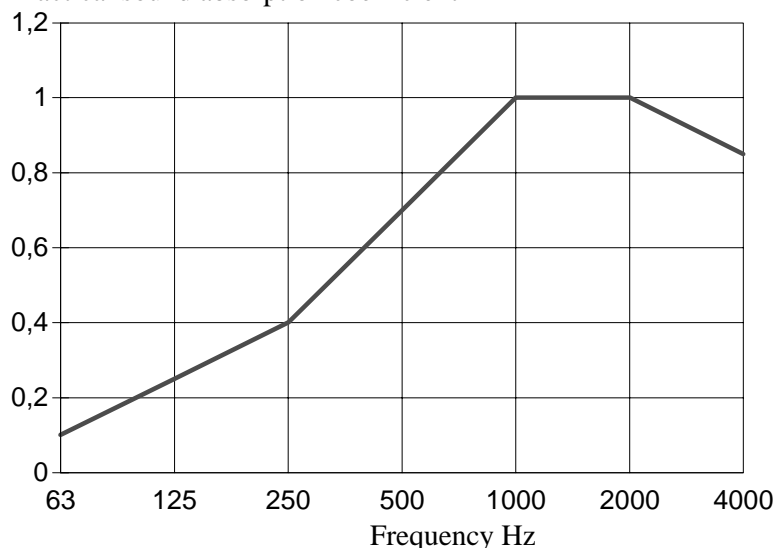


Measurement of sound absorption coefficient

- Test** Measurement of sound absorption coefficient in a reverberation room according to ISO-354.
- Client** Ecophon AB
- Object** Baffle type: **Hygiene Advance**.
Thickness: 40 mm.
Panel size: 600 mm x 1200 mm.
- Date of test** May 10, 1996
- Conditions** Mounting : 12 baffles were placed on the floor in the reverberation room, see the mounting pattern in enclosure 30.
Calculated surface area: 12 m²
Room volume: 200 m³
Temperature and relative humidity: 20,7 °C and 71 % respectively.
- Result** Sound absorption class according to Swedish Standard SS 025260: class C
The sound absorption coefficient is given below.

Practical sound absorption coefficient



| Frequency | Curve 1 |
|-----------|---------|
| 63 | 0,10 |
| 125 | 0,25 |
| 250 | 0,40 |
| 500 | 0,70 |
| 1000 | 1,00 |
| 2000 | 1,00 |
| 4000 | 0,85 |

$$\alpha_w = 0,7$$

**SP Swedish National Testing and Research Institute
Acoustics**

Hans Jonasson
Technical Manager

Geir Andresen
Technical Officer