

JAMESON ACOUSTICS

Consultants in acoustics,
noise and vibration

Technical Note

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Client	Domis
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St. Michaels (Ph3 Bl.A), Manchester Planning Condition 8: EHO Response

This technical note provides a response to comments received from Manchester City Council's [MCC] environmental health team in relation to our *Noise Insulation Scheme Report 22024-RP-2-R1* [the Report] submitted to part discharge Planning Condition 8.

1. *MCC_ We will need examples of glazing build ups / glazing systems required to meet the performance criteria identified on page 7 of the assessment including in the report.*

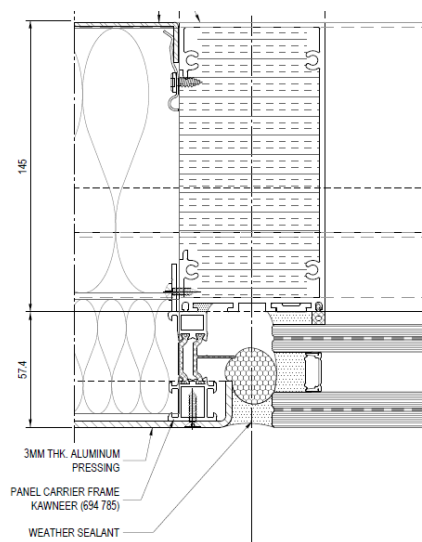
JA_ The façade system will be provided by FK Group (the project's façade contractors). FK Group are proposing a unitised curtain walling system in aluminium frames constituting glazed vision panels and solid spandrel sections as follows:

- 51mm thick insulated double glazed vision panels comprising:
 - 17.5 mm laminated Planiclear HS glass (Cool-Lite SKN183ii);
 - 20 mm spacer cavity;
 - 13.5 mm laminated Planiclear HS glass.
- Shadow zone glazed sections comprising:
 - 8 mm toughened Planiclear HST;
 - 20 mm spacer cavity;
 - 6 mm toughened Planiclear HST.
 - NB: Shadow zones concealed from the room by slab edge and ceiling detail.
- Solid spandrel sections comprising:
 - 3 mm outer aluminium sheeting;
 - Ca. 200 mm dense Rockwool insulation;
 - 2-6 mm galvanized steel inner sheeting.

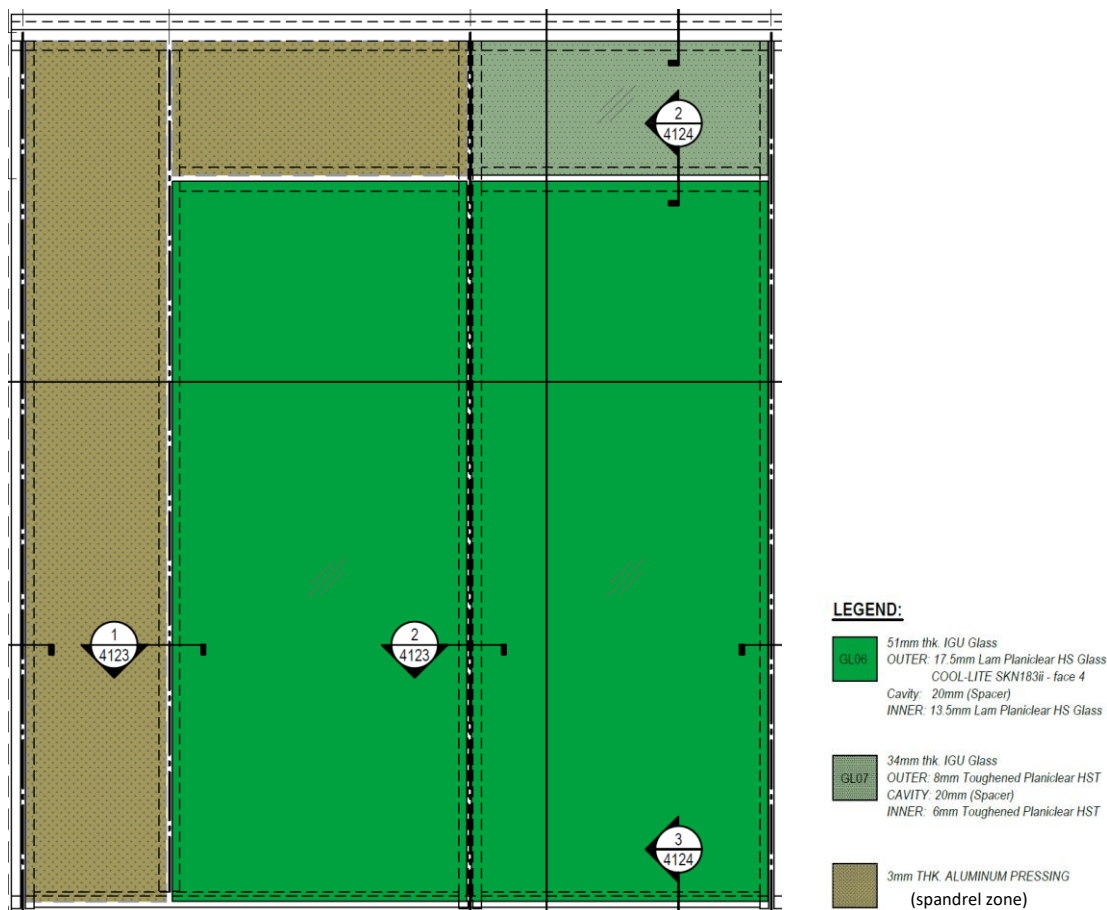
These constituting parts are highlighted on the below plan and section details.

