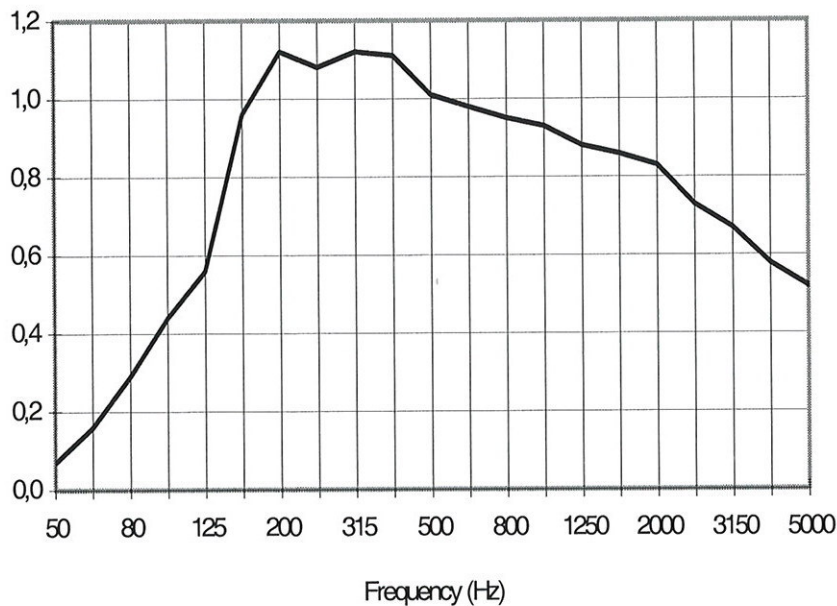


Measurement of sound absorption coefficient

Test Measurement of sound absorption coefficient in a reverberation room according to SS-EN 20354 (ISO 354).
Client Saint-Gobain Ecophon AB
 Fredrik Nilsson
Object Ecophon Industy AL
 Thickness: 100 mm.
 Panel size: 2400 mm x 1200 mm.
Date of test February 24, 2004
Conditions Mounting depth: 100 mm.
 Surface area: 10,8 m².
 Room volume: 200 m³.
 Temperature at measurement on object/in empty room: 18/ 18 °C.
 Relative humidity at measurement on object/in empty room: 93/ 93 %.
Result Sound absorption class B according to EN ISO 11654.
 Weighted sound absorption coefficient $\alpha_w = 0,8(L)$ according to EN ISO 11654.

Sound absorption coefficient



Frequency (Hz)	α_s
50	0,07
63	0,16
80	0,29
100	0,44
125	0,56
160	0,96
200	1,12
250	1,08
315	1,12
400	1,11
500	1,01
630	0,98
800	0,95
1000	0,93
1250	0,88
1600	0,86
2000	0,83
2500	0,73
3150	0,67
4000	0,58
5000	0,52