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ENERGY AND CLIMATE CHANGE ENVIRONMENT AND SUSTAINABILITY INFRASTRUCTURE AND UTILITIES LAND AND PROPERTY MINING, QUARRYING AND MINERAL ESTATES WASTE RESOURCE MANAGEMENT



BARRATT HOMES

LINGLONGS ROAD, WHALEY BRIDGE

DETAILED NOISE ASSESSMENT REPORT

MAY 2017



your earth our world



DATE ISSUED:	MAY 2017
JOB NUMBER:	LE13843
REPORT NUMBER:	001

BARRATT HOMES

LINGLONGS ROAD, WHALEY BRIDGE

DETAILED NOISE ASSESSMENT REPORT

MAY 2017

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This report has been prepared by Wardell Armstrong LLP with all reasonable skill, care and diligence, within the terms of the Contract with the Client. The report is confidential to the Client and Wardell Armstrong LLP accept no responsibility of whatever nature to third parties to whom this report may be made known.

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1 INTRODUCTION

- 1.1.1 By e-mail instruction dated 2nd March 2017, from Mr Kevin Furey on behalf of Barratt Homes (BDW Trading Limited), Wardell Armstrong LLP was commissioned to undertake a noise assessment to discharge a planning condition for the proposed residential development at land off Linglongs Road, Whaley Bridge.
- 1.1.2 The proposed development site is located to the south of Whaley Bridge and currently comprises open land. To the north, the site is bordered by existing residential dwellings on Macclesfield Road, with Macclesfield Road and further existing residential dwellings beyond. To the east, the site is bordered by woodland, with the premises of Clover Chemicals, Botany Business Park and Buxton Road beyond. To the south, the site is bordered by a school and open land. To the west, the site is bordered by Linglongs Road, with existing residential dwellings off Linglongs Avenue and The Rise beyond.
- 1.1.3 It is understood that outline planning permission was approved for up to 107 residential dwellings in May 2015 (Application Number: HPK/2014/0119). A noise assessment is required to discharge Condition 8 of the permission. The condition is stated below:

'No development shall take place until a mitigation scheme for protecting the proposed dwellings from traffic noise has been submitted to and approved in writing by the Local Planning Authority. No dwelling which forms part of the scheme shall be occupied until the approved works to that dwelling have been completed.'

- 1.1.4 As part of the application, a layout has been provided, ref 466/P/PL/01 Revision A, showing the proposed location of the residential dwellings. This layout has been used to predict the noise levels at the façades of the proposed dwellings.
- 1.1.5 This report assesses the development in accordance with the planning condition and includes recommendations for noise mitigation as appropriate.



2 ASSESSMENT METHODOLOGY

2.1 Introduction

2.1.1 A noise assessment has been undertaken to discharge Condition 8, of the planning permission.

2.2 Consultation and Scope of Works

- 2.2.1 Consultation has been undertaken with Mr. Matthew Rhodes, Environmental Health Officer at High Peak Borough Council, who confirmed that the noise levels measured for the noise assessment prepared in support of the outline application prepared by Wardell Armstrong and dated November 2013, could be used to assess the potential noise impact at the proposed scheme. However, Mr. Rhodes has requested that a +5dB weighting be added to the measured noise levels to account for any increase in the noise at the site since the noise survey was undertaken in 2013.
- 2.2.2 The additional weighting is considered by Wardell Armstrong to be very robust and is equivalent to an approximate a 250% increase in road traffic flows.
- 2.2.3 The potential impacts of the existing sources of noise on the proposed residential areas of the development have been assessed with reference to following guidance:
 - The World Health Organisation Guidelines for Community Noise 1999 (WHO); and
 - British Standard 8233: 2014 Guidance on Sound Insulation and noise reduction for buildings (BS8233).

