

SOUND REDUCTION INDEX OPERABLE WALL SYSTEM - 110 mm THICK

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 1:1984, using a purpose built sound transmission suite. The test was performed on 30 October 1995. AIRO is accredited as a NAMAS TESTING Laboratory No. 0483.

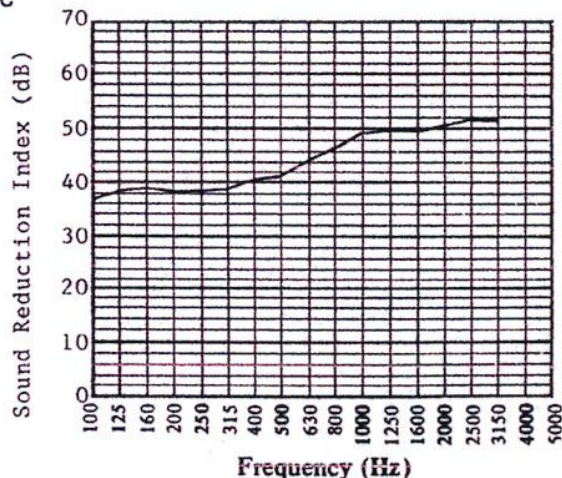
DESCRIPTION

The specimen comprised a 110 mm thick Operable Wall System which filled a 2870 mm wide x 2825 mm high test aperture. The system comprised an aluminium head track, boxed-in with 15 mm MDF, which supported 3 no movable door panels on a trolley system. Each panel consisted of an aluminium framework which supported 15 mm high density melamine faced chipboard. The panels were backed by 9.5 mm plasterboard to one side and BM.005 barrier mat to the other with 20 kg/m³ fibreglass in the cavity. The panels interlocked with each other and were jacked with a top and bottom expander. The system included door jambs at either end.

Estimated mass of the Operable Wall = 50 kg/m²
Tested for and sample supplied by : Duvale Plc

RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
100	37.0	630	44.1
125	38.2	800	46.3
160	38.8	1000	49.3
200	38.3	1250	49.8
250	38.5	1600	49.7
315	38.8	2000	50.2
400	40.1	2500	51.7
500	41.2	3150	51.6



The Weighted Sound Reduction Index, $R_w = 47$ dB (BS 5821:Part 1:1984)

This Test Certificate summarises Report No L/2401/2 dated 21 November 1995

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