

# Laboratory measurements of Sound Absorption Coefficient according to UNE-EN ISO 354:2004

**Test specimen:** curtain, 100% FR polyester, 340 g/m<sup>2</sup>.

**Configuration:** 100% folded and mounting type G-100 (distance to the wall 100 mm), according to UNE-EN ISO 354. See details in the report.

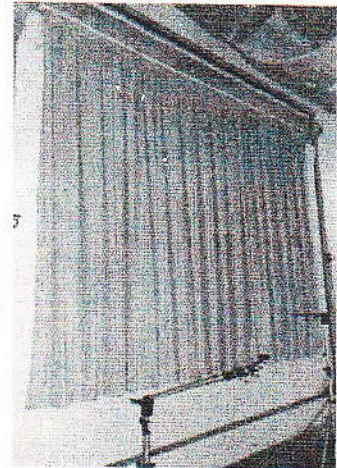
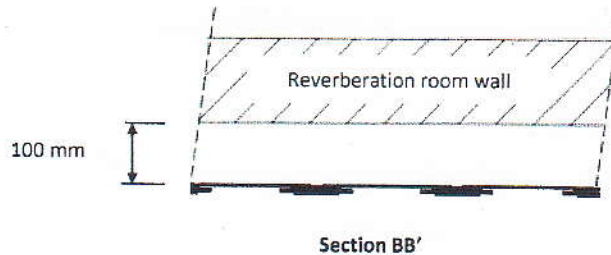
Reverberation room volume: 209,6 m<sup>3</sup>  
 Reverberation room area: 211,8 m<sup>2</sup>

Test specimen area: 10,08 m<sup>2</sup> (2,8x3,6 m)

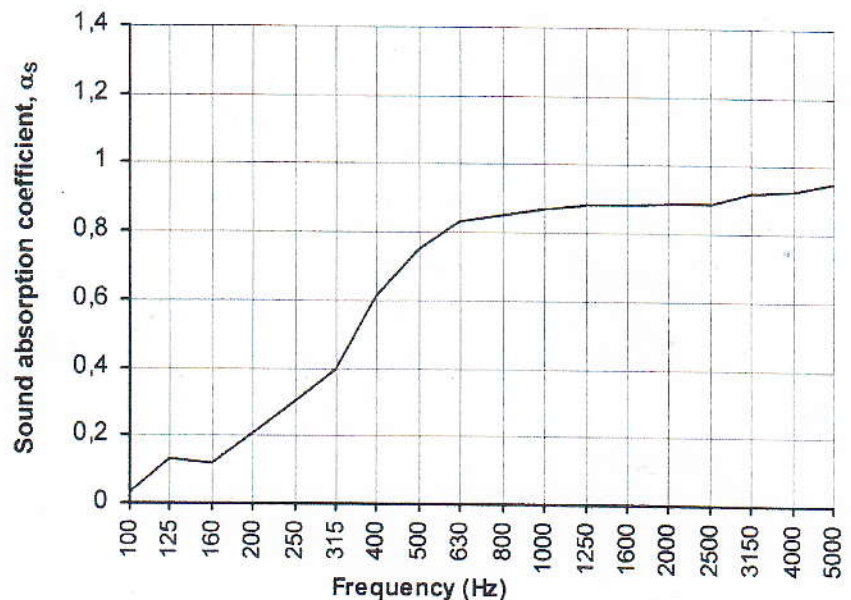
t<sub>1</sub>: 17,4 °C  
 HR<sub>1</sub>: 61 %  
 P<sub>1</sub>: 961 mbar

t<sub>2</sub>: 17,4 °C  
 HR<sub>2</sub>: 63 %  
 P<sub>2</sub>: 963 mbar

1. Empty room.
2. Room with the test specimen.



f (Hz)	T <sub>1</sub>	T <sub>2</sub>	α <sub>s</sub>	α <sub>p</sub>
100	10,39	9,54	0,03	0,10
25	8,49	6,40	0,13	
160	8,76	6,67	0,12	
200	9,97	6,11	0,21	0,30
250	9,90	5,28	0,30	
315	8,47	4,21	0,40	
400	8,33	3,33	0,61	0,75
500	8,71	2,97	0,75	
630	8,40	2,74	0,83	
800	7,63	2,61	0,85	0,85
1000	7,22	2,52	0,87	
1250	6,64	2,43	0,88	
1600	5,87	2,32	0,88	0,90
2000	5,10	2,18	0,89	
2500	4,32	2,02	0,89	
3150	3,56	1,81	0,92	0,95
4000	2,80	1,59	0,93	
5000	2,22	1,38	0,95	



Rating according to UNE-EN ISO 11654:1998

**Weighted Sound Absorption Coefficient: α<sub>w</sub> = 0,60 (MH)**

Acoustic class: C

Evaluation based on laboratory measurements obtained by an engineering method. Uncertainty associated to global index α<sub>w</sub>: ±0,1 dB.



Nº of result: B2015-22-M260

Signature:

Acoustics Area

Managed by

Test report date: 4<sup>th</sup> June, 2015.

Translation date: 26<sup>th</sup> June, 2015.

