

308 Kingshill Avenue, Hayes, UB4 8BX
Specification for Kitchen Extract Ventilation
(Prepared in accordance with the Annex B of the DEFRA
Document)

Information on the premises

- The Use of the premises is Hot Food Takeaway (A5).
- Type of meals served – Fried chicken, chips, burgers etc
- Method of preparation and cooking is fryer and grill.

The Extract System:

- 3200mm x 1000mm stainless steel extract canopy complete with grease filter and integral lighting. Grease filter to be ACK aluminum baffle grease filter FA50 – 1220 - BA
- The length of the overhang of the cooker hood is 300mm.
- The face velocity of the cooker hood is $0.35\text{M}^3/\text{S}$.
- Kitchen extract fan complete with necessary in-line attenuation and anti-vibration mountings to suit specified noise constraints.
- Galvanised sheet metal ductwork routed to outside complete with access hatches at suitable intervals (min 3M centres) throughout to facilitate cleaning.
- High velocity, vertical discharge terminal at roof level (terminal velocity $10\text{M}/\text{S}$) discharging exhaust air to atmosphere to minimize odour nuisance.

Technical Data:

- Kitchen extract rate: $2.1\text{M}^3/\text{S}$
- Exhaust terminal velocity: $10\text{M}/\text{S}$
- In duct velocity: $8\text{M}/\text{S}$
- Ductwork specification: HVCA DW172
- Ansul fire suppression standard: UL300

Odour Control and Filtration Measures:

The following measures will be employed for the prevention of odour penetration between buildings:

- The exhaust ductwork will be routed to discharge vertically at high level.
- The exhaust direction will be vertically upwards.
- A high velocity, tapered, discharge terminal will be incorporated to achieve a terminal velocity of $10\text{M}/\text{S}$.
- Two stage grease filters will be fitted within the kitchen extract canopy.

Noise/Vibration Issues

The following measures will be employed to prevent nuisance from noise and vibration:

- All extract plant and machinery will be isolated from the building structure with anti-vibration mountings.
- Atmosphere attenuation will be fitted downstream of the extract fan prior to the ductwork breaking out externally. The attenuator will be selected to provide the necessary insertion loss and satisfy any specified external noise level.

External Ductwork Finish

- The external ductwork will be galvanized metal finish.

Schedule of Maintenance

- Cleaning of washable grease filters – twice a week.
- Frequency of inspection and replacement of filters – 3 monthly.
- Inspection and servicing of fans – annually.