

ARR/PPN/C/3171.01

5th May 2021Mr G Stringfellow
Casey Group
Rydings Road
Rochdale
United Kingdom
OL12 9PS

Dear Gary

Verification Report – Bank Bridge Road, Clayton, M11 4ER

ADC was asked to prepare a short report to facilitate the discharge of planning condition 22b of consent ref. 122897/FO/2019.

The condition as a whole reads as follows:-

22) a) The development hereby approved shall be completed in accordance with the noise assessment prepared by ADC Acoustics ref ARR/PPN/C/2889.01, stamped as received by the City Council, as Local Planning Authority, on the 6th March 2019, in relation to the acoustic treatment of the residential accommodation of the development hereby approved.

b) Prior to the first occupation of the development hereby approved, a noise insulation verification report, shall be submitted to and approved in writing by the Local Planning Authority. The approved scheme shall then be implemented prior to the first occupation of the accommodation.

Reason - In order to limit the outbreak of noise from the commercial premises pursuant to policies SP1 and DM1 of the Core Strategy (2007) and saved policy DC26 of the Unitary Development Plan for the City of Manchester (1995).

The report referred to in part (a) gave acoustic specifications for glazing, vents, etc. and *examples* of designs/products that would meet the specifications. It did not define precise glazing build-ups or specific models of acoustic vent. It would appear to be implicit that part b requires the confirmation that the actual designs/products to be used on the site meet with the specifications, and that they are then implemented into the build.

Boundary Treatments

The report stated that 1.8 m basic garden fencing to plots 1 and 25 (and possibly to Plots 13 and 66) would be adequate. There is no requirement for any sort of specialist acoustic fence, as long as there are no gaps, but solid

fences and walls to a finished height of 1.8 m are provided throughout. See MHA drawing 1OM1_MHA_XX_XX_DR_A_01-003 C4.

Glazing and Vents

Most plots were specified with basic thermal double glazing and non-acoustics vents.

Living room facades colour-coded “red” in our main planning report were recommended to have glazing with a performance of 33 dB R_w or better. We are advised that all room of all units will be fitted with glazing tested to 34 dB R_w . This is better than specified. The Airo test report for the glazing and frames proposed is appended below.

Living room facades colour-coded “blue” and “red” in our main planning report were recommended to have acoustic vents with a performance of 40 dB $D_{n,e,w}$ or better. We are advised that all facades coded “blue” and “red” will be fitted with vents with a performance of 42 dB $D_{n,e,w}$. This is better than specified. The Greenwood data sheet for the vent model proposed is appended below.

I hope this covers everything but please call me with any queries.

Yours sincerely



Andrew Raymond
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Email : andrew.raymond@adcacoustics.co.uk

Glazing Test Certificate

AIRO

**Test
Certificate**

**SOUND REDUCTION INDEX
REHAU S706 WINDOW UNIT with 4/20/4 GLASS**

MEASUREMENTS

Sound Reduction Index (R) measurements were conducted at the AIRO Acoustics Laboratory in accordance with BS EN ISO 140-3:1995 and BS EN ISO 717-1:1997, using a purpose built sound transmission suite. AIRO is a UKAS accredited testing laboratory No. 0483. The test was performed on 3 March 2003.

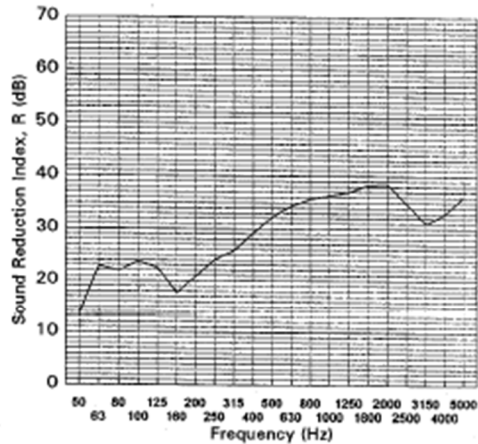
DESCRIPTION

The specimen comprised a 2400 mm wide x 1600 mm high x 70 mm deep Rehau S706 PVC framed window unit. The unit included 2 no side-hung open-out sashes, and 1 no top-hung open-out vent all supported on friction stays and closing on a pair of bulb seals via multi-point locks. The unit also included 3 no fixed lights. The window unit was glazed throughout with 4/20/4 sealed units. The window unit was mounted in a 2410 mm x 1610 mm test aperture using straps and sealed with silicone over a backing rod. The estimated mass of the glazing is 20 kg/m².

