Analysis of the ATTMA Database

Presented by
Barry Cope
Group CEO

1

Introduction

BCTA Group CEO

ATTMA, SITMA, The Building Performance Hub, Building Passport

Responsible for:

- Business
- Auditing
- Quality Control
- Technical Support
- Authorisation of training providers

2

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

5

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

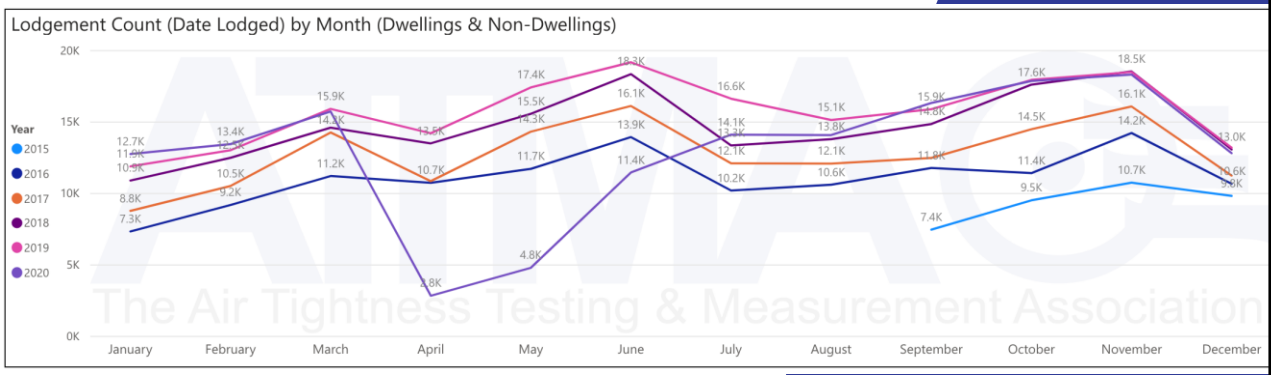
6

Data

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

7

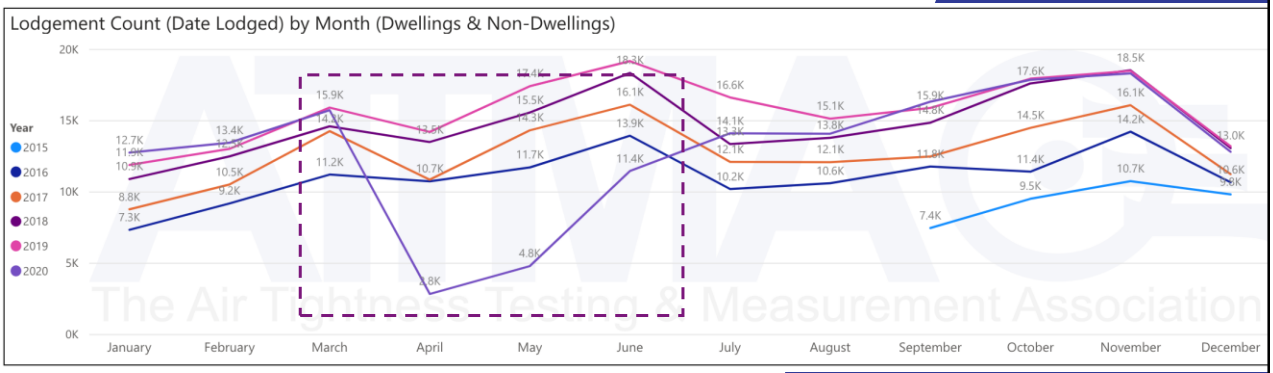
Data



