



# The environmentally sound acoustic barrier system

- By GenAcoustic -

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The environmentally sound acoustic barrier system

“Changing  
the landscape through  
softer sound.”

## Introduction

Air by GenAcoustic represents a new standard in sustainable noise control. Designed for the UK’s most demanding infrastructure environments, it combines proven acoustic performance with environmental responsibility and enduring design life.

Engineered for projects where performance and sustainability must go hand in hand, Air’s 40-year design life and recycled PVC construction make it the trusted choice for highways, rail, industrial and urban applications.

“We designed Air to set a new benchmark in acoustic barrier performance, without compromising on sustainability or design.”

**Oliver Bache, Director, GenAcoustic**

Sound Absorption (DL<sub>a</sub>)

**8 dB**

Sound Insulation (DL<sub>R</sub>)

**28-29 dB**

Certified to BS EN

**1793/1794**



# Engineered for proven performance

## Independently tested. **Certified to perform.**

Air's performance has been verified through rigorous independent testing across both acoustic and mechanical certification. Each reflective and absorptive panel has been assessed by accredited laboratories in the UK and Europe, confirming full compliance with BS EN standards for noise reduction and durability. All data is supported by certified test evidence from the University of Salford (UKAS Accredited) and MFPA Leipzig GmbH (DAkkS Accredited), confirming that Air meets or exceeds the required thresholds for permanent noise-reduction systems across multiple applications.

Test	Standard	Result	Verified by
Sound Absorption	BS EN 1793-1	<b>DL<math>\alpha</math> = 8 dB</b>	University of Salford
Sound Insulation	BS EN 1793-2	<b>DLR = 28–29 dB</b>	University of Salford
Structural & Mechanical	BS EN 1794-1/2	<b>Compliant</b>	MFPA Leipzig GmbH



Air Absorptive Cassettes - Brown, Green



Air Reflective Cassettes - Brown, Green

**Performance verified**  
 BS EN 1793 & 1794 certified

**Acoustic integrity**  
 Quick-slot cassette system eliminates sound leakage

**Mechanical durability**  
 Tested for wind, chemical, impact, and snow-clearance resistance

### Certified for reliability

- Resistance to loads: up to 2.3 kN/m
- Wind load capacity: 1.05 kN/m<sup>2</sup> (Reflective) | 1.1 kN/m<sup>2</sup> (Absorptive)
- Impact resistance: compliant with EN 1794-1, Annex C
- Durability: Class 1 fire resistance, rot- and corrosion-proof construction

# Sustainable by design

Design life

40  
years

## Sustainability & Design Life

Every Air barrier is built with recycled PVC housings and mineral wool infill, providing exceptional durability and a design life of up to 40 years. By reusing high-grade materials and ensuring recyclability at end-of-life, Air actively supports circular economy goals.

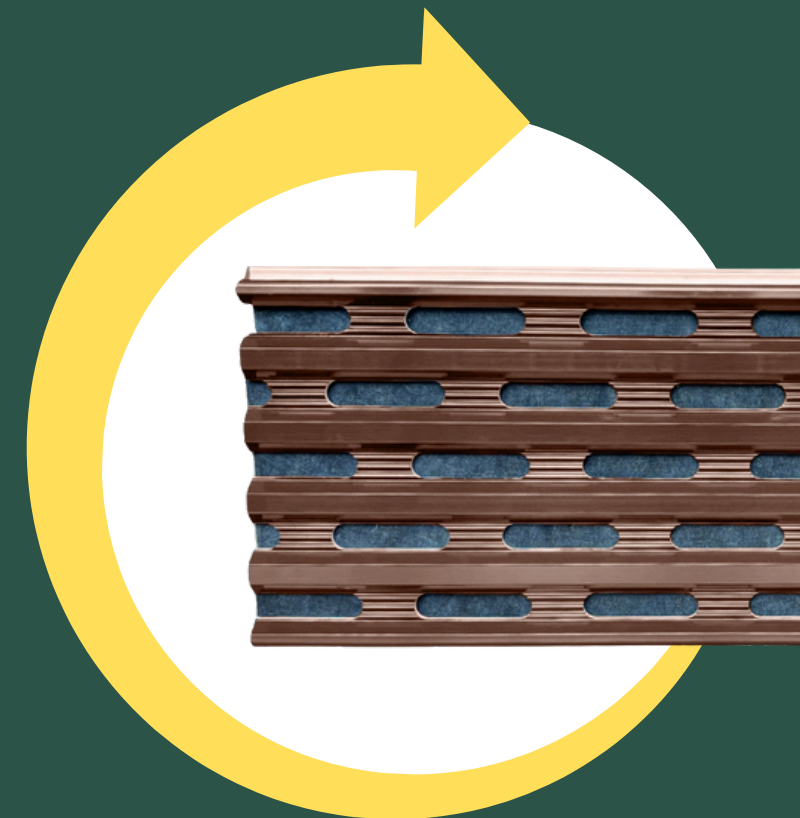
### Key points:

- Recycled PVC with **ROCKWOOL** mineral wool core
- Fully recyclable system components
- Design life: 40 years minimum
- Manufactured under ISO-certified environmental controls

## End-of-Life & Circular Performance

Air is designed for circularity. At the end of its service life, each component can be separated and recycled, from PVC housings and mineral wool cores to steel supports.

