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Internal Ambient Noise Survey

Prepared: 14th July 2025

Report No	22141B-1 (R2)
Client	Bloor Homes South Midlands
Site	Plot 221, Little Paxton St Neots Cambridgeshire PE19 6EH

noise.co.uk

1. Quality Management

Report Number	22141B-1 (R2)
Issue	Revision 1[1] Revision 2[2]
Prepared	14th July 2025
Prepared By	Shaun Sloan BSc, MIOA
Authorised By	Bill Whitfield PhD, MSc, MIOA

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[1] ADO Noise guide - Removal of excees heat by mechnical means
[2] Glazing and ventilator sound insulation performance review

3. Executive Summary

3.1.1. An internal ambient noise survey has been carried out for a residential development at Plot 221, Little Paxton, St Neots, Cambridgeshire, PE19 6EH.

3.2. Measurement, Assessment and Evaluation

3.2.1. The survey was carried out to BS7445-1:2003[3] and BS7445-2:1991[4].

3.3. Scope

3.3.1. This report covers all aspects of the noise survey, including:

- the identification of acoustic design criteria;
- an objective sound pressure level survey; and,
- analysis of the data.

3.4. Results Summary

3.4.1. The daytime and night-time fixed position internal measurement results are summarised in Table 1.

Room	Period	Averaging Time, *T*	Sound Pressure Level, $L_{Aeq,T}$*	Meet Guideline Values?	
				Good	Reasonable
Plot 221					
Rear Bedroom	15/05/2025 – 16/05/2025	8-hour Night	20.2 dB	✓	✓
		16-hour Day	27.0 dB	✓	✓
Living Room	15/05/2025 – 16/05/2025	16-hour Day	32.0 dB	✓	✓

Table 1 - Summary of the measured internal sound pressure levels

3.4.2. Table 1 shows that the measured internal sound pressure levels in the Rear Bedroom and Living Room of Plot 221 comply with the 'Good' and 'Reasonable' internal noise guidelines given in BS8233:2014.

3.4.3. Manufacturer data supports that the installed glazing and ventilator meet the required sound insulation performance provided in the Environmental Noise Report, whilst it is also confirmed that these elements have been installed on the relevant plot. On this basis, compliance across the development will be achieved

[3] BS7445-1:2003 "Description and measurement of environmental noise – Part 1: Description of quantities and procedures"
[4] BS7445-2:1991 "Description and measurement of environmental noise – Part 2: Guide to the acquisition of data pertinent to land use"

3.4.4. Table 2 summarises the a-weighted sound pressure levels measured from the fans during the attended survey.

Room	Sound Pressure Level, $L_{Aeq,T}$
Front Bedroom 2 (Large - 2x Vents)	47.9
	48.7
	48.9
	47.3
	49.5
Front Bedroom 3 (Small - 1x Vent)	47.2
	43.9
	42.7
	42.8
	42.8

Table 2 – Summary of the measured internal sound pressure levels measured from the fans

3.4.5. The measured fan noise levels in Bedrooms 2 and 3 are slightly above the standard recommended levels but remain broadly in line with the AVO Guide's allowances for increased ventilation or cooling demands. Bedroom 3 falls within the acceptable range under these specific conditions, and the marginal exceedance in Bedroom 2—just above the 45 dB $L_{Aeq,T}$ upper threshold—is likely to have only a minor impact on perceived sound levels.

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5. Background

5.1. Noise Policy Statement for England

5.1.1. The Noise Policy Statement for England (NPSE), published in March 2010, states the long-term vision of Government noise policy is to *"promote good health and a good quality of life through the effective* management *of noise within the context of Government policy on sustainable development".*

5.1.2. This long-term vision is supported by the following aims; through the effective management and control of environmental, neighbour and neighbourhood noise within the context of Government policy on sustainable development:

- Avoid significant adverse impacts on health and quality of life;
- Mitigate and minimise adverse impacts on health and quality of life;
- Where possible, contribute to the improvement of health and quality of life.

5.1.3. The intention is that the NPSE should apply to all types of noise apart from noise in the workplace (occupational noise).

5.2. National Planning Policy Framework

5.2.1. The National Planning Policy Framework (NPPF) was published on the 27th of March 2021 and is regularly updated; it sets out the Government's planning policies for England and how these are expected to be applied. The framework states that the planning system should contribute to and enhance the natural and local environment by:

"preventing both new and existing development from contributing to or being put at unacceptable risk from, or being adversely affected by unacceptable levels of soil, air, water or noise pollution or land instability".

5.2.2. The NPPF requires that new developments be appropriate to their locations such that the effects of pollution on health have been taken into account. Planning policies and decisions should aim to:

1. avoid noise giving rise to significant adverse impacts on health and the quality of life;
2. mitigate and reduce to a minimum potential adverse impacts resulting from noise from new development; and,
3. identify and protect tranquil areas which have remained relatively undisturbed by noise and are prized for their recreational and amenity value.

5.2.3. Existing businesses near to proposed development should not have unreasonable restrictions placed on them as a result of development permitted after they were established. Where the operation of an existing business or community facility could have a significant adverse effect on new development (including changes of use) in its vicinity, the applicant (or 'agent of change') should be required to provide suitable mitigation before the development has been completed.

5.3. National Planning Practice Guidance

5.3.1. The National Planning Practice Guidance (PPG) is a web-based resource, launched by the Department for Communities and Local Government (DCLG) which was updated on the 22nd July 2019 to reflect the changes made to the NPPF and make it more accessible.[5]

[5] http://planningguidance.communities.gov.uk/

5.3.2. It advises on how planning can manage potential noise impacts in new development. The guidance is regularly reviewed and updated and noise is listed as a specific category. A summary of the effects of noise exposure (in terms of health and quality of life) associated with both noise generating developments and noise sensitive developments is presented within the PPG and reproduced in Table 3.

Perception	Examples of outcomes	Effect level	Action
Not noticeable	No effect	No observed effect	No specific measures required
Noticeable and not intrusive	Noise can be heard, but does not cause any change in behaviour or attitude. Can slightly affect the acoustic character of the area but not such that there is a perceived change in the quality of life.	No Observed Adverse Effect (NOAEL)	No specific measures required
Lowest Observed Adverse Effect Level (LOAEL)			
Noticeable and intrusive	Noise can be heard and causes small changes in behaviour and/or attitude, e.g. turning up volume of television; speaking more loudly; where there is no alternative ventilation, having to close windows for some of the time because of the noise. Potential for some reported sleep disturbance. Affects the acoustic character of the area such that there is a perceived change in the quality of life.	Observed Adverse Effect	Mitigate and reduce to a minimum
Significant Observed Adverse Effect Level (SOAEL)			
Noticeable and disruptive	The noise causes a material change in behaviour and/or attitude, e.g. avoiding certain activities during periods of intrusion; where there is no alternative ventilation, having to keep windows closed most of the time because of the noise. Potential for sleep disturbance resulting in difficulty in getting to sleep, premature awakening and difficulty in getting back to sleep. Quality of life diminished due to change in acoustic character of the area.	Significant Observed Adverse Effect	Avoid
Noticeable and very intrusive	Extensive and regular changes in behaviour and/or an inability to mitigate effect of noise leading to psychological stress or physiological effects, e.g. regular sleep deprivation/awakening; loss of appetite, significant, medically definable harm, e.g. auditory and non-auditory	Unacceptable Adverse Effect	Prevent

Table 3 – Noise exposure hierarchy

5.3.3. There are a number of factors that determine whether a noise could be a concern to a receptor. These include: the absolute level of the noise and when it occurs, whether it is existing or new to the area, temporal characteristics, spectral content and the acoustic absorption in the area.

5.3.4. It is emphasised in the PPG that the planning process should be used to mitigate and minimise the impact of noise. This could include: engineering the noise sources to be quiet, minimising the impact of noise through layout, using conditions/obligations to restrict activities, mitigating the impact in places where noise is likely to be experienced (e.g. using facade sound insulation).

6. Introduction

6.1.1. Internal ambient noise levels have been measured in Plot 221 at Little Paxton, St Neots, Cambridgeshire, PE19 6EH, hereafter referred to as "Plot 221". The location of Plot 221 is highlighted in Figure 1.

