Supporting Statement

APPENDIX B

Acoustic Isolation and Sound Attenuation

BDP

years from the date of this permission.

Reason: In order to comply with the provisions of Section 91 of the Town and Country Planning Act 1990 (as amended).

2 All new external work shall be carried out in materials that resemble, as closely as possible, in colour and texture those of the existing building, unless otherwise specified in the approved application.

Reason: To safeguard the appearance of the premises and the character of the immediate area in accordance with the requirements of policies EN1, EN13 and EN31 of the London Borough of Camden Unitary Development Plan 2000 and policies S1/ S2 and B1 and B7 of the London Borough of Camden Replacement Unitary Development Plan 2006.

3 Noise levels at a point 1 metre external to sensitive facades shall be at least 5dB(A) less than the existing background measurement (LA90), expressed in dB(A) when all plant/equipment are in operation. Where it is anticipated that any plant/equipment will have a noise that has a distinguishable, discrete continuous note (whine, hiss, screech, hum) and/or if there are distinct impulses (bangs, clicks, clatters, thumps) special attention should be given to reducing the noise levels from that piece of plant/equipment at any sensitive façade to at least 10dB(A) below the LA90, expressed in dB(A).

Reason: To safeguard the amenities of the adjoining premises and the area generally in accordance with the requirements of policies EN1, EN5, and EN7 of the London Borough of Camden Unitary Development Plan 2000 and policies SD6, SD7B, SD8 and Appendix 1, of the London Borough of Camden Replacement Unitary Development Plan 2006.

4 Before the use commences, the extract ventilating system and the air-condition plant shall be provided with acoustic isolation and sound attenuation in accordance with the scheme approved by the Council. The acoustic isolation shall thereafter be maintained in effective order to the reasonable satisfaction of the Council.

Reason: To safeguard the amenities of the adjoining premises and the area generally in accordance with the requirements of policyies EN1, EN5 and EN7 of the London Borough of Camden Unitary Development Plan 2000 and policies SD6, SD7B, SD8 and Appendix 1 of the London Borough of Camden Replacement Unitary Development Plan 2006.

5 Notwithstanding the information submitted for the kitchen extraction ducting hereby approved details of the secondary filtration system incorporating "Halton Vent Master Pollustop Model PS00 shall be submitted to and approved in writing by the local planning authority before the kitchen use is commenced.

Reason: To safeguard the amenities of the adjacent residential premises and the area generally in accordance with the requirements of policies RE2 and EN1 of the London Borough of Camden Unitary Development Plan 2000 and policies S1 and S2 of the Revised Deposit Draft as amended by the Proposed Modifications

BC\P20000562\BC

15 June 2006

FAO Hugh Miller
Development Control
Camden Town Hall
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Dear Mr Miller,

ERECTION OF PLANT ENCLOSURE AND HANDRAIL, EXTRACT DUCT AND 8 NO SATELLITE ANTENNAE TO ROOF OF 34-36 JAMESTOWN ROAD, CAMDEN

I refer to our telephone conversation on Friday 9th June regarding the above planning application (ref: 2006/1427/P) and the request for additional information in relation to odour control, noise attenuation and output. The information requested was as follows:

1. Details of a proposed secondary odour control device in order to control potential odour output from the extract duct in relation to the nearby residential area.
2. Details of any proposed isolation mountings to the roof which may attenuate noise from the proposed plant equipment.
3. Details of the potential noise output from the extract duct.

In relation to the first point, all major plant items and main pipe runs in ducts and risers are to be supported to avoid the transmission of noise/vibration and loading to the building structure. All condensers, air handling units and other equipment with moving parts shall be mounted on anti-vibration mountings and/or inertia bases to minimise the transmission of vibration to the structure. Particular attention shall be given to equipment on roof level. Equipment shall be provided for:

- Outdoor condensers in the form of anti-vibration mounts as type RD2 Red to the condenser bases
- Air handling units are to be supported by a steel channel framework on anti-vibration mats.

