

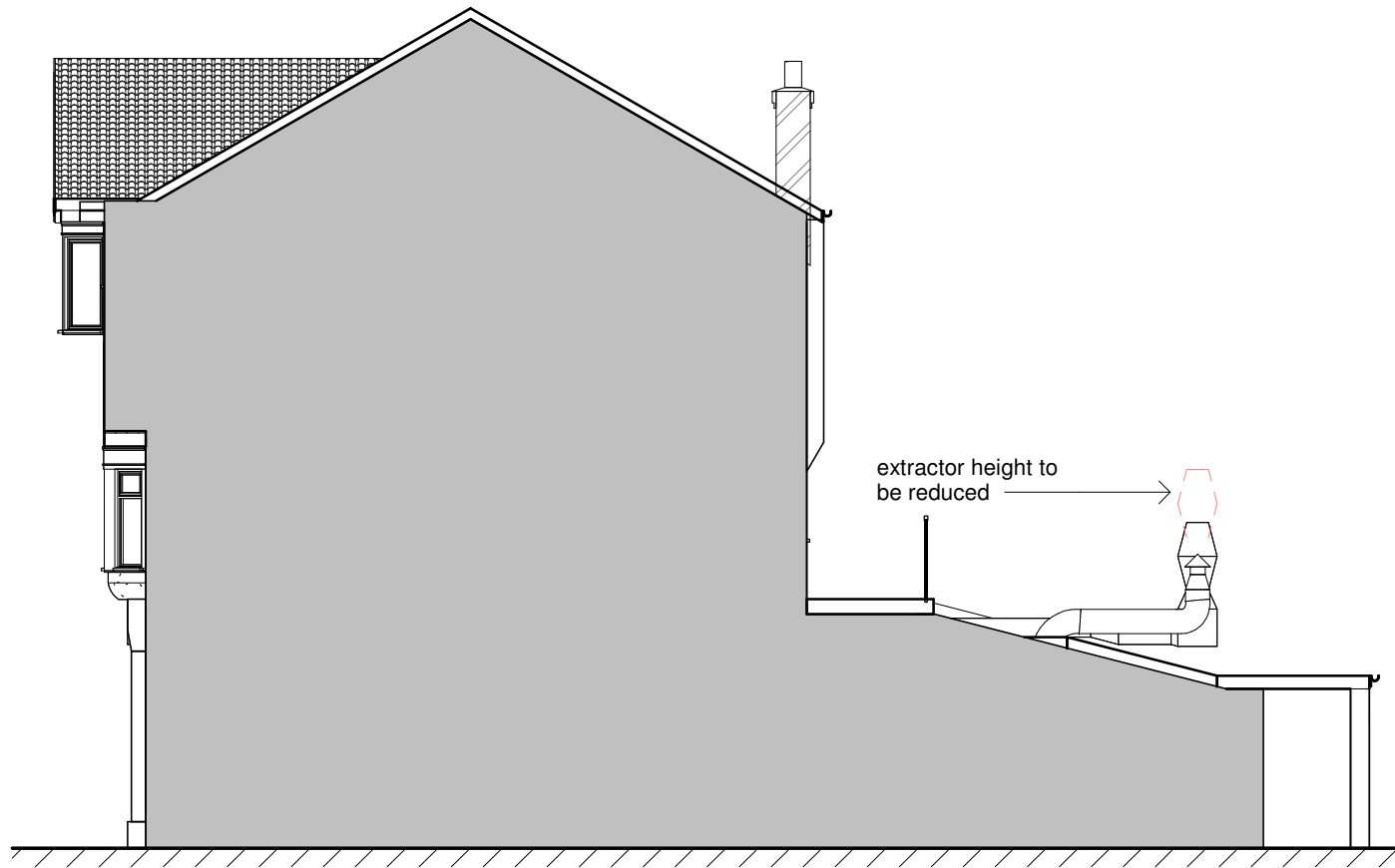


Proposed Front Elevation

1 : 100

KITCHEN VENTILATION SPECIFICATIONS

1. Stainless steel canopy measuring 3700 mm x 1100 mm o/a built from a high grade stainless steel, this incorporates a full length filter housing which has removable grease filters measuring 500 mm x 500 mm x 50 mm, these are easily removed for cleaning and maintenance purposes. There is also grease trays fitted under the filter housing to catch any excess grease.
2. All the ducting provided conforms to the DW172 European guidelines
3. The acoustic Silencer which is fitted just after the fan will reduce the noise level from 55db to 35 dn @ 3 meter to meet the guidelines
4. The Carbon filter box measures 600 mm x 600 mm x 600 mm and incorporates a pre filter and a bank of carbon filters to remove the cooking odours (maintenance of this is the responsibility of the client)



Proposed Side Elevation

1 : 100

MINIMUM VENTILATION RATES

- An internal ambient air temperature of 28 deg C Maximum
- Maximum humidity Levels of 70%
- Internal Noise Level should be between NR40 - NR50.
- Dedicated make up air system to be approximately 85% of the extract flow rate
- Minimum air change rate of 40 per hour (bases on Canopy and general room extraction)

All Ductwork should be fitted with anti-vibration caused by air passing through.

FANS TO BE PROVIDED WITH MINIMUM REQUIREMENT BELOW :

- Fan must be capable of dealing with the operating static pressure within the duct work and should be designed with a minimum 10% pressure margin.
- Backward curved centrifugal, mixed flow or axial flow impellers are as they are less prone to imbalance and are more easily maintained/cleaned due to their open construction. Fixed or adjustable metal impellers with a robust and open construction will be used.
- Fan motors should be rated to IP55 with no need to mount the motor outside of the air stream. For Fans that have motors within the air stream and are ventilating cooking equipment that produce high levels of temperature and humidity the specification for the motor should be upgraded to withstand more onerous conditions.

