

MPF/PR0669/L04

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Dear Pat

CROWN STREET PHASE 2, PLANNING CONDITION 94

I write to confirm the results of measurements conducted at Crown Street Primary School, Manchester to determine the internal ambient noise levels within school rooms in relation to the requirements of the planning approval for the building.

INTRODUCTION

The planning approval for Crown Street, Phase 2 includes a condition which requires that post-completion noise measurements are carried out in relation to internal noise levels within the school.

Fisher Acoustics Ltd has been commissioned by Renaker Limited to measure the internal levels of noise in a number of school rooms, and to advise on compliance with the requirements of the planning approval for the development.

PLANNING CONDITION

Planning Condition 94 (Phase C -Building C3) of the Planning Approval for Crown Street, Phase II (Planning Application number 126668/FO/2020, dated 3 August 2020) states:

- a) Prior to the commencement of above-ground construction works within Phase C, a scheme for acoustically insulating the proposed educational facility building against noise from the Mancunian Way and Chester Road 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 the school is first brought into use.

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

b) The approved noise insulation scheme shall be completed and a post-completion verification report (including validation that the work undertaken throughout the development conforms to the recommendations and requirements of the acoustic report approved under part a. above and including the results of post-completion testing to confirm that the internal noise criterion have been met) shall be submitted to and approved in writing by the City Council as local planning authority before the school is first occupied. Any instances of non-conformity with the approved acoustic report shall be detailed within the post-completion report along with any measures required to ensure compliance with internal noise criteria. Those measures shall be implemented in full before the school is first occupied.

Reason - To secure a reduction in noise from the main roads and surrounding road networks and any other potential sources of noise, in order to protect future residents from noise nuisance, pursuant to policies SP1, H1 and DM1 of the Core Strategy.

INTERNAL NOISE CRITERIA

Planning condition 94 requires that the school is acoustically insulated against noise from the Mancunian Way and Chester Road and any other environmental noise source.

As detailed in the environmental noise study submitted as part of the Reserved Matters application for Crown Street Primary School (planning reference 133516/MO/2022), Building Bulletin 93 (BB93) 'Acoustic design of schools: performance standards', published in February 2015 by the Department for Education provides appropriate criteria for the indoor ambient noise level within various school room types.

In particular, section 1.1.2 'Acoustic performance standards' of BB93: 2015 states that 'Table 1 specifies upper limits for indoor ambient noise levels in terms of $L_{Aeq,30mins}$ during normal teaching hours'.

Table 1 identifies the applicable noise levels for new build primary schools.

Type of Room	Upper Limit for the indoor ambient noise level $L_{Aeq, 30mins}$ dB
Nursery school rooms Primary school: classroom, class base, general teaching area, small group room	35
Teaching space intended specifically for students with special hearing and communication needs ²	30
SEN calming room	35
Libraries: Quiet study area Resource area	40 40
Drama studio, assembly hall, multi-purpose hall (drama, PE, audio/visual presentations, assembly, occasional music)	35
Administration and ancillary spaces: Kitchen Office, medical room, staff room Corridor, stairwell, coats and locker area Changing area Toilet	50 40 45 50 50

Table 1: BB93: 2015 guideline values for new build indoor ambient noise levels

Where rooms are ventilated using a hybrid ventilation system (i.e. a combination of natural ventilation and mechanical ventilation), BB93 advises that the noise criteria given in Table 1 are increased by 5dB.

MEASURED INTERNAL NOISE LEVELS

As part of a pre-completion acoustic testing programme, the indoor ambient noise level has been measured in a number of rooms in the school during normal school hours. The noise levels were measured with the rooms in 'natural' ventilation mode and in 'hybrid' ventilation mode. The measurements were carried out in accordance with 'Acoustic Testing of Schools', published by the Association of Noise Consultants, as referenced by BB93.

Table 2 identifies the results of the measurements.

Room	Ventilation system	Measured Indoor Ambient Noise Level (dB LAeq)	BB93 Requirement (dB LAeq)	Pass/Fail
C3-02-406 Small Group Room	Natural	31	35	Pass
	Hybrid	40	40	Pass
C3-02-104 Classroom 2 Year 2	Natural	29	35	Pass
	Hybrid	40	40	Pass
C3-01-301 Hall	Natural	32	35	Pass
	Hybrid	40	40*	Pass
C3-00-403 SEN Therapy/MI	Mechanical	23	35	Pass

* following installation of 40 m² absorptive wall panels within Hall

Table 2: Measured Indoor Ambient Noise Levels

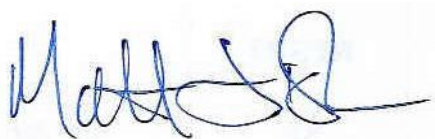
It can be seen that the measured noise levels within the rooms comply with the requirements of BB93.

CONCLUSION

With reference to the assessments detailed above, compliance with the applicable internal noise criteria has been achieved in the completed building. It is therefore considered that compliance with the requirements of condition 94 of the planning approval for Crown Street Phase 2 has been achieved.

If there are any aspects of the above that you would like to discuss, please do not hesitate to contact the undersigned.

Yours sincerely



MATT FISHER BEng(Hons) CEng MIOA
For and on behalf of Fisher Acoustics Limited