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Turning to the second point, no secondary odour control in relation to the extract duct is proposed as part of the scheme submitted as part of this planning application. The extract duct has been designed by specialist consultants to provide a solution of a high velocity vertical discharge. This will provide the optimum solution to minimise the potential odour emissions and enable simple and effective maintenance. We would however be happy to incorporate a secondary filtration system into the proposed scheme if this is deemed necessary on consultation with Environmental Health. The unit that would be provided in that event is a Halton Vent Master Pollustop Model PS00 and Appendix C contains details of the exact unit specification. The unit would be located between mezzanine and first floor level behind the proposed screen covering the extract duct, and would therefore not be visible from any external point.

Finally, we refer to the potential acoustic output of the proposed extract duct. Below is a table that details the sound power levels of the Kitchen Extract Fan.

		Sound Power Level (db ref 10 -12 watts)							
Equipment	Manufacturer/ Model	63	125	250	500	1k	2k	4k	8k
Kitchen Extract Fan (1.25m3/sec@350pa)	BIFCN040K2-A10/19	82	82	92	91	89	85	80	75

Acoustic equipment will be provided to attenuate noise from the extract duct in order to ensure that the noise output is below 33 dBA at 1 metre from the adjacent building penthouse and 37dBA at 1 metre from the residential properties within the development. Attached at Appendix A is a schedule of proposed silencers to be installed in order to control the noise transmission. An Emtec PAC 30 acoustic enclosure is also proposed which will contain and allow access to the duct and silencers. Appendix B contains a sketch to demonstrate where and how the equipment will be installed. In selecting the necessary silencers the Sound Power level data listed on the schedules has been used to calculate the total noise output. The installation of the proposed equipment is sufficient to ensure that the noise output is below 33 dBA.

I trust that this information now enables the Council to determine this planning application within the target period. If however you require any further assistance with this matter, please do not hesitate to contact me.

Yours sincerely,

Becky Cocker
Town Planner for BDP

APPENDIX A – Schedule of Proposed Silencers

QF2973A/R2/MGR/CG

Date: 8th May 2006

SILENCER SCHEDULE

Client: Peter Deer & Associates

Project: The Iceworks, Jamestown Road

Ref.	Location	Type	Dimensions (mm) W x H x L			Vol (m^3/s)	P.D (Pa)	Dynamic Insertion Loss (dB) 63	125	250	500	1k	2k	4k	8k	No.Off	Price Each (£)	Total (£)
	A) CAM UNIT ACOUSTIC PLINTHS AND SILENCERS																	
SC1	Cam 15 Acoustic plinth (Zone 16)	PAC30	1000	745	500	1.11	Neg	18	20	28	32	40	41	44	38	1		£488.00
SC1A	Supply air silencers from plinth (Zone 16)	RAAC/43/900	450	250	900	0.55	30	3	6	13	22	27	26	20	10	2	£92.00	£184.00
SC1B	Return air silencers to plinth (Zone 16)	RAAC/43/900	450	250	900	0.55	30	3	6	13	22	27	26	20	10	2	£92.00	£184.00
SC2	Cam 35 acoustic plinths (Zone 14)	PAC30	2000	745	500	2.64	Neg	18	20	28	32	40	41	44	38	1		£784.00
SC3	Cam 25 Units (Zones 9 & 10)	Fit supplier's standard plinths																
SC4	Cam 25 Units (Zones 5 & gym)	Fit supplier's standard plinths																
SC5	Cam 35 acoustic plinth (Zones 6 and 15)	PAC30	2000	745	700	2.64	Neg	18	20	28	32	40	41	44	38	2	£926.00	£1,852.00
SC6	Cam25 unit to lounge (Zone 3)	PAC30	1440	745	500	1.94	Neg	18	20	28	32	40	41	44	38	1		£642.00
SC6A	Supply air silencers from plinth (Zone 3)	RAAC/53/1500	500	250	1500	0.77	25	3	8	14	26	30	35	23	11	2	£128.00	£256.00
SC6B	Supply air silencer from plinth (Zone 3)	RAAC/53/1500	260	250	1500	0.40	25	3	8	14	26	30	35	23	11	1		£99.00
SC6C	Return air silencer to plinth (Zone 3)	RAAC/48/1200	665	250	1200	1.00	35	3	6	14	24	30	31	22	11	1		£138.00
SC6D	Return air silencer to plinth from Mezz level	RAAC/53/1500	665	250	1500	0.94	25	3	8	14	26	30	35	23	11	1		£142.00

Total price for CAM unit acoustic plinths and silencers (supply only, ex works) ... £4,769.00

Notes: - All CAM units not fitted with an acoustic plinth should be fitted with the manufactuer's standard plinth.
- Details of acoustic plinths are given on our attached sketches No. QF/2973A/P2(A) and -/P3.

