

ON-SITE REQUIREMENTS FOR AIR TIGHTNESS TESTING

USING A BSRIA FAN ROVER

The following outlines the requirements to complete the test programme on-site.

1. All mechanical ventilation openings will require to be sealed with polythene sheet or Cordek and self-adhesive tape. Smoke extract fans/vents, etc. should not be sealed.
2. All exterior doors and windows need to be kept closed during the actual pressurisation tests.
3. **SUFFICIENT ACCESS TO A DOOR FOR EACH FAN ROVER IS REQUIRED.** The overall length, including ductwork is 15.5 m. A distance of a least 20 metres is therefore required to manoeuvre the facility into the required position and be normal to the access door. It is preferable to attach the unit to a double door or main entrance. A section of plywood, MDF or chipboard should be fitted to the open door aperture and a hole cut in the board 1.23 metres diameter with the bottom of the hole 300mm above floor level.
4. The actual test (after set up) is usually completed in well under one hour. During this period no personnel should enter or exit the building. It is preferable if the building is unoccupied.
5. There should be no moveable objects near the fan unit inside the building, since they would be displaced by the air flow.
6. The integrity of the structure should be complete for the tests.
7. Envelope areas for the Test Area(s) (building / sales floor / entire store) of the building should be provided. These are the areas of the roof and walls wherever the air sealed surface has been defined. They do not include the floor, duct or profile of the decking. Where possible the envelope areas should be provided by the architect.

Additionally for smoke tests:

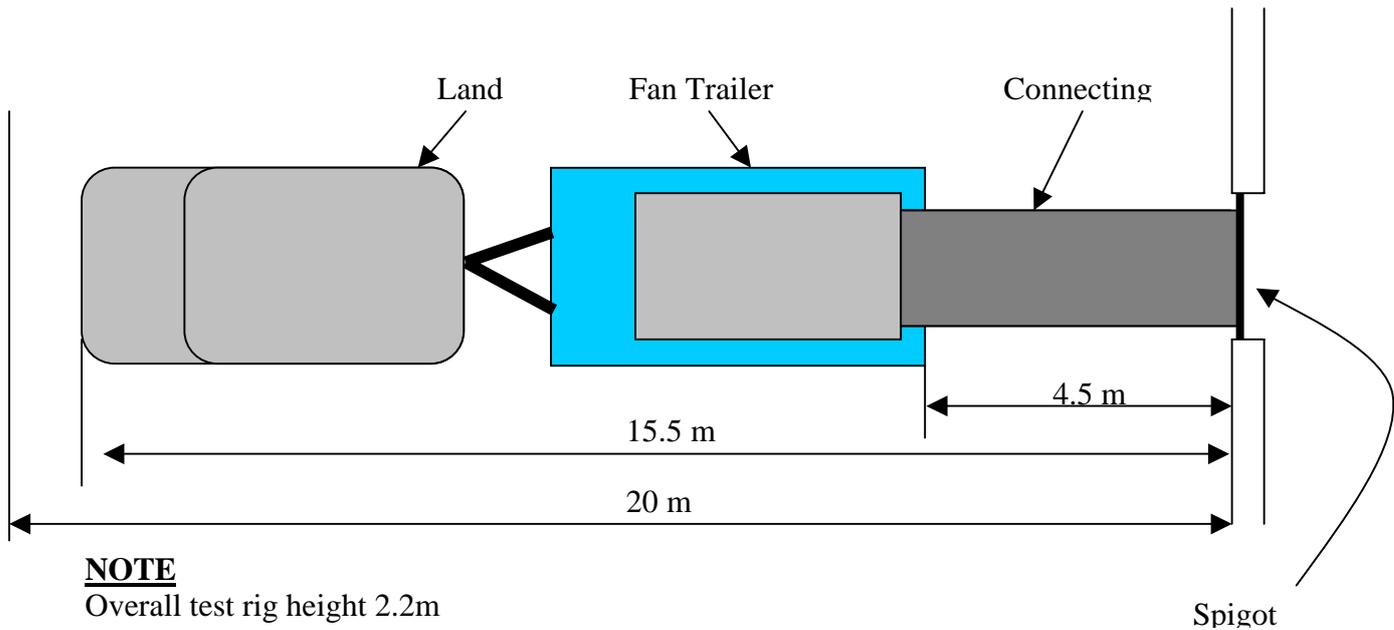
8. A longer period of time is required for the building to be evacuated for smoke tests.
9. For the whole building smoke test, six sockets distributed around the building will be required and in accordance with BS4343 (IEC 309 / CEE 17), 240 volt/50 Hz, 32 amp, 2P+E (E at 6 O'clock). It should be noted that each generator requires 20 amps for correct operation.

If you have any query relating to the above please telephone 01344 465616

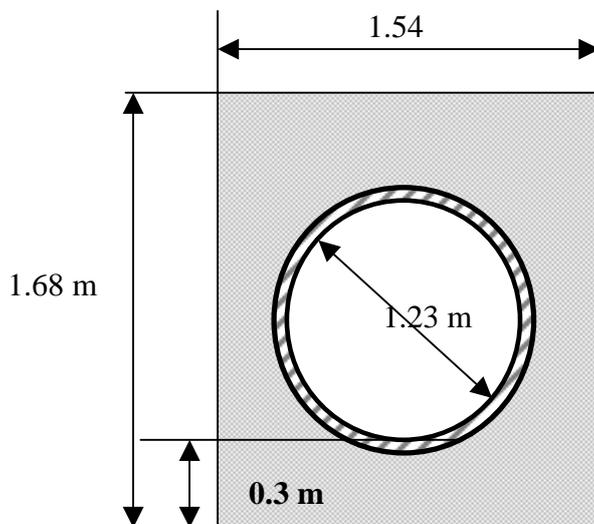


BSRIA Fan Rover Air Tightness Testing and Reporting procedures are UKAS accredited

Set-Up & Dimensions for Air Pressurisation Rig



BSRIA Spigot



The contractor is to supply suitable fixing locations to allow the BSRIA spigot board to be attached to the building, this usually takes the form of a plywood board fixed into a double door way to which the BSRIA spigot board is screwed.