

### Measurement of sound absorption coefficient

**Test** Measurement of sound absorption coefficient in a reverberation room according to EN ISO 354 and evaluation according to EN ISO 11654

**Client** Ecophon AB  
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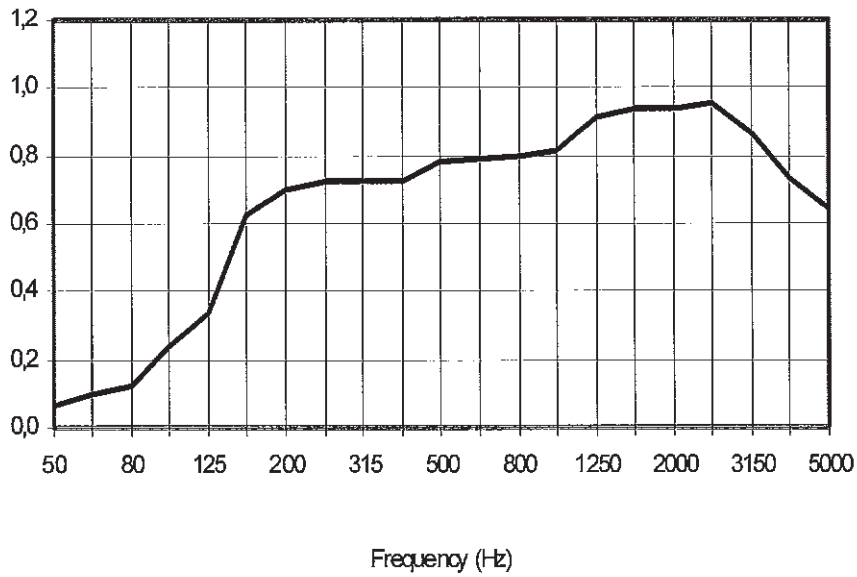
**Object** Hygiene Advance A  
Thickness: 20 mm.  
Panel size: 1200 mm x 600 mm.

**Date of test** December 11, 2008

**Conditions** Mounting depth: 200 mm.  
Surface area: 10,8 m<sup>2</sup>.  
Room volume: 200 m<sup>3</sup>.  
Temperature at measurement on object/in empty room: 20/ 20 °C.  
Relative humidity at measurement on object/in empty room: 86/ 86 %.

**Result** Sound absorption class **B**.  
Weighted sound absorption coefficient  $\alpha_w = 0,85$ .

Sound absorption coefficient



| Frequency (Hz) | $\alpha_s$ |
|----------------|------------|
| 50             | 0,07       |
| 63             | 0,10       |
| 80             | 0,12       |
| 100            | 0,24       |
| 125            | 0,34       |
| 160            | 0,62       |
| 200            | 0,70       |
| 250            | 0,72       |
| 315            | 0,72       |
| 400            | 0,72       |
| 500            | 0,78       |
| 630            | 0,79       |
| 800            | 0,80       |
| 1000           | 0,81       |
| 1250           | 0,91       |
| 1600           | 0,94       |
| 2000           | 0,94       |
| 2500           | 0,95       |
| 3150           | 0,86       |
| 4000           | 0,73       |
| 5000           | 0,64       |