

Johnathon Lowe

From: Samuel Oates <Samuel.Oates@hepworth-acoustics.co.uk>
Sent: 16 November 2022 16:20
To: Johnathon Lowe
Cc: Andrew Milnes; Dylan Taylor; Rob Carroll
Subject: RE: Manchester College, Northenden
Attachments: EHA2 acoustic 42dB.pdf; 20220803153053621.pdf

Hi Johnathon,

No problem, I've reproduced the glazing and ventilation sound insulation performance values you have provided in the Table below for clarity.

The octave band sound insulation performance values for the acoustic vents are on par with what was recommended and the performance values for the glazing are noticeably better.

Description	Octave Band Centre Frequency [Hz]						$D_{n,e,w}$ or R_w	C_{tr}
	125	250	500	1k	2k	4k		
Aereco EHA 5-35 [$D_{n,e}$]	41	42	37	43	45	41	42	0
Guardian Glass: 8.76mm LamiGlass Sound Reduction - 14mm Cavity - 6mm Float Glass [R]	26	30	38	47	45	57	41	-6

The combined performance of the proposed glazing and ventilation specifications is better than the minimum recommendations we provided, which already had a built-in margin of safety.

Based on our noise break-in calculations, using the values in the Table above, the internal noise levels will be controlled comfortably within the BS 8233:2014 criteria for the dwellings most exposed to noise from the A5103.

I hope this helps.

Kind regards,

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