From: Richard Goodall
Sent: Friday, May 3, 2024 1:12 PM
Subject: Fwd: New Canal glazing

Please see the attached email from our Noise Consultant.

The 50mm gap is readily achievable and you see that even where a trickle vent is provided the requisite noise reduction can still be achieved.

---------- Forwarded message ---------
From: **Adrian Whittle**
Date: Fri, 3 May 2024 at 12:29
Subject: New Canal glazing
To: Richard Goodall

Further to our conversation I have appended below the technical spec. as requested, for secondary glazing supplied by Selectaglaze (www.selectaglaze.co.uk). Apologies, but this relates to 6mm glazing not 4mm as I originally thought. So all values below are for varying types of 6mm glass with a 50mm gap between the secondary and primary glazing. As you can see, the noise reduction (Rw) should be at least 39dB for a closed window. With the addition of an open trickle vent the Rw is only lowered by 5dB, and so 34dB should be achievable - which is still adequate for your needs. For the record, if you increase the gap between the glazing to 100mm then you should achieve an additional 2dB of noise reduction.

I hope this is OK.

Adrian

Acoustic performance of Selectaglaze secondary glazing

The product range has been tested against single glazed primary windows in accordance with Standard BS EN ISO 140-3:1995 'Laboratory measurement of airborne sound insulation of building elements'. Testing was carried out by Taylor Woodrow Technology on openings 1250mm(w) x 1500mm(h) with results reviewed and interpolated by acousticians Hann Tucker Associates.

All figures are based on a primary window with 6mm glass and all figures are shown in mm. T = toughened glass, A = acoustic glass

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Rw dB values for a 50mm cavity between the secondary and primary glazing

Glazing	4T	6T	6.4	6.4A	6.8	6.8A	7.5	8T	8.8	8.8A	9.5	10T	10.8A	10.8	11.5	12T
S10 HS	39	39	39	40	40	40	-	-	-	-	-	-	-	-	-	-
S80 HS	-	40	40	41	41	41	41	41	41	41	41	41	43	43	43	43
S85 HS	-	-	-	-	-	-	-	-	-	-	41	-	-	-	42	-
S20 VS	39	39	39	40	40	40	-	-	-	-	-	-	-	-	-	-
S60 TVS	40	40	40	41	41	41	-	-	-	-	-	-	-	-	-	-
S90 VS	-	40	40	41	41	41	40	42	42	42	42	42	42	42	43	42
S95 VS	-	-	-	-	-	-	40	-	-	-	41	-	-	-	42	-
S41 SHC	-	41	41	42	42	42	42	43	43	43	43	43	44	44	44	44
S41 DSH	-	39	39	40	40	40	40	41	41	41	41	41	42	42	42	42
S45 SHC	41	41	41	42	42	42	-	-	-	-	-	-	-	-	-	-
S45 DSH	39	39	39	40	40	40	-	-	-	-	-	-	-	-	-	-
S50 SHC	-	40	-	-	-	-	41	-	-	42	42	-	43	43	43	-
S41 LO	-	41	41	42	42	42	42	43	43	43	43	43	44	44	44	44
S45 LO	41	41	41	42	42	42	-	-	-	-	-	-	-	-	-	-
S50 LO	-	40	-	-	-	-	41	-	-	42	42	-	43	43	43	-
S40 FL	41	41	41	42	42	42	42	43	43	43	43	43	44	44	44	44
S46 FL	-	41	-	-	-	-	-	-	-	-	43	-	-	-	44	-
S55 DFL	-	-	-	-	-	-	40	-	-	-	41	-	-	-	42	-

Dr Adrian J Whittle MIEnvSc. Tech.IoA
Principal Environmental Consultant
Apple Environmental Limited