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Bruntwood

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KINGS HOUSE VENTILATION STATEMENT

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VENTILATION STATEMENT

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1. VENTILATION

Ventilation will be provided to all parts of the development given due consideration to the use, occupancy requirements and function of each space.

The design will be compliant with Approved Document Part F, Part L, CIBSE Guide A, British Council for Offices Guidance and relevant BS/ EN Standards.

1.1 Ventilation for Office Areas

Mechanical supply and extract ventilation to the main office floors will be provided via local mechanical ventilation with heat recovery (MVHR) units, located under the soffit across the floor plates. The MVHR units will be selected for low energy consumption (low SFP) and high efficiency heat recovery to provide a minimum of 12 l/s/person. CO2 sensors shall be provided to allow the on-floor ventilation rates to modulate with occupancy for energy savings purposes.

All ventilation units will be covered under Part L of the Non-Domestic Compliance Guide methodology so that the performance can be captured under the energy modelling. All units shall feature a summertime bypass mode so that the heat recovery does not contribute to overheating.

All office areas shall be compliant with Approved Document Part F of the building regulations (with regards to mechanical ventilation rates) and will comply with the CIBSE guidance on thermal comfort.

Ductwork attenuation shall be provided where recommended by the acoustic engineer.

1.2 Ventilation for Changing Areas

The Basement Floor Changing Areas will be served by a centralised mechanical ventilation with heat recovery system. The Air Handling Units (AHUs) will be selected for low energy consumption (low SFP) and high efficiency heat recovery to provide a minimum of 6 ach during operating hours.

Supply and extract distribution ductwork shall be routed via the ceiling void to discharge fresh air to the space via ceiling mounted diffusers. Vitiating air will be extracted directly out of the space via a series of ceiling mounted extract grilles or valves and discharged to atmosphere via façade mounted louvres at the rear of the building within the ground plant room.

Units will be selected to ensure compliance with Part L and the Non-Domestic Building Services Compliance Guide.

The showers and changing areas will be designed in line with CIBSE and Part F of the Building Regulations.

1.3 Ventilation for Cycle Stores

Cycle stores shall be mechanically ventilated in order to prevent the build-up of nuisance odour. 6 air changes (ACH) of mechanical extract ventilation will be provided with make-up air provided via Louvres.

1.4 Ventilation for Plant Rooms

Plant room ventilation will be compliant with Approved Document Part F of the building regulations.

Ventilation rates will also consider overheating and acoustics with respect to welfare of staff and the nuisance to adjacent properties. Where possible, plant rooms will be naturally ventilated; however, where this is not considered feasible, mechanical ventilation will be used.

1.5 Summary

The ventilation strategy for the building will comply with all relevant regulations and standards appropriate for the class of use and function of the space such as Approved Document Part F, Part L, CIBSE Guide A and BS/ EN Standards where required.

Where advised by the air quality consultant, filters will be provided on air intakes.

Where advised by the acoustic consultant, attenuators will be provided as required.