

## SOUND REDUCTION INDEX OPERABLE WALL SYSTEM

### 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 29 March 1996. AIRO is accredited as a NAMAS TESTING Laboratory No. 0483.

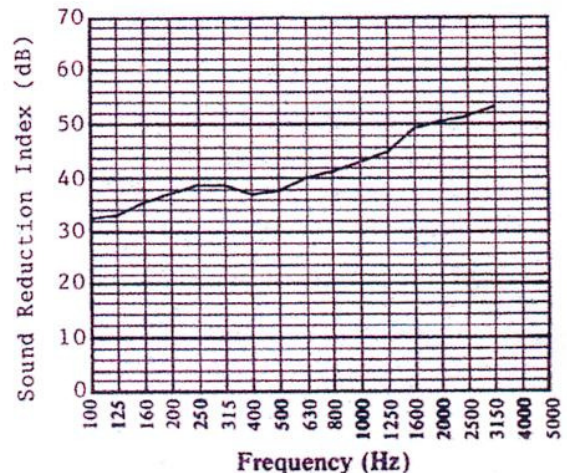
### DESCRIPTION

The specimen comprised a 110 mm thick Operable Wall System which filled a 2870 mm wide x 2850 mm high test aperture. The system comprised an enclosed overhead aluminium head track which supported 3 no 800 mm x 2670 mm moveable door panels. Each door panel consisted of an aluminium framework faced with 16 mm chipboard backed by 2 no layers of 4 mm Revertex stapled in place and the cavity included Rockwool RW2 mineral wool. The panels interlocked with each other and were jacked into place with a top and bottom expander. The system included door jambs at either end.

Estimated weight of Operable Wall System = 45 kg/m<sup>2</sup>  
Tested for and supplied by : Duvale PLC

### RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
100	32.6	630	40.0
125	33.0	800	41.3
160	35.5	1000	42.9
200	37.3	1250	45.2
250	38.9	1600	49.6
315	38.8	2000	50.1
400	37.3	2500	51.6
500	37.9	3150	53.1



The Weighted Sound Reduction Index,  $R_w$  = 44 dB (BS 5821:Part 1:1984)

This Test Certificate summarises Report No L/2429 dated 9 April 1996

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