



To:	Anwar Ulhaq	of:	25 Woodfold Avenue, Levenshulme
Cc:	As per email distribution list	of:	

Dear Anwar,

25 Woodfold Avenue, Levenshulme – Verification Report

A verification noise level survey was carried out in order to demonstrate compliance with Planning Condition 5 placed on the scheme by Manchester City Council (MCC). The scheme includes a new living room located in a ground floor extension of the above property. A summary of the findings of the verification noise level survey is presented, below:

Criteria

Planning Condition 5 states:

"Before the development commences a scheme for acoustically insulating the proposed residential accommodation against noise from the mainline railway shall be submitted to and approved in writing by the City Council as local planning authority. There may be other actual or potential sources of noise which require consideration on or near the site, including any local commercial/industrial premises. The approved noise insulation scheme shall be completed before any of the extension is occupied.

Noise survey data must include measurements taken during a rush-hour period and night time to determine the appropriate sound insulation measures necessary.

Due to the proximity of the development to the mainline railway vibration criteria shall also apply as per BS 6472: 2008 "Guide to evaluation of human exposure to vibration in buildings". Groundborne noise shall also be factored into the assessment and design.

b) Prior to first occupation of the residential accommodation, a verification report will be required to validate that the work undertaken throughout the development conforms to the recommendations and requirements in the approved acoustic consultant's report. The report shall also undertake post completion testing to confirm that the internal noise criteria have been met. Any instances of non-conformity with the recommendations in the report shall be detailed along with any measures required to ensure compliance with the internal noise criteria."

The required internal noise criteria identified in the planning condition is based on the internal noise level limits presented in MCC's document 'Planning & Noise – Technical Guidance' (2015) (PNTG).

Section 3.6.1.1 of PNTG states that internal noise levels in living rooms during the daytime should be controlled to no greater than 35dBL_{Aeq,16h}.

Noise Measurements and Assessment

Simultaneous internal and external noise levels measurements were undertaken within the new living room area (only habitable space within the extension) between 1319 and 1349h, on Wednesday 01 March 2023. These measurements were completed to ascertain the external to internal level difference provided by the newly installed glazing and ventilation strategy.

AEC understand that the specification presented in Table 1, below, has been installed:

Table 1 – Outline Requirements of Glazing and Ventilation to Achieve Internal Noise Levels in Habitable Rooms

Sound Insulation Performance		Glazing Construction
Ventilator	Glazing	
38dBD _{n,e,w}	40dBR _w / 34dBR _w + C _{tr}	6mm Glass / 16mm Argon / 6.8mm Optiphon

The internal noise level measurements were undertaken in general accordance with the Association of Noise Consultants “*Measurement of Sound Levels in Buildings*” issued in June 2020. Measurements were undertaken in one-minute intervals and the full list of measurements is presented in Appendix A, at the back of this report. During the measurements the acoustic trickle vents were in the open position.

In summary, the average external and internal measurements were 60dBL_{Aeq,30min} and 33dBL_{Aeq,30min}, respectively. Please note the external measurements were undertaken under façade conditions.

As per AEC’s original noise assessment, the external noise level affecting this façade of the property was also a façade level of 60dBL_{Aeq,T}.

Based on this, the external noise levels are unchanged and the measured internal noise level of 33dBL_{Aeq,30min} does not require calibration. Based on the above, the requirements to not exceed 35dBL_{Aeq,16h} have been met.

Summary

Based on this assessment, internal ambient levels have been sufficiently controlled to meet the requirements of Manchester City Council. As a result, Condition 5 of the planning requirements has been achieved.

I trust the above is clear and of assistance at this stage, however, if you have any queries, please give me a call.

Yours sincerely



Ross Chamberlain

Checked by: 

Appendix A – Simultaneous Noise Level Measurements

Time, hh:mm	External Measurements		Internal Measurements	
	Ambient, dBL _{Aeq,T}	Maximum, dBL _{AFmax}	Ambient, dBL _{Aeq,T}	Maximum, dBL _{AFmax}
13:19	53	72	25	36
13:20	46	52	20	23
13:21	48	56	22	28
13:22	67	75	37	46
13:23	45	52	20	22
13:24	45	49	20	23
13:25	65	77	35	47
13:26	59	70	32	44
13:27	45	54	20	29
13:28	44	49	19	23
13:29	67	79	40	52
13:30	50	65	22	30
13:31	55	65	25	32
13:32	44	51	20	25
13:33	45	50	20	26
13:34	45	52	20	23
13:35	44	57	19	25
13:36	63	78	33	48
13:37	51	60	24	33
13:38	45	52	21	27
13:39	64	74	35	45
13:40	59	69	31	41
13:41	44	49	20	24
13:42	59	72	39	61
13:43	57	67	29	39
13:44	44	47	20	25
13:45	57	68	30	40
13:46	72	84	44	54
13:47	47	54	21	26
13:48	45	52	20	24
Average	60	-	33	-