

Appendix 12

**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  
Johanna Friman

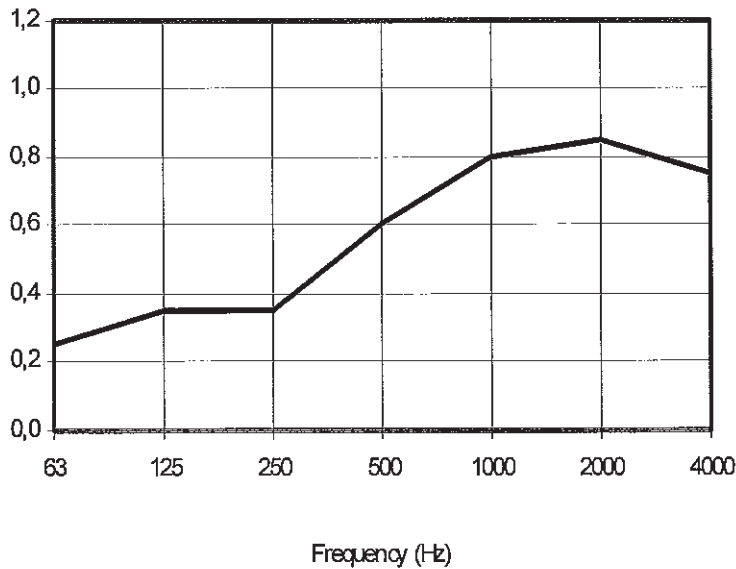
**Object** Advance Baffles: oriented in rectangles  
Thickness: 40 mm.  
Panel size: 1200 mm x 600 mm.

**Date of test** November 14, 2009

**Conditions** Mounting depth: 600 mm.  
Ground clearance 0 mm  
Surface area: 9,00 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: 84/ 84 %.

**Result** Sound absorption class **C**.  
Weighted sound absorption coefficient  $\alpha_w = 0,6(\mathbf{H})$ .

Practical sound absorption coefficient



Frequency (Hz)	$\alpha_p$
63	0,25
125	0,35
250	0,35
500	0,60
1000	0,80
2000	0,85
4000	0,75