

**40 Heroes Walk, Whitley, Reading, RG2 8TY**

**Proposed 1 No. 3 bed detached house adjacent to 40 Heroes Walk**

**Air Quality & Traffic Noise Mitigation**

**Introduction**

This statement accompanies a planning application to erect a single 3 bed dwelling house. The site is located within an Air Quality Management Area relevant to the adjacent B3102 trunk road.

**Proposed Mitigation**

Mitigation of noise and particle pollutants potentially affecting the occupants shall include acoustic trickle ventilation to habitable room windows, and a Positive Input Ventilation system installed within the roof space - to include 'F7' HEPA filtration capable of filtering out diesel engine particulates.

Trickle ventilation with an equivalent area of 8000mm<sup>2</sup> to each habitable room is required by building regulations. Acoustic ventilators achieving a minimum 33dBI noise reduction in open position, as recommended by the WHO shall be installed to window heads.

A Positive Input Ventilation system shall be installed in the loft space, drawing air into the landing area. The system shall include pre-heated air and 'F7' HEPA filters, providing air circulation negating the need to open windows, and drawing diffused air via the loft space while reducing the level of particulates. A vent axia 'Lo-Carbon PureAir Home' unit including 500w winter air pre-heating shall be installed accordingly.

**Contribution Air Quality Improvement**

The provision of electric vehicle charging points and secure cycle storage will facilitate low emission travel.

Nicholas J Bundy