

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

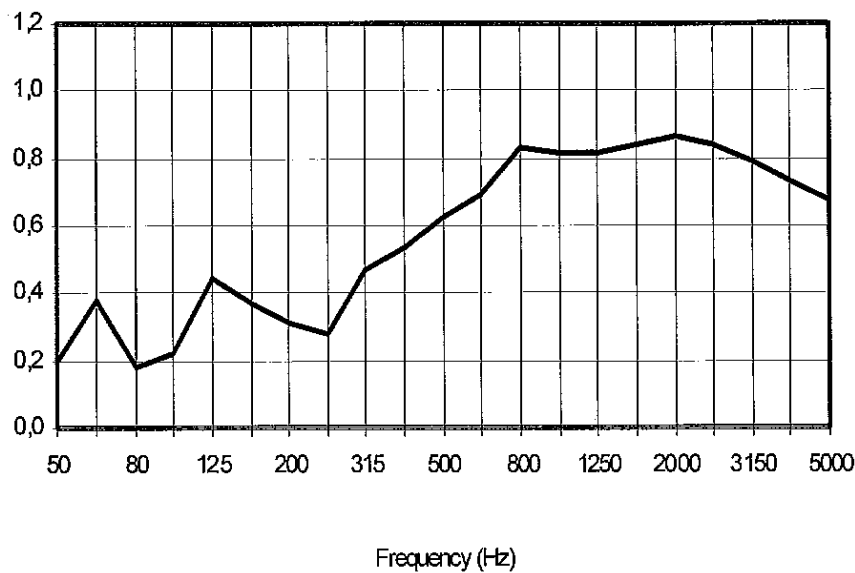
Object Advance Baffles: oriented in rectangles
Thickness: 40 mm.
Panel size: 1200 mm x 600 mm.

Date of test November 14, 2009

Conditions Mounting depth: 600 mm.
Ground clearance 0 mm
Surface area: 9,00 m².
Room volume: 200 m³.
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 $\alpha_w = 0,6(H)$.

Sound absorption coefficient



Frequency (Hz)	α_s
50	0,20
63	0,38
80	0,18
100	0,22
125	0,44
160	0,37
200	0,31
250	0,28
315	0,47
400	0,53
500	0,62
630	0,69
800	0,83
1000	0,81
1250	0,81
1600	0,84
2000	0,86
2500	0,84
3150	0,79
4000	0,73
5000	0,67