QF2973A/R2/MGR/CG

Date: 8th May 2006

SILENCER SCHEDULE

Client: Peter Deer & Associates

Project: The Iceworks, Jamestown Road

Ref.	Location	Type	Dimensions (mm) W x H x L			Vol (m^3/s)	P.D (Pa)	Dynamic Insertion Loss (dB) 63	125	250	500	1k	2k	4k	8k	No.Off	Price Each (£)	Total (£)
	B) SYSTEM SILENCERS																	
S1	Chairmans Flat-Zone 17 supply air to living room	RAAC/48/2100	600	100	2100	0.396	45	5	15	24	38	44	46	35	18	1		£176.00
S1A	Chairmans Flat-Zone 17 supply air to living room	RAAC/43/1800	600*	100	1800	0.396	35	5	13	23	39	45	41	32	17	1		£273.00
S1B	Acoustic plinth to AHU (Zone 17)	PAC 30	1850	1800	400	1.900	50	18	20	28	32	40	41	44	38	1		£1,128.00
S2	Chairmans Flat-Zone 17 Supply air to living room	RAAC/48/1800	600	100	1800	0.396	45	4	12	20	33	39	40	32	15	2	£155.00	£310.00
S3	Chairmans Flat-Zone 17 Supply to bedroom	RAAC/53/2400	300*	100	2400	0.198	15	6	18	21	36	41	46	38	18	1		£238.00
S4	Zone 17-Lobby Supply	RAAC/38/1500cc	325	150	1600	0.117	12	5	13	24	34	43	42	36	22	1		£186.00
S5	Return air to Zone 17 AHU	RAAC/53/2400	800	300	2400	1.90	50	6	18	21	36	41	46	38	18	1		£214.00
S6	Crosstalk silencers to overnight bedrooms (supply)	RAAC/43/2100	350	150	2100	0.04	Neg	6	16	29	44	50	48	36	21	3	£126.00	£378.00
S7	Crosstalk silencers to overnight bedrooms (return)	RAAC/20/900	500	150	900	0.04	5	9	16	24	37	48	50	50	38	3	£94.00	£282.00
S8	Fresh air to Zone 16	RAAC/20/1500	450	200	1500	0.15	50	14	25	39	50	50	50	50	49	1		£136.00
S9	Fresh air to Zone 17	RAAC/38/2100	325	200	2100	0.25	35	7	19	33	47	50	49	41	28	1		£141.00
S10	Fresh air to all other areas	RAAC/38/1800	700	800	1800	2.60	50	6	16	28	44	47	44	38	24	1		£290.00
S11	Fresh air intake to AHU	RAAC/25/450C	2000	700	550	3.00	35	4	8	15	23	33	34	33	22	1		£476.00
S12	Exhaust air from AHU	No silencer required																
S13	Extract air from building	RAAC/43/2100	500	350	2100	1.00	45	6	16	29	44	50	48	36	21	1		£192.00
S14	Toilet extract (EF1)	RAAC/43/900	250	200	900	0.20	20	3	6	13	22	27	26	20	10	1		£73.00
S15	Toilet exhaust to atmosphere	No silencer required																
S16	4th Floor prep kitchen extract	RAAC/38/900cc	250	250	1000	0.15	10	4	7	15	24	32	33	29	18	1		£146.00
S17	4th Floor prep kitchen exhaust to atmosphere	No silencer required																
S18	Acoustic plinth to AHU (Zone 13)	PAC 30	1350/ 1585	610	700	0.90	Neg	18	20	28	32	40	41	44	38	1		£986.00
S19	Supply air to Chairmans Office	RAAC/38/1800	500	250	1800	0.45	25	6	16	28	44	47	44	38	24	2	£155.00	£310.00