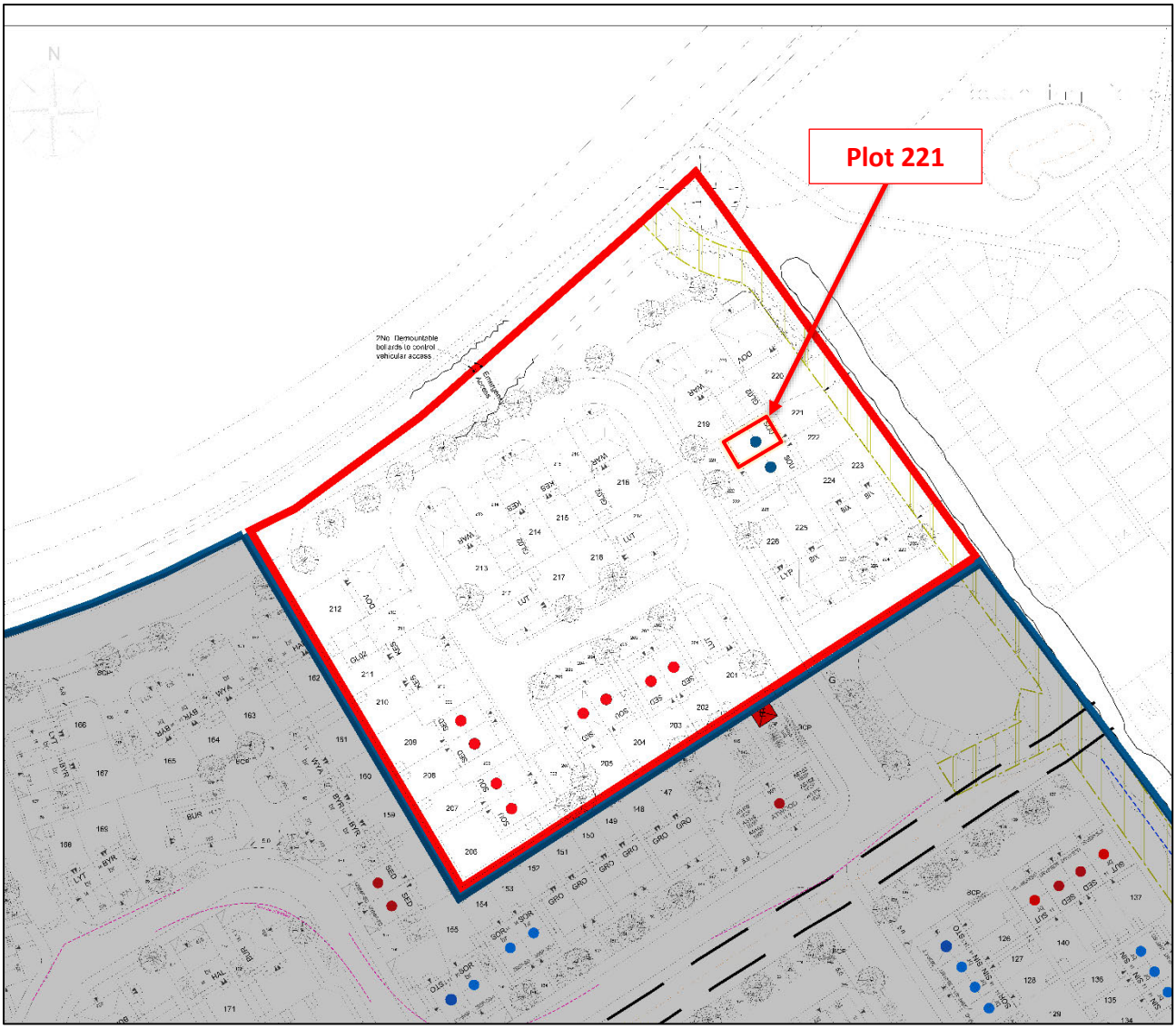


Figure 1 – Plan showing the location of Plot 221 at Little Paxton, St Neots, Cambridgeshire, PE19 6EH, highlighted in red

7. Assessment Criteria

7.1. Guideline Values

7.1.1. BS8233:2014[6] draws on the results of research and experience to provide information on the design of buildings that have internal acoustic environments appropriate to their function. The standard provides guideline internal values for dwellings for steady external noise sources. These have been summarised in Table 4.

Activity	Location	07:00 to 23:00	23:00 to 07:00
Resting	Living Room	35dB $L_{Aeq,16hour}$	-
Dining	Dining Room	40dB $L_{Aeq,16hour}$	-
Sleeping (daytime resting)	Bedroom	35dB $L_{Aeq,16hour}$	30dB $L_{Aeq,8hour}$

Table 4 – BS8233:2014 guideline values for internal ambient noise levels from steady external noise sources

7.1.2. That standard indicates that internal target levels may be relaxed by up to 5dB and 'reasonable' internal conditions can still be achieved.

7.1.3. The guideline values are issued by the World Health Organisation (WHO) and assume normal diurnal fluctuations in external noise. They are expected to be achieved based on normal annual data and not in all circumstances. For example, it is normal to exclude occasional events such as fireworks night or New Year's Eve.

Removing Excess Heat Using Mechanical Means

7.1.4. The document provides specific guidance on noise from mechanical systems used for removing excess and the recommended noise levels are presented in Table 2 of the AVO Guide[7]. These values are given in Table 5.

Parameter	Bedrooms
Mechanical ventilation or mechanical cooling system noise	$L_{Aeq,T}$ 30 (±5) dB

Table 5 - Table 2 of the AVO Guide - Recommended Noise Levels for Mechanical Ventilation or Mechanical Cooling Systems

7.1.5. In paragraph 5.4.5 the guidance document acknowledges that in some operating scenarios where rapid changes to the cooling or ventilation rates improve the thermal comfort of the occupant then higher noise levels up to 10 dBA may be appropriate i.e. 45 dB $L_{Aeq,T}$.

[6] BS8233: 2014 "Guidance on sound insulation and noise reduction for buildings"

[7] Acoustics Ventilation and Overheating – Residential Design Guide, January 2020

8. Survey

8.1. Internal Measurement Locations

8.1.1. Fixed position unattended monitoring took place in the Living Room and Rear Bedroom of Plot 221. Attended measurements were also conducted in Bedrooms 2 and 3 to assess noise levels associated with the mechanical ventilation systems.

8.1.2. The plot was in a completed state when measurements were made. Carpets were fitted, but no other furniture or curtains were present in the surveyed rooms. All trickle ventilators were in the open position in each of the tested rooms for the duration of the survey. The glass thickness and air gaps were measured using a laser gauge tool. The measured glazing configurations are shown below:

Plot	Room(s)	Measured Glazing Configurations	Expected Performance ($R_w + C_{tr}$) – See Footnotes
221	Rear Bedroom Front Bed 3 (Small)	4/18/4	26 dB[8]
	Living Room Front Bed 2 (Large)	4/20/4	26 dB[8]

Table 6 – Measured glazing configurations of the surveyed rooms in Plot 221

8.1.3. The internal monitoring was located approximately 1.5m from the floor level, 1.5m from the window and at least 1m from the next nearest room boundary. It should be noted that the plot was empty during the tests. Photos taken during the survey, showing the locations of the monitoring equipment and the laser gauge tool measurements have been included in the appendix.

8.2. Measurement Instrumentation

8.2.1. The measurement instrumentation used during the survey is detailed in the appendix. The acoustic equipment was calibrated to comply with Section 4.2 of BS7445-1:2003[9] before and after the surveys. The calibration details are also detailed in the appendix.

8.3. Measurement and Timescale

8.3.1. Continuous unattended noise monitoring took place between Thursday the 15th of May 2025 and Friday the 16th of May 2025. Attended monitoring was undertaken on 15th May 2025 between 10:45 and 11:20. The following quantities were measured:

Attended: 1/3 Octave band $L_{eq,1\text{-}min}$ | Unattended: $L_{Aeq,5\text{-}min}$

8.3.2. The acoustic measurements and their interpretation have been carried out in accordance with BS 7445: Parts 1, and 2[10]. All sound pressure levels are in dB (re 20μPa). The measurements were subsequently averaged into daytime and night-time periods.

8.4. External Measurement Locations

8.4.1. Fixed position monitoring also took place at four external positions on site. The monitoring equipment was located outside the windows of Plot 221 on the external façades of each of the surveyed rooms.

8.5. Noise Climate

8.5.1. The survey technician noted on-site that the noise climate was dominated by light construction activity.

[8] Compared with closest match Saint-Gobain 4/20/4; Test No. 625984
[9] B7445-1:2003 "Description and measurement of environmental noise – Part 1: Guide to quantities and procedures"
[10] BS7445-2:1991 *"Guide to the acquisition of data pertinent to land use"*

9. Results

9.1. Measurement Results

Internal sound pressure levels

9.1.1. The fixed position internal measurement results for Plot 221 have been summarised in Table 7.

Room	Period	Averaging Time, *T*	Sound Pressure Level, $L_{Aeq,T}$*	Meet Guideline Values?	
				Good	Reasonable
Plot 221					
Rear Bedroom	15/05/2025 – 16/05/2025	8-hour Night	20.2 dB	✓	✓
		16-hour Day	27.0 dB	✓	✓
Living Room	15/05/2025 – 16/05/2025	16-hour Day	32.0 dB	✓	✓

Table 7 – Internal measurement results

9.1.2. Table 7 shows that the measured internal sound pressure levels in the Bedroom and Living Room of Plot 221 comply with the 'Good' and 'Reasonable' internal noise guidelines given in BS8233:2014.

Mechanical fan noise

9.1.3. Table 2 summarises the a-weighted sound pressure levels measured from the fans during the attended survey.

Room	Sound Pressure Level, $L_{Aeq,T}$
Front Bedroom 2 (Large - 2x Vents)	47.9
	48.7
	48.9
	47.3
	49.5
Front Bedroom 3 (Small - 1x Vent)	47.2
	43.9
	42.7
	42.8
	42.8

Table 8 – Summary of the measured internal sound pressure levels measured from the fans

9.1.4. The fan noise measurements indicate that levels within Bedroom 2 ranged between 47–50 dB LAeq,T, while Bedroom 3 measured between 42–47 dB LAeq,T.

