

Appendix 19

**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

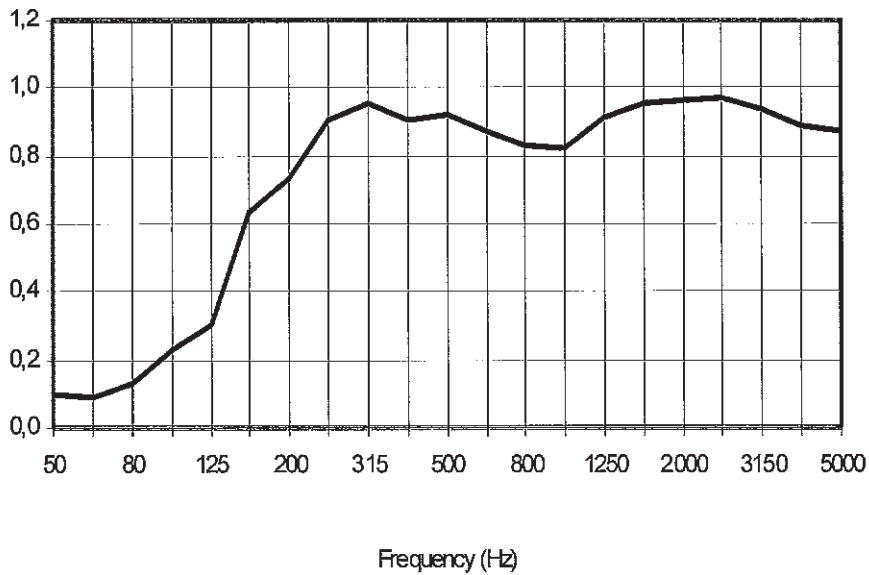
Object Access E  
Thickness: 25 mm.  
Panel size: 1200 mm x 600 mm.

Date of test December 11, 2008

Conditions Mounting depth: 200 mm.  
Surface area: 10,8 m<sup>2</sup>.  
Room volume: 200 m<sup>3</sup>.  
Temperature at measurement on object/in empty room: 20/ 20 °C.  
Relative humidity at measurement on object/in empty room: 86/ 86 %.

Result Sound absorption class A.  
Weighted sound absorption coefficient  $\alpha_w = 0,9$ .

Sound absorption coefficient



Frequency (Hz)	$\alpha_s$
50	0,10
63	0,09
80	0,13
100	0,23
125	0,30
160	0,63
200	0,73
250	0,90
315	0,95
400	0,90
500	0,92
630	0,87
800	0,83
1000	0,82
1250	0,91
1600	0,95
2000	0,96
2500	0,97
3150	0,94
4000	0,89
5000	0,87