

**Sunlight House
Ground and Basement Refurbishment**

**Ventilation Statement
For Planning**



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Approvals

This document requires the following approvals.
Signed approval forms are filed in the Management section of the project files.

Name	Signature	Title	Date of Issue	Version
Rich Hart		Director	29/06/2023	P1

Distribution

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1.0 Executive Summary

This Ventilation statement is intended to support the listed building and planning application for the proposed Sunlight House Ground and Basement refurbishment project.

The Ground and Basement levels will utilise new mechanical supply and extract ventilation to the proposed Restaurant, Central Atrium Retail Space and Atkinson Street Retail area, and mechanical extract to the new showers and toilets. New mechanical kitchen supply and extract ventilation will be provided to Restaurant Kitchen areas with grease destruction, smoke and odour control as required and shall exhaust at roof level.

2.0 Introduction

2.1 Context

King Associates has been commissioned to prepare a Ventilation Statement to accompany a planning and listed building application for the proposed development of the Basement and Ground floor of Sunlight House, Manchester.

2.2 Site Description

The building is an existing 14 storey office block, with retail and leisure facilities in the Basement and on the Ground Floor Level. It is located on Quay Street, just off Deansgate in Manchester City Centre.

2.3 Description of development

The proposals for the development of the site are to refurbish the Ground and Basement areas to provide leisure and retail space. Further details on the proposed works are set out in the accompanying Design Statement prepared by Anomaly Architects.

2.4 Scope of this report

This Statement details the ventilation strategy for the central atrium retail area, proposed restaurants including kitchens, shower block and Atkinson Street retail areas. This ventilation statement does not include the reception and office floors which are under a different planning and listed building consent application.

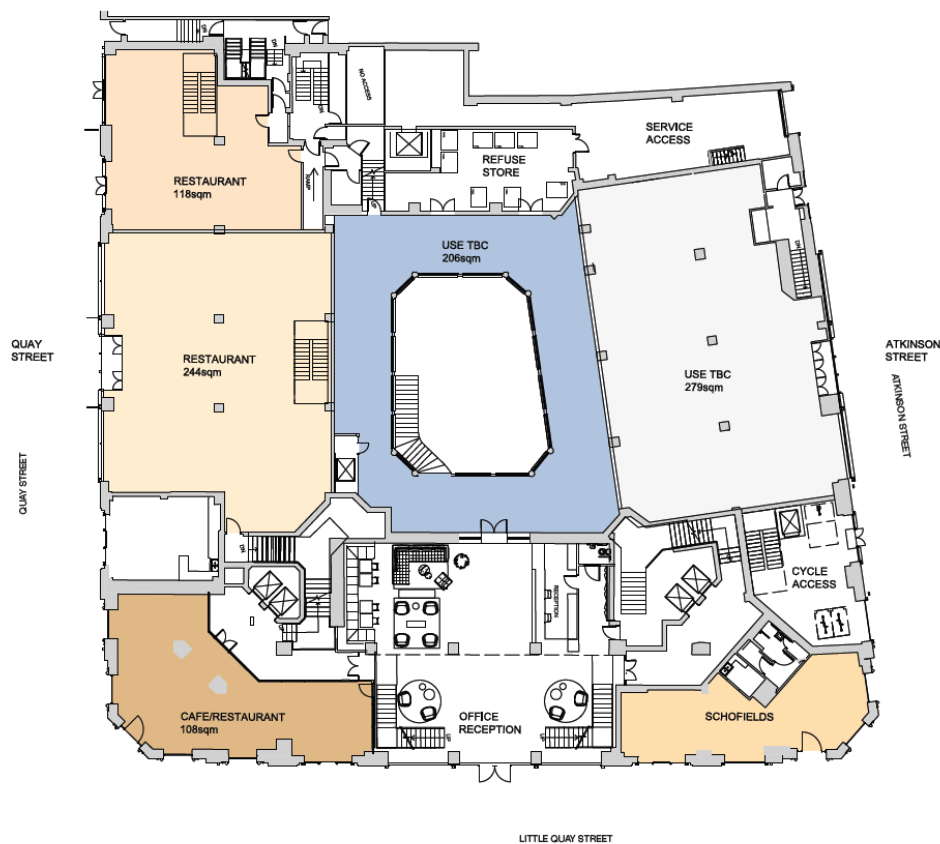
The following sections set out the approach to the Restaurants and kitchens, then the retail and leisure areas and the later section contains information on the shower block.

