

ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

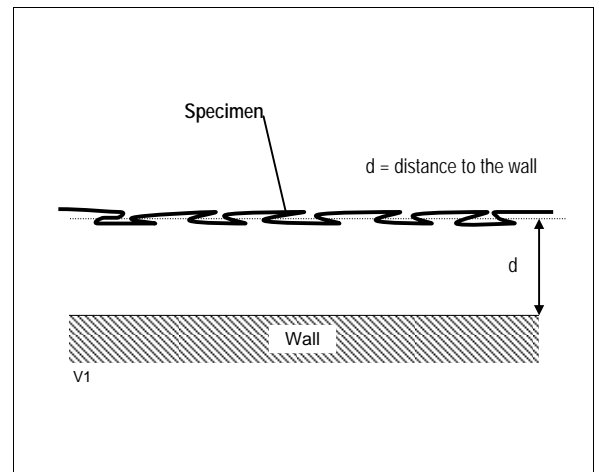
Specifications

Manufacturer	Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal (Switzerland)	
Product name	PROTECT II	
Remarks, configuration	Decoration fabris Measurement configuration: curtain draped by 100%, distance to the wall d = 15 cm	
Set-up (acc. ISO 354/Amd 1:1997)	Type G-150	No. of measurements 3 each microphone
Probe area	4.20 x 3.00 = 12.60 m ²	No. of used microphone 10
Temperature	19.2 °C	Used acoustic Signal White noise
Relative Humidity	39.0 % r.H.	Empty room measurement Interpolated values
Volume of the reverberation chamber	214.3 m ³	EEC Order No. 12489
Measurement No. / Date / Time	Nr. 13 / 18.01.2007 / 16h17'	Archive filename PROTECT1.ABS

EUT identification



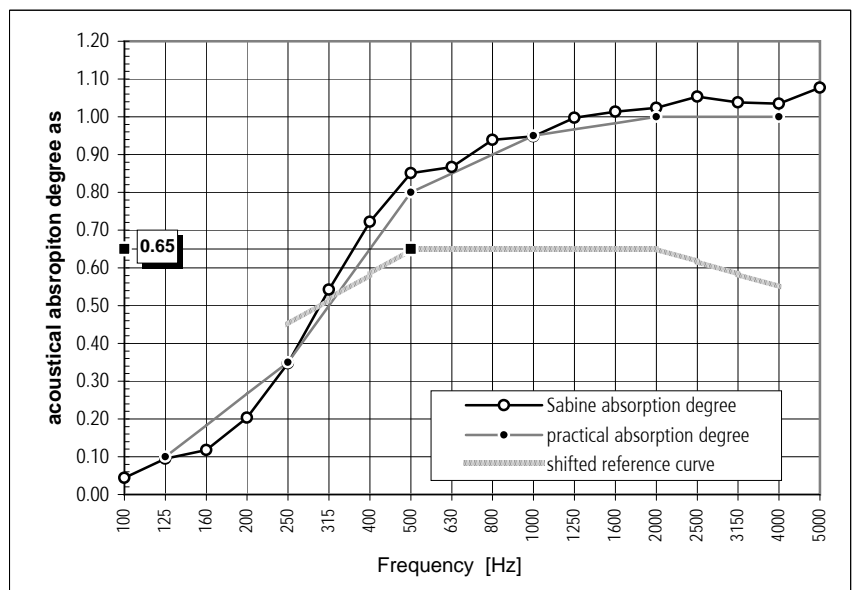
Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T ₁	T ₂	α _s	α _{pi}	α _w
100	19.95	15.12	0.04		0.10
125	18.84	11.41	0.09		
160	15.04	9.14	0.12		0.35
200	12.14	6.39	0.20		
250	10.94	4.59	0.35		0.80
315	9.56	3.31	0.54		
400	8.02	2.58	0.72		0.95
500	8.39	2.33	0.85		
630	8.14	2.28	0.87		1.00
800	7.71	2.12	0.94		
1'000	7.02	2.05	0.95		1.00
1'250	5.93	1.88	1.00		
1'600	5.19	1.78	1.01		1.00
2'000	4.50	1.68	1.02		
2'500	3.82	1.55	1.05		1.00
3'150	3.21	1.45	1.04		
4'000	2.51	1.29	1.03		1.00
5'000	1.97	1.11	1.08		

0.65 (MHH) Class "C"	α _w
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Error : 100 - 315 Hz : 5.71% 400 - 1250 Hz : 2.13% 1600 - 5000 Hz : 1.56%

LEGEND

- T₁ = Reverberation time of the empty room
- T₂ = Reverberation time with the test specimen
- α_s = Sabine absorption degree
- α_{pi} = practical absorption degree
- α_w = assessed absorption degree

ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

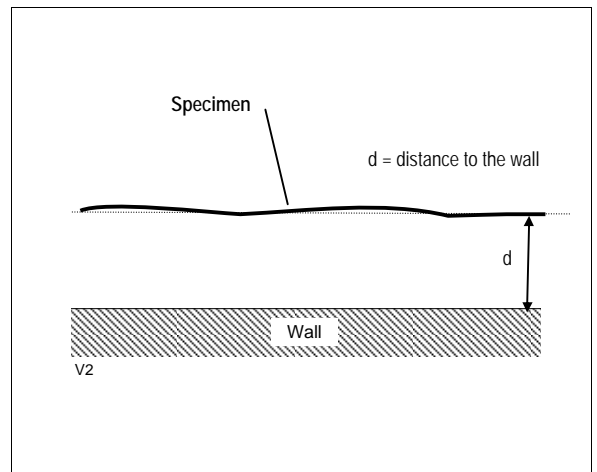
Specifications

Manufacturer	Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal (Switzerland)	
Product name	PROTECT II	
Remarks, configuration	Decoration fabric Measurement configuration: curtain panels, distance to the wall d = 15 cm	
Set-up (acc. ISO 354/Amd 1:1997)	Type G-150	No. of measurements 3 each microphone
Probe area	4.10 x 3.00 = 12.30 m ²	No. of used microphone 10
Temperature	19.2 °C	Used acoustic Signal White noise
Relative Humidity	39.4 % r.H.	Empty room measurement Interpolated values
Volume of the reverberation chamber	214.3 m ³	EEC Order No. 12489
Measurement No. / Date / Time	Nr. 14 / 18.01.2007 / 16h46'	Archive filename PROTECT2.ABS

EUT identification



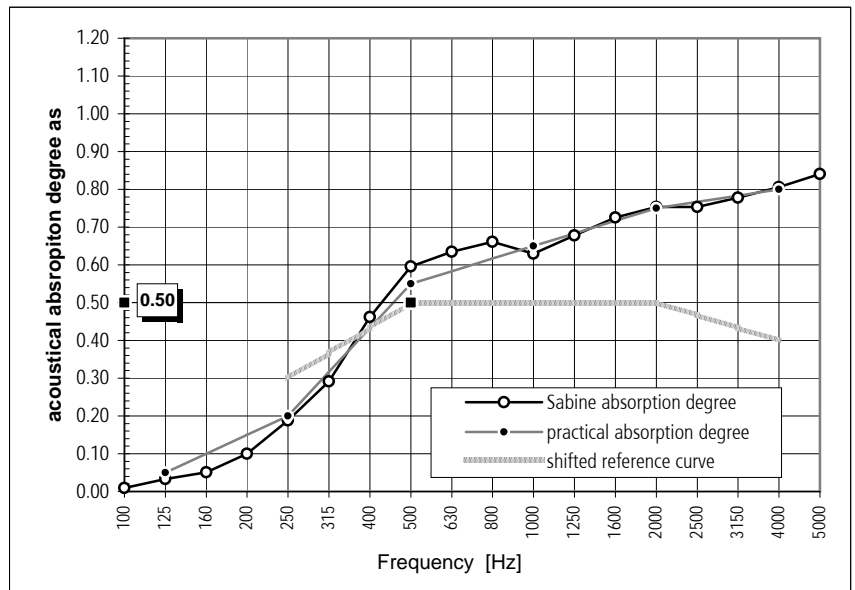
Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T ₁	T ₂	α _s	α _{pi}	α _w
100	19.95	18.69	0.01		0.05
125	18.86	15.41	0.03		
160	15.05	11.84	0.05		0.20
200	12.14	8.48	0.10		
250	10.94	6.32	0.19		0.55
315	9.56	4.80	0.29		
400	8.02	3.46	0.46		0.75
500	8.39	3.02	0.60		
630	8.14	2.87	0.63		0.80
800	7.70	2.74	0.66		
1'000	7.02	2.73	0.63		0.84
1'250	5.93	2.44	0.68		
1'600	5.19	2.22	0.73		
2'000	4.50	2.04	0.75		
2'500	3.83	1.89	0.75		
3'150	3.21	1.70	0.78		
4'000	2.51	1.46	0.81		
5'000	1.97	1.24	0.84		

0.50 (HH)
Class "D"



Error: 100 - 315 Hz : 22.17% 400 - 1250 Hz : 2.24% 1600 - 5000 Hz : 1.77%

LEGEND
 T₁ = Reverberation time of the empty room
 T₂ = Reverberation time with the test specimen
 α_s = Sabine absorption degree
 α_{pi} = practical absorption degree
 α_w = assessed absorption degree