

APT



AIR PRESSURE TESTING LTD

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Air & Sound testing in one easy package

Dear Sirs,

I would like to take this opportunity to introduce our company to you and explain an exciting new package we are able to offer for both Air & Sound testing in one easy coordinated cost effective package.

APT have an extensive knowledge regarding the way different materials, and construction methods can influence the results of an Air & Sound Testing Ultimately we understand the importance of constructing an air tight building envelope to comply with part L, as well as optimising sound insulation to comply with Acoustic Regulations (part E)

We provide a personal, helpful, efficient and cost effective service to our clients. Using the latest high power, portable door fans systems, we offer air leakage testing to all building types, ranging from small rooms, flats & houses to office blocks & large distribution warehouses in accordance with the ATTMA Technical Standard 1. Our fan systems are compact, discreet and fit simply into a personnel door. The system can easily be transported through areas of limited access or up to high level areas. It is for this reason that many companies working in busy city centres or in general tight access areas utilise our expertise and equipment. We are able to eliminate the site disruption caused by the larger trailer type testing equipment. Work can also continue inside the building whilst the air leakage test is being carried out.

Recent changes to the Building Regulations in 2000 mean that many new dwellings and conversions require sound insulation tests to demonstrate compliance with the airborne and impact sound insulation criteria given in Approved Document E (ADE). APT can perform these at relatively short notice for any sized development, from two-flat conversions up to hundreds of flats. Utilising the latest sound testing equipment this shortens the duration of the sound test to ensure site disruption is kept to an absolute minimum.

APT can offer substantial cost savings if a joint package is placed to encompass both testing elements; this is partly due to our engineers being multi skilled, this results in one engineer being able to undertake both Air & Sound testing, which also means all the equipment can fit into one van. On site co-ordination will also improve, as both tests can be undertaken on the same day in a planned methodical manner. We can also provide out of hours testing (if required) to help reduce impact of testing during working hours.

Some of the benefits our one stop package provides are:

- **Easier on site co-ordination**
- **Minimal site impact**
- **Out of hours working for both Air & Sound Testing**
- **Substantial cost saving**

[Our Promise to you](#)

We guarantee to be professional, reliable, helpful and very competitive; we offer a last minute service at no extra cost, and we also undertake weekend working both on Saturday and Sunday in order to meet your out of hours testing requirements. We offer a nationwide service offering a single supplier for all of your project requirements.

APT are proud of the fact that most of our clients, who use us for the first time, continue to use our services because of our proactive and helpful testing service. It is our continual aim to help you pass at the first attempt. This proactive approach has led to nationwide agreements with some of the top UK Contractors, which allows them to benefit from even more competitive rates.

Please contact us now if you would like to discuss this in more detail or e-mail us at info@airpressuretesting.net

To help your company prepare for future Testing we have included the following appendices.

- **APPENDIX 1:** [Air Leakage Test; Contractors checklist](#)
- **APPENDIX 2:** [Sound testing; Contractors Checklist](#)

I hope that by way of this introduction letter and the attached information, you are now more informed about the testing requirements of Part L & Part E and the services we offer. If you need any further information or a quotation please feel free to contact the Technical Director Malcolm Fish on 07967233836. Please also feel free to visit our website for an online quote at www.airpressuretesting.net or contact us at info@airpressuretesting.net

Yours Faithfully

Malcolm Fish
Technical Director
Air Pressure Testing Ltd
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Appendix 2:***Checklist of Items to be completed prior to our arrival on Site to undertake the Air Leakage Test***

