

## SOUND REDUCTION INDEX DRY-LINED 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 16 July 2003.

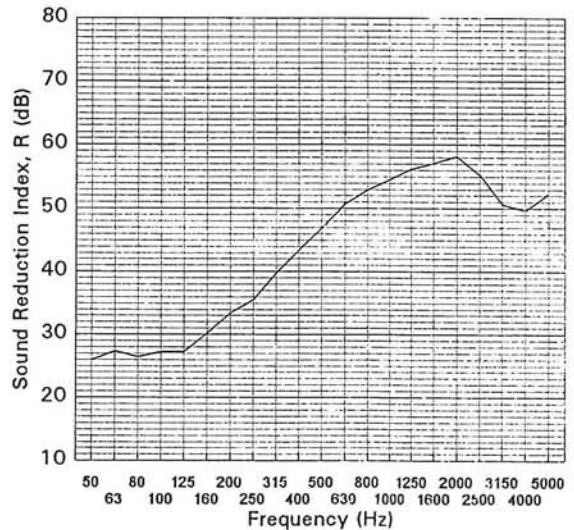
### DESCRIPTION

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/m<sup>3</sup> 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 163 kg/m<sup>2</sup>.

Tested for and supplied by : Plasmor Limited

### RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
50	26.0	630	50.7
63	27.4	800	53.0
80	26.5	1000	54.6
100	27.3	1250	56.2
125	27.3	1600	57.1
160	30.2	2000	58.2
200	33.5	2500	55.3
250	35.6	3150	50.7
315	39.8	4000	49.7
400	43.4	5000	52.3
500	46.9		



Rating according to BS EN ISO 717-1:1997  $R_w (C;C_{tr}) = 48 (-2;-7)$  dB

This Test Certificate summarises Report No. L/2883/1 dated 30 July 2003

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