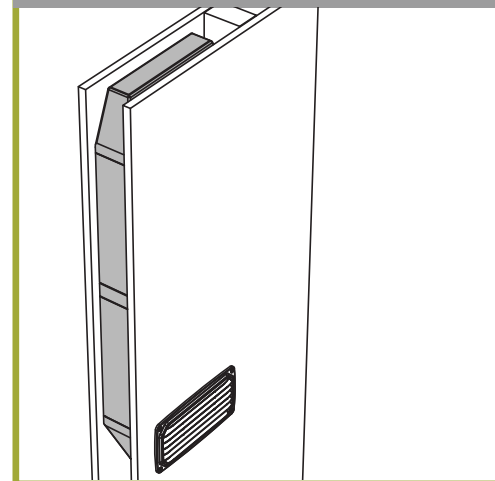
Frequency (Hz)	Vent Open	Vent Closed
100	22.6	30.2
125	18.3	26.1
160	9.5	34.2
200	7.6	32.7
250	16.2	32.0
315	18.3	28.5
400	16.2	33.9
500	24.8	36.2
630	33.2	35.2
800	37.3	38.0
1000	37.2	42.3
1250	37.0	42.8
1600	37.8	38.1
2000	35.1	40.7
2500	27.1	37.8
3150	28.1	41.1
4000	33.4	48.3
5000	35.9	44.1

The noise reduction graph and table above show the reduction in sound power levels through the Silenceair acoustic attenuation device. Over the spectrum from 100hz to 5000hz the Silenceair acoustic ventilator has a Rw39 when adjustable louvre is closed.

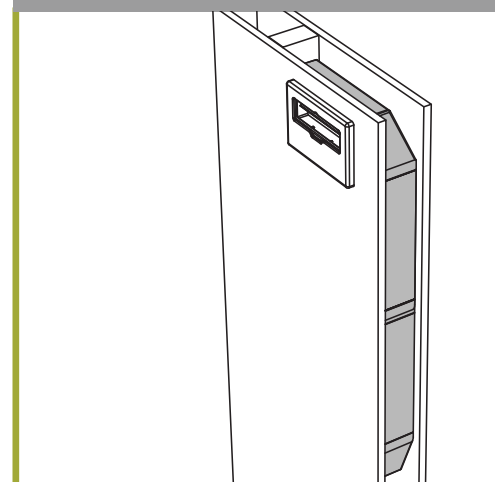
Dimensions



Exterior View-Section



Interior View-Section



Silenceair International Pty Lid reserves the right to reissue performance data without notice.

For more information please contact

www.silenceair.com enquiries@silenceair.com +61 2 9555 7215

Patents and Patents Pending Silenceair is a registered trademark of Silenceair International Pty Limited