# Measurement of sound absorption coefficient

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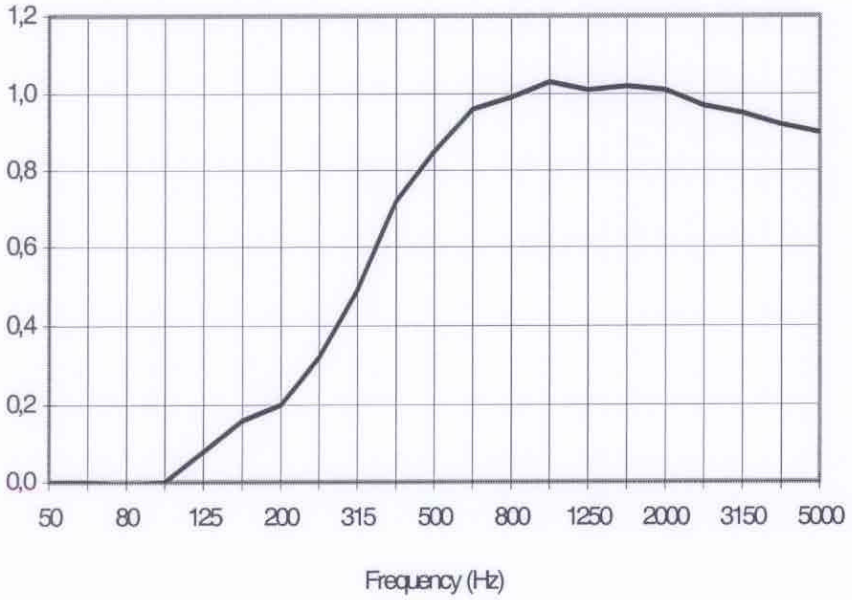
|---|---|
| Test | Measurement of sound absorption coefficient in a reverberation room according to SS-EN 20354 (ISO 354). |
| Client | Ecophon AB<br>Christer Persson |
| Object | RTP<br>Thickness: 30 mm.<br>Panel size: 1200 mm x 600 mm. |
| Date of test | June 8, 2005 |
| Conditions | Mounting depth: 30 mm.<br>Surface area: 10,8 $m^2$.<br>Room volume: 200 $m^3$.<br>Temperature at measurement on object/in empty room: 22/ 22 °C.<br>Relative humidity at measurement on object/in empty room: 88/ 85 %. |
| Result | Sound absorption class C according to EN ISO 11654.<br>Weighted sound absorption coefficient $\alpha_w$ = 0,65(MH) according to EN ISO 11654. |

Sound absorption coefficient




| Frequency (Hz) | $\alpha_s$ |
|---|---|
| 50 | 0,00 |
| 63 | 0,00 |
| 80 | -0,01 |
| 100 | 0,00 |
| 125 | 0,08 |
| 160 | 0,16 |
| 200 | 0,20 |
| 250 | 0,32 |
| 315 | 0,49 |
| 400 | 0,72 |
| 500 | 0,85 |
| 630 | 0,96 |
| 800 | 0,99 |
| 1000 | 1,03 |
| 1250 | 1,01 |
| 1600 | 1,02 |
| 2000 | 1,01 |
| 2500 | 0,97 |
| 3150 | 0,95 |
| 4000 | 0,92 |
| 5000 | 0,90 |