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NOISE MITIGATION STATEMENT – DISCHARGE OF PLANNING CONDITION 3

10 BIRCH GREEN, READING RG2 8HS

FOR

I POPESCU



ISSUE STATUS: FINAL
DATE OF ISSUE: 14/08/2025
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Statement

The Client has been granted planning approval (Planning Reference: 250881) for the installation of an air source heat pump to service the premises at 10 Birch Green, Reading RG2 8HS.

The following planning condition was attached to the planning permission:

“3. Prior to the commencement of development, full details and an assessment of the partial enclosure to be installed around the air source heat pump to limit noise to no higher than 42dB at one metre from the first-floor habitable window in accordance with the MCS 020 Planning Standard shall be submitted to and approved in writing by the local planning authority. The partial enclosure shall thereafter be retained and maintained in its approved form for so long as the air source heat pump hereby permitted remains on site.”

The previous noise mitigation report (Ref: 10 BIRCH GRN, RG2 8HS.NMR) dated 06/03/25 provided recommended noise mitigation of a partial enclosure to be installed around the proposed air source heat pump to comply with the MCS 020 Planning Standard.

The Client has confirmed that the partial enclosure will be installed above and on either side of the unit. The enclosure will be constructed of a solid material such as a heavy-duty close board fence panel (minimum mass of 11kg/m²) with no gaps in it except at the front of the unit for ventilation and access. The enclosure will extend a minimum of 100mm beyond the front of the unit and be fitted with weatherproof insulation to negate the impact of any reflections from the installation of the enclosure.

With the partial enclosure installed there will be no direct line of sight, therefore attenuation due to barrier loss has been calculated and is shown in Table 1.0 below.

Table 1.0 Enclosure Screening Attenuation

63Hz	125Hz	250Hz	500Hz	1kHz	2kHz	4kHz	8kHz
5.7	6.5	7.7	9.5	11.7	14.2	17.0	19.8

The noise level at 1m from the 1st floor window, with the mechanical plant operating, with the partial enclosure installed, is predicted to be **38dB L_{Aeq,T}** which is **4dB(A) below** the MCS 020 acceptable noise level of 42dB(A) and therefore complies with the MCS 020 Planning Standard (Full calculations in Appendix A).

The predicted noise level from the proposed air source heat pump with the partial enclosure installed complies with the MCS 020 Planning Standard.

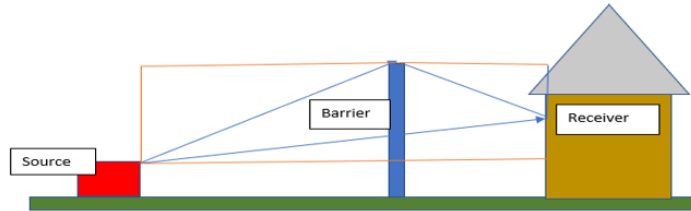
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APPENDIX A – Calculations

Applicable where barrier breaks line of sight between source and receiver

Example Illustration of Barrier Attenuation

	Metres
Source to Barrier	0.2
Receiver to Barrier	2.9
Source to Receiver	3



Path Difference	0.1
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Frequency Hz	63	125	250	500	1000	2000	4000	8000
Barrier Correction	5.7	6.5	7.7	9.5	11.7	14.2	17.0	19.8

Partial Enclosure Screening Attenuation Calculation

Attenuation per double distance required =
(6dB for LpA recommended)

ion per double distance required = 6dB for LpA recommended)				6	dB			Metres	
				Enter Distance =				2	
	Frequency Hz								
	63	125	250	500	1000	2000	4000	8000	Total
	63	65	55.5	58	51.5	47	39	30	68.02
Total LW	63.0	65.0	55.5	58.0	51.5	47.0	39.0	30.0	68.02
'A' Weight	26.2	16.1	8.6	3.2	0	-1.2	-1	1.1	
LWA (Power)	36.8	48.9	46.9	54.8	51.5	48.2	40.0	28.9	58.14
LPA at New Dist'	22.80	34.90	32.90	40.80	37.50	34.20	26.00	14.91	44.14
SCREENING	5.7	6.5	7.7	9.5	11.7	14.2	17.0	19.8	
LPA After Insert	17.08	28.41	25.18	31.34	25.84	20.00	9.04	-4.93	34.66

Sound Pressure Level @ 1m from 1st Floor Window + Façade Reflections (3dB) = 38dB L_{Aeq,T}