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

8

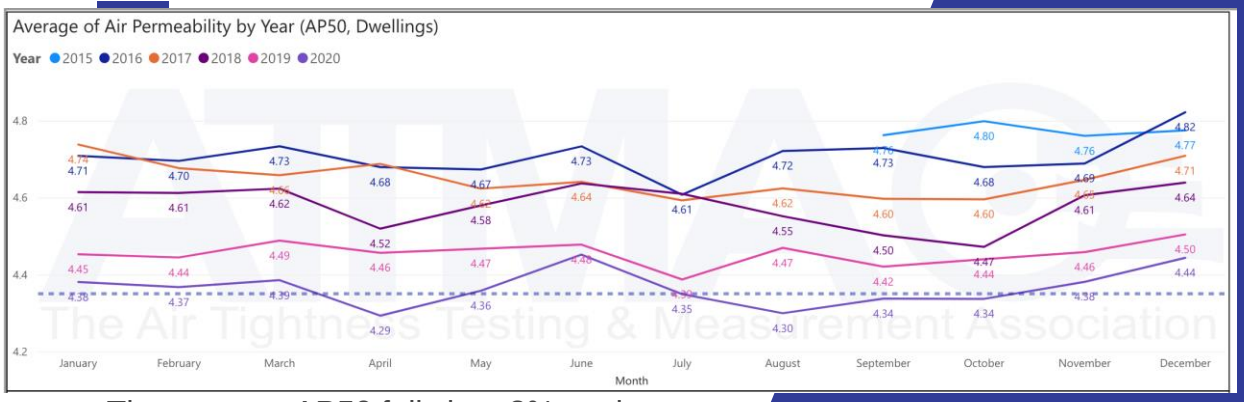
Data



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

The Air Tightness Testing & Measurement Association

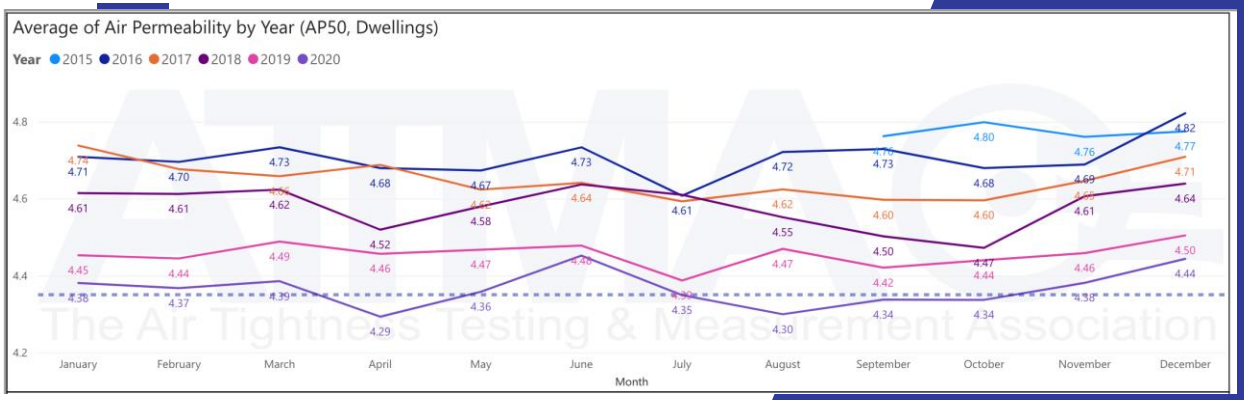
Data



The average AP50 falls by ~3% each year. At this rate it will take over 20 years to reach net-zero homes!

The Air Tightness Testing & Measurement Association

Data

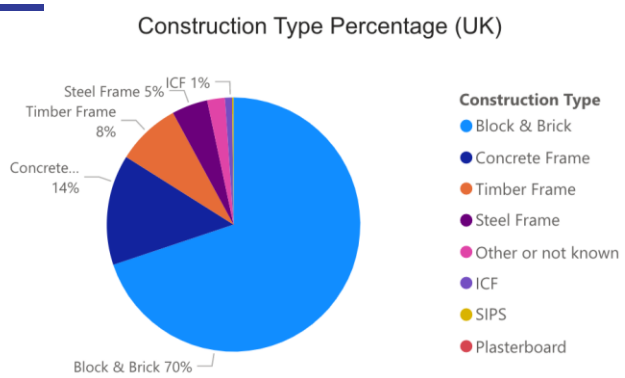


The average AP50 falls by ~3% each year. At this rate it will take over 20 years to reach net-zero homes!

