

SOUND REDUCTION INDEX PLASTERED 100 mm FIBOLITE 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 5 August 2003.

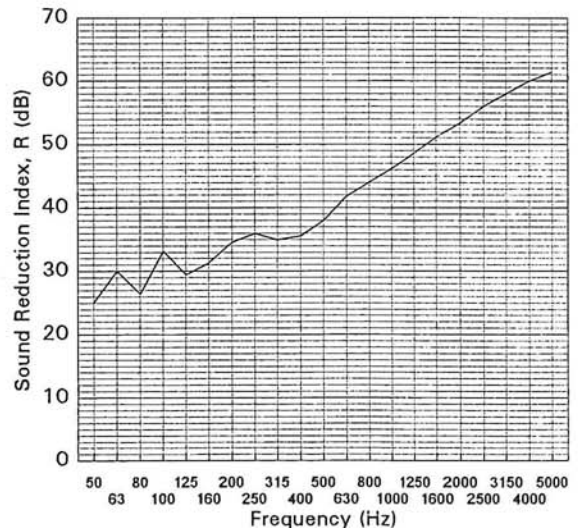
DESCRIPTION

The specimen filled a 2920 mm wide x 3005 mm high test aperture and comprised a single leaf blockwork wall constructed from 100 mm thick Fibolite (density 850 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. Both sides of the wall were finished with 2 coat 13 mm lightweight plaster. The nominal overall thickness of the finished wall was 126 mm. The estimated mass of the plastered wall is 111 kg/m².

Tested for and supplied by : Plasmor Limited

RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
50	25.1	630	41.8
63	30.0	800	44.1
80	26.4	1000	46.2
100	33.2	1250	48.6
125	29.4	1600	51.1
160	31.3	2000	53.4
200	34.6	2500	56.0
250	36.0	3150	58.0
315	35.0	4000	60.0
400	35.6	5000	61.4
500	38.0		



Rating according to BS EN ISO 717-1:1997 $R_w (C;C_{tr}) = 44 (-1;-4)$ dB

This Test Certificate summarises Report No. L/2884/2 dated 6 August 2003

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