

Resonics Guide to
School Acoustics

ABOUT US

At Resonics, we believe great acoustics are essential to a positive learning environment. Echo, poor speech clarity and excessive noise can quickly turn classrooms, halls and other spaces into difficult environments to hear and be heard. We design acoustic solutions that create a balanced sound environment where students and teachers can focus, learn and communicate.

With over a decade of experience, Resonics is the UK's leading specialist in interior acoustic design, supply and installation. We've helped schools across the country transform echoey, hard-to-hear spaces into environments that support teaching, learning and concentration.

- 1,000+ projects completed in 2025
- Undertake projects from £2k to £4m
- Independent of manufacturers
- We only use industry-leading products





Five ways better acoustics pay off

A Positive Learning Environment

Clear, comfortable sound levels let students follow lessons, instructions and discussions without straining to hear. Balanced acoustics let speech, music and group work each have their place, rather than being lost to echo and noise.

Clearer Speech

Poor acoustics can make lessons hard to follow, especially in large or high-ceilinged spaces like halls and gyms. Acoustic treatment improves speech clarity so every word is heard, from the front row to the back.

Enhanced Learning Outcomes

Lower noise levels and reduced echo support concentration, information retention and overall classroom engagement. Good acoustics are directly linked to improved learning outcomes.

Compliance with BB93 Standards

Schools must adhere to strict acoustic regulations to ensure optimal learning conditions. We design tailored treatments to meet or exceed UK school acoustic guidelines.

Better Accessibility for All

Clearer sound benefits every student, especially those with hearing difficulties, those who use hearing aids, or those with additional learning needs. Reducing background noise and echo means every student can take part, wherever they're sitting.

WALL PANELS

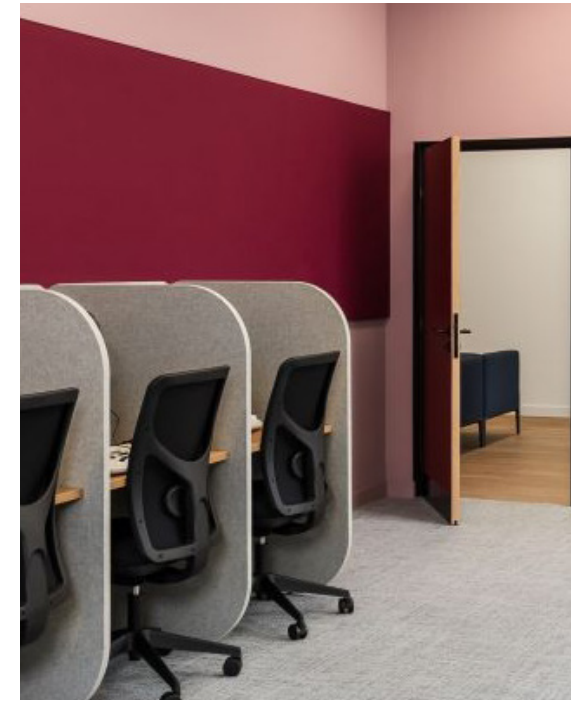
Our wall panels combine acoustic performance with thoughtful design. Whether you prefer bold feature panels that enhance your interior or subtle options that blend seamlessly into the background, each panel is engineered to absorb unwanted noise and reduce echo, creating a more comfortable atmosphere.



CEILING PANELS

Ceilings are one of the most effective areas for controlling sound in schools and sports halls. Treating around 50–60% of the ceiling with Class A acoustic absorbers can significantly reduce noise and reverberation. The result is a more balanced acoustic environment where conversation flows easily and the ambience feels just right.

OUR WORK IN SCHOOLS & SPORTS HALLS



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We recently used Resonics for the installation of acoustic panels in a new arts centre we've just opened. From start to finish, *the experience was excellent* – clear communication throughout, a smooth and professional installation process, and a high-quality end result.

Rob Lodge | Director of Estates & Facilities
Prior's Court Foundation





Hotham Primary School

London

Overview

Hotham Primary School approached Resonics after ongoing complaints about excessive noise in its sports hall. The hard, reflective surfaces created a long reverberation time, making the space loud, uncomfortable and difficult for both students and staff during sports and group activities.

Our solution

To address the acoustic issues, Resonics installed a series of colourful **Ecophon Super G** wall panels.

Designed specifically for sports halls, these robust panels withstand impacts from balls and equipment while providing excellent sound absorption. Each panel was custom-cut to suit the hall's unique shape, ensuring seamless integration with the existing interior.

The outcome

The acoustic treatments significantly reduced reverberation, creating a more comfortable and controlled sound environment. The hall now functions as a safe, enjoyable space for sports and recreation, with durable panels that maintain long-term performance and visual appeal.



Brighton College Prep School

London

Overview

Following the redevelopment of four Grade II listed Victorian townhouses into Brighton College Prep School, the school needed an acoustic strategy that would improve sound quality while preserving the character of the historic buildings.