QF2973A/R2/MGR/CG

Date: 8th May 2006

SILENCER SCHEDULE

Client: Peter Deer & Associates

Project: The Iceworks, Jamestown Road

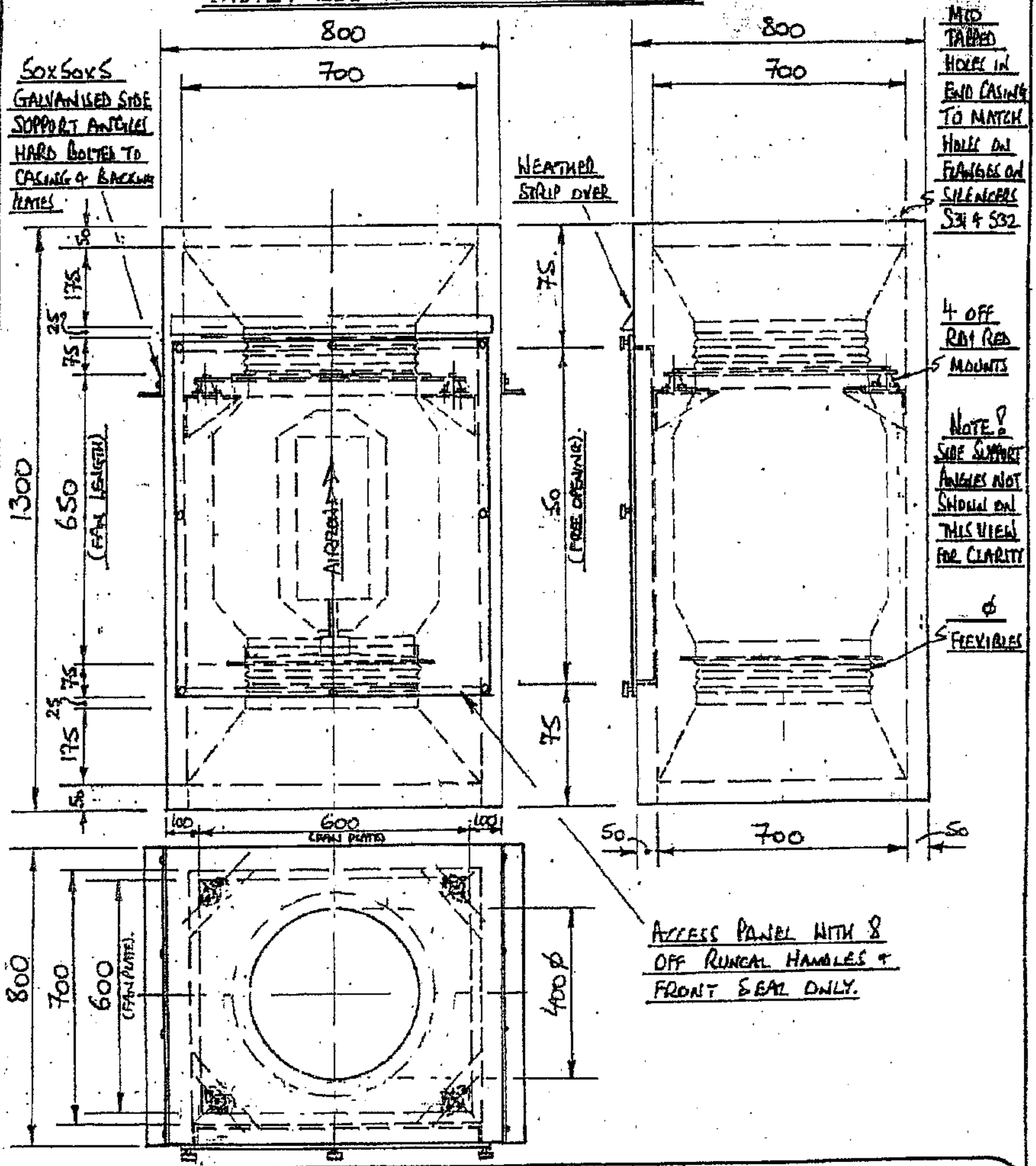
Ref.	Location	Type	Dimensions (mm) W x H x L			Vol (m^3/s)	P.D (Pa)	Dynamic Insertion Loss (dB) 63	125	250	500	1k	2k	4k	8k	No.Off	Price Each (£)	Total (£)
S20	Return air from Chairmans Office	RAAC/43/1800	600	300	1800	0.90	35	5	13	23	39	45	41	32	17	1		£155.00
S20A	Acoustic plinth to AHU (Zone 8)	PAC 30	1350/1585	610	700	0.90	Neg	18	20	28	32	40	41	44	38	1		£988.00
S21	Boardroom Supply air (Zone 8)	RAAC/38/1500	500	250	1500	0.60	45	5	13	24	34	43	42	35	22	1		£136.00
S22	Boardroom Supply air (Zone 8)	RAAC/38/1500	500	250	1500	0.40	20	5	13	24	34	43	42	35	22	1		£136.00
S23	Boardroom Return air (Zone 8)	RAAC/43/1800	600	300	1800	1.00	40	5	13	23	39	45	41	32	17	1		£155.00
S24	Mezzanine level fan coil inlet (Zones 4 and 18)	RAAC/25/400	1330	285	400	0.253	5	3	6	13	21	28	29	25	15	2	£216.00	£432.00
S25	Mezzanine level fan coil outlet (Zones 4 and 18)	RAAC/25/400	1330	285	400	0.253	5	3	6	13	21	28	29	25	15	2	£213.00	£426.00
S26	Dining room supply air (Zone 1)	RAAC/53/2100	800	150	1800	0.90	35	5	15	19	33	38	44	34	15	1		£198.00
S27	Dining room supply air (Zone 1)	RAAC/53/2100	600	150	2100	0.60	30	5	15	19	33	38	44	34	15	2	£176.00	£352.00
S27A	Acoustic Plinth to AHU (Zone 1)P/	PAC 30	2000	900	400	2.10	Neg	18	20	28	32	40	41	44	38	1		£872.00
