

ARCHWAY

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TEL: 020-8365-0760 FAX: 020-8365-9670

1-3 PAXTON ROAD, LONDON N17 0BP

Ref: Hampstead Creperie
77 Hampstead High Street
London
NW3 1OE

Date: 19/09/11

Dear Sirs

With reference to the above site visit and to dimensions supplied to us, we are happy to specify the following calculations for the existing and proposed ventilation system.

Calculations

It is assumed that the extracted air is replaced by at least 85% fresh via the serving hatch or door. At least one of these has to remain open at all times whilst gas appliances are being used.

Existing installed gas equipment is as follows:

One single crepe griddle (0.41m x 0.41m = 0.168sqm) with canopy overhead

One double crepe griddle (0.82m x 0.41m = 0.336sqm) with canopy overhead

Using Thermal Convection Method (HVCA DW/172)

Griddle coefficient is 0.30

Total area of cooking is $0.168 + 0.336 = 0.504\text{sqm}$

$0.504\text{sqm} \times \text{coefficient } 0.30 = 0.151 \text{ m}^3/\text{sec}$

$0.151\text{m}^3/\text{sec} \times \text{canopy factor } (1.35) = \underline{0.20\text{m}^3/\text{sec}}$ *extract requirement for existing installation.*

continued

I hope this information proves useful to yourselves and please do not hesitate to contact me if you require any further information.

Yours Faithfully

George Josif

References: Heating and Ventilating Contractors Association Specification For
Kitchen Ventilation Systems DW/172, Defra