2.3 Assessment Guidnace

- 2.3.1 The Noise Policy Statement for England refers to the World Health Organisation (WHO) when discussing noise impacts. The WHO Guidelines for Community Noise 1999 suggest guideline values for internal noise exposure which take into consideration the identified health effects and are set, based on the lowest effect levels for general populations. Guideline values for annoyance which relate to external noise exposure are set at 50 or 55 dB(A), representing day time levels below which a majority of the adult population will be protected from becoming moderately or seriously annoyed respectively.
- 2.3.2 The following guideline values are suggested by WHO:
 - 35 dB LAeq (16 hour) during the day time in noise sensitive rooms
 - 30 dB LAeq (8 hour) during the night time in bedrooms



- 45 dB LAmax (fast) during the night time in bedrooms
- 50 dB LAeq (16 hour) to protect majority of population from becoming moderately annoyed
- 55 dB _{LAeq (16 hour)} to protect majority of population from becoming seriously annoyed
- 2.3.3 British Standard 8233 "Guidance on sound insulation and noise reduction for buildings" 2014 bases its advice on the WHO Guidelines. In addition, for internal noise levels it states;

"Where development is considered necessary or desirable, despite external noise levels above WHO guidelines, the internal target levels may be relaxed by up to 5 dB and reasonable internal conditions still achieved."

2.3.4 Furthermore, with regard to external noise, the Standard states;

"For traditional external areas that are used for amenity space such as gardens and patios, it is desirable that the external noise level does not exceed 50 dB $L_{Aeq. T}$ with an upper guidance value of 55 dB $L_{Aeq. T}$ which would be acceptable in noisier environments. However, it is also recognised that these guideline values are not achievable in all circumstances where development might be desirable. In higher noise areas, such as city centres or urban areas adjoining the strategic transport network, a compromise between elevated noise levels and other factors, such as the convenience of living in these locations or making efficient use of land resources to ensure development needs can be met, might be warranted. In such a situation, development should be designed to achieve the lowest practicable levels in these external amenity spaces, but should not be prohibited".



3 NOISE ATTENUATION SCHEME

3.1 Daytime Noise Levels in Outdoor Living Areas

3.1.1 The noise levels, as detailed the noise assessment report prepared by Wardell Armstrong (LE11989/001 Dated January 2014), indicates that, during the daytime, the noise levels affecting the proposed development site are between 47dB L_{Aeq} and 48dB L_{Aeq}. When 5dB is added to these noise levels, as requested by Mr. Rhodes of High Peak Borough Council, the noise levels remain below the guideline level of 55dB L_{Aeq} recommended by WHO. Therefore, mitigation measures are not required for outdoor living areas of proposed dwellings located across the development site.

3.2 Assessment of Noise Levels in Living Room and Bedroom Areas

- 3.2.1 The noise guideline value for living room and bedroom areas during the daytime is 35dB L_{Aeq}, the noise guideline value for dining areas is 40dB L_{Aeq} and the noise guideline values for bedrooms at night is 30 dB L_{Aeq}. These levels reflect the advice in WHO and BS8233.
- 3.2.2 The noise levels likely at the facades of the properties in the vicinity of the monitoring locations have been determined, during the daytime and night time periods. The assessment is based on the noise level measurements of each source as detailed in the Wardell Armstrong noise report prepared in support of the outline planning application (Report Reference LE11989/001 Dated January 2014). As requested by Mr. Rhodes of High Peak Borough Council, 5dB has been added to the measured noise levels.
- 3.2.3 The noise levels likely at the facades of the properties closest to the main sources of noise have been calculated. This has been done for the daytime and night time periods. Detailed break in calculations have then been undertaken for all noise sensitive rooms (i.e. living rooms, dining areas and bedrooms) for each plot type. The required glazing and ventilation schemes to achieve 35dB L_{Aeq} in the living rooms and 30 dB L_{Aeq} / 45 dB L_{Amax,fast} in bedrooms are detailed in Appendix A.
- 3.2.4 The glazing and ventilation scheme detailed in Appendix A will allow for passive ventilation to be provided in noise sensitive rooms with windows closed. It is considered that purge ventilation can be provided via extractor fans in kitchens and bathrooms and through the occasional opening of windows as required.



3.2.5 The sound reduction data for the glazing specified is detailed in Appendix B. It is important to note that the brand of ventilation stated is illustrative and other brands are available. The sound attenuation of any alternative product must be equal to or greater than those stated.