S28	Return air to dining room AHU (Zone 1)	RAAC/25/1200	4300	300	1200	2.50	35	8	14	26	39	49	47	45	36	1		£808.00
S29	Kitchen supply (Zone 2)	RAAC/43/1800	700	150	1800	0.60	35	5	13	23	39	45	41	32	17	2	£176.00	£352.00
S30	Supply to lobby area (Zone 2)	RAAC/43/1200	400	150	1200	0.30	35	4	8	17	27	33	33	24	13	1		£98.00
S30A	Supply to corridor (Zone 2)	RAAC/38/900	300	150	900	0.15	25	4	7	15	24	32	33	29	18	1		£73.00
S30B	Acoustic plinth to AHU (Zone 2)	PAC 30	2000	900	400	1.85	Neg	18	20	28	32	40	41	44	38	1		£872.00
S31	Kitchen Extract (Roomside)	RAAC/33/2400M	700	700	2400	1.25	35	14	27	21	23	31	33	34	23	1		£448.00
S32	Kitchen Exhaust (Atmospheric)	RAAC/33/2400M	700	700	2400	1.25	35	14	27	21	23	31	33	34	23	1		£448.00
S33	Kitchen Extract Fan Acoustic Enclosure	PAC30 HD	800	800	1300	-	-	18	20	28	32	40	41	44	38	1		£1,238.00
			Total price for system silencers (Supply only, ex works)													...		**£14,122.00**

APPENDIX B – Sketch of Acoustic Fan Box

All dimensions in mm unless stated

ITEM S33 - KITCHEN EXTRACT FAN ACOUSTIC BOX - PAC 3011D - 1 OFF

(NOTE:- BOX TO BE WEATHERPROOF!)



TITLE: ACOUSTIC FAN BOX - S			A B C D E F G H REVISION	DOCUMENT No. QF/2973A/E1
CLIENT: PETER DEER & ASSOCIATES.			Q A M I STATUS	
PROJECT: 34-36, JAMESTOWN ROAD			APPROVED BY:	
ISSUE DATE: 8/5/2006	PF No.	DRAWN BY: MGR	DESIGN AUTH: MGR	

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