

Case Studies

Frequently Asked Questions

Q. We have a perforated acoustic liner sheets to our roof, can the vapour barrier to roof be used as air seal line?

A. Yes. However we would advise against it as particular care must be taken to ensure that there is a robust seal detail at the eaves junction to continue the air seal line from the inner face of the walls across the roof. Particular attention will need to be paid to ensure that any joints and penetrations to the barrier are fully sealed prior to being covered over as they will not be accessible afterwards.

We would advise specifying a rigid insulation board above the liner and using this as the air seal line. Care will need to be taken where the liner over sails external walls etc that air tight profile fillers are installed on the air seal line in the sheet troughs between the board and the liner.

Q. Should we use blockwork or dry lining to walls as air seal line?

Dry lining – As there may be expansion joints etc behind the lining boards that do not get properly sealed as they are not going to be on display. Additionally if the blockwork used has a high porosity then using the dry lining will reduce the problem caused by air leakage through the blockwork.

Ensure any exposed edges (Including where the lining boards finish below raised access floors and penetrations to the drylining are sealed. Care will need to be paid to any areas of exposed blockwork above suspended ceilings, below floors and behind demountable panels etc that any joints, junctions and penetrations are sealed with air tight materials.

Q. Are acoustic/fire stop materials suitable for air seal?

Yes, if not porous – Rigid and foil faced boards and the pasted batt systems are suitable provided board joints, junctions etc are sealed.

Loose mineral wool is not suitable. Any compressed mineral wool system used say to wall heads should be overcoated with either intumescent or ablative paste for air tightness.

and contracts completed

Air sealing on new & existing retail stores

HRS are the most experienced air sealing company in the UK, carrying out air sealing and testing since 1996 on both new & existing stores for the UK's major retailers - TESCO, Morrisons, Waitrose, Safeways. Over 500 stores have been worked on & the majority of these stores have reached best practice levels in terms of air tightness.

HRS have established ongoing working relationships with these retailers by offering & maintaining a high level of customer service in terms of carrying out works on time, to budget & safely.

HRS have also successfully offered consultancy & advice on how stores should be designed & specified to ensure the final air tightness specification is reached.

Improving conditions in a cold, draughty building

A phone call was received from a worried facilities manager after he was forced to move out all the patients from an ITU ward, because conditions on the ward were very cold & draughty & not up to the performance specification for the ward. HRS investigated the ward & surrounding building envelope both visually & with a thermographic camera to identify problem areas. A detailed report explaining where & how the building was failing was produced for the client & a specification provided for remedial works to be carried out.

A further survey was carried out after remedial works were completed to assess how well the remedial works were carried out.

Air sealing & fire stopping a data centre

A client was worried after 3 contractors & an air testing company using door fans; could not air seal a series of rooms so that the N₅₀ air change rate hour was <1. HRS were brought in to offer advice & were able to not only put forward fully costed & specified proposals for remedial works but also could carry out the site works & air testing as well. In a little over 4 weeks, HRS had solved a problem which could have led to massive contractual damages for both the client & main contractor.

Air tests & thermographic surveys

HRS Services have carried out air tests & thermographic surveys on 1000's of buildings. HRS have the largest number & range of calibrated air test fans in the UK, capable of testing fume cupboards up to the largest distribution facilities. HRS are UKAS accredited for all air testing work & hold PI for all relevant works. HRS are members of ATMA who are recognised by Building Control bodies nationwide as being 'competent'.

HRS can also carry out thermographic surveys using a modern full colour camera, able to differentiate down to 0.1°C.

All HRS systems are accredited & staff hold relevant qualifications & above all have gained the experience from working on contracts air sealing and testing 1000's of buildings since 1996.

