From:	Andy Smith
To:	Patrick Newton
Cc:	house account
Subject:	99107/Z1/GE/OS/HA100 - Highgate Library, Chester Road, London - Courtyard Acoustic Treatment
Date:	16 July 2024 11:51:08
Attachments:	image001.png E040-E.pdf L70E.pdf Allaway Acoustics Ltd Conditions of Sale.pdf Allaway Acoustics Ltd Standard Terms Applicable to Sub-Contract Quotations (Installation Works) - January 2024.pdf

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Quotation to: **Chris Potter Associates** [redacted]
Attention of: **Patrick Newton**

Patrick,

Apologies for the delayed response.

Further to your enquiry, we have pleasure in providing our quotation for the supply and installation of an acoustic screen/panels on the above project.

From the details provided, we understand that there are 2 elements to the required acoustics for the external ASHP units located in the courtyard ; -

1. Bus shelter style enclosure around the condensers, and
2. Acoustic lining to the remaining courtyard walls.

1 – Acoustic Enclosure

We understand that a bus shelter (open front) style enclosure is required, with nominal dimensions 4.5m L x 1.3m D x circa 2.3m high (TBC).

Roof to be formed from acoustic louvre, whilst the rear/ends are to be formed from acoustic panels.

For the louvred roof, based on the performance specified in the Clarke Saunders Plant Noise Impact Assessment (dated 07/06/24), we would offer our type AL3015GP louvres, 300mm deep single banked, manufactured from pre-galvanised sheet steel c/w a polyester powder paint finish to a stocked RAL (matt) colour reference.

For the sides and rear we would offer acoustic panels having a nominal thickness of 50mm, containing a fibrous acoustic media of nominal 40kg/m^3 density (packed under 10% compression), faced with woven tissue scrim (glass cloth). The outer surfaces would be plain pre-galavnaised sheet steel. The inner face would be perforated sheet steel. All finished with polyester powder paint to a stocked RAL (matt) colour reference The panels would be suitably reinforced for structural stability and fixing. Drain holes shall be provided to prevent water retention inside the panels.

Refer to data sheets L70E & E040E for further details.

The Louvre/panels would be supported with a mild steel framework, finished hot dipped galvanised after manufacture.

Our price for the supply and installation of this enclosure, as described above would be……
[redacted]

2 – Acoustic lining to courtyard walls.

We understand that there is circa 24m2 of wall area to be lined with acoustic material.

To offer a suitably robust construction, we would again offer our 50mm pre-formed panels as detailed

above.

Supplied c/w support channels/trims.

Our price for the supply and installation of these panels, as described above would be……
[redacted]

This offer is subject to our standard terms and conditions (as attached).
We assume we can directly fix our supports to the floor/walls/existing building structure. If this isn't the case additional costs will apply.

We trust that the above meets with your approval, however, should you have any queries or require any further information, then please do not hesitate to contact us.

Trust OK & Best Regards

Andy Smith MIOA | Senior Engineer
[redacted]

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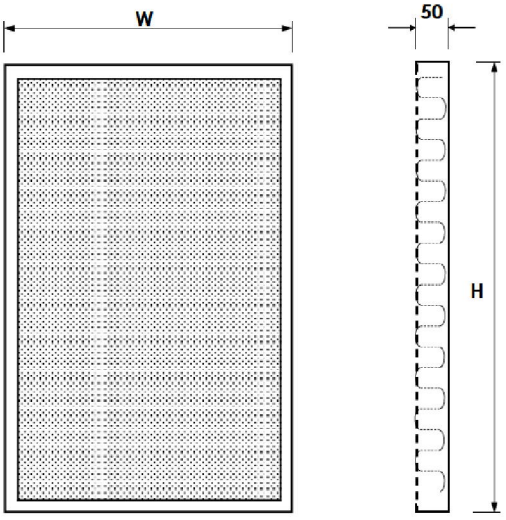
DATA SHEET **E40E**

ACOUSTIC ENCLOSURE PANEL MODEL **EP50/UF**

IMPORTANT : THIS IS NOT A STAND ALONE DOCUMENT AND UNLESS REFERRED TO IN A DATED AND CERTIFIED EQUIPMENT SCHEDULE IS SUBJECT TO REVISION WITHOUT NOTICE.

