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PROJECT TECHNICAL MEMORANDUM

JOB TITLE : Talbot Mill, Manchester
REF : HT: 24057/LE2
DATE : 14 February 2024
FROM : Michael Hartley
ISSUED TO : Scott Mallinson (Capital & Centric)

RE: TALBOT MILL, MANCHESTER SECTION 73: NOISE IMPACT ADDENDUM

1.0 Introduction

The technical memorandum serves as an addendum to the Noise Assessment Report submitted under the original planning application (Application Ref: 117595/FO/2017) to form part of the Section 73 application for the scheme (Application Ref: 134193/JO/2022). The original Noise Impact Assessment Report was prepared by Hann Tucker Associates (HTA), referenced "2017_0905 - 24057 - ENIA1 Report (R01)" and was dated 5th September 2017.

The Section 73 Application seeks various material amendments to the design of the development, of which a summary of the changes are noted below:

"These changes are wholly in response to providing improved means of escape from both the mill buildings and new-build accommodation by means of access to a second stair, and in the process retaining a substantial portion of the historic fabric of the mills in the form of the original shared stair and lift core."

A full description of the minor material amendments sought by this S73 application are provided within Design and Access Statement (DAS) Addendum (prepared by Capital & Centric).

2.0 Comments on S73 regarding Noise Impact

Following a review of the development amendments, any change with regards to acoustic impact regarding planning is considered to be negligible. As such we would not expect the proposed changes noted under the Section 73 application to cause any notable change in acoustic specification as submitted in the 2017 Noise Impact Assessment Report.



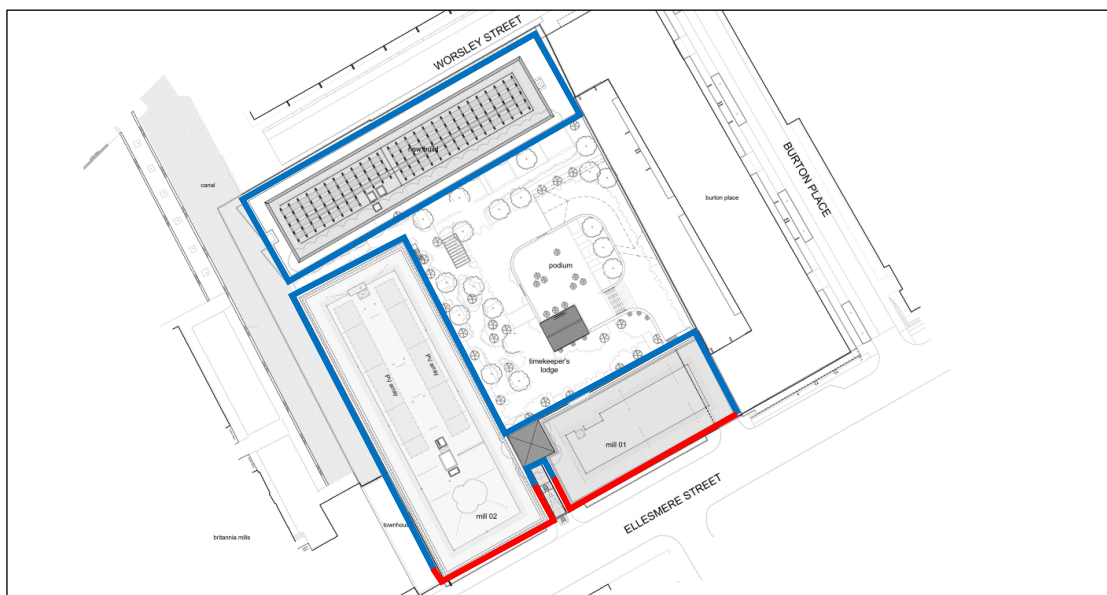
The assessments and recommendations contained within HTA report are still considered appropriate. For ease of reference, the key acoustic provisions included within the 2017 Noise Impact Assessment Report are summarised below.

2.1 Façade Sound Insulation

Sound insulation calculations have been undertaken to specify the minimum sound insulation performance of the façade elements to meet the internal noise criteria.

From the results of our assessment, the following preliminary acoustic performance specifications are recommended for the windows and ventilators to habitable rooms to achieve the internal ambient noise criteria. Our assessment has considered the equivalent continuous level (L_{Aeq}) during all periods and as well as maximum noise events (L_{Amax}) during night-time periods.

Colour	Preliminary Minimum Sound Reduction Specification		Example Configurations (For Guidance Only)
	Window	Ventilator	
 Red	29 dB $R_w + C_{tr}$	35 dB $D_{n,e,w} + C_{tr}$	- 10 / 16 / 6 mm double glazing. - 1 x 2,500 mm² acoustic trickle vent per habitable room.
 Blue	26 dB $R_w + C_{tr}$	32 dB $D_{n,e,w} + C_{tr}$	- 6 / 16 / 6 mm conventional double glazing. - 1 x 2,500 mm² standard hit-miss trickle vent per habitable room.



Acoustic Performance Zones



2.2 Outdoor Living Spaces

On this scheme, we understand the only outdoor living (associated entirely with the residential development) will be at ground floor level around the bases of the apartment blocks, and potentially apartment roof terraces. Small balconies are not generally considered as 'outdoor living' due to their size. In this regard, BS 8233 states:-

"Small balconies may be included for uses such as drying washing or growing pot plants, and noise limits should be necessary for these uses. However, the general guidance on noise in amenity space is still appropriate for larger balconies, roof gardens and terraces, which might be intended to be used for relaxation... Achieving levels of 55 dB $L_{Aeq,T}$ or less might not be possible at the outer edge of these areas, but should be achievable in some areas of the space."

In light of this, our calculations indicate noise levels can be expected to achieve the desired 55 dB $L_{Aeq,16hr}$ across the majority of the private outdoor living spaces.

2.3 Noise from Building Services Plant

On the basis of the Manchester City Council's guidance and the results of the environmental noise survey, we propose that the following cumulative plant noise emission criteria be achieved at 1 metre from the nearest noise sensitive residential windows.

Period	Plant Noise Emission Limit
Daytime / Evening (07:00-23:00)	46 dB $L_{Aeq,1hr}$
Night-time (23:00-07:00)	37 dB $L_{Aeq,15min}$

Noise shall be assessed in accordance with BS 4142: 2014 with corrections applied for any plant emitting noise of a tonal or irregular quality. Emergency plant items (e.g. standby generators, smoke extract equipment) should be subject to more relaxed criteria.

For and on behalf of

HANN TUCKER ASSOCIATES

Michael Hartley