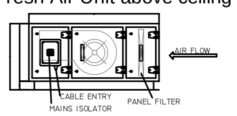
VENTILATION DESIGN PRINCIPALS
EXTRACT NOISE
TO BE CONTAINED BY
~ Selection of low noise plant
~ Mounting on floor or substructures
~ Use of flexible elements between ducts and .....fans
~ Attenuated motor to be mounted on anti .....vibration brackets to isolate from structure
~ Lagging of ducts and motors

Noise output from motor, attenuation to be designed not to raise the average low point background at the nearest residential windows.

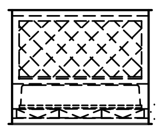
EXTRACT ODOURS
High exchange air rate at 30 changes per hour.
Oven based cooking, no grease or fats. High level remote exit point will disperse any immediate baking smells.

AIR INTAKE
Low mounted louvre to attenuated intake fan 50 db at 3m or lower dependant on low average background. Replaces air at 80% extract rate.

Helios Fresh Air Unit above ceiling



Helios GBW 450/4 Fresh Air Unit
Duty: 0.914m³/sec @ 250 Pa.
Noise Level: 40dba @ 4 metres
C/W FLEXIBLE CONNECTIONS AND VIBRATION MOUNTINGS

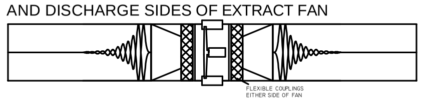


Carbon Filter: 2 no. 600mm cube blocks within housing with pre filters.
Dwell Time: 0.1 seconds

Silencers: Extract - 2no. 550sq x 1200 long Supply - 2no. 500sq x 1200 long

Helios extract Fan & silencer arrangement

1200 LONG SPLITTER ATTENUATORS ON INLET AND DISCHARGE SIDES OF EXTRACT FAN



Canopy Extract: Helios GBW 500/4 Centrifugal fan
Duty: 1.3m³/sec @ 250 Pa.
Noise Level: 45dba @ 4 Metres

CENTRIFUGAL FRESH AIR FAN C/W FLEXIBLE CONNECTIONS AND SUSPENDED FROM THE JOISTS ON ANTI VIBRATION MOUNTINGS

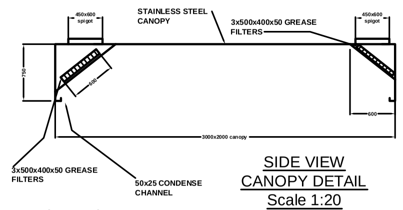
FAN / ATTENUATOR ACCOUSTIC DATA

Extract - Helios GBW 500/4 Centrifugal fan

63 Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz
-5db	-9db	-18db	-32db	-40db	-39db	-28db	-19db

