

## Air Pressure Testing achieves the lowest air leakage rate in the UK

### Use Air Pressure Testing now to achieve ultra low Air leakage Results

Air Pressure Testing has been involved with testing on various projects where extremely low Design Air Leakage Rates have been required. One such example is the Geest Banana ripening rooms. The project consisted of testing 36 individual rooms in a facility which is one of the largest ripening facilities within the United Kingdom.

The scheme for Geest had to achieve an air leakage target of **less than 0.2 m<sup>3</sup>/hour/m<sup>2</sup>** - this is by far the tightest specification to be reached by any enclosure or building in the UK to date. In fact with APT's proactive approach this target was easily achieved and actually surpassed. The final result being many of the ripening rooms achieving **less than 0.1 m<sup>3</sup>/hour/m<sup>2</sup>**. This is easily the lowest air leakage rate ever achieved in the United Kingdom, to put it in simple terms it is 100 times lower than the standard target as defined in Part L of the building regulations.

Due to the non standard size of the hatch opening/s, APT had to design and build a modified (unique) door panel to enable the test equipment to fit into the openings, due to the extreme nature of the testing there could be no air leakage as this would have a huge effect on the overall reading/s, therefore the door panel had to be completely air tight.





Each ripening room was installed with an inverter drive to control fan speed, by linking the inverter to a set pressure reading, to which the fans would maintain a set pressure.

However by achieving an even lower pressure than originally required, this helped reduce the fan/s speed even further, as there was minimal air leakage. This has resulted in the client greatly reducing the power input per fan, which has resulted in significant energy reductions and cost savings.

It is this proactive approach on that helps even the tightest air leakage targets possible, if you have an ultra low target to meet get in touch with APT now, as currently we are one of the only companies that can test down below  $<0.5 \text{ m}^3/\text{hour}/\text{m}^2$ .

Contact APT if you require consultation throughout the contract process, we can advise from initial [design/specification phase](#) through to reviewing contractors tenders proposals, contractors design proposals, on site audits, on site testing of components through to final air testing of the building.

I hope that by way of this news bulletin you are now more informed about the specialised air leakage services. We can offer a bespoke service for whatever project air leakage requirement/target you need to achieve. If you need any further information or a quotation please feel free to contact Malcolm Fish on [07967 233836](tel:07967233836) or e-mail us at [info@airpressuretesting.net](mailto:info@airpressuretesting.net)

Yours Faithfully

Malcolm Fish  
Technical Director  
Air Pressure Testing Ltd  
[info@airpressuretesting.net](mailto:info@airpressuretesting.net)