

SOUND REDUCTION INDEX
140 mm PLASCON MULTICORE BLOCKWORK WALL - RENDERED

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 15 March 2004.

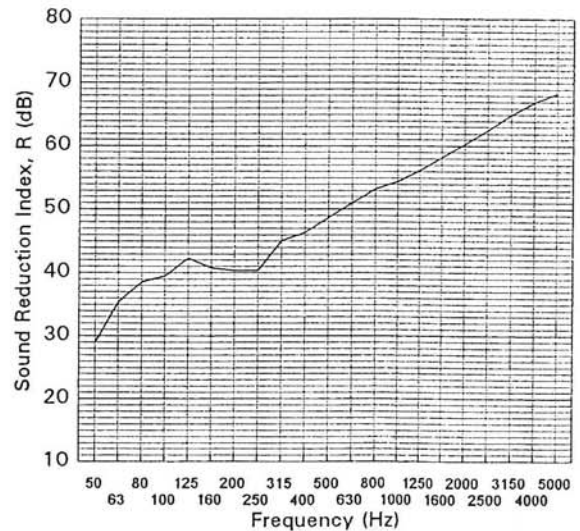
DESCRIPTION

The specimen filed a 2920 mm wide x 3005 mm high test aperture and comprised a single leaf blockwork wall constructed from 140 mm thick Plascon Multicore blocks (material density 2000 kg/m³, block density 1475 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 mm finish plaster over 11 mm sand cement render. The nominal overall thickness of the finished wall was 166 mm. The estimated mass of the rendered blockwork wall is 254 kg/m².

Tested for and supplied by : Plasmor Limited

RESULTS

| Frequency Hz | R dB | Frequency Hz | R dB |
|-----------------|---------|-----------------|---------|
| 50 | 29.0 | 630 | 51.0 |
| 63 | 35.4 | 800 | 53.2 |
| 80 | 38.6 | 1000 | 54.5 |
| 100 | 39.5 | 1250 | 56.2 |
| 125 | 42.4 | 1600 | 58.2 |
| 160 | 40.8 | 2000 | 60.3 |
| 200 | 40.4 | 2500 | 62.6 |
| 250 | 40.4 | 3150 | 65.0 |
| 315 | 45.1 | 4000 | 67.0 |
| 400 | 46.4 | 5000 | 68.4 |
| 500 | 48.7 | | |



Rating according to BS EN ISO 717-1:1997 $R_w (C;C_{tr}) = 53 (-1;-4)$ dB

This Test Certificate summarises Report No. L/2916/B dated 17 March 2004

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