9.1.5. While these levels are above the standard recommended threshold of 30 dB LAeq,T (±5 dB) for bedrooms, the AVO Guide recognises that in certain operational scenarios — particularly where increased ventilation or cooling is required to ensure thermal comfort — internal noise levels of up to 45 dB LAeq,T may be considered acceptable.

9.1.6. In this case, Bedroom 3 falls broadly within this allowance. Although Bedroom 2 slightly exceeds it, it is worth noting that a 3 dB change is generally considered just perceptible and represents a small difference in perceived sound level.

External Sound pressure levels

9.1.7. The fixed position external measurement results are summarised in Table 9. It should be noted that the values have been applied a -3dB façade correction.

Room	Daytime $L_{Aeq,16hour}$	Night-time $L_{Aeq,8hour}$
Plot 221 Rear Bedroom	54.8 dB	46.7 dB
Plot 221 Living Room	56.9 dB	37.9 dB

Table 9 – External measurement results

10. Glazing and Ventilation Specification

10.1.1. The local authority has requested confirmation, as part of the application discharge process, that the installed mitigation measures across the development are capable of achieving the performance values set out in the Environmental Noise Report.[11]

10.1.2. In response, the client has instructed a review of the glazing and ventilation measures installed on site, with reference to the noise mitigation plan outlined in the environmental noise report. This report details the predicted façade sound insulation performance for the glazing and ventilator systems required to achieve compliance with the internal ambient noise level guidelines set out in BS 8233:2014.

10.1.3. For ease of reference, the specified sound insulation performance from the Environmental Noise Report is given in Figure 2.

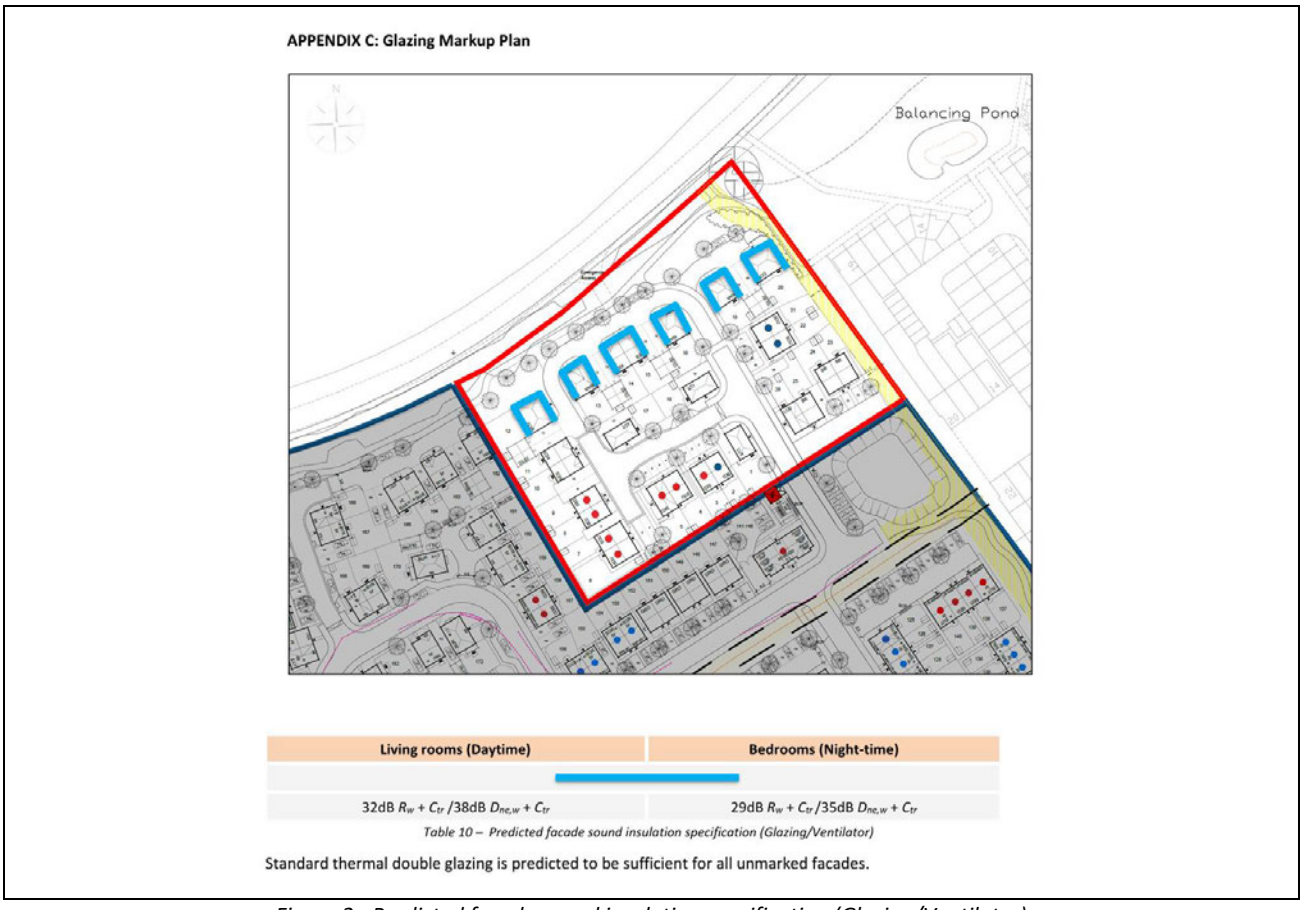


Figure 2 - Predicted facade sound insulation specification (Glazing/Ventilator)

[11] 22141-1-R3 - BS8233 - Land off Great North Road - Bloor Homes - BF - 240729

10.1.4. The client has provided manufacturer data confirming the sound insulation performance of the glazing and trickle ventilators installed across the site (See details in appendix). This information is presented in Figure 3.

Living Rooms

6.76mm (33.2) LamiGlass (PVB)
18mm Cavity
4mm Float Glass

Sound Reduction Indices

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000	37	-2	-5	30	36
23	28	34	39	42	44					

Bedrooms

4mm Float Glass
18mm Cavity
6mm Float Glass

Sound Reduction Indices

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000	35	-1	-4	29	34
26	25	29	40	38	29					

Trickle ventilator

Acoustic Ratings

Product	Open	Closed	EA (mm²)
[redacted]	[redacted]	[redacted]	[redacted]
V75 + C50 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 42 (-1;-2)dB	[redacted]	2500
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]
[redacted]	[redacted]	[redacted]	[redacted]

Figure 3 – Glazing and ventilator sound insulation performances (Manufacturer's data)

10.1.5. Based on the manufacturer's performance data, the glazing and ventilator installed are capable of achieving the sound insulation requirements identified in the Environmental Noise Report. On this basis, and assuming consistent build quality and installation, it is expected that similar internal sound pressure levels will be achieved throughout the remaining plots.

10.1.6. The glazing and ventilator specification installed across the site aligns with the noise mitigation plan and has been shown—based on manufacturer data—to achieve the required sound insulation performance, it is therefore expected that the internal noise level criteria set out in BS 8233:2014 will also be achieved across the remaining plots.

11. Conclusions

11.1.1. An internal environmental noise survey has been carried out in Plot 221 at Little Paxton, St Neots, Cambridgeshire, PE19 6EH.

11.1.2. The measured internal sound pressure levels in the Bedroom and Living Room of Plot 221 comply with the 'Good' and 'Reasonable' internal noise guidelines given in BS8233:2014.

11.1.3. Manufacturer data supports that the installed galzing and ventilator meet the required sound insulation performance provided in the Environmental Noise Report. On this basis, compliance across the development will be achieved.

11.1.4. The measured fan noise levels in Bedrooms 2 and 3 are slightly above the standard recommended levels but remain broadly in line with the AVO Guide's allowances for increased ventilation or cooling demands. Bedroom 3 falls within the acceptable range under these specific conditions, and the marginal exceedance in Bedroom 2—just above the 45 dB $L_{Aeq,T}$ upper threshold—is likely to have only a minor impact on perceived sound levels.

