

Planning Department

Gravesham Borough Council

Dear Sir/ Madam,

POST OCCUPANCY WORK AT 147 PARROCK STREET, GRAVESEND, KENT, DA12 1EY

The extraction system had been installed within the 2023 year according to documents submitted under 20230754. However, for final report after installation is below for the local borough council

Application for Rear Ground Floor

-Kitchen Ventilation System

The existing extraction system comprises of stainless-steel canopies above the cooking equipment which is fitted with removable baffle filters. The air is then ducted to a carbon filter unit and then into the Helios Gigabox 450/4 fan motor. It is then ducted through a silencer and to a high-level vertical discharge (1m above eaves) via jet cowl.

Condition 5

Comment ;

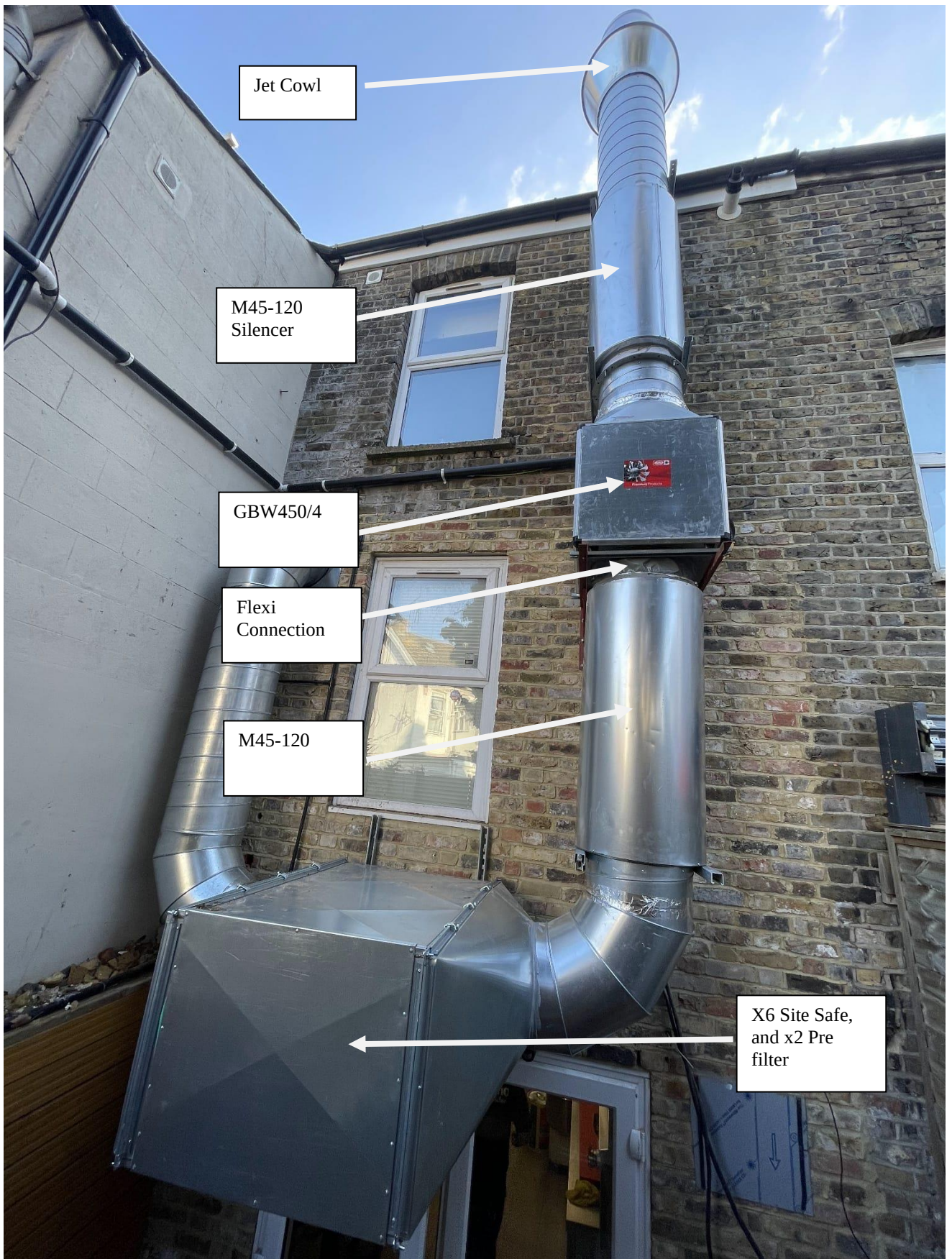
The applicant is advised to read the wording of the condition carefully before submitting any further information. The commissioning report for this condition must include details of all of all control equipment that has been installed, providing proof of installation such as serial numbers and photographs. Minimum discharge rates are also required by the condition, and this is to ensure that the cooking odours can be pulled through the system and discharged at an adequate speed to enable good dispersal. These rates need to be demonstrated in the compliance report. Details of maintenance such as maintenance and a servicing schedule must also be included.

