

Appendix 9

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

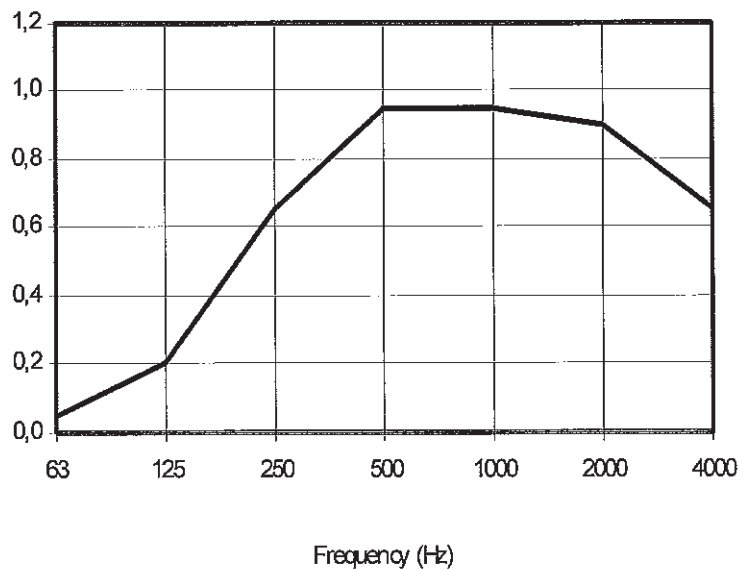
Object Advance Wall
Thickness: 40 mm.
Panel size: 1200 mm x 600 mm.

Date of test October 27, 2009

Conditions Mounting depth: 54 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 $\alpha_w = 0,85$.

Practical sound absorption coefficient



Frequency (Hz)	α_p
63	0,05
125	0,20
250	0,65
500	0,95
1000	0,95
2000	0,90
4000	0,65