The above configuration is proposed to all areas of the tower (to all three performance zones).

The final thickness of the steel inner sheeting of the spandrel will be determined through laboratory testing (see comments against item 2 below). Provisions exist to introduce acoustically-enhanced plasterboard linings to the back of spandrel zones, if required, which will be determined through laboratory testing.



Section through spandrel/vision panel mullion



Elevation showing typical module (repeats across façade, slab to slab)

2. ***MCC_ Once the facade cladding has been identified, the details will need to be supplied to the consultant for review and a confirmatory memo providing to confirm the selected façade system is suitable to meet the performance / criteria on page 7.***

JA_ The above proposals submitted by FK Group have been reviewed by their own acoustician and we understand FK Group are confident the system is capable of achieving the acoustic performance specification presented in Section 4.0 of the Report.

We (on behalf of the Developer) have requested off-site laboratory sound reduction testing of the tower façade so that FK Group can provide full confirmation of compliance with the specification prior to site installation.

3. ***MCC_ Updated comment has been provided with regard to noise breakout from Albert Hall and discussion have taken place between the developer and the Albert Hall operator to ensure the events venue is complying with their planning noise limits. The assessment includes comment to advise that a month long noise monitoring assessment of noise from the venue is due to take place. It is assumed this hasn't taken place yet but the results of this assessment will need to be provided and the break in assessment updated based on this additional monitoring from the Albert Hall venue. Agent of change principles would apply in this instance and would require the new development to ensure the internal noise criteria will be met based on the existing levels of noise breakout from the venue so ultimately it will be their responsibility to ensure their residential units are suitably insulated rather than the Albert Hall venue and the proposed month long monitoring should be used to determine the noise break in assessment and façade performance.***

JA_ We would be happy to make the results of any further noise monitoring available to MCC. This monitoring may not take place for some time yet (perhaps not until the podium structure frame reaches Level 7 to facilitate an accurate noise monitoring position).

We agree that, in normal circumstances such as this, the agent of change principles would apply. However, in this case an agreement has been reached between the Developer and Albert Hall whereby the venue has agreed to adhere to their planning noise limits. Should further noise monitoring indicate excesses, it would not therefore be the façade acoustic performance that would be enhanced, but rather Albert Hall's operational noise output would need to reduce. This is entirely the purpose of the agreement.

If our monitoring does identify exceedances, a narrative will be provided on the magnitude of exceedance which would correspond directly to the magnitude to which they would need to reduce their sound system output/loudness. The monitoring report would be issued to Albert Hall so they can adjust accordingly. Once confirmation is received that sound system output levels have been adjusted, a further 'validation' noise survey is likely to be instructed.

4. *MCC_ I have reviewed the additional assessment of internal noise from mechanical ventilation / air conditioning and the proposed system has not yet been selected for the consultant to review. Indicative insulation measures to install acoustic attenuators onto room side supply and extract ductwork has been proposed but the equipment will need to be attenuated to meet the internal noise criteria, especially at night rather than the 5dB relaxation in boost function proposed in the assessment. This technical note will need updating with planning criteria and once the system has been confirmed and reviewed.*

JA_ We will ensure the full internal mechanical ventilation noise assessment, with confirmation of noise attenuation solutions, are issued to MCC once the design has been finalised.

For and on behalf of
Jameson Acoustics Limited



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