Answer;

In this ventilation application, 6x Activated carbon site safe (PA240824) and also 2x pre filter (Longar Type 2) had been installed and activated. The site-safe carbon filters use panels of activated carbon to remove the malodours gases within the commercial kitchen extract duct through the process of chemical adsorption. And discharged from terminal via jet cowl

Maintenance ;

*All maintenance should be carried out in accordance with the planned maintenance set by the installation contractor and the filter needs to be replaced **four-times** annually.*



Jet Cowl

M45-120
Silencer

GBW450/4

Flexi
Connection

M45-120

X6 Site Safe,
and x2 Pre
filter

Condition6

Comment;

the applicant is advised to read the wording of the condition carefully. The commissioning report will need to include details of all equipment that has been installed and again provide proof by e.g.; serial number and photographs. As this condition relates to noise, this will include equipment such as fans, attenuators, anti-vibrational mounts, flexible couplings, flue, flue termination etc. A noise consultant will also need to undertake noise measurements of the system in operation to demonstrate that noise emitted from it is 10dB(A) or more below the background noise level at the nearest independent noise sensitive premises when measured and assessed in accordance with BS4142. As the premises operated until 11pm, it is recommended that noise levels are included around this time as 11pm will be quieter in terms of background noise when compared to earlier in the day.

Answer;

The post noise impact assessment has been submitted and proof that noise emitted 10dB below the background noise level at the nearest noise sensitive premises. On top of that, the correct silencers have been installed as seen in the picture.

Typical Noise Reduction (dB) - Centre Band Frequency

Product Code	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
CP01 - M45 - 030	1	1	4	10	14	15	12	7
CP01 - M45 - 060	2	4	6	14	16	16	13	11
CP01 - M45 - 090	3	6	8	17	24	21	15	11
CP01 - M45 - 120	4	8	13	20	29	25	16	11

The rating noise level at the nearest sensitive receptor, with the mechanical plant operating, has been measured at 56dB LAeq,1hour which is 8dB(A) above the typical background noise level (48dB LA90,15min). In accordance with BS 4142:2014+A1:2019 guidance, the rating noise “is an indication of the specific sound source having a significant adverse impact”. The lower the rating level is relative to the measured background level, the less likely it is that the specific sound source will have an adverse impact.

Final post-work verification noise result ;

Adding dB								
<u>Levels to be added</u> (Max. of eight)								
<i>Enter values</i>	30	34	33	0	0	0	0	0
				Total = 37.4 dB				

Predicted Existing Sound Pressure Level @ 1st Floor Window = 37dB dB L_{A,r,T}

<u>Adding dB</u>									
Levels to be added (Max. of eight)									
Enter values	30	34	33	0	0	0	0	0	0
Total = 37.4 dB									

Predicted Existing Sound Pressure Level @ 1st Floor Window = 37dB dB $L_{Ar,T}$