

SOUND REDUCTION INDEX
140 mm ARCHITECTURAL MASONRY MULTICORE BLOCKWORK WALL

MEASUREMENTS

Sound Reduction Index (R) measurements were conducted at the AIRO Acoustics Laboratory in accordance with BS EN ISO 140-3:1995 and BS EN ISO 717-1:1997, using a purpose built sound transmission suite. AIRO is a UKAS accredited testing laboratory No. 0483. The test was performed on 23 June 2003.

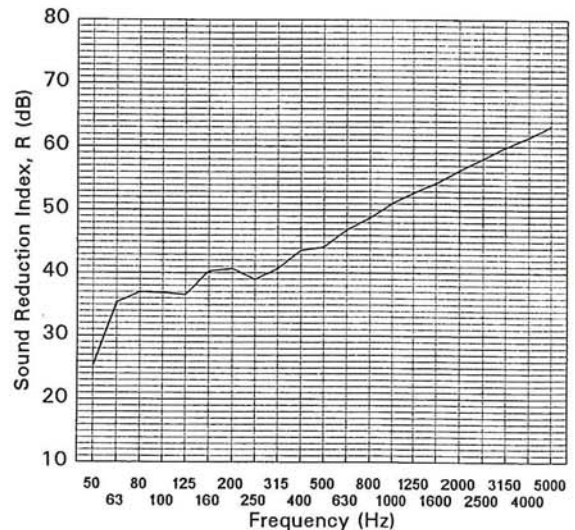
DESCRIPTION

The specimen filled a 2920 mm wide x 3005 mm high test aperture and comprised a single leaf blockwork wall constructed from 140 mm thick Architectural Masonry Multicore (density 2100 kg/m³, block density 1500 kg/m³ at 3% moisture) blocks. The blocks, with 440 mm x 215 mm face dimensions and 6 no cores, were laid in stretcher bond using a nominal 5:1 sand cement mortar. The estimated mass of the 140 mm masonry wall is 213 kg/m².

Tested for and supplied by : Plasmor Limited

RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
50	25.4	630	46.9
63	35.4	800	48.8
80	37.0	1000	51.1
100	36.9	1250	52.7
125	36.6	1600	54.3
160	40.3	2000	56.3
200	40.7	2500	58.1
250	39.0	3150	59.9
315	40.7	4000	61.5
400	43.7	5000	63.3
500	44.2		



Rating according to BS EN ISO 717-1:1997 $R_w (C;C_{tr}) = 50 (-1;-4)$ dB

This Test Certificate summarises Report No. L/2882 dated 23 July 2003

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