Independent EPD data confirms that no hazardous waste is generated, and that recycling and energy recovery help offset the system's embodied carbon footprint



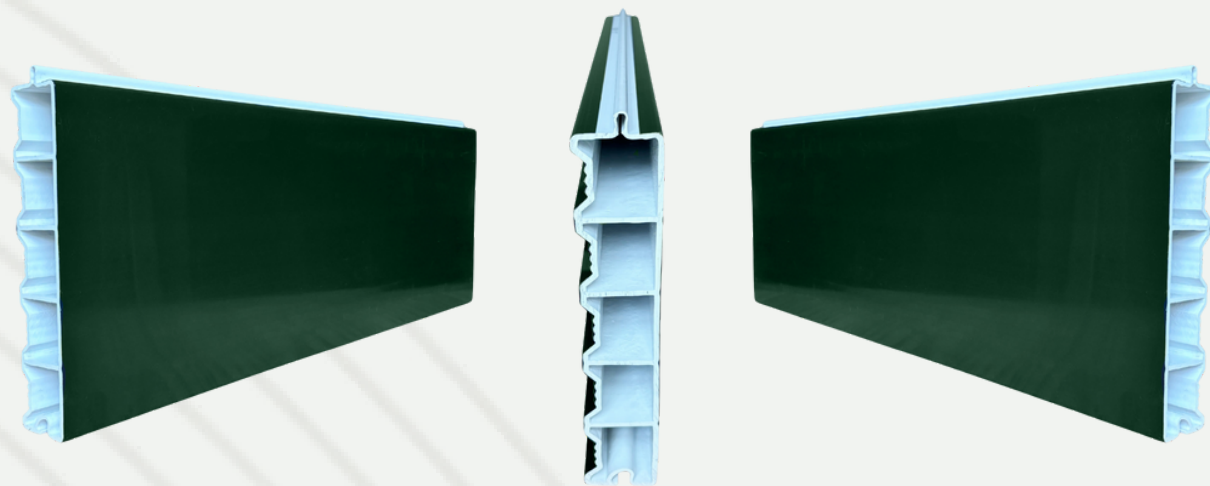
# Quick-slot simplicity

## Installation & Modularity

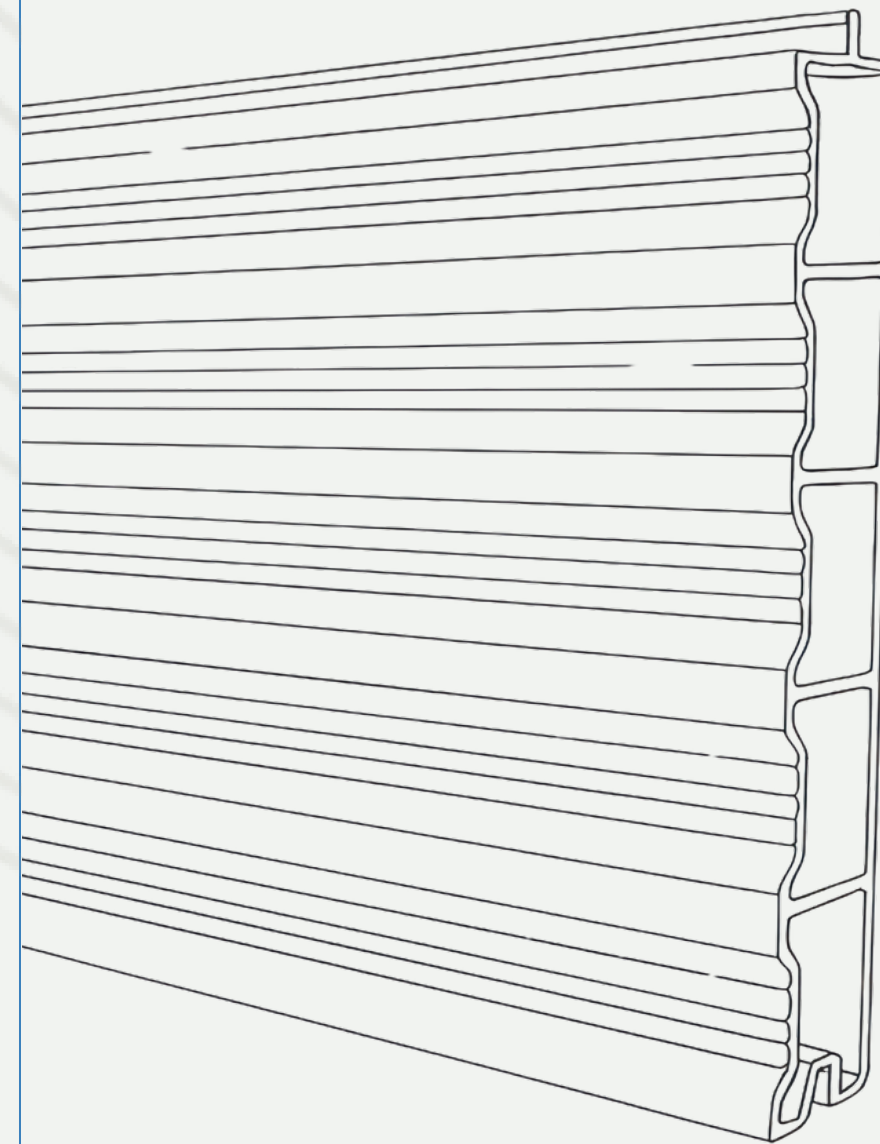
The Air system is designed for speed and accuracy on site. Each cassette slots quickly into position, set between posts, creating a tight, consistent fit without the need for complex tools or fixings. This design shortens installation times, reduces plant use, and ensures every barrier aligns perfectly for lasting performance.