Appendix

APPENDIX A: Summary Information

Required ISO Test Report Information (cross referenced where required)			
		Measurements carried out to:	Analysed to:
A	Standards	BS 7445-1: 2003 BS 7445-2: 1991	BS 8233:2014
B	Organisation performed the measurements	noise.co.uk Ltd, The Haybarn, Newnham Grounds, Kings Newnham Lane, Bretford, Coventry, CV23 0JU.	
C	Name of Client	Bloor Homes South Midlands	
D	Full site address	Plot 221, Little Paxton, St Neots, Cambridgeshire, PE19 6EH	
E	Date of surveys	Survey Date: 15th May 2025 to 16th May 2025	
F	Description & identification of proposed development	The site is proposed for residential use.	
G	Brief Description of details of Procedure & equipment	See Section 8 of this report.	
H	Personnel	Survey Installation/Recovery Team: Dan Willett/Baden Fitzmaurice	

APPENDIX B: Technical Appendix

11.1.5. Measurements were made using the following equipment:

Monitoring Position	Sound Level Meter (Serial Number)	Calibrator (Serial Number)
Plot 221		
Rear Bedroom	Norsonic 140 (1405560)	Norsonic 1251 (33376)
Living Room	Norsonic 140 (1404964)	Norsonic 1251 (33376)
External Monitoring (Rear Bedroom)	SoftdB Piccolo II (P0222012803)	BSWA CA114 (590010)
External Monitoring (Living Room)	SoftdB Piccolo II (P0223031611)	BSWA CA114 (590010)

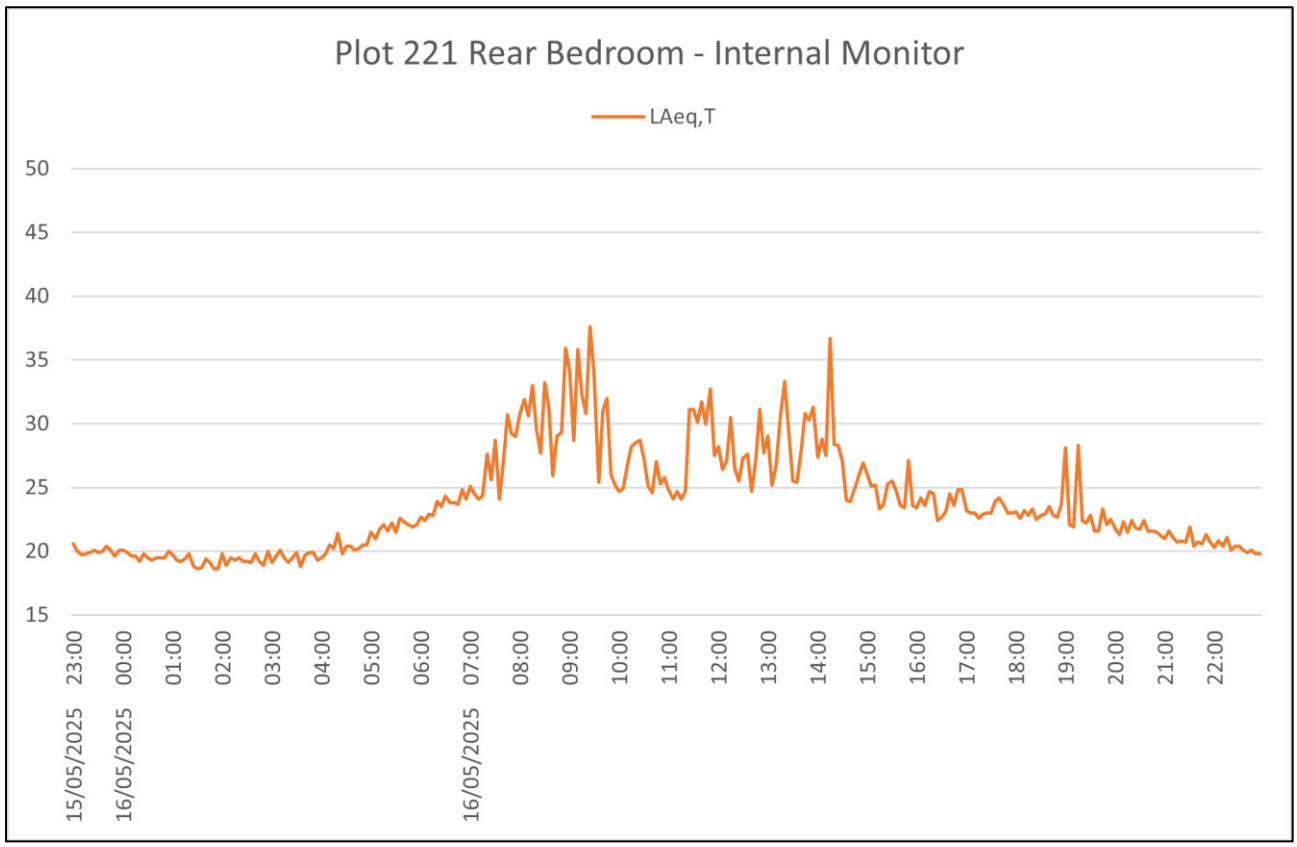
11.1.6. The equipment has traceable calibration.

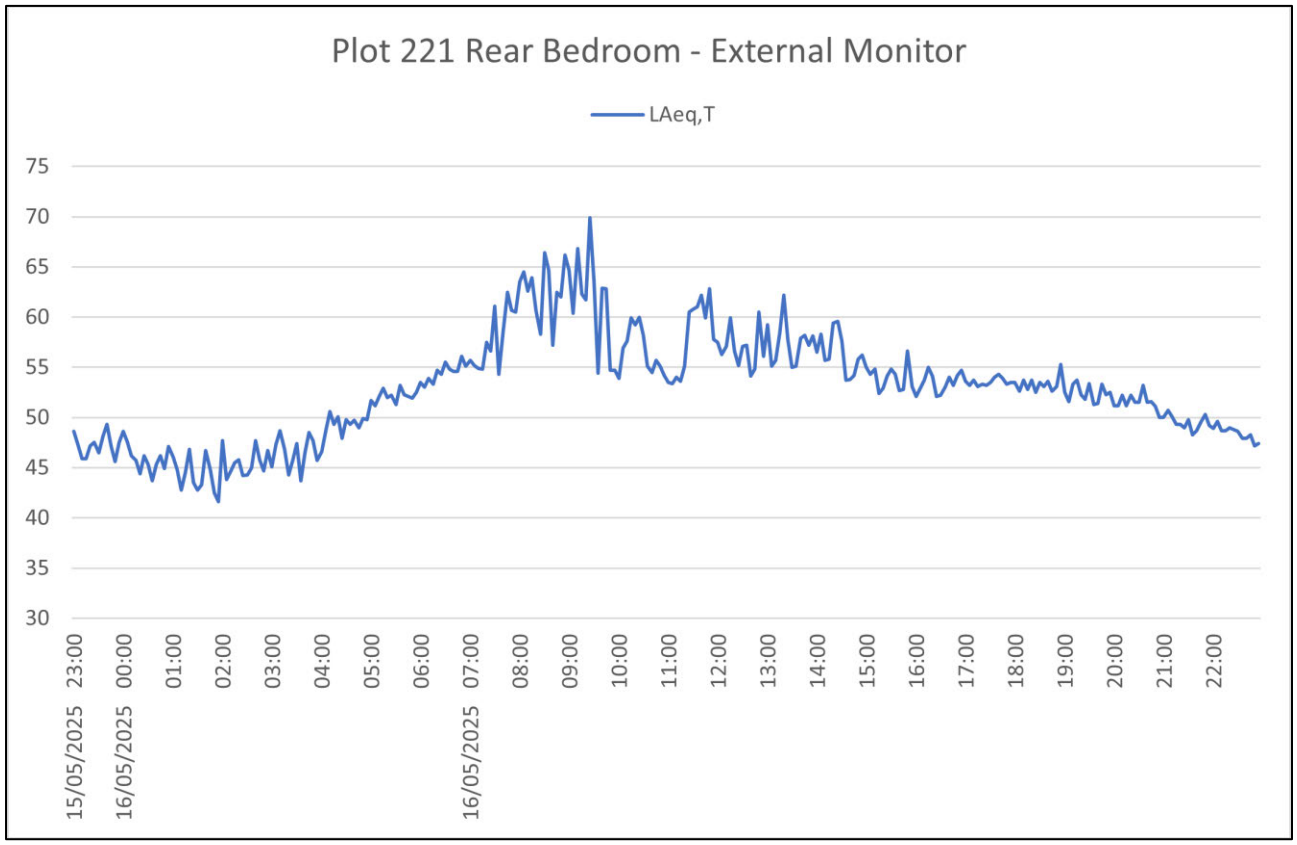
11.1.7. The sound level meter was calibrated immediately prior to and immediately after the measurements were carried out.

