

Fitting a Radon Under-Floor Ventilation System

This method statement outlines the fitment of both an under-floor and boxed under-floor ventilation system on a typical 2 to 3 bed roomed house with suspended floors. As a guide, the under-floor ventilation system can be fitted where the depth between the ground level and under-side of the suspended floor level is at least 200mm, and preferably the floor is of concrete 'block and beam' construction. In other cases the boxed under-floor ventilation system is fitted to an existing air brick.

The main components

Boxed Under-floor Ventilation System Kit

1. 1 x Boxed Under-floor ventilation fan and box.
2. 1 x 300mm x 204mm x 62mm rectangular ventilation tube.

Under-floor Ventilation System Kit

1. 1 x Under-floor ventilation fan.
2. 1 x 300mm x 150mm round ventilation tube.
3. 1 x 150mm ventilation grille.
4. 1 x protective grille cover/cowl.



Other tools and components required on site

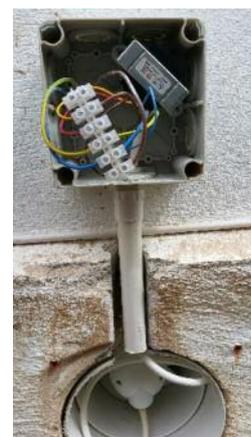
1. Internal 25 x 16mm rectangular wiring conduit, joints, and 2.5 mm Twin and earth cable.
2. External 20mm circular wiring conduit, joints, and 1mm 3 core flex.
3. Fused spur and back box.
4. Core drill and cutters.
5. Hand drill and drills.
6. Fixings.
7. Silicone sealant.

Other optional tools and components

1. Speed controller

Step 1: Fitting the electrics

1. Decide where the fused spur will fit, and find a suitable point, on a nearby radial or ring circuit for the radon system to be connected to, such as an electrical socket.
2. Drill a hole through the wall from the inside of the house to the outside, behind the location of the fused spur.
3. Fit the fused spur and back box over the point where the hole goes through the wall.
4. Fit internal rectangular conduit between the socket and the fused spur. The use 2.5mm twin and earth to connect the two points.
5. Fit the external round conduit and 1mm 3 core flex from the spur, out through the wall, to the chosen location of the fan box outside.
6. Test electrical system to issue minor works certificate.



Step 2: Fit the radon under-floor ventilation kit

For the Under-floor ventilation kit

1. Core a 150mm hole through the cavity wall using the core-drill.
2. Place the 150mm round ventilation tube inside the cored hole.
3. Fit the fan in the 150mm sleeve.
4. Connect the fan to the 1mm flex and external conduit.
5. Place fan inside the sleeve.
6. Fit inlet grille to front of sleeve.
7. Fit protective cover over grille.



For the Boxed-under-floor ventilation kit

1. Remove existing air brick.
2. Fit rectangular sleeve, if required.
3. Fit fan box to sleeve, and onto wall.
4. Fit fan into box and wire into electrics.
5. Fit lid on box.



Step 3. Fit extras and test the system

1. Fit any extras such as a speed controller, if required.
2. Test the system for adequate air flow.



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