

AIRO

Test Certificate

SOUND REDUCTION INDEX

4/150/6 SECONDARY WINDOW UNIT

MEASUREMENTS

Sound Reduction Index (R) measurements were conducted at the AIRO Acoustics Laboratory in accordance with BS 2750: Part 3:1980 and BS 5821:Part 3:1984, using a purpose built sound transmission suite. AIRO is accredited as NAMAS TESTING Laboratory No. 0483. The test was performed on 19 September 1997.

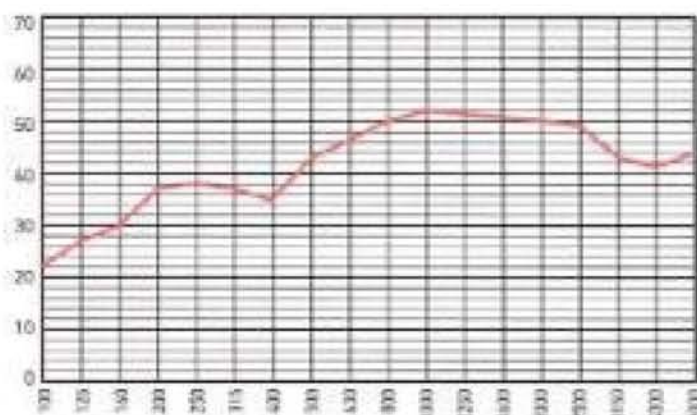
DESCRIPTION

The specimen filled a 1250mm wide x 1500mm high test aperture and comprised a primary and secondary window system. The primary unit consisted of a softwood frame which was glazed with 2 no 4mm fixed panes of area 520 x 1370mm each. The secondary unit consisted of a pair of horizontally sliding sashes with 6mm glazing of area 540 x 1365mm supported in a aluminium framework with an outer frame of English Ash. The cavity between the primary and secondary glazing was 150mm.

Estimated mass of the glazing = 25 kg/m²

RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
100	23.2	800	49.8
125	26.9	1000	51.9
160	30.1	1250	51.0
200	36.8	1600	50.5
250	37.8	2000	50.0
315	37.1	2500	48.9
400	34.6	3150	43.3
500	43.1	4000	41.0
630	45.7	5000	44.5



The Weighed Sound Reduction Index, $R_w = 45$ dB [BS 5821:Part 3:1984] with an unfavourable deviation of 9.4 dB at 400 Hz

This Test Certificate summarises Report No. L/2543 dated 4 November 1997

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