

MPF/PR0660/L06

25 February 2026

Lee Blundell
Renaker Build Limited
NQ Building
47 Bengal Street
Ancoats
Manchester
M4 6BB

Flint Glass Works
64 Jersey Street
Manchester M4 6JW

0161 605 0905 📞
info@fisheracoustics.co.uk 📧
www.fisheracoustics.co.uk 🌐

Dear Lee

**GREAT JACKSON STREET, PLOT F1, MANCHESTER – AMENITY AREAS
REVERBERATION**

We write in relation to the interior design proposals for the amenity areas of Plot F1, Great Jackson Street, Manchester.

INTRODUCTION

Fisher Acoustics has been commissioned by Renaker to provide acoustic design advice relating to the proposed interior design scheme for the ancillary areas of Plot F1, Great Jackson Street. The areas in question are as follows:

Ground floor

- Main entrance/Concierge/Lounge
- Co-working

Level 01

- Gym
- Yoga Studio
- Private Dining Room 1
- Private Dining Room 2
- Lounge
- Content Creation

Calculations have been carried out to determine the potential reverberation time within the above-listed areas based on the proposed surface finishes to the walls, floors and ceilings. The appropriateness of the potential reverberation time has been assessed and a commentary provided on the proposed surface finishes.

DESIGN INFORMATION RECEIVED

The acoustic assessment is based on the Lister & Lister drawings uploaded to Asite as at 25 February 2026

RECOMMENDED REVERBERATION TIMES

In order to control reverberant noise levels in the larger spaces or to achieve appropriate levels of speech intelligibility in the content creation room and Private Dining Room 1, it is recommended that the mid-frequency (500 Hz to 2kHz) reverberation time within the spaces when unoccupied do not exceed the following:

Ground floor`

- | | |
|--------------------------------|-------------------|
| ▪ Concierge/ Reception/ Lounge | 1.2 – 1.5 seconds |
| ▪ Co-working | 0.80 seconds |

Level 01

- | | |
|-----------------------------|--------------|
| ▪ Gym | 1.8 seconds |
| ▪ Yoga Studio | 0.8 seconds |
| ▪ Private Dining Room 1 & 2 | 0.7 seconds |
| ▪ Lounge | 0.8 seconds |
| ▪ Content Creation | 0.35 seconds |

CALCULATED REVERBERATION TIMES

The calculations of reverberation time include the acoustic absorption provided by all surfaces within each room or space, including but not limited to the beneficial absorption provided by the following proposed materials in a number of spaces:

- Acoustic wall panels (12 mm Pet Felt)
- Acoustic ceiling plasterboards (Rigitone 12/25) and acoustic ceiling tiles (Ecophon Focus E)
- Acoustic ceiling panels (Stil Acoustics NP-2 nano-perforated panel)
- Carpet, rugs and entrance matting
- Seating and furniture

The calculations also include the area of the proposed Vescom 'Clare' (non-acoustic) curtains in the Concierge/Lobby, Co-working, Gym, Yoga Studio and Private Dining Room 1. The calculations for the Private Dining Room 2 and Lounge include the proposed Vescom 'Fogo' (non-acoustic) curtains.

Table 1 identifies the calculated reverberation times in each space on the basis of the current interior design proposals.

It should be noted that the calculated reverberation times assume that the curtains in each space are installed at a minimum fabric area of 200% (i.e. the area of curtain fabric on a surface is twice the area of that surface) and that all curtains are drawn, to the extent shown on the drawings listed above.

Space		Mid-frequency Reverberation Time, Seconds	
		Target	Calculated
Ground Floor	Concierge/ Reception/ Lounge	1.2 - 1.5	1.40
	Co-Working	0.8	1.10
Level 1	Gym	1.8	0.6
	Yoga Studio	0.8	0.95
	Private Dining Room 1	0.5	0.85
	Private Dining Room 2	0.7	0.95
	Lounge	0.8	0.8
	Content Creation	0.35	0.45

Table 1: Calculated reverberation times with the proposed curtain options

It can be seen that the calculated reverberation time in a number of rooms exceed the recommended reverberation time. In order to target the recommended reverberation times whilst maintaining the interior design intent, the following revisions could be implemented:

- Co-Working:

Introduce approximately 15 m² of smooth acoustic plaster to an end wall or introduce a suitable area of acoustic wall panel. We have assessed a potential change in the curtain to the Vescom 'Toby', but this reduces the calculated reverberation time by only 0.1 seconds.

- Yoga Studio

Specify Stil-Acoustics NP2 nano-perforated panel to the whole ceiling area rather than just the outer perimeter dropped ceiling.

- Private Dining Room1

Specify a perforated plasterboard ceiling (eg minimum of 30 m² of Rigitone 12/25) in lieu of the solid plasterboard ceiling currently proposed.

- Private Dining Rooms 1 & 2

Specify a perforated plasterboard ceiling (eg minimum of 17 m² of Rigitone 12/25) in lieu of the solid plasterboard ceiling currently proposed.

- Content Creation:

In lieu of the proposed 12 mm Pet Felt wall panel, which has an average sound absorption coefficient of only 0.25, replace the proposed panels with Autex Groove 24 mm acoustic panels

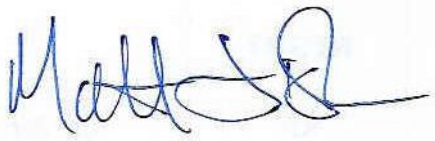
or

increase the total area of the Pet Felt wall panels in the room to 13 m² and specify the 24 mm version of the panels in lieu of the 12 mm version. This would also assist in the reduction of detrimental 'flutter echoes' between the opposing parallel walls.

With regard to the Gym, whilst the calculated reverberation times given the proposed extent of the Ecophon acoustic ceiling tiles is substantially lower than the target reverberation time, it is understood that the end Client is comfortable with the expected performance.

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

Yours sincerely

A handwritten signature in blue ink, appearing to read 'Matt Fisher', with a stylized flourish at the end.

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