### Key points:

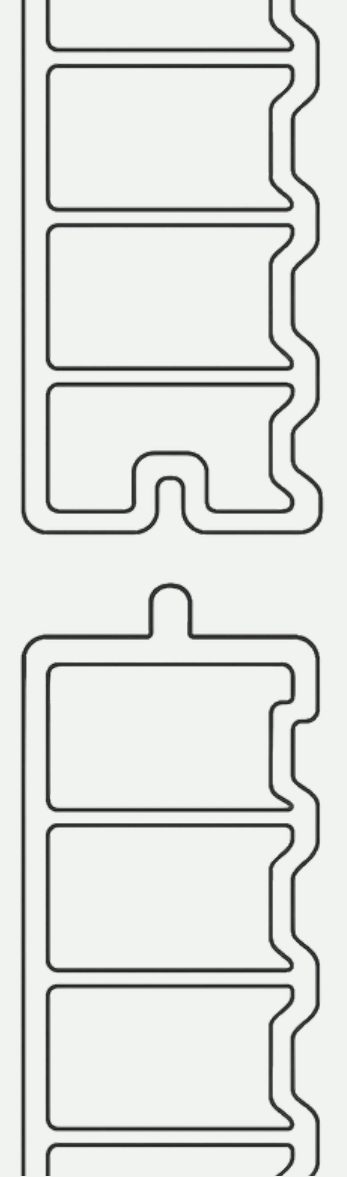
- **Rapid slot-in assembly for fast, repeatable installation**
- **Lightweight modular sections for easier handling**
- **Minimal site disruption and reduced labour requirements**
- **Resistant to weather, rot, and chemical exposure**



Air Reflect cassette: Rear angle (left), Side profile (centre), Rear angle (right)



Air Reflect cassette: solid-face design for reflective acoustic performance



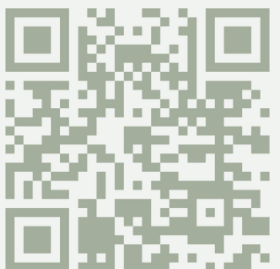
Air quick-slot system: fast, secure, precision alignment

## Reliability at scale

Each Air panel is manufactured to consistent tolerances for dependable installation across large-scale projects. The system's modular format allows easy replacement of individual cassettes without disturbing adjoining sections.

## Access all technical data & certificates

For full performance data, installation guidance, and product certifications, scan the QR code and **click Resources** section on our website.



# Proven performance across every environment

## Proven acoustic performance from highways to heavy industry.

Air's modular acoustic barrier system is designed for adaptability and long-term performance. Whether reducing traffic noise, enclosing railway lines, or surrounding utility infrastructure, every installation delivers certified acoustic control and enduring sustainability.

Each configuration is tailored to meet project-specific requirements for height, wind load, and aesthetic integration - ensuring compliance, longevity, and environmental responsibility across all applications.

### Highways

Proven noise reduction for new roads and bypasses.

### Rail

Lightweight and modular for rapid installation beside active lines.

### Utilities

Resists weathering and chemical exposure while maintaining verified acoustic performance.

### Industrial

Durable boundary protection for manufacturing and logistics sites.