Building Up Proposals & Prices
Air Sealing
Contracting Work
NEW BUILD & EXISTING BUILDINGS
Air Tightness Acoustic Insulation
smoke tests thermographic surveys

HRS Services Ltd
**Air Sealing,
Passive Fire Protection
& Acoustic Insulation**

Fire Stopping Archives
Remedial works
for Part L
Part E Sound Tests



HRS Services Limited
The Maltings • 81 Burton Road • Sheffield • S3 8BZ • England

Tel 0800 030 4391

E-mail info@hrsservices.co.uk

www.hrsservices.co.uk



h r s
SERVICES
LIMITED

Nationwide: **0800 030 4391**



Air Sealing, Passive Fire Protection & Acoustic Insulation



HRS have the knowledge and experience to price and carry out on site contracting works, guaranteeing contractors compliance to Part L and E and client specifications. HRS are unique in offering clients a one stop shop for building up detailed proposals from pricing contracts at design stage to contracting work nationwide using well trained and experienced on-site teams and onto the final air or sound test. All this is backed up by a competent, experienced management team who are there to ensure that the highest level of service to the client is maintained.



Providing clients with safe, quality, cost effective solutions over 20 years has brought HRS a range of blue chip clients including TESCO, Wm Morrisons, Gazeley Properties, B&Q, Avecia, Mowlems, Kiers, Bovis Lendlease, Carillion, Kajima on 100's of projects.

All solutions are backed up with UKAS and ISO 9001:2000 accreditation and full insurances including PI.



Nationwide

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



Building Up Proposals & Prices

HRS have gained the experience and knowledge from air sealing and testing 1000's of buildings, to understand how to air seal and test all building types and more importantly assess the levels of risks associated with various designs and specifications. Many clients, architects and contractors have come to rely on this knowledge and request advice from HRS on how to approach the problem of gaining compliance to Part L2 from design stage, through to site works and final compliance with Building Control.



Air Sealing Contracting & Remedial Work

HRS has dedicated highly skilled air sealing teams, working across the UK, delivering a high standard of contracting work with minimum inconvenience - on time, to budget and safely. Repeat business from many of the UK's largest contractors illustrates the high level of service HRS gives on site to contractors and clients alike. New and existing build projects with different designs, specifications and problems for various industries - retail, health, education, offices, IT, pharmaceutical have been sealed. Also, HRS have the experience to price and carry out remedial works ensuring that Part L is complied with.



Air tightness tests, smoke tests, thermographic surveys, acoustic tests

HRS Services are fully accredited to carry out a wide range of tests, helping clients gain compliance to Part L & E. All equipment is calibrated and staff trained to UKAS Standards. HRS have the most complete range of air test rigs in the country, capable of testing small rooms up to the largest distribution sheds.



Air sealing & fire stopping:- archives, data centres, comms rooms, labs, components & duct work

Archives, data centres, comms rooms, labs, components and duct work have to be air sealed and fire stopped to standards BS, EN, DIN, NFPA, ASTM. Standards worked to include archive buildings to $Q_{50} < 1m^3 \cdot hour^{-1} \cdot m^{-2}$; data and comms rooms to $N_{50} < 1$; laboratories to NFPA, panel testing to ASTM; ductwork to HVCA DW144.

Fire & Acoustic Stopping

HRS carry out fire protection and acoustic stopping work. HRS are full members of FIRAS thereby giving clients peace of mind that all works are installed to a proper accredited standard, using the correct materials and trained site operatives.

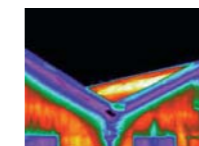


Investigating & Improving draughty, Cold Buildings

HRS have been called in by building owners and operators of schools, hospitals, offices, cold stores to investigate why the internal conditions were either too draughty, cold or hot. HRS use visual surveys, air tests, smoke testing and thermographic surveys to establish where, why and how the building envelope is failing, and build up proposals to solve this.

Our No. 1 Priority . . . Safety Management

Carrying out contracts safely is HRS's main objective. ALL contracts are reviewed for working methods, hazards, risks and that suitable procedures, equipment and resources are employed. 100% of staff/site operatives have CSCS cards and undertake regular safety courses.



RELATED SERVICES

- **AIR TESTS** - ATMA and UKAS accredited air tightness testing to Part L Regs, smoke tests and thermographic surveys.
- **ENERGY** - SAP / SBEM, CO₂ target assessments, EPC, DEC.
- **NOISE** - ACOUSTIC Consultancy and UKAS accredited testing from project planning through to completion for environmental, construction and plant noise.
- **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