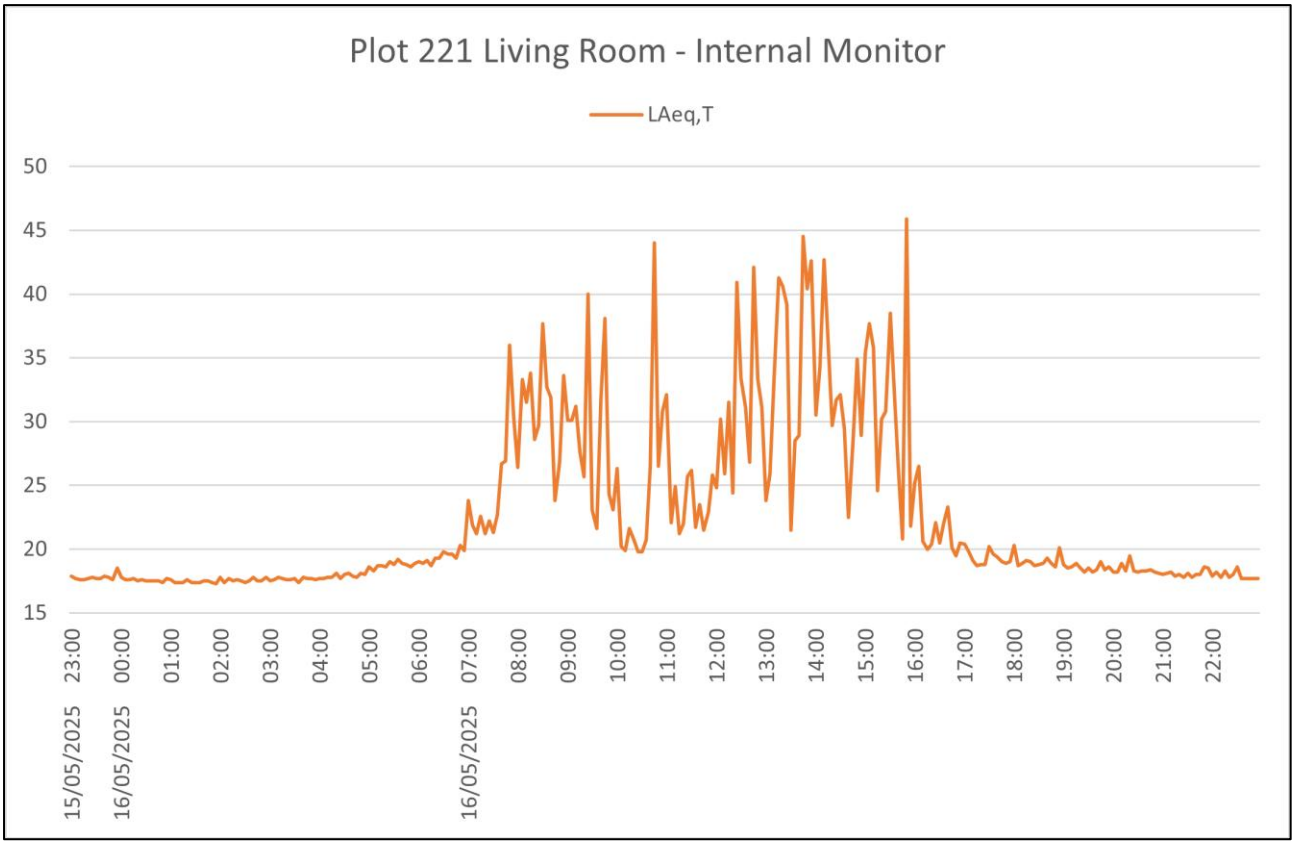
Sound Level Meter	Before	After
Plot 221		
Norsonic 140 (1405560)	114.0 dB	114.0 dB
Norsonic 140 (1404964)	114.0 dB	114.0 dB
SoftdB Piccolo II (P0222012803)	94.0 dB	94.0 dB
SoftdB Piccolo II (P0223031611)	94.0 dB	94.0 dB

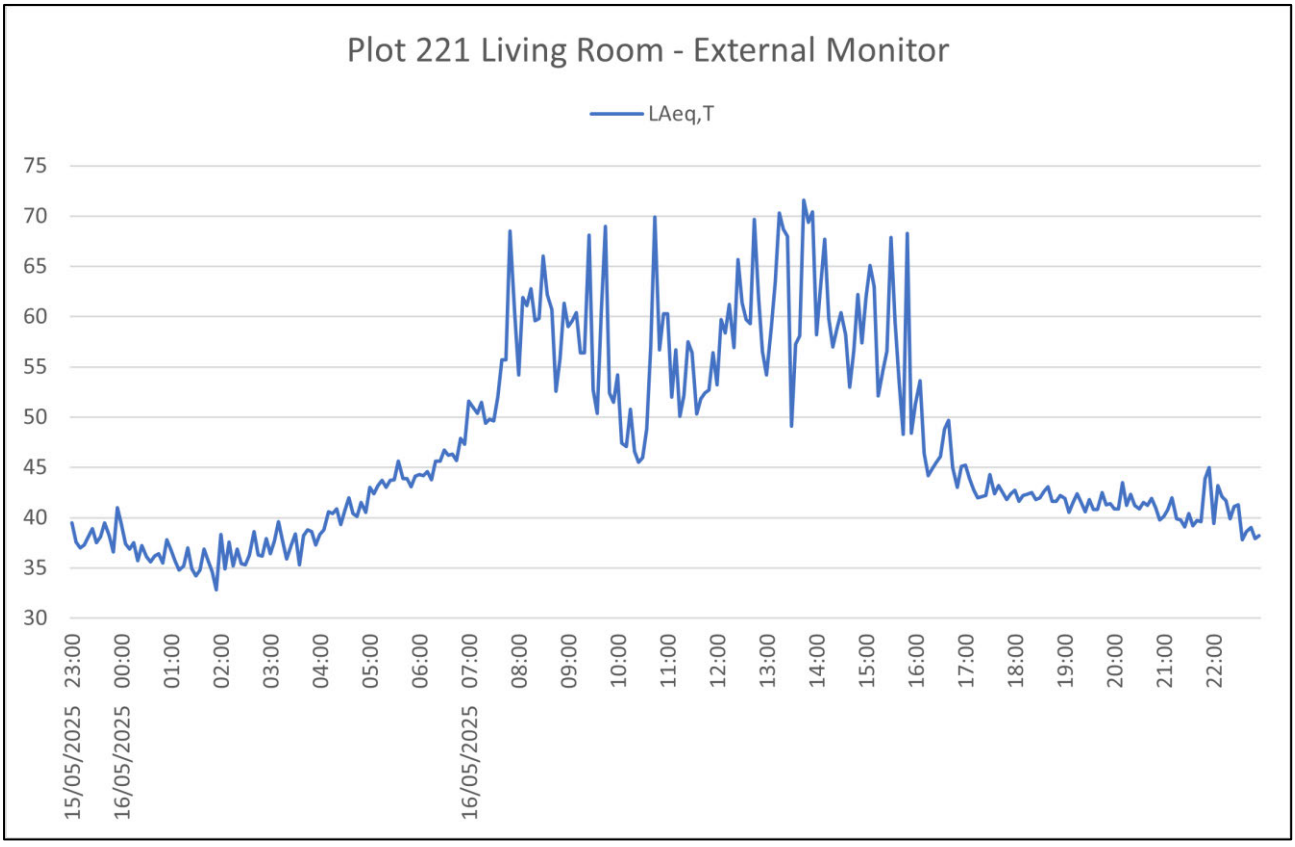
11.1.8. There was no adverse deviation.

