

Measurement of sound absorption coefficient

Test	Measurement of sound absorption coefficient in a reverberation room according to EN 20354 (ISO 354).
Client	Ecophon AB Nils-Åke Andersson
Object	Focus C, D, DG and Frieze; Access C and Frieze Thickness: 20 mm. Panel size: c 1200 mm x 600 mm.
Date of test	March 18, 1997
Conditions	Mounting depth: 200 mm. Surface area: 10,8 m ² . Room volume: 200 m ³ . Temperature at measurement on object/in empty room: 19/ 18 °C. Relative humidity at measurement on object/in empty room: 74/ 75 %.
Result	Sound absorption class A according to ISO/DIS 11654. Weighted sound absorption coefficient $\alpha_w = 0,9$ according to ISO/DIS 11654.

Sound absorption coefficient



Frequency (Hz)	α_s
50	0,11
63	0,10
80	0,16
100	0,39
125	0,39
160	0,57
200	0,72
250	0,79
315	0,89
400	0,86
500	0,86
630	0,87
800	0,81
1000	0,82
1250	0,91
1600	0,95
2000	0,96
2500	0,96
3150	0,93
4000	0,96
5000	0,92

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