1. Prior to attending site we require accurately calculated values for the Floor Area, External Wall Area, Roof Area & Volume of the building. We will also require a set of floor plans and elevations to mark up areas of leakage in the event of a test failure.
2. We will require the Design Air Leakage Rate or Air Permeability for the building. For commercial buildings this is generally **10 m³/hour/m²**, but can be lower, if requested in SBEM calculations. For houses the value is generally lower than 10 m³/hour/m² and should be documented in the SAP rating report.
3. We require TWO 240v Electric sockets within 25 metres of EACH of our testing equipment set up.
4. Ensure that the completed building envelope is finished. All doors, windows, and cladding must be installed, or if items, such as glazing are missing, they should be sealed up to prevent air leakage.
5. Seal with tape or cardboard any duct work and mechanical vents to the outside. Pay particular attention to the air conditioning system.
6. Seal all ducts and penetrations where the main services enter the building.
7. Seal all SVP and waste pipe penetrations passing through external walls and ceilings. Make sure that the tops, sides & ends of all pipe boxing's are sealed to prevent air leaking into the boxing and escaping through SVP/waste pipe penetrations.
8. Ensure that all toilets and U bends in sinks have water in them.
9. Turn off all pilot lights and combustion equipment. Seal all flues.
10. Decide which personnel door/s are to be used for the test. Make sure that there are no obstructions within 3 meters of the inside and outside of the door/s chosen for the test. In some cases the door/s may need to be removed, if so you will need to supply an attendance to remove the door/s.
11. Ensure all external doors and windows are closed fully and trickle vents closed. Internal doors should be wedged open.
12. Smoke vents are to be closed but NOT SEALED.
13. Lift shaft vents are to be left open, with lift doors closed.
14. Remove 1% of ceiling or floor tiles that are adjacent to the external envelope.

15. In houses all penetrations through the top floor ceilings should be sealed.
16. Have a competent member of your staff available on the test day to modify and/or seal any further areas that we identify as requiring extra work.
17. If the door/s chosen for the test has a larger opening larger than 1.200m x 2.100m high, you will need to modify the opening to suit our standard template.
(Please call us for advice should this be required.)
18. Whilst we would prefer to have the building empty during the test duration, people can stay in the building whilst the test is in progress. They may not however enter or leave during the test period. (Approx 1- 2 hours)
19. The customer must confirm the test date in writing at least 72hrs before the programmed test date, if this doesn't happen APT reserve the right to cancel the Air Leakage Test until written confirmation is received.
20. We require a parking space for a transit van type vehicle within 10 metres of the test location on site.
21. Testing cannot take place in high winds or if significant temperature differences persist, particularly for high buildings. You should inform us immediately if on the day of the test high winds in excess of 6 m/s are experienced, and a personnel door in a sheltered area cannot be utilised. If we arrive on site to carryout the test and have to abort the test due to wind speeds in excess of 6 m/s the full test fee will be payable.
22. If we arrive on site and are delayed due to the site not being prepared adequately, or the items in this checklist not being completed prior to our arrival, we reserve the right to cancel the test. The full test fee will be payable.

If you have any questions about the preparation or actual test, then please ring our offices to discuss them. We are here to help you achieve a pass at the first attempt.

Appendix 2:***Checklist of Items to be completed prior to our arrival on Site to undertake the Sound Test***

The best time to carry out sound testing is towards the completion of the project. In addition the optimum conditions are when the site is quiet. If there is noise on the site from equipment and 'on going works' here is an increased chance of a sound test failure. Housing developers and/or site managers will have to nominate a day for testing and restrict any noisy activity during the tests. The following list provides an indicative checklist for site managers for the requirements of the plots and sites where testing may be carried out. To negate disruption to site sound testing can be arranged to be carried out of hours,

A site is ready for testing when:

1. Windows are fully fitted with locks in place.
2. Window trickle vents are in place or temporarily blocked up for testing.
3. Room and front doors are in place and closable.
4. All wall surfaces in rooms to be tested are complete (including sockets and switches if applicable).
5. Floor and ceiling surface are complete.
6. Carpets or timber laminates have NOT been laid in rooms where floors are to be tested (with the exception of bonded carpet).
7. Staff made aware that a quiet site environment is required during testing

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