APPENDIX C: Raw Data





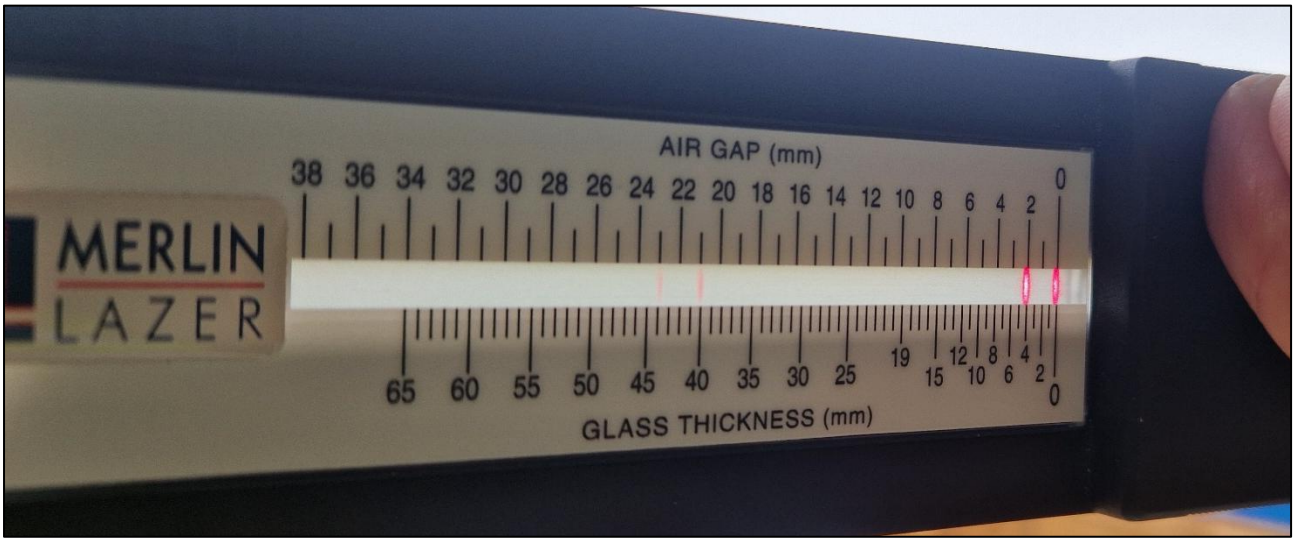

Plot 221 Living Room - Internal Monitor
LAeq,T
50
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40
35
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20
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00:00
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Plot 221 Living Room - External Monitor
LAeq,T
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70
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23:00
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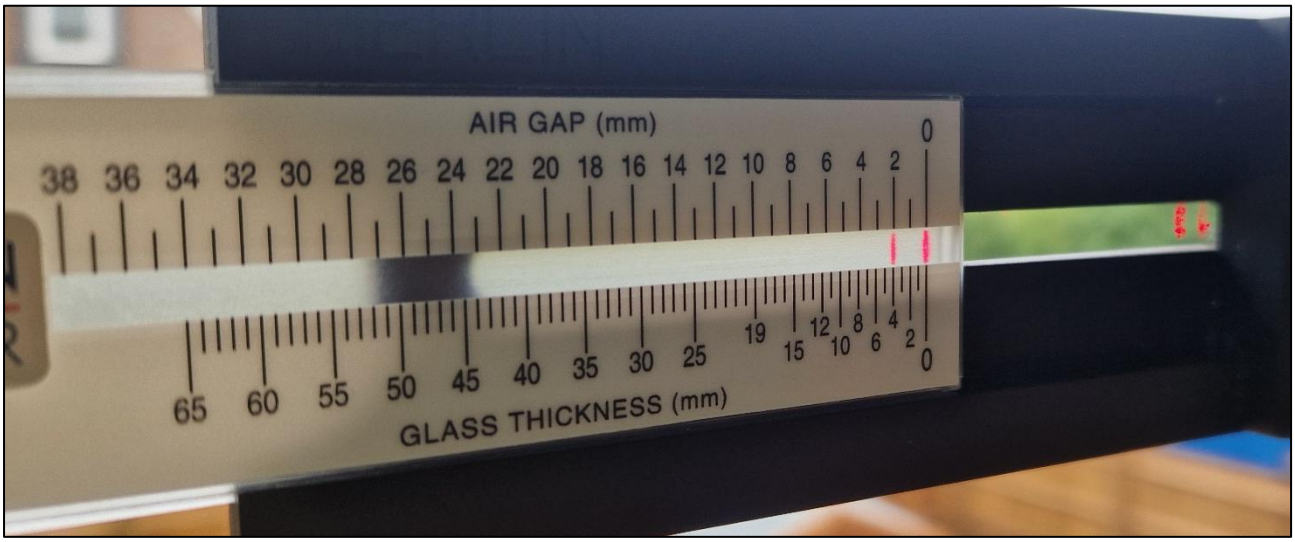
APPENDIX D: Photographs