The Air Tightness Testing & Measurement Association

11

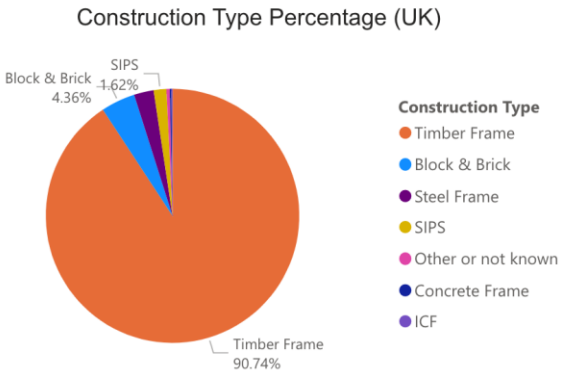
Data



70% of homes in the UK are still built using traditional methods (lightweight block, brick)

12

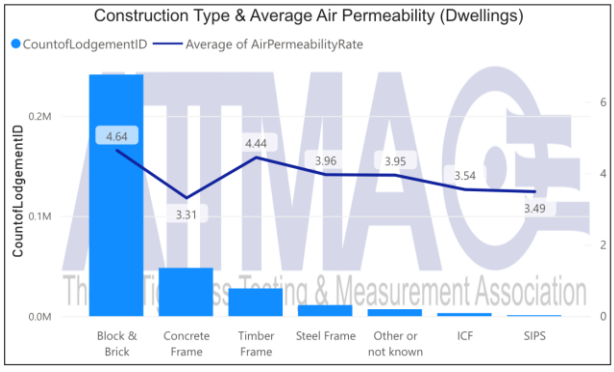
Data



However, in Scotland, more than 90% of homes are timber frame!

13

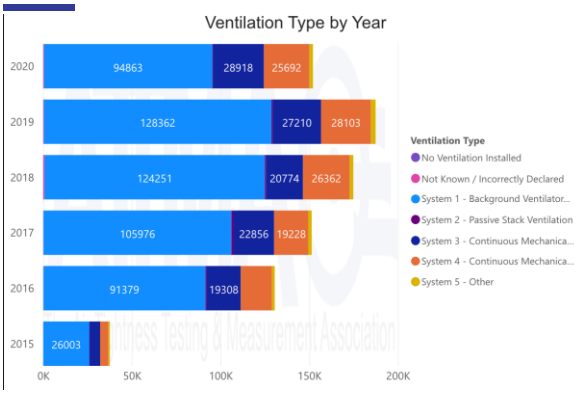
Data



Evidence shows that traditional block construction is the worst performing material to use. Perhaps we would expect better from SIPS and ICF though?

14

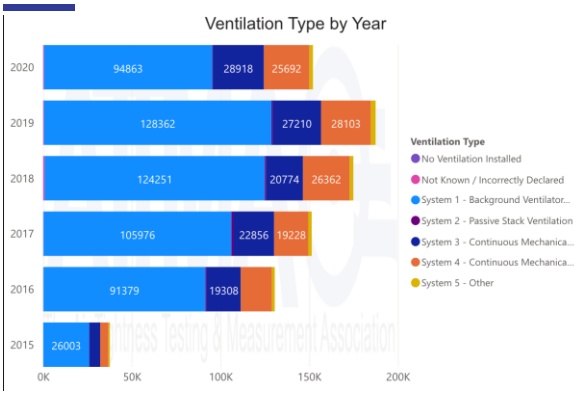
Data



Interestingly, we are building more homes with mechanical ventilation, though it is still valid to build homes with very little ventilation.

15

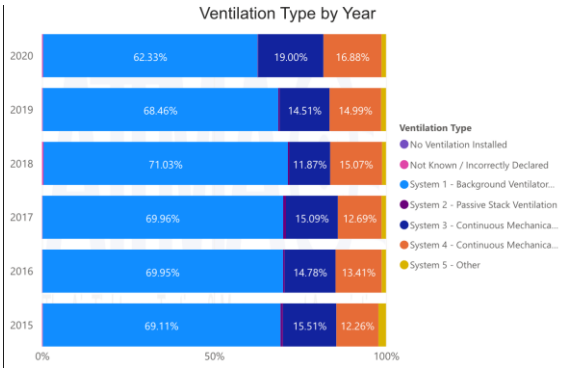
Data



Homeowners are often expected to ‘hope’ the wind is in the right direction to provide air changes.

16

Data



In fact, more than 62% of homes are constructed using ‘background’ ventilation types.

Summary

<u>Advantages:</u>

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

<u>Disadvantages</u>

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).

?