DIMENSIONS



ACOUSTIC PERFORMANCE

SOUND REDUCTION INDEX BS EN ISO 10140-2 : 2021

63	125	250	500	1000	2000	4000	8000	HZ
16	20	24	35	44	51	53	46	dB

SOUND ABSORPTION BS EN ISO 354 : 2003

63	125	250	500	1000	2000	4000	8000	HZ
.05	0.2	0.7	1.00	1.00	1.00	.95	0.8	-

NOTES

THIS DATA SHEET IS TO BE READ IN CONJUNCTION WITH THE EQUIPMENT SCHEDULE

PANELS WILL BE SUPPLIED WITHOUT SUPPORT STEELWORK, BRACKETS, FIXINGS OR MASTIC UNLESS OTHERWISE STATED.

PANELS MORE THAN 1800 WIDE OR 2500 HIGH MAY BE MANUFACTURED IN SECTIONS FOR ON SITE ASSEMBLY.

SPECIFICATION

THE ACOUSTIC ENCLOSURE PANEL COMPRISES A COMBINATION OF SOUND ABSORBENT MATERIALS AND HIGH MASS BARRIERS CONTAINED WITHIN A METAL CASING HAVING AN PLAIN OUTER AND PERFORATED INNER FACE, OFFERING EXCELLENT SOUND REDUCTION AND ABSORPTION PROPERTIES.

PANELS ARE CONSTRUCTED FROM PRE-GALVANISED SHEET STEEL AS STANDARD.

THE OUTER CASING IS FORMED FROM PLAIN SHEET METAL AND INSIDE FACE FROM PERFORATED METAL.

PANELS CONTAIN A FIBROUS SOUND ABSORBENT INFILL THAT IS NON-SHEDDING, NON-COMBUSTIBLE, NON-HYGROSCOPIC AND CHEMICALLY INERT. THE INFILL IS FACED WITH GLASS CLOTH TO PREVENT FIBRE MIGRATION.

THE CASING CAN BE SUPPLIED WITH A PERIMETER FLANGE FOR FIXING ADJACENT SECTIONS TOGETHER, FIXING THE PANELS INTO THE BUILDERSWORK OPENING OR FIXING INTO THE FRAMEWORK OF AN ACOUSTIC ENCLOSURE (OPTION **F**).

POLYESTER POWDER FINISH AVAILABLE (SUFFIX **P**)

SUFFIX

P - POLYESTER POWDER COAT

F - PERIPHERAL FIXING FRAME

X - SPECIAL CONSTRUCTION, REFER TO EQUIPMENT SCHEDULE FOR DETAILS.

BUILDERSWORK

THE **W** AND **H** DIMENSIONS GIVEN ON THE CERTIFIED EQUIPMENT SCHEDULE ARE AS MANUFACTURED.

ADEQUATE CLEARANCE MUST BE ALLOWED WHEN CONSTRUCTING THE BUILDERSWORK OPENING, MIN 10mm IS RECOMMENDED.

WEIGHT

ACTUAL WEIGHTS ARE GIVEN ON THE EQUIPMENT SCHEDULE.

APPROXIMATE WEIGHT: **24kg/M²**.

STANDARD SIZES

THERE ARE NO STANDARD SIZES. PANELS ARE MANUFACTURED TO ORDER

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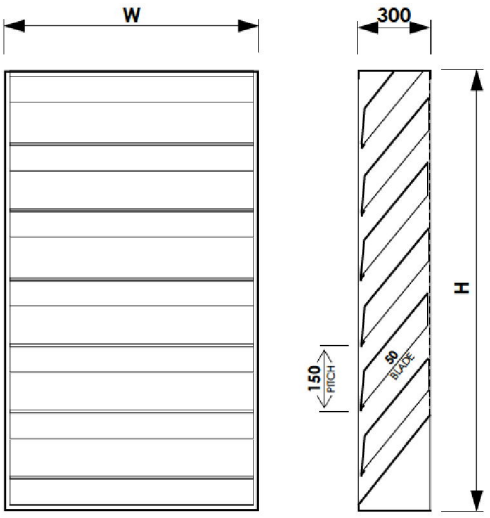
DATA SHEET **L70E**
ACOUSTIC LOUVRE
MODEL **AL3015**

THIS IS NOT A STAND ALONE DOCUMENT AND UNLESS REFERRED TO IN A DATED EQUIPMENT SCHEDULE IS SUBJECT TO REVISION WITHOUT NOTICE.

