# TRY OUR AWARD WINNER, PATENTED NOISE CANCELLING, PANELS WITH AIR FLOW



After years of research in two UK universities, our acoustic metamaterials, winner of the IOP reward, are lighter and thinner than traditional solutions. They are modular and, thanks to our patented technology, they cancel noise while letting air and light through.



ENGINEER YOUR SILENCE WITH OUR MATERIALS

# **Introducing SonoBlind Air®**



Our award-winning product features a patented material at the core of its design. SonoBlind Air®, by leveraging advanced geometry, passively cancels noise passing through its perforations. This groundbreaking technology solves the common challenge of balancing effective noise reduction with airflow, making it ideal for indoor spaces prone to overheating and equipment areas where space is at a premium.

#### Green

Our technology effectively cancels noise from green innovations such as heat pumps and wind turbines, enhancing their suitability for residential use and supporting the achievement of environmental goals. Additionally, we are committed to sustainability by using recycled materials in our products and ensuring that they can be fully recycled at the end of their lifecycle.

#### Broadband

Our materials effectively cover a wide range of the audible spectrum, including the challenging lower frequencies that traditional solutions struggle to manage—all while requiring minimal space.

#### Passive

Our devices are completely passive, requiring no power to operate. Similar to noise-canceling headphones, they cancel noise effectively but without the need for any energy source. Their advanced geometric structure functions like the filters commonly used in light technology for years, providing a high-performance, energy-free solution.

#### Airflow

SonoBlind Air® is an innovative product that offers a unique blend of airflow (up to 33% of the area available) and noise reduction (up to 95%, over 5 octaves).

## **USERS WORLDWIDE**

## ULTRASONIC CLEANING MACHINES AND HEAT PUMP BOOTHS



## SILENCING VEHICLE ENGINES



## ACOUSTIC SECONDARY WINDOW





INDUSTRIAL BOOTHS



## **ACOUSTIC PERFORMANCE**

The Insertion Loss (in dB) tabulated below was obtained using ISO 16283-3:2016, while the corresponding Pressure Drop [Pa] was measured with a technique similar to ISO 7235:2003 in a wind tunnel. A graphical comparison between SonoBlind Air® and other products typically found in the built environment can be found in the graph.



▲Panel thickness \*\* Percentages refer to the area available for airflow

#### Insertion Loss (dB)

Frequency [Hz]	80	125	250	500	۱k	2k	4k
SonoBlind Air® 5** (18 mm▲)	6	10	10	12	20	21	21
SonoBlind Air® 20** (18 mm▲)	1	6	8	9	13	13	14

### AIRFLOW PERFORMANCE



This graph, for instance, shows that our plastic-based SonoBlind Air® 5% achieves in 18 mm the same acoustic performance that a top range acoustic louvre gets in 300 mm, but remaining transparent to light and with much less weight. Lower pressure drops are achieved by models of SonoBlind Air® with a higher percentage of open air.

#### Pressure Drop (Pa)

Air velocity [m/s]	0.1	0.25	0.5
SonoBlind Air® 5% [Pa]	47	185	760
SonoBlind Air® 20% [Pa]	2	17	63

## **CUSTOMISE YOUR SONOBLIND AIR®**

SonoBlind Air® is typically sold as tiles measuring L272 x W272 x H18 mm, available in a variety of colors and transparencies. The tiles are typically assembled in either a linear or box configuration, with various frame options. In situations where pressure drop is less critical, alternative covering materials can be used to further enhance design flexibility.







Material Appearance for other colours please contact us







white





Metal



Glass

Frame

transparent semi transparent



wood



covering



black

metal







branded (with your design)





wood for fabric









blue

white

All products are made in flame-retardant recylable plastic.

**GET IN TOUCH!** 

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Also Ask Us About

#### SonoBlind®

The only transparent acoustic panel in the world

#### **SonoFlow®**

The smallest inline attenuator for air conditioning

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https://metasonixx.uk/





The Business Start Up 2024 Award











OUR AWARDS