Analysis of the ATTMA Database

Presented by
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Group CEO

Introduction

BCTA Group CEO
ATTMA, SITMA, The Building Performance Hub, Building Passport

Responsible for:
• Business
• Auditing
• Quality Control
• Technical Support
• Authorisation of training providers
Introduction

ATTMA
Air Tightness Testing & Measurement Association
UK Based

Operate in UK, UAE, Poland, Spain, Australia & New Zealand

Operates:
• Auditing
• Quality Control
• Technical Support

We are:
• Independent – not owned by anyone.
• Not for profit – we reinvest every penny

Why Do We Lodge Tests?

1. Building Control / Approved Inspectors
2. Gain real world information
3. Protect the industry
4. Reduce administration
5. Eradicate bad practices
6. Fair Funding
7. Quality Control
How Do We Lodge Tests?

1. Direct lodgement from Fantestic & Tectite
2. Drag and drop the raw data files
3. Csv upload
4. The ATTMA iOS Testing App
Data

- 875,500 tests completed to date
- 600 per working day on average.
- UK use AP50 as the testing metric and not n50.

The UK has increased the total number of Lodgements by around 10% every year for the 5.5 years we have been collecting data.
Data

The impact of the Coronavirus can clearly be seen as the UK shut down for around 6 weeks, with construction continuing shortly after.

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70% of homes in the UK are still built using traditional methods (lightweight block, brick)
However, in Scotland, more than 90% of homes are timber frame!

Evidence shows that traditional block construction is the worst performing material to use. Perhaps we would expect better from SIPS and ICF though?
Interestingly, we are building more homes with mechanical ventilation, though it is still valid to build homes with very little ventilation.

Homeowners are often expected to ‘hope’ the wind is in the right direction to provide air changes.
In fact, more than 62% of homes are constructed using ‘background’ ventilation types.

Summary

Advantages:
Very easy to lodge, many from existing software (Tectite / Fantestic)
Speed is very fast – uses Microsoft Azure server
Deviations process allows us to live review any deviations from the test standard

Disadvantages
Lots of data was set as ‘free text’ in the early days making it hard to analyse
We don’t record the reasons for failure – yet
Summary

Buildings are becoming more airtight, however, it is at a very slow rate.

We are fortunate to test more than 50% of all new construction. This number may increase to 100% in a new regulations change.

ATTMA has significant amounts of data that can be analysed as required. If you would like to know more, please contact me.

Questions

I’ll be happy to take questions at the end (10:55am).