4 CONCLUSIONS

- 4.1.1 Wardell Armstrong has carried out a detailed noise assessment for the proposed residential development located at land off Linglongs Lane, Whaley Bridge.
- 4.1.2 This report assesses the noise at the proposed development site and recommends a noise mitigation scheme as appropriate.
- 4.1.3 The noise levels likely at the façades of properties during the daytime and at night, including the additional 5dB weighting as requested by High Peak Borough Council.
- 4.1.4 Mitigation measures are not required in outdoor living areas to achieve the guideline value of 55dBL_{Aeq.}
- 4.1.5 The proposed glazing and ventilation scheme will ensure that the relevant noise guideline values are met across the site and will allow for passive ventilation to be provided in noise sensitive rooms with windows closed. It is considered that purge ventilation can be provided via extractor fans in kitchen/bathrooms and through the occasional opening of windows as required.



Plot	House Type	Room	Living rooms
		Lounge	Opening Windows
		Kitchen	Opening Windows
		Dining Study	4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450
1	Tamerton	Bedroom 1	4/12/4 with Passivent TVAL450
		Bedroom 2	4/12/4 with Passivent TVAL450
		Bedroom 3	Opening Windows
		Bedroom 4	Opening Windows
		Lounge	4/12/4 with Passivent TVAL450
		Dining / Kitchen	Opening Windows
2	Hertford	Bedroom 1	4/12/4 with Passivent TVAL450
		Bedroom 2 Bedroom 3	Opening Windows 4/12/4 with Passivent TVAL450
		Bedroom 4	Opening Windows
		Lounge	Opening Windows
		Kitchen	Opening Windows
		Dining	4/12/4 with Passivent TVAL450
3	Tamartan	Study	4/12/4 with Passivent TVAL450
3	Tamerton	Bedroom 1	4/12/4 with Passivent TVAL450
		Bedroom 2	4/12/4 with Passivent TVAL450
		Bedroom 3	Opening Windows
		Bedroom 4	Opening Windows
		Lounge	4/12/4 with Passivent TVAL450
		Dining / Kitchen	4/12/4 with Passivent TVAL450
4	Hale	Bedroom 1 Bedroom 2	4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450
		Bedroom 3	4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450
		Bedroom 4	4/12/4 with Passivent TVAL450
		Lounge	4/12/4 with Passivent TVAL450
		Dining / Kitchen	4/12/4 with Passivent TVAL450
5	Hertford	Bedroom 1	4/12/4 with Passivent TVAL450
5	Hertiord	Bedroom 2	4/12/4 with Passivent TVAL450
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66 Woodley Lounge Kitchen 4/12/4 with Passivent TVAL450 67 Woodley Bedroom 1 4/12/4 with Passivent TVAL450 67 Woodley Lounge Kitchen 4/12/4 with Passivent TVAL450 68 Derwent Lounge 4/12/4 with Passivent TVAL450 68 Derwent Bedroom 1 4/12/4 with Passivent TVAL450 68 Derwent Bedroom 1 4/12/4 with Passivent TVAL450 68 Bedroom 1 4/12/4 with Passivent TVAL450	65	Woodley		
66 Woodley Bedroom 1 4/12/4 with Passivent TVAL450 67 Woodley Lounge Kitchen 4/12/4 with Passivent TVAL450 67 Bedroom 1 4/12/4 with Passivent TVAL450 68 Derwent Lounge 4/12/4 with Passivent TVAL450 68 Derwent Bedroom 1 4/12/4 with Passivent TVAL450 68 Bedroom 1 4/12/4 with Passivent TVAL450 68 Bedroom 1 4/12/4 with Passivent TVAL450		+		
67 Woodley Lounge Kitchen 4/12/4 with Passivent TVAL450 67 Bedroom 1 4/12/4 with Passivent TVAL450 68 Derwent Lounge 4/12/4 with Passivent TVAL450 68 Derwent Bedroom 1 4/12/4 with Passivent TVAL450 68 Bedroom 1 4/12/4 with Passivent TVAL450 68 Bedroom 1 4/12/4 with Passivent TVAL450 68 Bedroom 1 4/12/4 with Passivent TVAL450	66	Woodley		
67 Woodely Bedroom 1 4/12/4 with Passivent TVAL450 68 Derwent Lounge 4/12/4 with Passivent TVAL450 68 Derwent Kitchen/Dining Opening Windows 68 Bedroom 1 4/12/4 with Passivent TVAL450 68 Bedroom 2 4/12/4 with Passivent TVAL450				
Bedroom 1 4/12/4 with Passivent TVAL450 68 Derwent Lounge 4/12/4 with Passivent TVAL450 68 Derwent Bedroom 1 0pening Windows Bedroom 1 4/12/4 with Passivent TVAL450 Bedroom 2 4/12/4 with Passivent TVAL450	67	Woodley		
68 Derwent Kitchen/Dining Opening Windows 68 Bedroom 1 4/12/4 with Passivent TVAL450 Bedroom 2 4/12/4 with Passivent TVAL450		-		
68 Derwent Bedroom 1 4/12/4 with Passivent TVAL450 Bedroom 2 4/12/4 with Passivent TVAL450				
Bedroom 2 4/12/4 with Passivent TVAL450			· · · · · · · · · · · · · · · · · · ·	
	68	Derwent		
Bedroom 3 Opening Windows				
			Bedroom 3	Opening Windows