Glazing Measurements

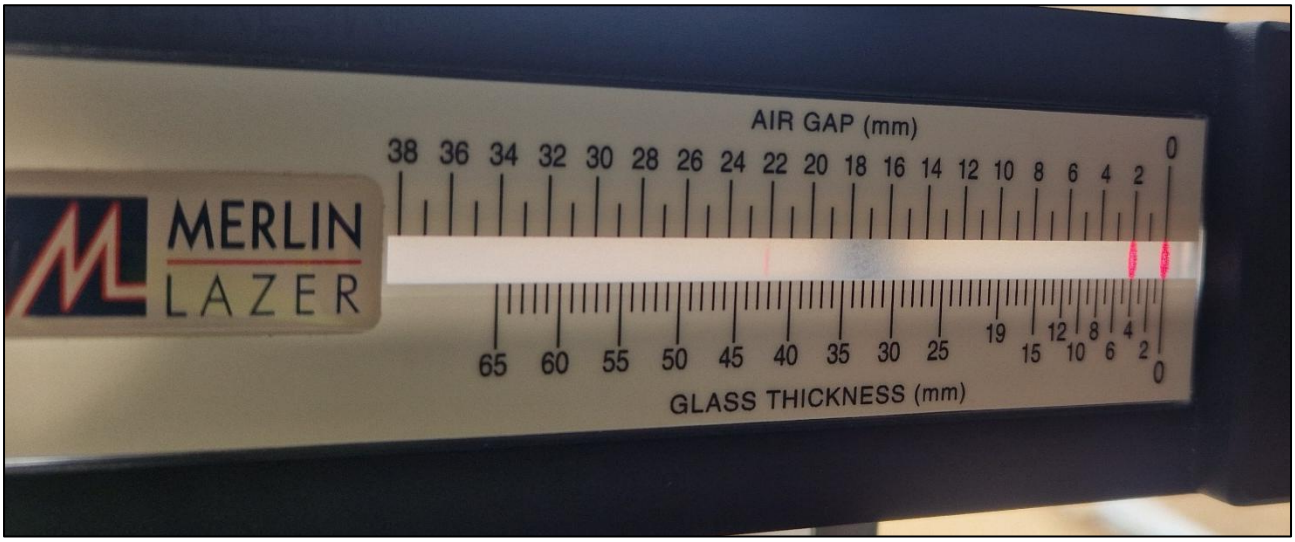
Plot 221 Rear Bedroom

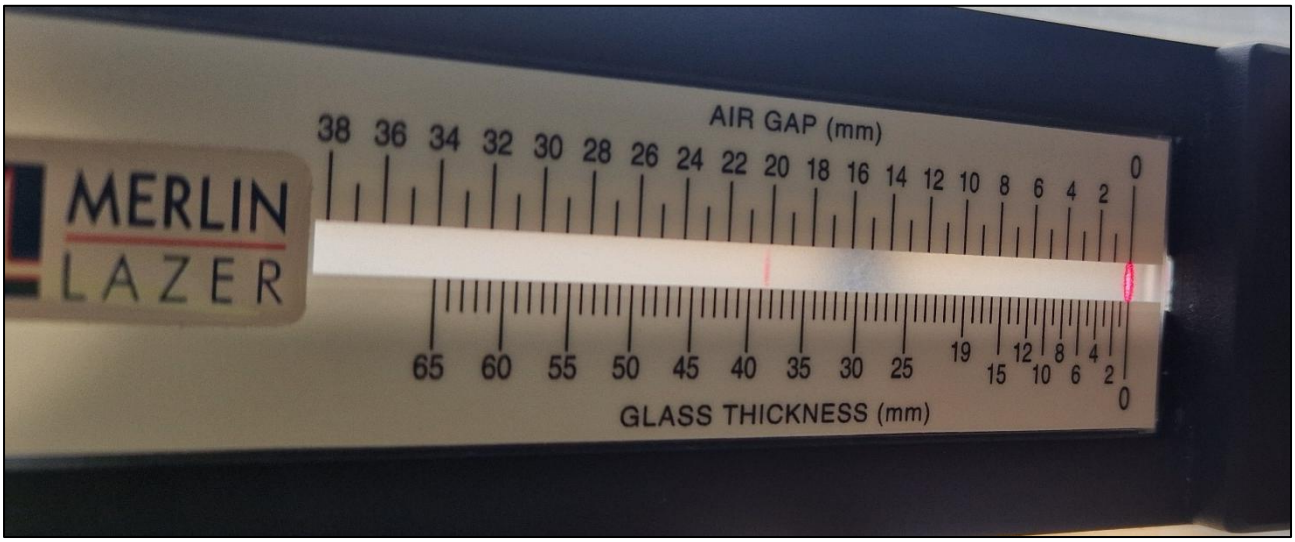


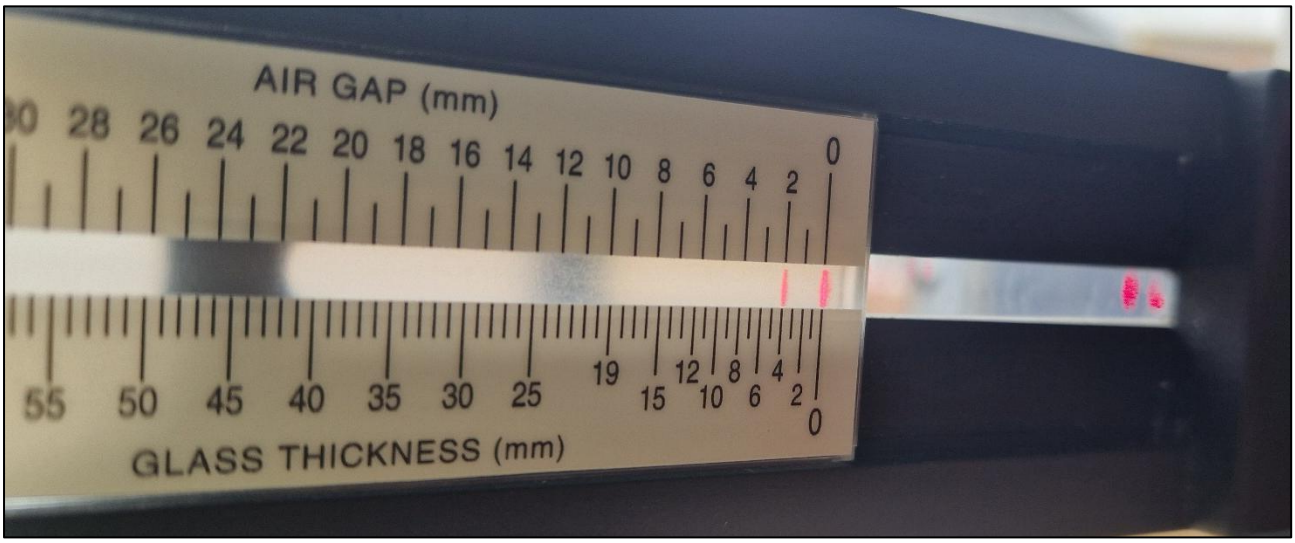




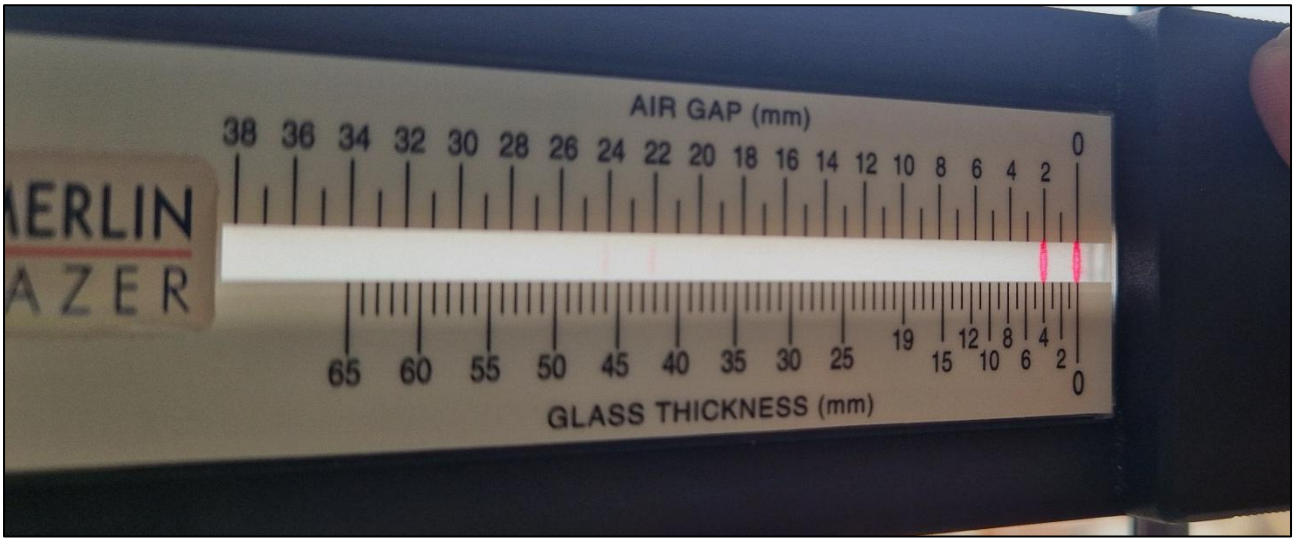
Plot 221 Living Room

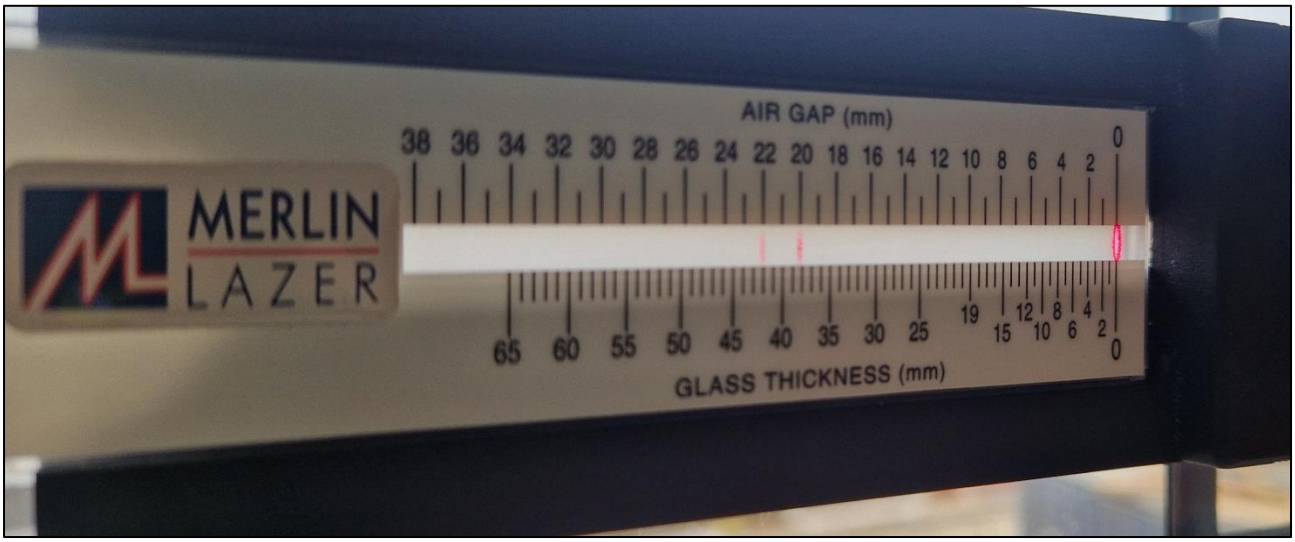






Plot 221 Front Bedroom 2 (Large)



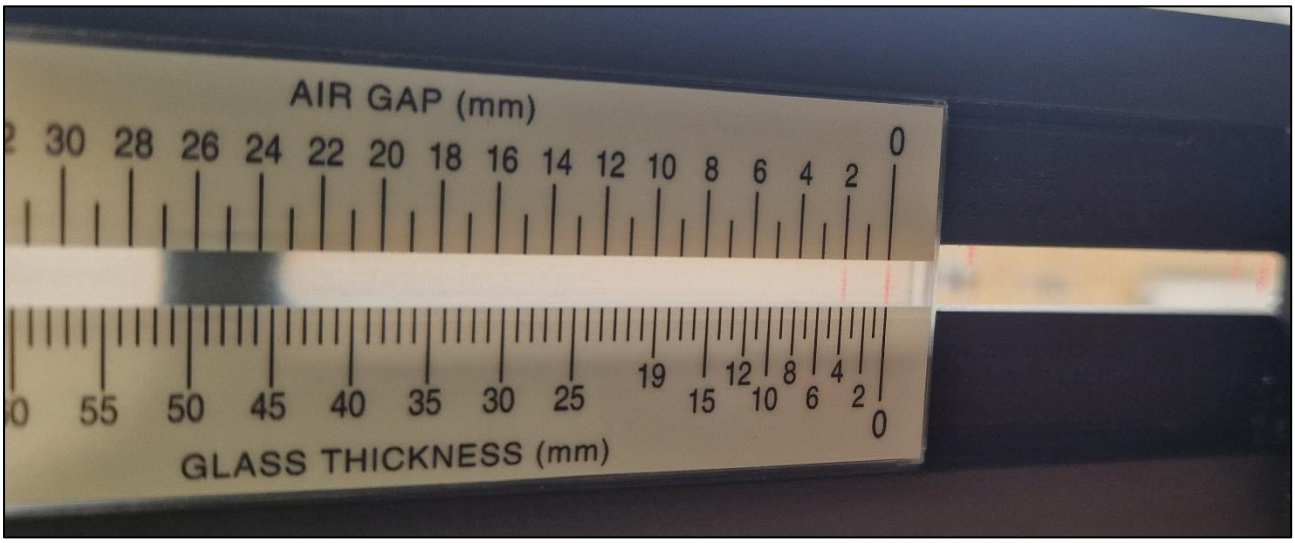




Plot 221 Front Bedroom 3 (Small)







Monitoring Positions

Plot 221 Rear Bedroom



Plot 221 Living Room



Appendix E: Additional Information

[redacted]

Sent: 26 June 2025 16:34

[redacted]

Subject: FW: Little Paxton 24/80436/COND - Verification Report-22141B

Attachments: 6.8 18 4.pdf; 4 18 6.pdf; TITON ACOUSTIC DATA SHEET NEW.pdf

Follow Up Flag: Follow up
Flag Status: Completed

[redacted]

Please see confirmation of what was installed below.

Kind regards

1

[redacted]
<Stuart@solixframesolutions.co.uk>
Sent: 26 June 2025 15:37
[redacted]
<Douglas.Burroughs@bloorhomes.com>
[redacted]
<John.Wilbraham@bloorhomes.com>
Subject: RE: Little Paxton 24/80436/COND - Verification Report- 22141B
[redacted]

Please see attached glazing Data sheets

Living Rooms – 6.8/18/4
Bedrooms – 6/18/4

Trickle Vents – V75 & C50

Hope this helps

Kind Regards

[redacted]
Director

Solix Frame Solutions Ltd
Unit 1 (E) Lowton Enterprise Park, 153 Newton Road, Lowton, Warrington WA3 1EZ
[redacted]

Registered in England & Wales No 6793331

[redacted]
<Douglas.Burroughs@bloorhomes.com>
Sent: 26 June 2025 15:27
[redacted]
<Stuart@solixframesolutions.co.uk>
[redacted]
<John.Wilbraham@bloorhomes.com>
Subject: FW: Little Paxton 24/80436/COND - Verification Report- 22141B
[redacted]

The planners have requested written confirmation that the windows and trickle vents comply with the attached noise mitigation plan.

Are you able to confirm via email so they have on file?

Thanks

[redacted]
Senior Surveyor

Bloor Homes South Midlands
Bewick House, 6 Cygnet Drive, Swan Valley, Northampton, Northamptonshire, NN4 9BS

Email: Douglas.Burroughs@bloorhomes.com

3

[redacted]

Director

[redacted] Ltd
Unit 1 (E) Lowton Enterprise Park, 153 Newton Road. Lowton, Warrington WA3 1EZ

[redacted]

Registered in England & Wales No 6793331

From: Douglas Burroughs <Douglas.Burroughs@bloorhomes.com>
Sent: 26 June 2025 15:27
[redacted] framesolutions.co.uk>
Cc: John Wilbraham <John.Wilbraham@bloorhomes.com>
[redacted] axton 24/80436/COND - 22141B

Hi Stuart,

[redacted] rs have requested written confirmation that the windows and trickle vents comply with the attached noise mitigation plan.