Our solution

Resonics delivered a comprehensive acoustic solution centred on treating ceilings with Class A sound absorption.

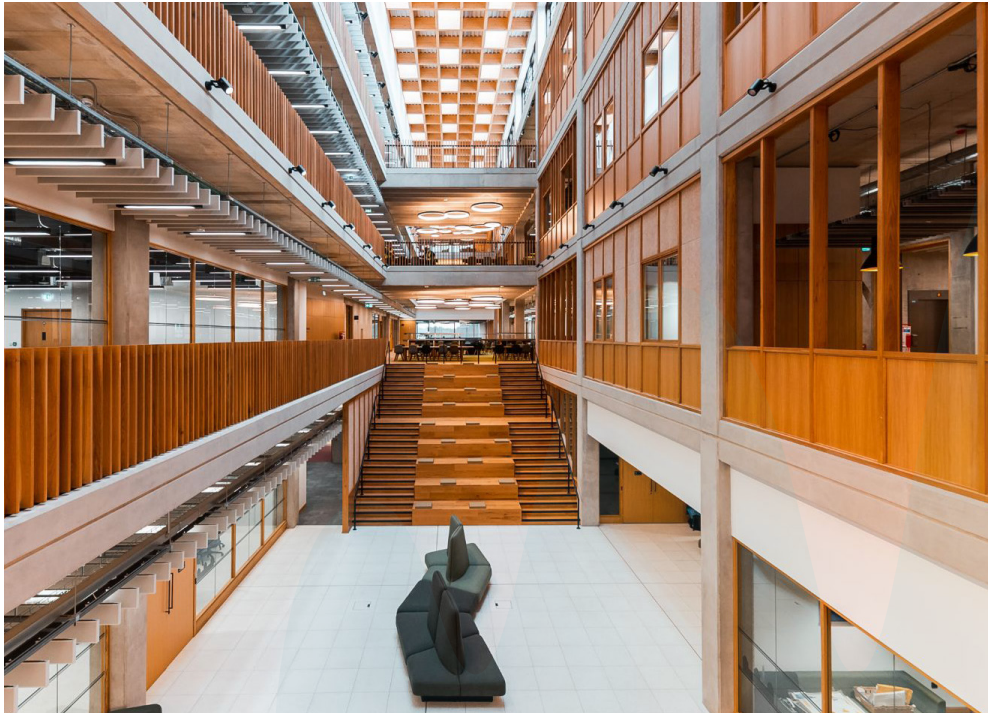
SilentSpace Baffles: Customised in vibrant Camira fabrics, these baffles introduced both colour and effective sound absorption.

Abstracta Scala Panels: Installed across selected ceilings to further reduce noise levels and support focused learning.

Tenso Wall 50mm System: Applied to key reflection points, particularly corners, to absorb sound bouncing off hard surfaces and improve overall room acoustics.

The outcome

The acoustic treatments significantly reduced reverberation times, improving speech clarity and creating more comfortable learning and circulation spaces. Teachers and pupils now benefit from clearer communication, calmer classrooms and a more supportive environment for focus and wellbeing.



University of Birmingham

Birmingham

Overview

The University of Birmingham's new five-storey facility features a double-height atrium and an open, collaborative layout designed to support agile learning and research. With such expansive and interconnected spaces, managing acoustics was essential to ensure focus, comfort and effective communication across the building.

Our solution

Resonics designed and installed a combination of wall panels, suspended baffles and specialist ceiling systems to control reverberation in key areas.

Tailored ceiling baffle system: Acoustic baffles were configured to deliver high-performance absorption while keeping all mechanical and electrical services fully exposed and accessible, reducing future maintenance costs.

Wall and ceiling treatments: Additional acoustic panels were used to minimise sound transfer between busy zones and maintain clarity in study and collaboration areas.

The outcome

The acoustic upgrades transformed the facility into a more focused and collaborative learning environment. Overall noise levels were reduced, sound transfer between spaces was minimised, and students and staff now experience clearer communication and improved comfort across all floors.

When you work with Resonics, you'll get...

Market-Leading Expertise

With over a decade of experience and more than 7,000 projects completed, no UK company has delivered more interior acoustic projects.