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		Loungo	1/12/1 with Dessivent TV/AL 150
		Lounge	4/12/4 with Passivent TVAL450
	Haltwistle	Dining/Kitchen	Opening Windows
69		Bedroom 1	4/12/4 with Passivent TVAL450
		Bedroom 2	Opening Windows
		Bedroom 3	4/12/4 with Passivent TVAL450
		Bedroom 4	4/12/4 with Passivent TVAL450
70	Any	Any	Opening Windows
71	Any	Any	Opening Windows
		Lounge	4/12/4 with Passivent TVAL450
		Dining	4/12/4 with Passivent TVAL450
		Family Kitchen	4/12/4 with Passivent TVAL450
72	Alderney	Bedroom 1	4/12/4 with Passivent TVAL450
		Bedroom 2	4/12/4 with Passivent TVAL450
		Bedroom 3	4/12/4 with Passivent TVAL450
		Bedroom 4	Opening Windows
73	Any	Any	Opening Windows
74	Any	Any	Opening Windows
75	Any	Any	Opening Windows
76	Any	Any	Opening Windows
77	Any	Any	Opening Windows
78	Any	Any	Opening Windows
78			
19	Any	Any	Opening Windows
		Lounge	Opening Windows
		Kitchen	Opening Windows
		Dining	4/12/4 with Passivent TVAL450
80	Tamerton	Study	4/12/4 with Passivent TVAL450
00	Tumerton	Bedroom 1	4/12/4 with Passivent TVAL450
		Bedroom 2	4/12/4 with Passivent TVAL450
		Bedroom 3	Opening Windows
		Bedroom 4	Opening Windows
		Lounge	4/12/4 with Passivent TVAL450
		Dining/Kitchen	Opening Windows
		Bedroom 1	4/12/4 with Passivent TVAL450
81	Haltwistle	Bedroom 2	Opening Windows
		Bedroom 3	4/12/4 with Passivent TVAL450
		Bedroom 4	4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450
		Lounge	
		Dining / Kitchen	Opening Windows
82	Hale	Bedroom 1	4/12/4 with Passivent TVAL450
		Bedroom 2	Opening Windows
		Bedroom 3	Opening Windows
		Bedroom 4	4/12/4 with Passivent TVAL450
		Lounge	4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450
83	Haltwictle	Lounge	4/12/4 with Passivent TVAL450
83	Haltwistle	Lounge Dining/Kitchen	4/12/4 with Passivent TVAL450 Opening Windows
83	Haltwistle	Lounge Dining/Kitchen Bedroom 1	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450
83	Haltwistle	Lounge Dining/Kitchen Bedroom 1 Bedroom 2	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows
83	Haltwistle	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450
83	Haltwistle	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 Opening Windows
83	Haltwistle	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 Opening Windows 0pening Windows Opening Windows Opening Windows
		Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 4/12/4 with Passivent TVAL450
83	Haltwistle	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 Opening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450
		Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 Opening Windows 000000000000000000000000000000000000
		Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 Opening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 4/12/4 with Passivent TVAL450
		Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 Opening Windows 0pening Windows 0pening Windows 4/12/4 with Passivent TVAL450 0pening Windows
		Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 Opening Windows Opening Windows 0pening Windows 4/12/4 with Passivent TVAL450 0pening Windows Opening Windows Opening Windows 0pening Windows
		Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 0pening Windows 0pening Windows 0pening Windows 4/12/4 with Passivent TVAL450
		Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 4/12/4 with Passivent TVAL450 0pening Windows 0pening Windows 0pening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450
84	Tamerton	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining Family Kitchen	4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL450
		Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining Family Kitchen Bedroom 1	4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL450
84	Tamerton	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining Family Kitchen	4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL450
84	Tamerton	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining Family Kitchen Bedroom 1	4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL450
84	Tamerton	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining Family Kitchen Bedroom 1 Bedroom 1 Bedroom 2	4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening WindowsOpening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL450
84	Tamerton	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining Family Kitchen Bedroom 1 Bedroom 1 Bedroom 2 Bedroom 2 Bedroom 3	4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening WindowsOpening WindowsOpening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL450
84	Tamerton	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining Family Kitchen Bedroom 1 Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 4 Lounge	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 0pening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 4/12/4 with Passivent TVAL450 0pening Windows
84	Tamerton Alderney	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining Family Kitchen Bedroom 1 Bedroom 1 Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 4 Lounge Dining / Kitchen	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 4/12/4 with Passivent TVAL450 0pening Windows 4/12/4 with Passivent TVAL450 0pening Windows 0pening Windows 0pening Windows
84	Tamerton	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining Family Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 4 Lounge Dining / Kitchen Bedroom 1	4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL450Opening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening WindowsOpening WindowsOpening Windows0pening Windows0pening Windows4/12/4 with Passivent TVAL4504/12/4 with Passivent TVAL4500pening Windows4/12/4 with Passivent TVAL450
84	Tamerton Alderney	Lounge Dining/Kitchen Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Kitchen Dining Study Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 4 Lounge Dining Family Kitchen Bedroom 1 Bedroom 1 Bedroom 1 Bedroom 2 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 3 Bedroom 4 Lounge Dining / Kitchen	4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 Opening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 4/12/4 with Passivent TVAL450 0pening Windows 4/12/4 with Passivent TVAL450 0pening Windows 4/12/4 with Passivent TVAL450 0pening Windows 0pening Windows 0pening Windows

