

Building Compliance
Design & Testing

Version 1.0
April 2024

ON-SITE

Smoke Shaft Air Leakage Testing

Smoke Shaft Air Leakage Testing Checklist



This free checklist is crafted to provide you with all the essential information for preparing your project, to ensure things run smoothly on the day of testing and to give you the best chance of first-time success.





Smoke Shaft Air Leakage Testing

1. Build stage

It's important that all smoke shafts we are testing have been completed and made airtight.

2. Drawings

In advance of the test, please send drawings of the smoke shaft to your Relationship Manager, as they help us calculate the envelope area before our visit. Without this, we can't accurately determine the leakage rate.

3. Target

Typically, smoke shafts have a standard leakage rate of $3.8\text{m}^3/\text{hr}/\text{m}^2$ at 50 Pa pressure. However, this can vary, so please inform us if yours is different.

4. Power

Each smoke shaft will need power. We require 110v / 240v sockets by an external door that will be used to locate the fan.

No power, no air leakage test.

5. Temporary air sealing / fan door allocation

For best results, finish the smoke shaft and seal automatic opening vents (AOVs) with tape, not just dampers. Seal them inside for better results, which might mean waiting to install AOVs until after testing. Also, ensure all floor openings are sealed airtight with plasterboard or similar material, leaving a 500mm x 500mm square opening on the ground floor for fan placement. If the ground floor opening is elevated from the floor, we will require a platform to support the fan. We recommend using air sealing tape from airsealingexpert.co.uk.





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6. Parking

We need a parking spot within 20 meters of the plot we are testing, as the equipment is heavy and very expensive. If no parking can be provided please notify your relationship manager, as parking charges will be added to the final invoice.

7. Location and site address

We aim to arrive at the designated time window, so to help us be as efficient as we can, let us know if there are any difficulties finding the site. Ideally, send us what3words. For your certification records we will require the registered site address. Please ensure the correct address is used on all correspondence, as changes will incur an additional cost.

8. Signature

A site manager or representative must be present throughout the duration of the testing—for our own safety—and be able to provide a signature once we are finished.



Free downloads


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Any queries?

For any questions regarding your test, please contact a member of our team by calling 0345 6465 454 or emailing sales@atspaceltd.com.



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No sub-contractors.
Just our friendly team.

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DELIVERING BEYOND COMPLIANCE

ATSPACE LTD
0345 6465 454
sales@atspaceltd.com
atspaceltd.co.uk

Unit 3 & 4,
The Cokenach Estate
Barkway, Royston
Hertfordshire SG8 8DL