

**SOUND REDUCTION INDEX
PLASTERED 100 mm STRANLITE 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 21 July 2003.

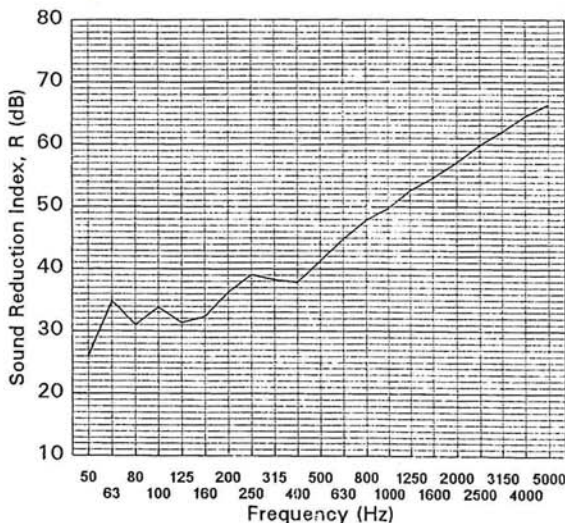
DESCRIPTION

The specimen filled a 2920 mm x 3005 mm high test aperture and comprised a single leaf blockwork wall constructed from 100 mm thick Stranlite (density 1400 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 163 kg/m².

Tested for and supplied by : Plasmor Limited

RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
50	26.2	630	44.9
63	34.8	800	47.9
80	31.0	1000	49.8
100	33.8	1250	52.6
125	31.4	1600	54.7
160	32.3	2000	57.2
200	36.3	2500	59.9
250	39.1	3150	62.0
315	38.3	4000	64.6
400	37.9	5000	66.5
500	41.3		



Rating according to BS EN ISO 717-1:1997 $R_w (C;C_{tr}) = 47 (-1;-4)$ dB

This Test Certificate summarises Report No. L/2883/2 dated 30 July 2003

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