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		Lounge	4/12/4 with Passivent TVAL450
		Dining	4/12/4 with Passivent TVAL450
		Bedroom 1	4/12/4 with Passivent TVAL450
87	Malvern	Bedroom 2	4/12/4 with Passivent TVAL450
		Bedroom 3	Opening Windows
		Bedroom 4	4/12/4 with Passivent TVAL450
		Bedroom 5	4/12/4 with Passivent TVAL450
		Lounge	4/12/4 with Passivent TVAL450
		Study	4/12/4 with Passivent TVAL450
		Breakfast/Dining	Opening Windows
88	Radleigh	Bedroom 1	4/12/4 with Passivent TVAL450
		Bedroom 2	4/12/4 with Passivent TVAL450
		Bedroom 3	Opening Windows
		Bedroom 4	Opening Windows
89	Any	Any	Opening Windows
90	Any	Any	Opening Windows
91	Any	Any	Opening Windows
92	Any	Any	Opening Windows
93	Any	Any	Opening Windows
94	Any	Any	Opening Windows
95	Any	Any	Opening Windows
96	Any	Any	Opening Windows
97	Any	Any	Opening Windows
98	Any	Any	Opening Windows
99	Any	Any	Opening Windows
100	Any	Any	Opening Windows
101	Any	Any	Opening Windows
102	Any	Any	Opening Windows
103	Any	Any	Opening Windows
104	Any	Any	Opening Windows
105	Any	Any	Opening Windows
106	Any	Any	Opening Windows
107	Any	Any	Opening Windows

Appendix B - Glazing and Ventilation Sound Reduction Data

Glazing Sound Reduction Data									
		Frequency (Hz)							
Description	31.5	63	125	250	500	1000	2000	4000	8000
4/12/4	12.0	18.0	24.0	20.0	25.0	23.0	29.0	35.0	35.0
Ventilation Sound Reduction Data									

	Frequency (Hz)								
Description	31.5	63	125	250	500	1000	2000	4000	8000
Passivent TVALdB 450 (Window Vent)	29.5	35.5	44.7	42.2	36.2	40.1	42.5	52.8	52.8

Note - This specification has been used in the assessment, the proposed glazing and ventilation products used should meet or exceed this specification.