Ventilators have to be designed to provide adequate internal noise levels to protect the amenity of residents.

The ventilation system must be designed to provide sufficient sound insulation not to degrade the insulation of the facade. It must be quiet in operation- e.g. 35dB(A) at maximum flow.

Sound attenuating mechanical ventilators are acoustically treated extract/intake fans.

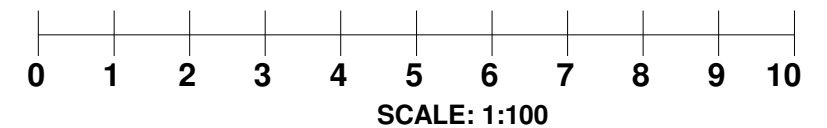
Ductwork should be fitted with anti-vibration caused by air passing through.

Grease filters, carbon and pre-filters to be provided.

Electrostatic Precipitator:

Electrostatic precipitators are used to clean the airstream of grease and hydrocarbons (smoke). This equipment works as; greased dirty air is drawn by the motor/blower through a washable metal mesh pre-filter which traps large dust particles. The remaining particles, some as small as 0.01 microns, pass into a strong electrical field (ionizing section) where the particulate receives an electrical charge. The charged particles then pass into a collector plate section made up of a series of equally spaced parallel plates. Each alternate plate is charged with the same polarity as the particles, which repel, while the interleaving plates are grounded, which attract and collect. 1X ESP 4500E Electrostatic Precipitator.

- Electrostatic Precipitator shall be mounted internally before the extract fan.
- These highly efficient units can remove particles small as 0.01 micron at an efficiency of 90%.
- Sound Level : 0dB(A).
- All above mentioned extractor ventilation system equipment shall be installed c/w anti-vibrating mounts as per manufacturer's recommendations.
- ESP module and other in line abatement should be cleaned every 2-6 months.



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9 CORNER HOUSE
PARADE
EPSOM ROAD
EPSOM KT17 1NX

PROPOSED ELEVATIONS		
Project number	23349	23349/05
Date	NOV	
Drawn by	SZ	
Checked by	Checker	Scale
		1 : 100