

Report on the Ventilation Solution installed at 930 Oxford Rd. Reading.

Our engineers have installed a constant running fan into a bedroom at the rear of the property at 930 Oxford Road, Reading. This property had no natural ventilation and the system we have installed is the only viable option to ventilate this room.

The volume of the room dictates that there needs to be 6 litres per second extracted and replaced in the room to give the building regulation standards of 3 air changes per hour.

The air is mechanically extracted via the fan and sent through ductwork to the rear of the property where the air is exhausted to atmosphere. The air exhausted is replaced by air being supplied via a 10mm undercut on the door. This air is brought into the property via trickle vents at the rear of the property and natural ventilation movement in the hallway areas. The fan is fitted with a boost facility linked to a humidity stat. If the extracted air is not replaced sufficiently with fresh air the humidity stat will recognise this and increase the fan speed until the air is once again balanced in the room.

We tested the air volume being extracted by the fan with a fully tested vane anemometer and got a reading of 7 litres per second which was witnessed by the foreman on site. We also photographed it (attached) to prove that the fan is performing well and that the required air movement is happening within this room.

I am satisfied that this system is working better than building regulation expectations and in our opinion is fit for purpose.

Mark Phillips
Director
Total Air Quality Ltd.