

Appendix 4

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 Saint-Gobain Ecophon AB

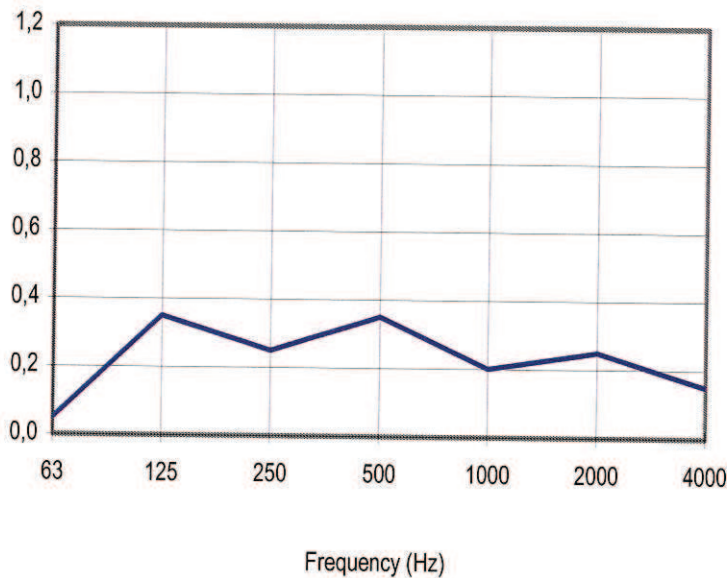
Object Ecophon Akusto Wall C/Texona gamma
 Thickness: 40 mm
 Panel size: 2700 mm x 600 mm
 Mass per square metre: 4,69 kg/m²

Date of test February 26, 2014

Conditions Mounting depth: 40 mm
 Surface area: 10,8 m²
 Room volume: 200 m³
 Temperature at measurement on object/in empty room: 20/ 20 °C
 Relative humidity at measurement on object/in empty room: 79/ 79 %

Result Sound absorption class **E**
 Weighted sound absorption coefficient $\alpha_w = 0,25$

Practical sound absorption coefficient



Frequency (Hz)	α_p
63	0,05
125	0,35
250	0,25
500	0,35
1000	0,20
2000	0,25
4000	0,15