3.0 Ventilation Proposals

3.1 Restaurants

For the new Restaurants general mechanical supply and extract ventilation shall be used to provide fresh air and extract stale air to suit the number of occupants in line with Part F requirements. The air shall be filtered / treated to remove any odours before it is exhausted at street level.

Separate kitchen supply and extract ventilation shall be provided to the cooking areas as detailed in the next section.

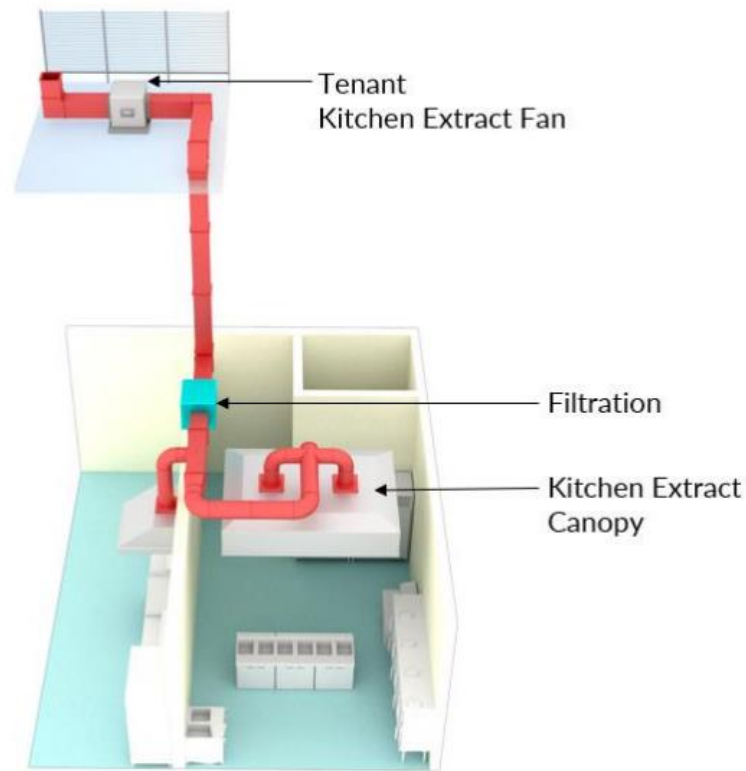


Ground Floor Layout

3.2 Restaurant Kitchens

New mechanical extract ventilation shall be provided to extract odours, steam and grease laden air from the Restaurant kitchens. The system shall be in accordance with HVCA Standard DW172 and DEFRA Guidance on control of odour and noise for commercial kitchens. The extract ventilation shall include grease destruction, smoke and odour control as required and shall exhaust at roof level via a new riser. The flue termination shall discharge vertically with no restriction at the point of exit. New mechanical supply ventilation shall provide make up air to the cooking areas and shall be sized so as to ensure a negative pressure always exists within the kitchen to

ensure fumes and odours are captured and treated by the specifically designed system rather than escaping via other methods.



Typical kitchen extract system

3.3 Central Atrium and Atkinson Street Retail space

For the central atrium mechanical supply and extract ventilation shall be used to provide fresh air and extract stale air to suit the number of occupants in line with the requirements of Part F.

3.4 Shower Block

The showers and toilet areas shall be provided with balanced supply and extract ventilation to provide fresh air and extract moist stale air in line with the requirements of Part F.

3.5 Attenuation

Attenuation shall generally be provided on both the intake and discharge sides of all supply and extract fans in order to reduce any noise reverberation within the ductwork and to mitigate the extent of any noise breakout to the local environment. Attenuation shall also generally be provided on the room side of all supply and extract fans in order to control noise levels of the mechanical ventilation systems within the internal environment.