End-to-End Service

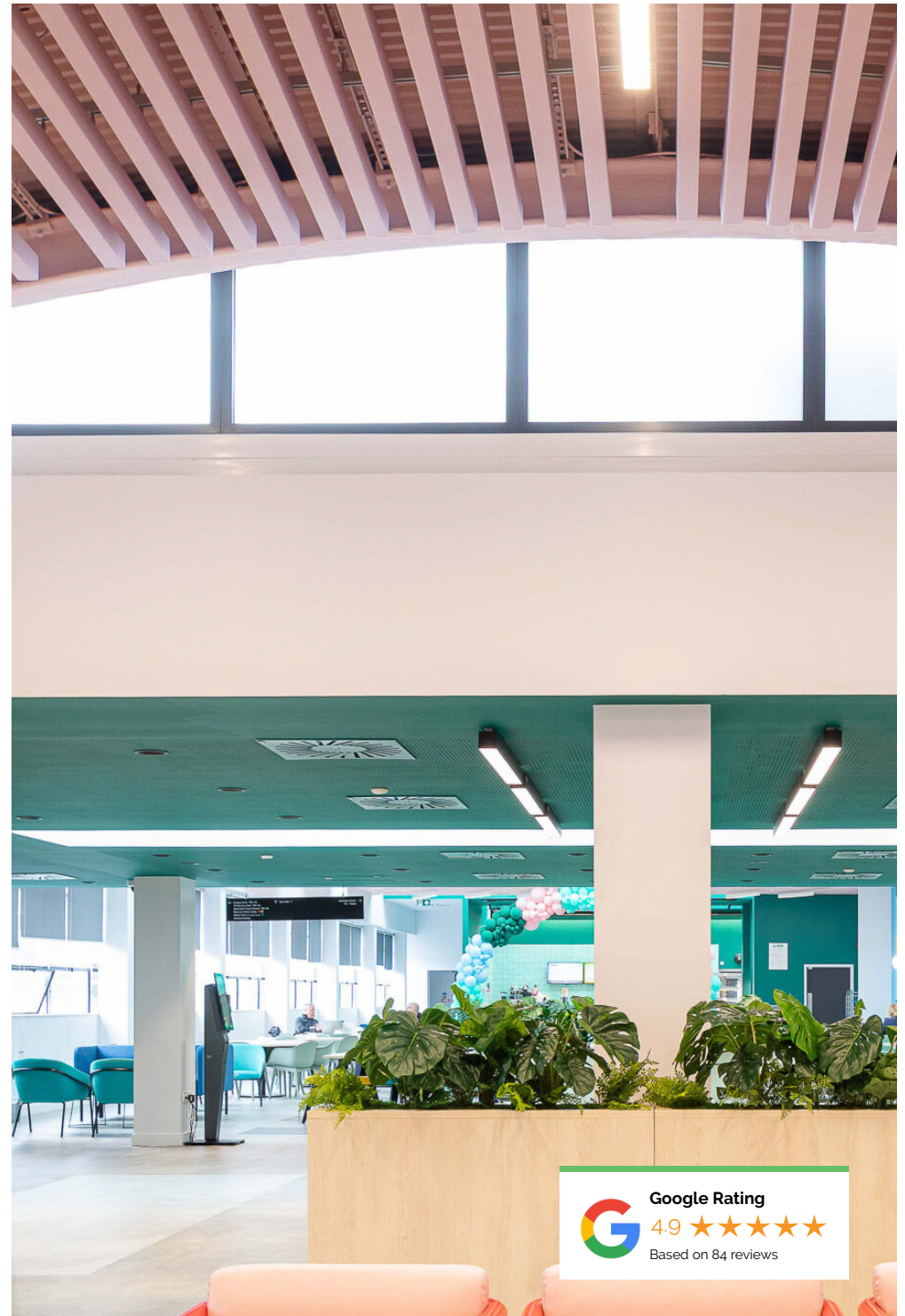
From surveys and acoustic testing through to design, supply, and installation, our in-house team manage every stage of the process.

Trusted Across the UK

We work across the UK in schools and sports halls, earning a 4.9 Google rating from clients who value getting acoustics right the first time.

Preferred Installers

We work with the leading acoustic manufacturers, building relationships based on trust, collaboration and shared standards. As a preferred installer for these brands, we're fully trained to deliver reliable, high-quality results.



 **Google Rating**
4.9 ★★★★★
Based on 84 reviews

Frequently Asked Questions

Why are school acoustics important?

Good acoustics support improved learning outcomes, clearer communication and healthier teaching environments. Reduced echo and noise help students focus and protect teachers from vocal strain.

What regulations or standards apply to school acoustics in the UK?

Schools must comply with BB93: Acoustic Design of Schools, which sets minimum standards for reverberation times, sound insulation and ambient noise levels.

What areas of a school usually need acoustic treatment?

Classrooms, sports halls, dining halls, music rooms, lecture theatres, and multi-purpose spaces often need solutions due to their size, layout and hard surfaces.

What are the main acoustic problems in schools?

Common problems include long reverberation (echo), noise transfer between spaces and poor speech clarity – all of which affect learning and concentration.

Will acoustic treatment disrupt the school schedule?

Resonics works around timetables and often installs during holidays or after hours. Most treatments are quick and easy to install.

How much does acoustic treatment cost?

Costs vary with room size and required performance levels. We offer free acoustic surveys and tailored quotes to meet both budget and BB93 needs.



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