

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

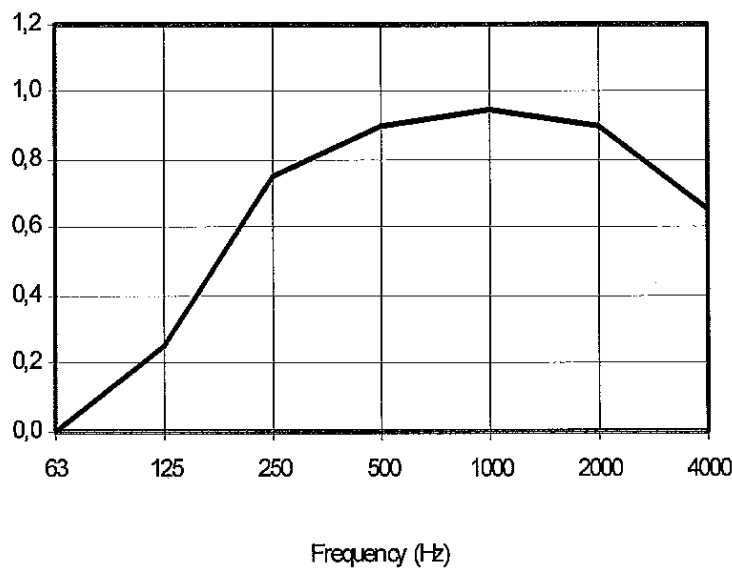
**Object** Advance Wall  
Thickness: 40 mm.  
Panel size: 1200 mm x 600 mm.

**Date of test** October 27, 2009

**Conditions** Mounting depth: 80 mm.  
Surface area: 10,8 m<sup>2</sup>.  
Room volume: 200 m<sup>3</sup>.  
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)	$\alpha_p$
63	0,00
125	0,25
250	0,75
500	0,90
1000	0,95
2000	0,90
4000	0,65