Tested for and supplied by : Rehau Limited

RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
50	13.8	630	34.4
63	22.9	800	35.7
80	21.9	1000	36.4
100	23.7	1250	37.0
125	22.5	1600	38.4
160	17.7	2000	38.5
200	20.9	2500	34.8
250	24.1	3150	31.0
315	25.9	4000	32.8
400	29.2	5000	36.2
500	32.4		



Rating according to BS EN ISO 717-1:1997 **$R_w (C;C_v) = 34 (-2;-4) \text{ dB}$**

This Test Certificate summarises Report No. L/2865/1 dated 10 March 2003

A J Jones

A J Jones BSc PhD CPhys MinstP FIOA
Managing Director

M Sawyer

M Sawyer MIOA
Laboratory Supervisor

ACOUSTICAL INVESTIGATION & RESEARCH ORGANISATION LTD

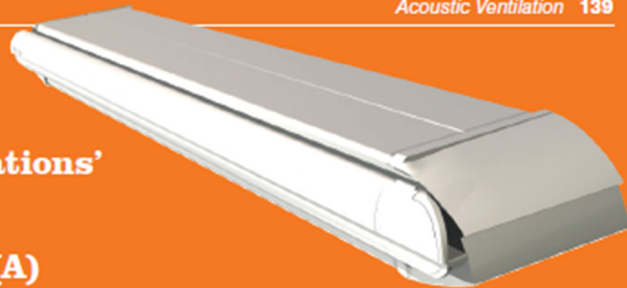
Duxons Turn
Maylands Avenue
Hemel Hempstead
Hertfordshire
HP2 4SB
Telephone: 01442 247146



0483

Vent Data Sheet

The best of both worlds... achieves Building Regulations' EA requirements along with fantastic acoustic performances up to 45dB(A)



Features and benefits

- Smallest acoustic window vents providing 2500mm² or 5000mm² equivalent area ventilation on the market
- Achieves the best acoustic performance for window ventilators available within the UK – up to 45dB(A)
- A simple, yet adaptable, solution to meet required specification/ Building Regulation requirements incorporating both high levels of equivalent area ventilation and acoustic noise reduction
- Modularity of acoustic sets provides flexibility for installation and acoustic performance
- Aesthetically pleasing design which is easy to open and control by the homeowner
- Excellent airtightness performance with upward air deflection to reduce the risk of draughts
- May require add on section in some window installations

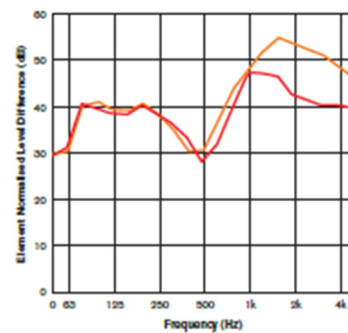
Sets comprise of:

1 EA vent + 1 external acoustic module – providing noise reduction with discreet internal aesthetics.

1 EA vent + 2 acoustic modules (for internal and external install) – providing maximum noise reduction.

Performance

2500EA acoustic performance

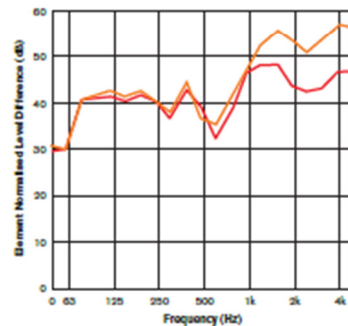


Key

2500EAW.AC1

2500EAW.AC2

5000EA acoustic performance



Key

5000EAW.AC1

5000EAW.AC2

Models, control options and key data

The discount group applied to Acoustic Ventilation is F1

Product code	Description	Controls	Acoustic performance			Equivalent area mm ²	Colour	Price (£)
			D _{n,e,w}	D _{n,e,w} (C)	D _{n,e,w} (Ctr)			
2500EAW.AC1	Vent + 1 Acoustic External Module	Front	42dB(A)	41dB	40dB	2670	White	29.33
2500EAW.AC2	Vent + 2 Acoustic Modules	Front	45dB(A)	43dB	42dB	2670	White	37.33
5000EAW.AC1	Vent + 1 Acoustic External Module	Front	38dB(A)	38dB	37dB	5350	White	44.00
5000EAW.AC2	Vent + 2 Acoustic Modules	Front	42dB(A)	40dB	38dB	5350	White	60.00