

SOUND REDUCTION INDEX 140 mm STRANLITE BLOCKWORK WALL - PLASTERED

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 2 March 2004.

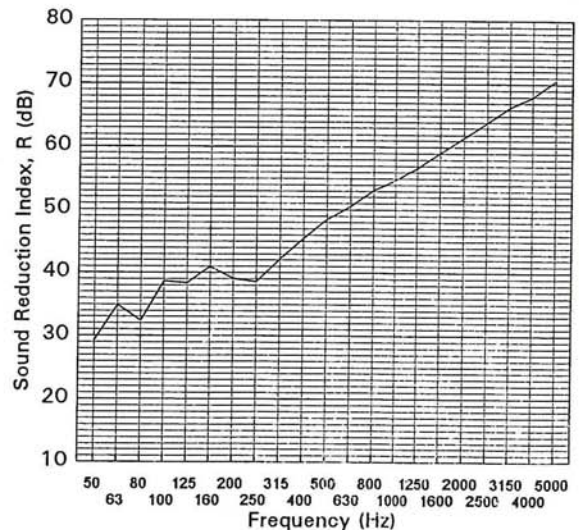
DESCRIPTION

The specimen filled a 2920 mm wide x 3005 mm high test aperture and comprised a single leaf blockwork wall constructed from 140 mm thick Stranlite blocks (density 1375 to 1400 kg/m³ at 3% moisture). 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 166 mm. The estimated mass of the plastered blockwork wall is 220 kg/m².

Tested for and supplied by : Plasmor Limited

RESULTS

Frequency Hz	R dB	Frequency Hz	R dB
50	29.3	630	50.6
63	35.0	800	53.1
80	32.4	1000	54.8
100	38.7	1250	56.7
125	38.4	1600	59.1
160	41.0	2000	61.5
200	39.1	2500	64.0
250	38.6	3150	66.4
315	42.2	4000	68.0
400	45.5	5000	70.6
500	48.5		



Rating according to BS EN ISO 717-1:1997 $R_w (C;C_{tr}) = 50 (-1;-5)$ dB

This Test Certificate summarises Report No. L/2916/A dated 5 March 2004

A J Jones BSc PhD CPhys MInstP FIOA
Managing Director

M Sawyer MIOA
Laboratory Supervisor

ACOUSTICAL INVESTIGATION & RESEARCH ORGANISATION LTD

Duxons Turn
Maylands Avenue
Hemel Hempstead
Hertfordshire
HP2 4SB
Telephone: 01442 247146



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