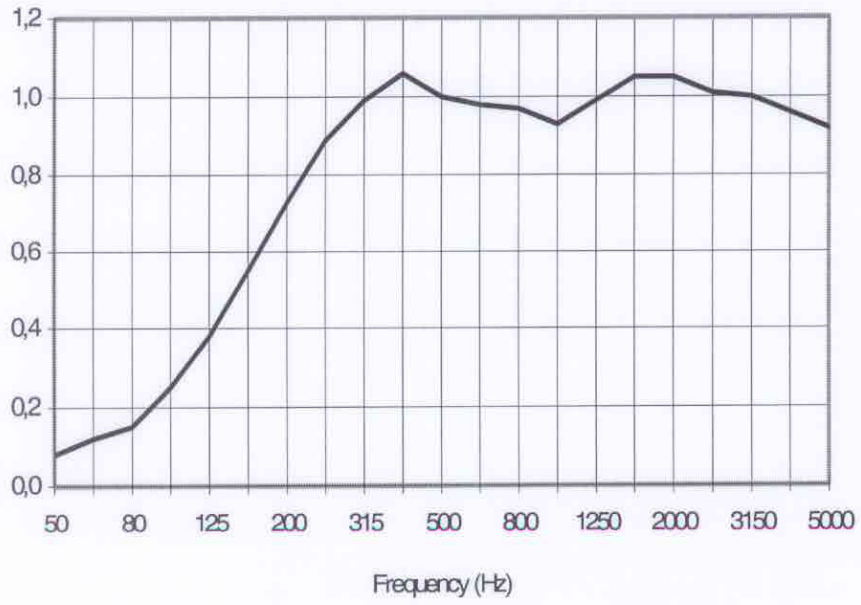
Appendix 9

Measurement of sound absorption coefficient

Test	Measurement of sound absorption coefficient in a reverberation room according to SS-EN 20354 (ISO 354).
Client	Ecophon AB Christer Persson
Object	RTP Thickness: 30 mm. Panel size: 1200 mm x 600 mm.
Date of test	June 9, 2005
Conditions	Mounting depth: 200 mm. Surface area: 10,8 m^2. Room volume: 200 m^3. Temperature at measurement on object/in empty room: 22/ 22 °C. Relative humidity at measurement on object/in empty room: 86/ 85 %.
Result	Sound absorption class A according to EN ISO 11654. Weighted sound absorption coefficient α_w = 1 according to EN ISO 11654.

Sound absorption coefficient



Frequency (Hz)	α_s
50	0,08
63	0,12
80	0,15
100	0,25
125	0,38
160	0,55
200	0,73
250	0,89
315	0,99
400	1,06
500	1,00
630	0,98
800	0,97
1000	0,93
1250	0,99
1600	1,05
2000	1,05
2500	1,01
3150	1,00
4000	0,96
5000	0,92