



Appendix 8

**Measurement of sound absorption coefficient**

Test Measurement of sound absorption coefficient in a reverberation room according to SS-EN 20354 (ISO 354).

Client Ecophon

Christer Persson

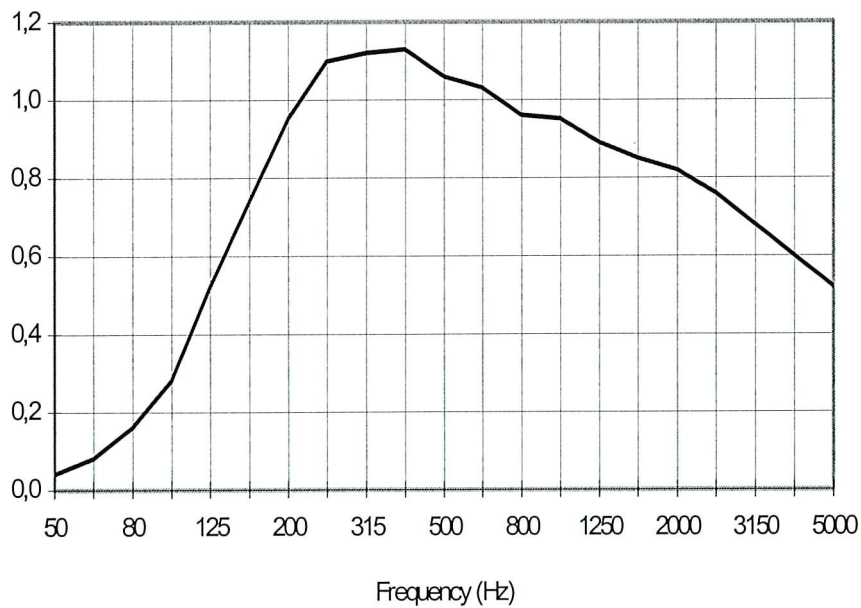
Object Industry AL, 80 mm  
Thickness: 80 mm.  
Panel size: 1200 mm x 600 mm.

Date of test November 29, 2005

Conditions Mounting depth: 80 mm.  
Surface area: 10,8 m<sup>2</sup>.  
Room volume: 200 m<sup>3</sup>.  
Temperature at measurement on object/in empty room: 19/ 19 °C.  
Relative humidity at measurement on object/in empty room: 85/ 86 %.

Result Sound absorption class B according to EN ISO 11654.  
Weighted sound absorption coefficient  $\alpha_w = 0,8(L)$  according to EN ISO 11654.

Sound absorption coefficient



Frequency (Hz)	$\alpha_s$
50	0,04
63	0,08
80	0,16
100	0,28
125	0,52
160	0,74
200	0,95
250	1,10
315	1,12
400	1,13
500	1,06
630	1,03
800	0,96
1000	0,95
1250	0,89
1600	0,85
2000	0,82
2500	0,76
3150	0,68
4000	0,60
5000	0,52