Fresh Air Helios GBW 450/4

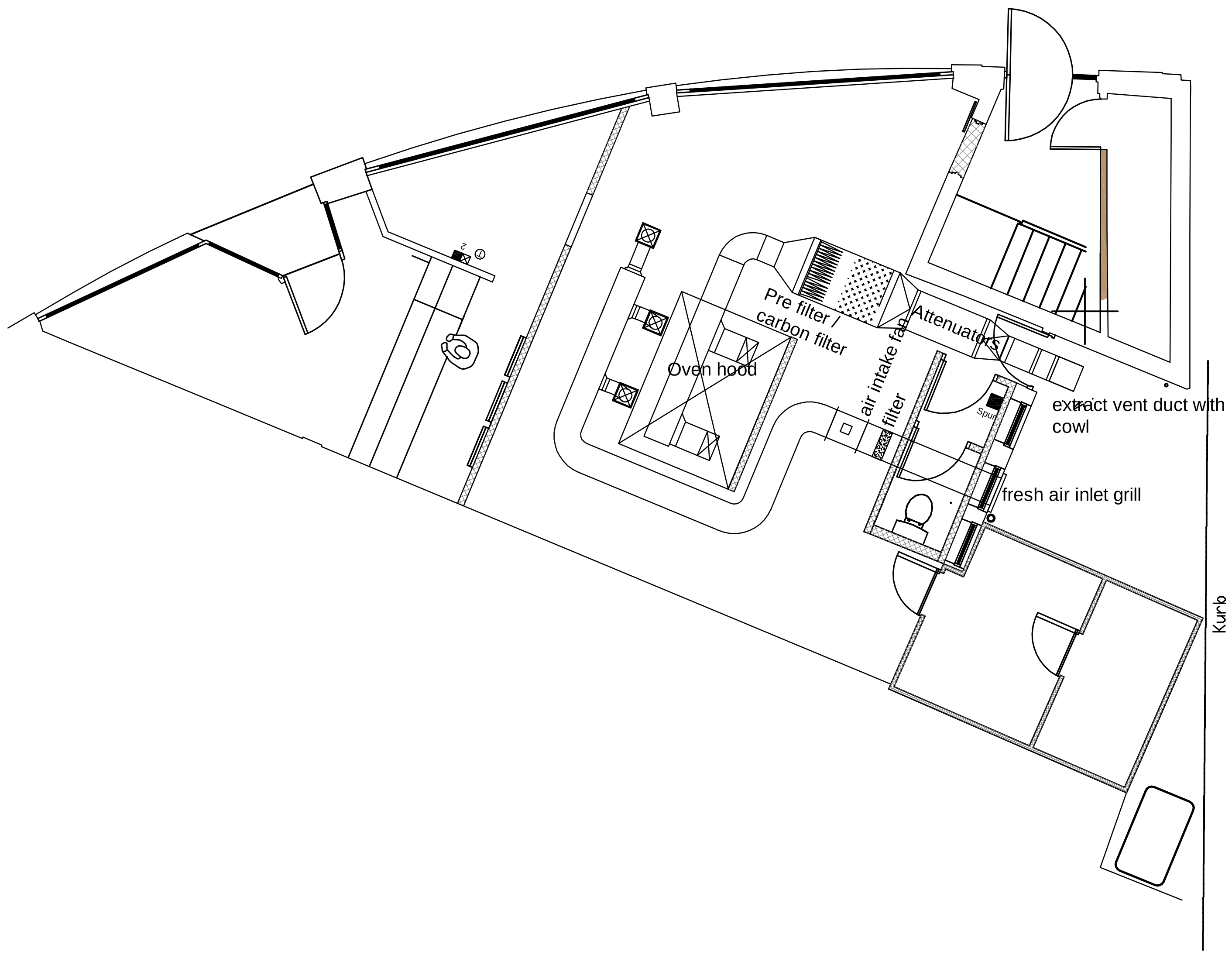
63 Hz	125Hz	250Hz	500Hz	1KHz	2KHz	4KHz	8KHz
-5db	-9db	-18db	-32db	-40db	-39db	-28db	-19db



SIDE VIEW
CANOPY DETAIL
Scale 1:20

Hood Section

3000x2000 STAINLESS STEEL EXTRACT CANOPY C/W 6No. 500x400x50mm GREASE FILTER CELLS MOUNTED IN 2 PLENUMS ONE EACH END OF CANOPY 3 FILTERS PER PLENUM



SCALE 1:100
0 1 2 3 4 5m

PEP

PEP Project Management Ltd

CLIENT	Pizza Hut
PROJECT	**HAVANT**
ADDRESS	**32-32A MARKET PARADE HAVANT PO9 1QF**
DRAWING TITLE	**PROPOSED VENTILATION LAYOUT**

JOB/DRAWING NO.	SCALE	DATE
/05	**1:100@A3**	**2/10/12**

DRAWN BY	CHECKED BY
JSDS	**AC**

REVISIONS

REV.	DATE/DESCRIPTION

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E-mail: admin@peppm.co.uk

GENERAL NOTES:
1. To be read inconjunction with other consultants drawings.
2. Check site conditions prior to commencement of work.
3. Any discrepancies to be reported directly to the Project Manager.
4. Do not scale off drawing. Use figured dimensions only.
5. All dimensions for existing buildings and openings to be checked on site