

SOUND REDUCTION INDEX DRY-LINED 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 29 July 2003.

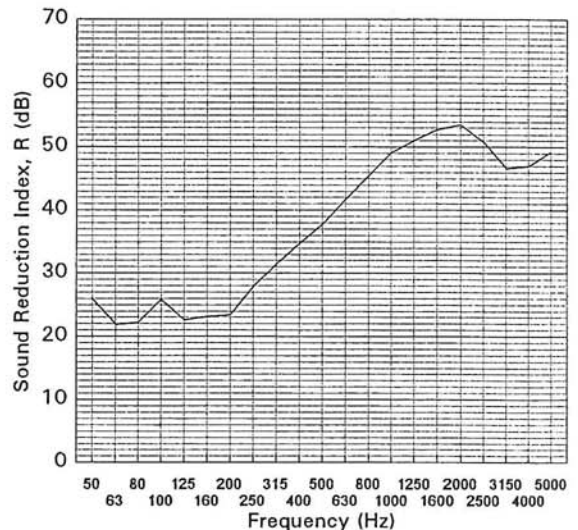
DESCRIPTION

The specimen filled a 2920 mm wide x 3005 mm high test aperture and comprised a single leaf blockwork wall constructed from 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 12.5 mm plasterboard on plaster dabs with tape and skim to all joints. The nominal overall thickness of the finished wall was 145 mm. The estimated mass of the dry-lined wall is 111 kg/m².

Tested for and supplied by : Plasmor Limited

RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
50	25.9	630	41.7
63	21.9	800	45.5
80	22.2	1000	49.1
100	25.9	1250	51.0
125	22.7	1600	52.8
160	23.2	2000	53.6
200	23.5	2500	50.8
250	27.9	3150	46.7
315	31.4	4000	47.0
400	34.8	5000	49.3
500	37.8		



Rating according to BS EN ISO 717-1:1997 $R_w(C;C_{tr}) = 40 (-2;-6)$ dB

This Test Certificate summarises Report No. L/2884/1 dated 6 August 2003

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