

SLIDAWAY LTD
VENTILATION & AIRCONDITIONING ENGINEERS

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44 High Street
Gravesend
DA11 0AY
Attn: Mr Aalim Khan

21st August 2024

Dear Sir

The following provides a description of the proposed kitchen and general ventilation for 44 High Street, Gravesend:-

The scheme will be generally as indicated on accompanying drawing no. SL/HSG/V1. Extract from the kitchen will be achieved by a 4200mm long x 1400w x 500 high stainless canopy complete with grease filters and condensate channels. A system of galvanised sheet metal exhaust ductwork will be installed internally and externally to the building from the canopy to a special discharge cowl positioned at roof level, This ductwork system will incorporate an electrostatic precipitator unit, an exhaust fan and an attenuator all of which will be installed internally in the building. The ductwork system will be provided with cleaning access panels. Ductwork passing through the stairs lobby will be 3 hour fire rated and encased.

The purpose of the special cowl at roof ridge level will be to eject the discharge air to atmosphere at high velocity in an upward directed jet

motion to reduce the risk of odour problems from the system. This is a well proven method of odour control for kitchen extract systems.

The electrostatic precipitator will carry out the task of removing oil, grease and smoke particles from the system.

The cased fan will be of the cased box type with double skin acoustic panels. The fan will have speed control facilities.

An inline attenuator will be installed in the discharge ductwork after the fan to help reduce noise at the exhaust. The attenuator will be selected to accord with the project noise impact report. The attenuator will incorporate a protective membrane to protect the acoustic media from grease impregnation.

Make up air will be by natural means.

The kitchen wall along the long side of the canopy will be lined with stainless steel sheeting.

A strategy will be put in place for ongoing servicing and maintenance of the plant and system.

For general ventilation, a MVHR unit will be installed at high level ground floor to provide supply air to the ground floor and nominal supply air to the basement. Extract air will be achieved at the unit using a bell mouth inlet and duct connection. The unit shall have ductwork connections for intake and discharge air from and to atmosphere. The inlet ductwork will be thermally insulated.

**Yours faithfully
Peter Littlefield
Slidaway Ltd**