

Case Studies



Sound Insulation Testing

HRS are proud to have carried out sound insulation testing to some of the largest residential developments in the UK, with a client list including companies such as Galliford Try, Rok & GB Building.

In addition to residential developments our team of test engineers also have considerable experience of carrying out sound insulation testing to other types of buildings:

- **Educational premises** – such as Lincoln's College's New Performing Arts Centre & Sheffield Hallam University.
- **Offices** – such as the new offices at the St. Omar Barracks, Aldershot, & the new Home Office building, forming part of the Riverside Exchange Development in Sheffield (below).
- **Healthcare premises** – such as the new oncology & haematology centre at Hull's Caste Hill Hospital.



Design Reviews

Through the use of in-house software HRS' consultants are able to model the sound insulation provided by the building façade & by internal partitions, & have experience of providing design advice for a variety of projects:

- **Educational** – such as the new vocational skills centre at Lees Brook Community Sports College in Derby
- **Residential** – such as the Larkhill Retirement Village in Nottinghamshire, constructed by Galliford Try.

Industrial & Environmental Noise

HRS are also able to provide solutions regarding a variety of industrial & environmental noise issues & are experienced in carrying out surveys & assessments in support of planning applications. For example, to aide in the assessment of the impact of modifications to the existing layout, HRS has recently carried out baseline noise surveys to assess the existing noise climate in the immediate vicinity of two supermarkets operated by Sainsbury's.

Core Services

At HRS we believe that the key to achieving good architectural and building acoustics is a five stage process:

1 HRS review and define criteria

Defining criteria at the initial design stage alerts the design team as to the requirements that must be met in order to achieve the relevant standard of specification.

2 HRS Initial survey

Often carried out at the planning stage, a noise & vibration survey is critical in achieving acceptable internal noise & vibration levels & ensures that an acceptable level of noise emission is set for the site.

3 HRS Design review

As acoustics criteria become increasingly more stringent, reviewing design details at an early stage in a project is an extremely cost effective approach to minimising ongoing acoustic design amendments and achieving final requirements.

4 HRS Site audit and preliminary testing

Carried out at key 'hold' points during the build, independent on-site audits of details prior to being obscured, backed up by early preliminary testing, can save costly and stressful late stage surprises.

5 HRS Compliance testing

HRS offers a UKAS accredited compliance testing service accepted by Building Control, local planning authorities and clients nationwide.



All solutions provided by HRS are supported by ISO 9001:2000, certified by BSI & full insurance cover, including PI.

Environmental Acoustics
Industrial
 Schools
 Part E Sound Testing
 Building Acoustics
Commercial
 Hospitals

HRS Services Ltd
**Acoustic
 Consultancy
 & Testing**

Residential
 Construction Noise



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HRS
SERVICES
LIMITED



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Nationwide: **0800 030 4391**



Acoustics Consultancy & Testing

HRS Services Limited Acoustics Consultancy & Testing

This specialist division comprises dedicated acoustics staff with the technical knowledge, resources and expertise to enable a truly comprehensive service to be offered nationwide.

Suitably Qualified

As holders of UKAS Accreditation, HRS are deemed competent to carry out sound insulation testing in accordance with Approved Document E to The Building Regulations.

All consultants are fully trained in all aspects of acoustics & hold relevant qualifications in addition to membership of professional bodies.

ISO 9001 accredited, HRS's quality of service is ensured by an independently audited quality management system.



ISO 9001:2000

With over 20 years experience of providing specialist services to the construction industry, HRS is well placed to provide practical solutions for a wide range of acoustic issues.

Our team of consultants and test engineers have considerable experience of building and architectural acoustics, as well as a variety of industrial and environmental noise issues.

Sound Insulation Testing

UKAS accredited (UKAS Testing Laboratory No. 2587) for sound insulation testing in accordance with both Approved Document E to the Building Regulations 2000 and BS EN ISO 140 Parts 4 and 7, our team of fully qualified test engineers have experience of carrying out sound insulation testing to a variety of buildings, with the use of the most up to date equipment and procedures allowing disruption to other on-site activities to be kept to a minimum.



Planning, Noise and Vibration

The consideration of noise and vibration is often a prerequisite for new developments. Evidence of compliance with a variety of planning conditions is often required and as such a consideration of the acoustic issues early in the design process is prudent, including the impact of existing noise and vibration on, and noise and vibration emanating from, the new development. HRS offer a proactive service throughout all stages of the planning process, from initial feasibility studies through to testimony and compliance testing.



Approved Document E

Recent changes to The Building Regulations mean that, unless Robust Details are being used, there is now a mandatory requirement for separating walls and floors between dwellings to be tested to ensure that they provide sufficient levels of sound insulation, thereby enabling us to live in close proximity whilst still maintaining a feeling of privacy. With our knowledge and experience HRS are able to offer a full acoustic consultancy and testing package to guide you through your development, including design reviews, site audits and the necessary compliance testing.



Nationwide

Head Office: Sheffield
Southern Regional Office: Swindon
Bases in: Barnsley, Colchester, Derby
Hereford, Manchester, Northampton
Surrey, Salisbury & York



Room Acoustics

Often overlooked when designing a building, acoustic problems can usually be avoided and, where necessary, rectified by minor design changes. HRS can optimise the acoustics of any space, whether it be an open plan office, classroom, auditorium or church.



Education Sector

BB93 'Acoustic design for schools, a design guide' details the constructional standards for acoustics for new school buildings that are required to be achieved under requirement E4 of Approved Document E. Compliance is demonstrated by submitting specific details to the relevant Building Control Body, usually in the form of a specialist report compiled by an acoustics consultant. It is also common practice for compliance testing to be included within the building contract. HRS offer a complete design and testing provision in support of achieving compliance with BB93.

Healthcare Sector

Acoustics within healthcare premises requires careful consideration for a number of reasons. Noise can be hazardous when it becomes intrusive to such an extent that patients and staff are put under stress, effecting the ability of staff to work efficiently and hindering a patient's timely recovery. Current guidance is provided by Health Technical Memorandum HTM 08-01: Acoustics, published in June 2008 and replacing HTM 2045. HRS offers a consultancy and compliance testing service which meets the requirements of HTM 08-01.



Industrial and Commercial Sector

The acoustic implications of an industrial or commercial development can be significant, particularly where residential properties are located within close proximity. Whatever the development HRS can formulate a strategy that will ensure that the noise emanating from a site is adequately controlled and meets Local Authority Criteria.



RELATED SERVICES

- **AIR TESTS** - ATMA and UKAS accredited air tightness testing to Part L Regs, smoke tests and thermographic surveys.
- **AIR SEALING** and fire protection/stopping contracting work to Part B Regs and FIRAS standards. NOTE HRS can offer a guaranteed pass on some projects; if HRS are involved to a significant level and other relevant air sealing works are completed to a good standard.
- **ENERGY** - SAP / SBEM, CO₂ target assessments, EPC, DEC.
- **BREEAM assessments** for commercial offices and also Code for Sustainable Homes.
- **FALL PROTECTION** - advice and installation of fall protection, walkway and ladder systems including re-certification.

ADDITIONAL INFORMATION

If you need a quotation or any further technical advice, please call

0800 030 4391

HRS offer free information download packs, videos etc; for all the services offered, which have been well received by clients. They provide a useful initial reference point and can be accessed via:

www.hrsservices.co.uk

Air Tightness

Energy - SAP, EPC, DEC, SBEM & BREEAM

Acoustic Consultancy & Testing

Air Sealing & Fire Stopping

Fall Protection - Safety Systems

Rail & Bridge Works

Geotechnical

Building Inspection & Maintenance