



# Building Environment Resources Ltd

Air Tightness Testing

Sound Testing Services

Ventilation Validation



# Building Environment Resources Ltd.

We operate an accredited test laboratory quality management system and perform our services in compliance with the following requirements :

## Quality Management System:

- **ISO/IEC/EN 17025:2017.** General requirements for the competence of testing and calibration laboratories.

## Airtightness Testing:

- **NSAI** Airtightness testers registered scheme.
- **I.S. EN ISO 9972:2015** Thermal performance of buildings.
- **CIBSE** Technical Manual, TM23.
- **ATTMA** TS1 Dwellings.

## Sound Insulation Testing :

- **ISO 16283-1: 2014:** Acoustics - Field measurement of sound insulation in buildings and of building elements

## Ventilation Validation:

- **NSAI** ventilation validation registration scheme.
- **I.S. EN 14134:2019:** Ventilation for buildings - Performance measurement and checks for residential ventilation systems.



## Why Choose Building Environment Resources?



*Air testing engineer quantifying the air leakage through an external door*

- ✓ NSAI certified airtightness and ventilation validation testers.
- ✓ An INAB accredited testing laboratory.
- ✓ A one-stop shop for airtightness, sound insulation and ventilation validation testing.
- ✓ A rapid response from specialist testers based in Munster and Leinster.
- ✓ Equipped to test a large range of buildings.
- ✓ Out of hours service available.
- ✓ Fully tax, health & safety and insurance compliant.



# Airtightness Testing



We've been testing buildings to the **I.S. EN ISO 9972:2015 standard** (and its predecessor) since 2008, and we have supported many types of clients from the beginning of their project.

With many years of experience, our personnel are uniquely positioned to help you achieve the levels of airtightness required for your project.

Our equipment and expertise allows us to test a range of building types from studio apartments to multi-storey office blocks.

## In addition to testing the building, we offer :

- **Advice** on air tightness regime.
- **Design reviews**, checking design details to ensure they are robust and likely to be air tight when complete.
- **Site inspections** to ensure that buildings is being constructed in an air tight manner.
- **Smoke testing** for the localisation of the air leakage points.

## Sound Testing Services

### What is Sound Testing/Acoustic Testing?

*We provide the following in accordance with ISO 16283-1: 2014 :*

**Impact Sound Testing** is carried out on the floors (only if applicable to the property). The tapping machine (simulating footfall) is placed on the floor of the upper of the test rooms and is used as the sound source to measure the noise received in the room below.

**Airborne Sound Testing** is undertaken by initiation of a controlled noise on one side of the wall (or floor) and measuring the pressure level of the sound on the other side. It allows us to calculate the difference between two rooms and to compare the obtained results to the requirements of performance. This provides the result of the airborne sound insulation.



### Why perform a sound test?

Part E of the Irish Building Regulations states that walls and floors between dwellings must be tested to ensure that they have adequate noise resistance. Every property is different and therefore the level of testing will vary. This is based on the number of walls that require testing.



# Ventilation Validation

Domestic Ventilation systems must be designed and commissioned to provide adequate and effective means of ventilation to satisfy the minimum requirements of the Technical Guidance Document (TGD) Part F of the Irish Building Regulations.

## What are the Benefits?

For consumers, the benefits of ventilation validation are far-reaching in terms of energy efficiency improvements of the dwellings and higher levels of indoor air quality- which provide enhanced comfort and health benefits to the occupant. Homeowners can be reassured that, at the times of validation, their ventilation system is designed and installed to provide minimum ventilation rates required under TGD Part F of the building regulations.



*Our ventilation engineer testing flow rates to I.S. EN 14134: 2019:*

## Building Environment Resources Ltd.

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