

NOISE IMPACT SUPPORTING STATEMENT - 90 LONDON STREET, READING, RG1 4SJ

Noise Measurements have been submitted, which indicate that the noise levels will meet the requirements for daytime noise.

Long Term Measurements

The values of the ambient noise level ($L_{Aeq,T}$), the maximum level ($L_{A,F,max,T}$) and the background ($L_{A,90}$) noise level obtained from the long term noise survey are given in Table 5; a summary graph is given in the Appendix .

Measurement Location (as depicted in Figure 5)	Time period	Duration T	$L_{Aeq,T}$ (dB)	$L_{A,F,max,T}$ (dB) ^[1]	Minimum $L_{A90,5min}$ (dB) ^[2]	40 th percentile $L_{A90,5min}$ (dB) ^[3]
L1	Day time (07:00 – 23:00)	78 hrs	53	-	36	45
	Night time (23:00 – 07:00)	40 hrs	47	66	30	37
^[1] 90 th percentile of the measured $L_{A,F,max,5 min}$ measurements for that period ^[2] minimum value measured of the $L_{A90,5 min}$ measurements for that period ^[3] 40 th percentile of the measured $L_{A90,5 min}$ measurements for that period						

Additional measurements have been taken during the evening, which can confirm, as predicted, that the noise levels would drop.

It has also been detailed on the daytime and evening measurements, the conditions and vital information such as roadworks. I can confirm that during the daytime measurements, it was overcast with heavy traffic and roadworks. For the evening measurements, it was a clear evening with low traffic and no work.

Even with the levels meeting the above table's requirements, the applicant would like to improve these by installing secondary glazing to all windows on the front side and rear elevations except for bathroom windows. The secondary glazing installation can reduce noise by ca. 43dB but also improve the environmental credentials of the building.

The adjoining buildings are office work and community centre, as they won't have excessive noise.

The information detailed above is enough to comply with the Noise Assessment and Mitigation requirements.

Proposed Sound Protection And Testing

They are separating walls, floors, stairs and party walls to achieve a performance standard of 43 dB (minimum values for airborne sound insulation) and 64 dB for floors and stairs (maximum values for impact sound insulation) to demonstrate compliance with Approved Document E1.

Pre-completion sound testing is to be carried out by a suitably qualified person with appropriate third-party accreditation (either UKAS accreditation or a member of the Association of Noise Consultants Registration Scheme). The test will be carried out once the dwelling is complete but before carpeting, and a copy of the test results will be given to Building Control.

If any elements were to fail the test, remedial works must be undertaken before retesting to the satisfaction of the Building Control Surveyor.

Where flanking walls or floors are continuous across separating walls, specialist advice is to be sought to ensure additional treatments are provided to control flanking transmission.