

Charles Street

Ventilation Design Strategy



Ventilation Design Strategy:

The proposed ventilation design strategy for the Charles Street Student Accommodation development is noted below.

The Bedrooms :

A Mechanical Ventilation Heat Recovery Unit(MVHR) will be provided to each bedroom to provide supply & extract air to the room, the en-suite shall have a ceiling mounted extract valve ducted to the MVHR unit located within the ceiling void, there will be a door-undercut on the en-suite door to facilitate the supply air through to the en-suite. The bedroom & kitchen area will be provided with both ceiling mounted supply air & extract air valves, the supply valve will be located over the bed & the extract valve will be located adjacent to the kitchen hob, the valves shall be ducted back to the MVHR. The MVHR unit will have fresh air and exhaust air terminations connections to the façade via the head of the decorative perforated screens or terminating to the underside of the spandrel zone. Purge ventilation shall be provided to the bedrooms via casements behind the perforated panels.

The Amenity Areas :

Ventilation to the FOH spaces, offices, study areas, parcel room and toilets will be provided by MVHR units located with the ceiling void of the intended spaces. The MVHR units will have fresh air and exhaust air terminations connections to the façade via the head of the decorative perforated screens or terminating to the underside of the spandrel zone. The MVHR units shall operate continuously to provide a variable air volume flow rate dependant on the CO2 levels in the return air ductwork from the space the MVHR serves.

BOH Areas:

The Bin & Cycle stores shall have their own dedicated extract fans to operate continuously with make up air provided via the louvred doors to each space.

Design Flow Rates:

All ventilation design flow rates shall be sized in line with the client ERs, relevant CIBSE guides and Building Control Regulations

SIGNED*Dermot Mc Laughlin*

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