

**SOUND REDUCTION INDEX
100 mm STRANLITE PAINT GRADE BLOCKWORK WALL**

MEASUREMENTS

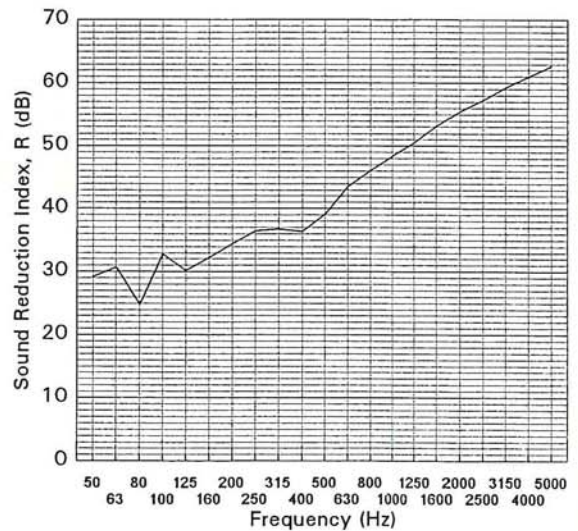
Sound Reduction Index (R) measurements were conducted at the AIRO Acoustics Laboratory in accordance with BS EN ISO 140-3:1995 and BS EN ISO 717-1:1997, using a purpose built sound transmission suite. AIRO is a UKAS accredited testing laboratory No. 0483. The test was performed on 24 May 2004 for Plasmor Limited.

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 Stranlite Paint Grade (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. The estimated mass of the blockwork wall is 143 kg/m².

RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
50	29.2	630	43.6
63	30.7	800	46.1
80	24.8	1000	48.4
100	32.8	1250	50.5
125	30.2	1600	53.2
160	32.2	2000	55.5
200	34.5	2500	57.3
250	36.5	3150	59.3
315	36.8	4000	61.0
400	36.4	5000	62.7
500	39.1		



Rating according to BS EN ISO 717-1:1997 $R_w (C;C_{tr}) = 46 (-2;-5)$ dB

This Test Certificate summarises Report No. L/2934 dated 25 May 2004

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