

SOUND REDUCTION INDEX 75 mm ARCHITECTURAL MASONRY 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 8 July 2003.

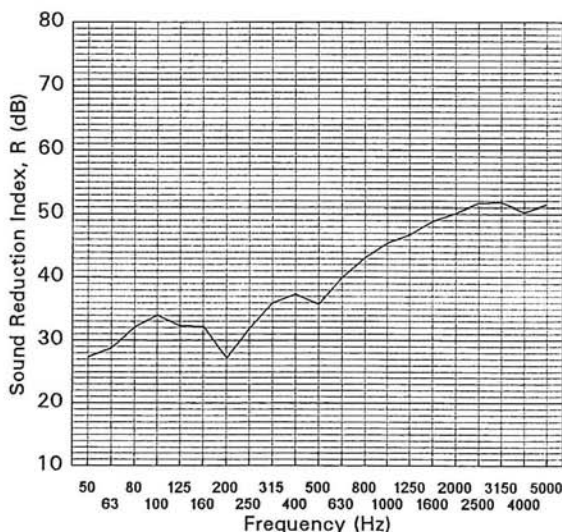
DESCRIPTION

The specimen filled a 2920 mm wide x 3005 mm high test aperture and comprised a single leaf blockwork wall constructed from 75 mm thick Architectural Masonry (density 2100 kg/m³ at 3% moisture) blocks. The blocks, with 440 mm x 215 mm face dimensions, were laid in stretcher bond using a nominal 5:1 sand cement mortar. The estimated mass of the 75 mm masonry wall is 156 kg/m².

Tested for and supplied by : Plasmor Limited

RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
50	27.4	630	40.0
63	28.8	800	43.2
80	32.1	1000	45.5
100	34.1	1250	46.8
125	32.3	1600	48.9
160	32.2	2000	50.2
200	27.2	2500	51.7
250	31.9	3150	51.8
315	36.0	4000	50.3
400	37.4	5000	51.5
500	35.8		



Rating according to BS EN ISO 717-1:1997 $R_w (C;C_{tr}) = 43 (-2;-5)$ dB

This Test Certificate summarises Report No. L/2885/1 dated 23 July 2003

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