DIMENSIONS



SPECIFICATION

LOUVRES ARE CONSTRUCTED FROM FOLDED SHEET METAL AND HAVE A SERIES OF HORIZONTAL BLADES CONTAINED WITHIN A FOUR SIDED EXTERNAL FRAME.

THE MATERIAL OF CONSTRUCTION MAY BE PRE-GALVANISED STEEL (SUFFIX G) OR ALUMINIUM (SUFFIX A).

GALVANISED BIRD SCREENS ARE FITTED AS STANDARD.

CASING SIDES ARE PROVIDED WITH 10mm DIA HOLES FOR FIXING ADJACENT SECTIONS TOGETHER, OR FIXING THE LOUVRE INTO THE BUILDERSWORK OPENING.

LOUVRES ARE SUPPLIED SELF FINISH AS STANDARD OR WITH AN OPTIONAL POLYESTER POWDER FINISH (SUFFIX P).

NOTES

THIS DATA SHEET IS TO BE READ IN CONJUNCTION WITH THE EQUIPMENT SCHEDULE.

WIDTH **(W)** AND HEIGHT **(H)** DIMENSIONS GIVEN ON THE EQUIPMENT SCHEDULE ARE AS MANUFACTURED. ADEQUATE CLEARANCE MUST BE ALLOWED WHEN CONSTRUCTING THE BUILDERSWORK OPENING, A MINIMUM OF 10 mm IS RECOMMENDED.

LOUVRES WILL BE SUPPLIED WITHOUT SUPPORT STEELWORK, CLEATS, BRACKETS, FIXINGS, FLASHING, MASTIC, OR OTHER SUCH ITEMS, UNLESS OTHERWISE STATED.

EXCESSIVELY LARGE OR HEAVY LOUVRES MAY BE MANUFACTURED IN MATING SECTIONS FOR EASE OF HANDLING.

LOUVRES ARE MANUFACTURED TO STANDARD SHEET METAL TOLERANCES OF +/- 3 mm.

SUFFIX

THE SUFFIX DEFINES ADDITIONAL FEATURES OR SPECIAL CONSTRUCTIONAL DETAILS

A ALUMINIUM CONSTRUCTION.

G GALVANISED STEEL CONSTRUCTION.

P POLYESTER POWDER COAT.

X SPECIAL CONSTRUCTION - REFER TO EQUIPMENT SCHEDULE FOR DETAILS.

WEIGHT

LOUVRE WEIGHTS ARE GIVEN ON THE EQUIPMENT SCHEDULE. APPROXIMATELY:

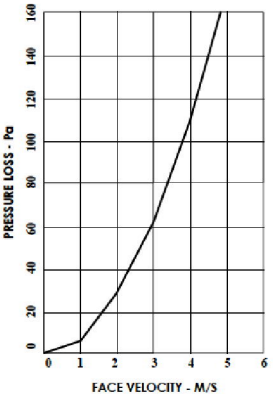
52kg/M² GALVANISED CONSTRUCTION
37kg/M² ALUMINIUM CONSTRUCTION

ACOUSTIC PERFORMANCE

SOUND REDUCTION INDEX: BS EN ISO 10140 - 2

63	125	250	500	1000	2000	4000	8000	HZ
5	**6**	**8**	**11**	**18**	**25**	**20**	**16**	**dB**

PRESSURE LOSS



STANDARD SIZES

THERE ARE NO STANDARD SIZES. ALL LOUVRES ARE MADE TO ORDER.

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