

Appendix 10

Measurement of sound absorption coefficient

Test Measurement of sound absorption coefficient in a reverberation room according to EN ISO 354 and evaluation according to EN ISO 11654

Client Ecophon AB
Christer Persson

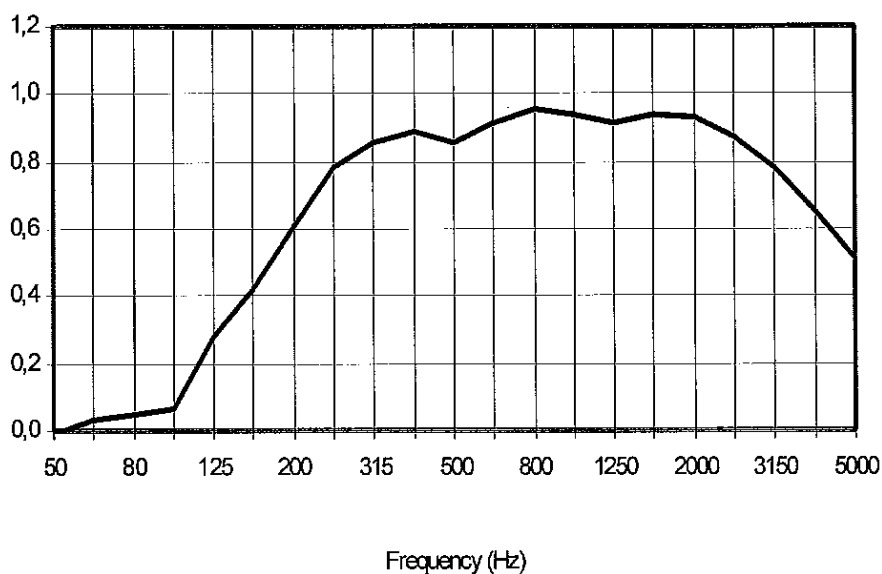
Object Advance Wall
Thickness: 40 mm.
Panel size: 1200 mm x 600 mm.

Date of test October 27, 2009

Conditions Mounting depth: 80 mm.
Surface area: 10,8 m².
Room volume: 200 m³.
Temperature at measurement on object/in empty room: 21/ 20 °C.
Relative humidity at measurement on object/in empty room: 86/ 86 %.

Result Sound absorption class **B**.
Weighted sound absorption coefficient $\alpha_w = 0,85$.

Sound absorption coefficient



Frequency (Hz)	α_s
50	-0,01
63	0,03
80	0,05
100	0,07
125	0,28
160	0,42
200	0,61
250	0,78
315	0,85
400	0,89
500	0,85
630	0,91
800	0,95
1000	0,94
1250	0,91
1600	0,94
2000	0,93
2500	0,87
3150	0,78
4000	0,65
5000	0,51