VENTILATION STRATEGY

For

KEMPS CORNER

CHORLTON RESIDENTIAL REVIEW

Prepared By

77 Tib Street
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1.0 INTRODUCTION

This report has been prepared to communicate the Ventilation strategy for the Chorlton Residential Project at Kemps Corner.

The report describes the ventilation system and its operation and is in response to planning condition 5 and Building Regulation requirements.

Planning condition 5 states:

Prior to commencement of development, a scheme for a clean air intake shall be submitted and approved in writing by the City Council as Local Planning Authority.

The information contained within this report together with the overheating study are presented to discharge planning condition 5.

3.0 VENTILATION STRATEGY

To comply with the planning condition 5 and building regulations for dwellings. Both fresh air and extract air need to be considered. Each apartment shall have a mechanical ventilation heat recovery system (MVHR) comprising inlet and outlet louvres within the building façade connecting a heat recovery fan unit, located in the store cupboard. Air shall be distributed via a flat duct system positioned within the ceiling void. Extract points are provided at the kitchen and bathrooms with fresh air provided within bedrooms and living spaces. Refer to diagram 1 for a typical apartment layout.

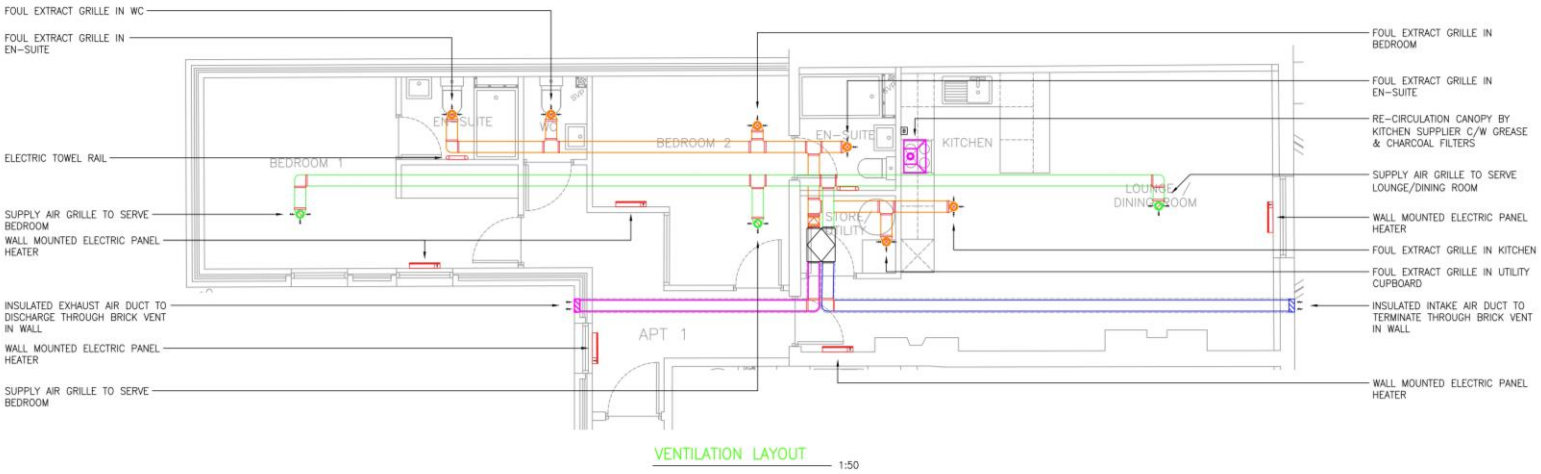


Diagram 1 Typical apartment ventilation layout

The system is designed to operate on a continuous trickle ventilation basis with the facility to boost the ventilation rate subject to local requirements.

The facility provides ventilation to remove condensation, heat and contaminants and provide the correct amount of filtered fresh air without the need to open windows and in accordance with planning condition 5. Purge ventilation is provided by opening windows.

Each apartment is self-contained and connected through the apartment electrical supply.

An overheating study has been undertaken, refer to separate report, which indicates that the apartments can perform satisfactorily with the windows in the closed position and throughout all seasons.

The use of the MVHR systems and overheating study are in accordance with the recommendations in the Noise Assessment report and therefore comply with planning condition 8 internal noise levels.