Acoustic Engineering Services (UK) Ltd

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EMAIL TRANSMISSION

Email.:	johnathan@etukltd.com	**Page:**	1 of 4
Company:	ET UK	**Date:**	15/09/17
Attention of:	JOHNATHAN RUITTER	**From:**	MARK STAGG
Project:	CHETWYND ROAD	**Our Ref.:**	175297specA
		Your Ref.:	

Dear Johnathan,

Further to our recent email correspondence I am able to confirm the construction of the revised acoustic enclosure.

The enclosure now runs along the wall as per the attached sketch 175297specA. I have also attached some photographs of a similar installation which I hope helps to clarify the design.

As before, the enclosure would comprise of solid acoustic panels in combination with splitter type attenuators to allow airflow to and from the condenser.

Acoustic Panels
The acoustic panels comprise of a minimum 1.2mm thick solid galvanised steel sheet outer face with a 50mm thick heavy density (68kg/m^3) acoustically absorbent mineral fibre infill retained behind a perforated galvanised steel inner face.

The tested acoustic performance of the quoted panels is as follows-

Frequency	Hz	63	125	250	500	1k	2k	4k	8k
SRI	dB	21	19	22	30	42	49	57	57
Absorption	α	0.04	0.20	0.60	1.00	1.00	0.96	0.97	0.97

Attenuators
Attenuators are formed of the same materials as the panels but have airways formed within to allow air movement.

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The quoted attenuators would have 60mm airways with 175mm thick internal splitters giving an insertion loss performance as follows –

Frequency	Hz	63	125	250	500	1k	2k	4k	8k
Insertion loss	dB	9	15	18	33	38	34	31	20

If these figures are inserted into the Clement Acoustics' calculation for the enclosure performance the following figures result –

Frequency	Hz	63	125	250	500	1k	2k	4k	8k
SPL	dB	36	29	26	7	-	-	-	-

This is equivalent to 19dB(A), which is 5dB below the Clement Acoustics' specification and thus 15dB below the lowest existing measured background level.

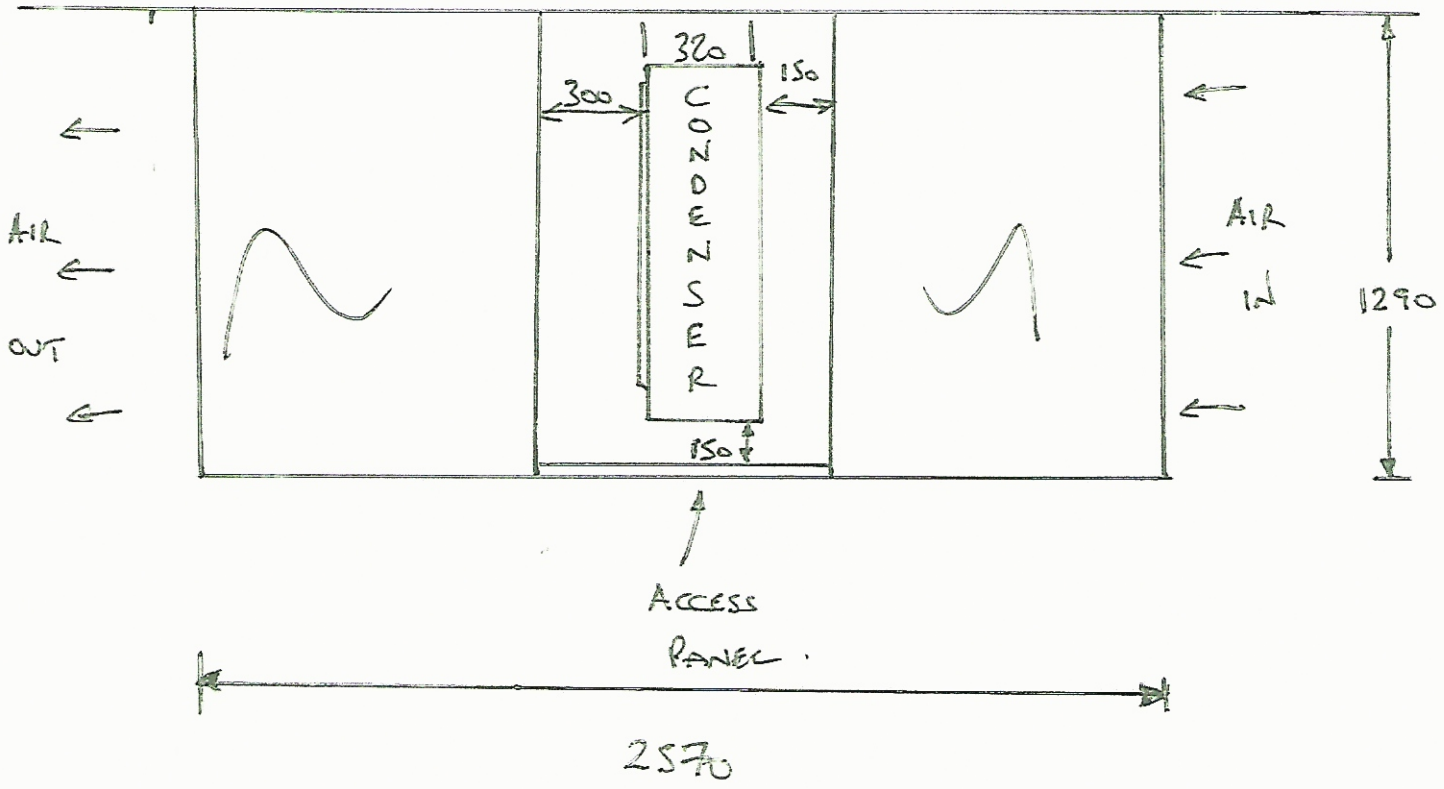
I trust this is satisfactory and provides sufficient information. If you require any further details or have any queries, please do not hesitate to ask.

Best regards,

Mark Stagg
ACOUSTIC ENGINEERING
SERVICES (UK) LIMITED

175297/SPEC A.

PLAN - TOP REMOVED



SIDE ELEVATION - SIDE REMOVED