[redacted] firm via email so they have on file?

Thanks,
Doug

Douglas Burroughs
Senior Surveyor

[redacted] **Homes South Midlands**
[redacted] k House, 6 Cygnet Drive, Swan Valley, Northampton, Northamptonshire, NN4 9BS

[redacted]

Email: Douglas.Burroughs@bloorhomes.com

[redacted]

3

[redacted]

[redacted]

Acoustic Performance

Glazing Configuration

4mm Float Glass

18mm Cavity

6mm Float Glass

.

Sound Reduction Indices

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000	35	-1	-4	29	34
26	25	29	40	38	29					

Disclaimer: The acoustic performance data provided in the reports is based on a test protocol or an estimation and may be used if user actual glazing is identical to input data described herein. Acoustic performance data herein is only applicable for glazing dimensions 1,23 m x 1,48 m (as per testing standard). Estimation of acoustic performance is based on component-similarity assumptions which are derived from measured data and interpolation to expand the database of values from test protocols. Actual performance may vary according to the glazing dimensions, frame system, noise sources and many other parameters. The acoustic performance data herein should not be used as a substitute for tests of actual glazing. For more information please consult Assumptions and Terminology section in Guardian Acoustic Assistant.

14 May 2019 | Acoustic database 20190508

Acoustic Performance

Glazing Configuration

6.76mm (33.2) LamiGlass (PVB)

18mm Cavity

4mm Float Glass

.

Sound Reduction Indices

Frequency, Hz / dB						Rw	C	Ctr	OITC	STC
125	250	500	1000	2000	4000	37	-2	-5	30	36
23	28	34	39	42	44					

Disclaimer: The acoustic performance data provided in the reports is based on a test protocol or an estimation and may be used if user actual glazing is identical to input data described herein. Acoustic performance data herein is only applicable for glazing dimensions 1,23 m x 1,48 m (as per testing standard). Estimation of acoustic performance is based on component-similarity assumptions which are derived from measured data and interpolation to expand the database of values from test protocols. Actual performance may vary according to the glazing dimensions, frame system, noise sources and many other parameters. The acoustic performance data herein should not be used as a substitute for tests of actual glazing. For more information please consult Assumptions and Terminology section in Guardian Acoustic Assistant.

07 June 2019 | Acoustic database 20190508 | ASSUMPTION

SF Xtra Sound Attenuator Vent

Surface mounted noise reducing ventilator



SF Xtra Sound Attenuator internal

Suitable for:

PVCu ✓ ALUMINIUM ✓ TIMBER ✓

The SF Xtra Sound Attenuator ventilator is a slot ventilator which provides high levels of sound attenuation compared to similar 'acoustic' products, in a compact size.

The SF Xtra Sound Attenuator can be purchased in a number of combinations based on different sizes of inner (ventilator) and outer (canopy). Combinations can be chosen depending on the sound attenuation requirement and can achieve up to $D_{n,e,w}$ (C;Ctr) = 44 (-2;-3)dB when the vent is open.

The product is a cost effective method of reducing incoming noise in situations where conventional slot ventilators are unable to assist with acoustic issues.

The SF Xtra Sound Attenuator comes fitted with a Titon SF Xtra Ventilator and/or SF Canopy (HF Canopy for 5000EA version) and fits the 2500mm² EA version over the standard SF, Trimvent Select or Select Xtra slot size.



SF Canopy version



SF Sound Attenuator Canopy external

Features and Benefits

- **Cost effective sound attenuating ventilator**
- **Independently tested by Sound Research Laboratories in accordance with BSEN20140-10:1992, ISO140-10:1991**
- **2500mm² EA and 5000mm² EA versions available**
- **Vent sizes available: V25, V50, V75 and canopy sizes: C25, C50 and C75**
- **Can provide up to 44 $D_{n,e,w}$ attenuation, depending on combination**
- **Suitable for use in domestic or non-domestic installations**
- **Ideal for retrofit applications, over an existing slot**
- **Available in a range of combinations to suit different acoustic specifications**
- **Fits over a standard SF, Trimvent Select or Trimvent Select Xtra slot size**
- **Supplied with SF Xtra Ventilator and/or SF Canopy fitted (HF Canopy for 5000EA version)**
- **High performance gasket combined with compression closing action improves sealing in adverse conditions**
- **Can be mounted to deflect air upwards or downwards**
- **For use over a 13mm slot**
- **Special paint finishes available**

Details

Product	Product Code	(L) Length	(W) Width	(P) Projection Closed-Open	Free Area (mm²)	Slot Detail
SF Xtra 2500EA Vent only	TA5220	425	28	10-24	4207	
SF 418 Canopy only	TA5005	418	23	27	5114	
SF Xtra Sound Attenuator 2500EA Vent 25mm	TA5221	464	35	37-51	3470	
SF Sound Attenuator 2500EA Canopy 25mm	TA5202	464	35	54	3470	173.5 20 173.5 13
SF Xtra Sound Attenuator 2500EA Vent 50mm	TA5223	464	35	62-76	3470	
SF Sound Attenuator 2500EA Canopy 50mm	TA5204	464	35	79	3470	
SF Xtra Sound Attenuator 2500EA Vent 75mm	TA5225	464	35	87-101	3470	
SF Sound Attenuator 2500EA Canopy 75mm	TA5206	464	35	104	3470	
SF Xtra Sound Attenuator 5000EA Vent 75mm	TA5235	523	35	87-101	5517	215 8 215 13
HF Sound Attenuator 5000EA Canopy 75mm	TA5236	523	35	113.5	5517	

Acoustic Ratings

Product	Open	Closed	EA (mm²)
V75 + C75 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 44 (-2;-3)dB	$D_{n,e,w}$ (C;Ctr) = 55 (-1;-5)dB	2500
V75 + C50 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 42 (-1;-2)dB	$D_{n,e,w}$ (C;Ctr) = 55 (-2;-5)dB	2500
V75 + Standard Canopy (2500EA)	$D_{n,e,w}$ (C;Ctr) = 40 (-1;-2)dB	$D_{n,e,w}$ (C;Ctr) = 53 (-1;-4)dB	2500
V50 + C25 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 39 (-1;-2)dB	$D_{n,e,w}$ (C;Ctr) = 55 (-2;-5)dB	2500
V50 + Standard Canopy (2500EA)	$D_{n,e,w}$ (C;Ctr) = 38 (-1;-2)dB	$D_{n,e,w}$ (C;Ctr) = 55 (-2;-5)dB	2500
V25 + C25 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 36 (0;-2)dB	$D_{n,e,w}$ (C;Ctr) = 55 (-1;-5)dB	2500
V25 + Standard Canopy (2500EA)	$D_{n,e,w}$ (C;Ctr) = 35 (0;-1)dB	$D_{n,e,w}$ (C;Ctr) = 54 (-1;-4)dB	2500
Standard Vent + C25 (2500EA)	$D_{n,e,w}$ (C;Ctr) = 35 (0;-1)dB	$D_{n,e,w}$ (C;Ctr) = 55 (1;-5)dB	2500
Standard Vent + Standard SF Canopy (2500EA)	$D_{n,e,w}$ (C;Ctr) = 32 (1;0)dB	$D_{n,e,w}$ (C;Ctr) = 52 (-2;-4)dB	2500
V75 + C75 (Hi Spec Foam) (5000EA)	$D_{n,e,w}$ (C;Ctr) = 40 (-2;-3)dB	$D_{n,e,w}$ (C;Ctr) = 51 (-1;-4)dB	5000

Manufactured from

Aluminium 6063A T6, component parts POM

Recommended screws

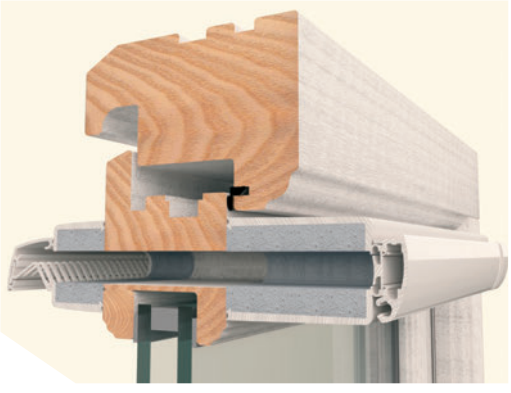
4mm (No.8) Round Head or equivalent
When fitting to PVCu screw must go through two walls or into reinforcement

Standards

Tested in accordance with BS EN 13141-1:2004 (airflow air leakage and weather tightness)

Finishes

Suffix product code with -20 (white)
Other colour options available. Please contact sales for details.



Through sash

Performance

(Full details available on request)
Equivalent Area – See above
Free Area – See above
Air Leakage – 0.11m³/hr @ 50Pa (Vent and Canopy only)
Water Resistance (Pa) – 750Pa
Acoustic $D_{n,e,w}$ – see above
NB: For optimum performance the ventilator should be installed on a flat surface free from defects, and sealant should be used along all edges to achieve the desired acoustic result.

More information

enquiries@titon.co.uk / 01206 713801

