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QF7403/PF4793/MGR/SH

5th March 2013

Peter Deer & Associates,
South Point House
321 Chase Road
Southgate
London
N14 6JT

For the attention of Mr Davor Stojnic

Dear Sir,

Re: Tanfield Chambers, 2-5 Warwick Court, London WC1

We hereby acknowledge receipt of your email of the 5th of March 2013 and we have pleasure in attaching herewith our quotation schedule for the acoustic treatment required to achieve the following noise level externally:-

45.2dBA at 1 metre from the nearest residential property and
50dBA at 1 metre from the office windows.

In making the selection of equipment we have used the following Sound level data as the basis of our calculations:

Office Fresh Air System	Airflow (m3/sec)	Sound Power Level (db ref 10 ⁻¹² watts)							
		63	125	250	500	1k	2k	4k	8k
VES WM-E112	0.12	73	64	59	59	66	65	64	64

Note:- The above Sound Power levels were taken from the data sheet sent with your email.

Condensers Unit	Sound Power Level (db ref 10 ⁻¹² watts)							
	63	125	250	500	1k	2k	4k	8k
Mitsubishi PUMY-P140YHMB (Heating)	61	55	52	51	48	43	37	40

Note:- The above data is in free field conditions at 1 metre from each condenser.

We have not included for an access door through the screen but we have rather stopped the acoustic louvred screen a metre from the rear wall of the Tanfield Chambers offices so that access can be obtained through the opening thus formed between the wall and the end of the screen.



Reg. No. 3164658. VAT Reg. No. GB675017042
Directors: I.J.Marchant MIOA (Managing) – J.R.Tait B.Eng, AMIMechE, MIOA
M.G.Roberts BSc., C.Eng., MIMechE, MIOA – R.T.H.Roberts FCA. (Co.Sec.)

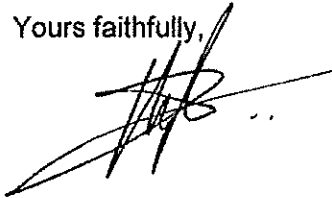


We have allowed for five number steel posts and intermediate purlins to support the Emtec LAAC 15 acoustic louvres and assume that five concrete pads will be formed for us to fix our posts to. We have allowed for polyester powder coating our louvres to a standard BS4800 or RAL, non-metallic, colour.

We attach herewith our data sheets on the Emtec RAAC25 silencer and the Emtec LAAC15 Acoustic louvres offered in our quotation.

We trust that the above is in line with your requirements, but should you have any queries with regard to our proposals, please do not hesitate to contact the undersigned.

Yours faithfully,

A handwritten signature in black ink, appearing to be 'M G Roberts', written over a horizontal line.

M G Roberts
Director

QF7403/MGR/SH

Client: Peter Deer & Associates

EQUIPMENT SCHEDULE

Date: 5th March 2013

Project: Tanfield Chambers

Ref. Location	Type	Dimensions (mm)			Vol (m ³ /s)	P.D (Pa)	Dynamic Insertion Loss (dB)					No.Off	Price Each (£)	Total (£)		
		W x H x L					63	125	250	500	1k				2k	4k
<u>A) SUPPLY ONLY SILENCERS - FOR FITTING BY THE M & E CONTRACTORS</u>																
AS1 Fresh Air AHU Roomside	RAAC/25/900	500	250	900	0.12	8	7	11	18	32	40	40	36	33	1	£125.00
AS2 Fresh Air AHU Atmospheric	LAAC15P	500	250	300	0.12	10	5	7	9	12	18	19	15	15	1	£108.00
Total Price (Supply only, ex works)																
...																
£233.00																

Note: - Silencer AS1 to have mez 20 flanges at either end.

- Acoustic louvre AS2 to have a 150mm deep outlet plenum and a 40mm self flange with 6mm fixing holes on outlet to allow fixing of louvre to the frame of the AHU. Louvre to be PPC finished to match AHU.

B) SUPPLY AND INSTALL - LOUVRED SCREEN

BS1 Condensers Unit Acoustic	LAAC 15	6500	1500	150	7.50	6	5	7	9	12	18	19	15	15	1	£3,510.00
Louvred Screen	LAAC 15	2200	1500	150	2.50	6	5	7	9	12	18	19	15	15	1	£1,188.00
BS2 Support Posts & Purlins	Galvanised 50 x 100 RHS posts and two pre-galvanised purlins														1 Set	£1,130.00
BS3 Installation of the above equipment assuming free acces to site, free use of a crane to lift the equipment over the building and on to the rear roof and free use of a electrical supply.																£1,672.00
Total Price (Supply, deliver and install)																£7,500.00

Notes: - Acoustic louvres to be polyester powder coated to a standard, non-metallic BS4800 or RAL colour.

- All steel posts and purlins to be galvanised.

- It is assumed that concrete pads will be provided to anchor our five support posts to.

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Client: Peter Deer & Associates

EQUIPMENT SCHEDULE

Date: 5th March 2013

Project: Tanfield Chambers

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 (£)
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Terms and Conditions of Quotation

Validity : Prices are fixed for acceptance for 60 days.

Drawings : 2-3 weeks from receipt of order.

Delivery : 3-5 weeks from approval of drawings.

Carriage : Included.

Installation : Assumes free and unrestricted access to site, uninterrupted working between 0800 and 1730 Monday to Friday excluding Bank Holidays, free use of 110V/240V electricity supply within 15m of all points of installation and that all site preparation and disconnection of services will be carried out prior to the arrival of Emtec Products Ltd. on site.

Exclusions : Offloading, storage and position.

All craneage, lifting and scaffolding.

All builderswork, including making good.

All disconnection and reconnection of services.

All removal of debris and carting away.

V.A.T. : Chargeable extra at the appropriate rate.

Payment : Nett 30 days from date of invoice subject to credit clearance.