

Appendix 13

Measurement of sound absorption coefficient

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

Client Saint-Gobain Ecophon AB

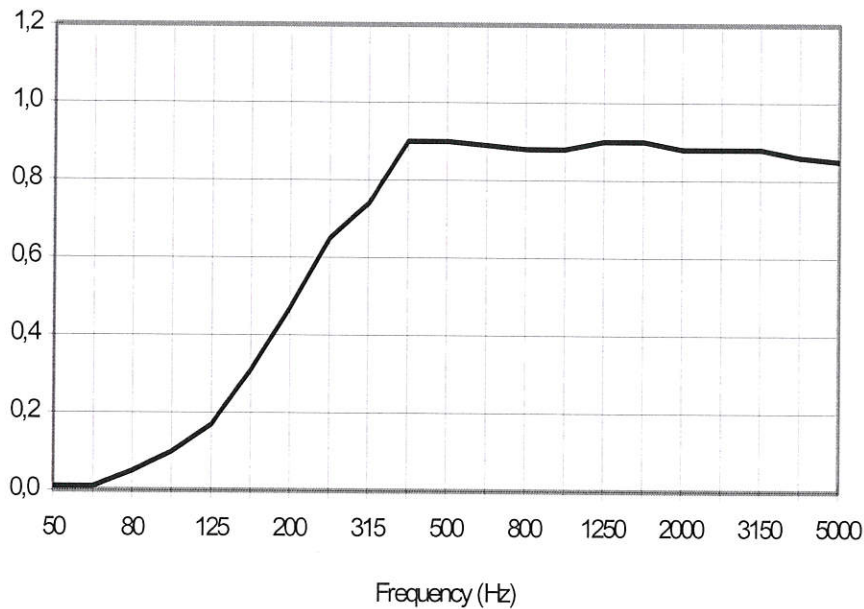
Object Christer Persson
Lithos C
Thickness: 22 mm.
Panel size: 1000 mm x 1500 mm.

Date of test March 24, 2005

Conditions Mounting depth: 50 mm.
Surface area: 10,8 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: 88/ 85 %.

Result Sound absorption class A according to EN ISO 11654.
Weighted sound absorption coefficient $\alpha_w = 0,9$ according to EN ISO 11654.

Sound absorption coefficient



Frequency (Hz)	α_s
50	0,01
63	0,01
80	0,05
100	0,10
125	0,17
160	0,31
200	0,47
250	0,65
315	0,74
400	0,90
500	0,90
630	0,89
800	0,88
1000	0,88
1250	0,90
1600	0,90
2000	0,88
2500	0,88
3150	0,88
4000	0,86
5000	0,85

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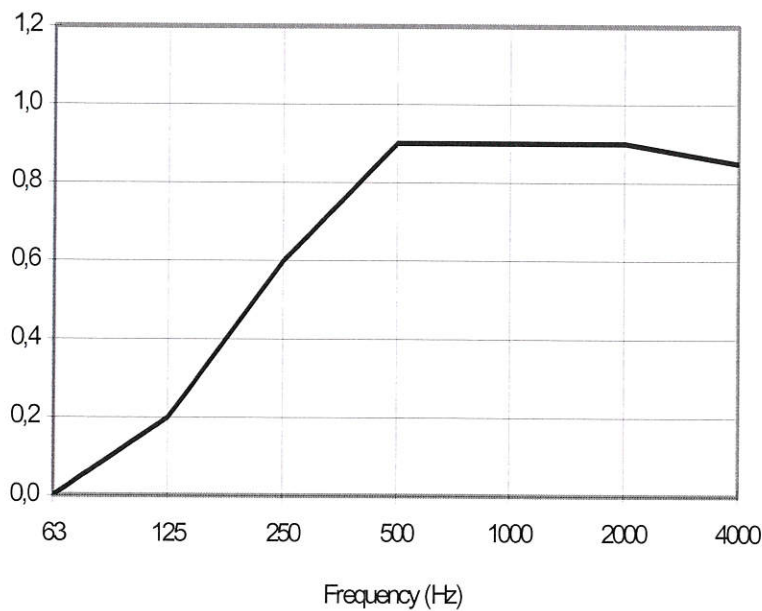
Object Christer Persson
Lithos C
Thickness: 22 mm.
Panel size: 1000 mm x 1500 mm.

Date of test March 24, 2005

Conditions Mounting depth: 50 mm.
Surface area: 10,8 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: 88/ 85 %.

Result Sound absorption class A according to EN ISO 11654.
Weighted sound absorption coefficient $\alpha_w = 0,9$ according to EN ISO 11654.

Practical sound absorption coefficient



Frequency (Hz)	α_p
63	0,00
125	0,20
250	0,60
500	0,90
1000	0,90
2000	0,90
4000	0,85