



ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

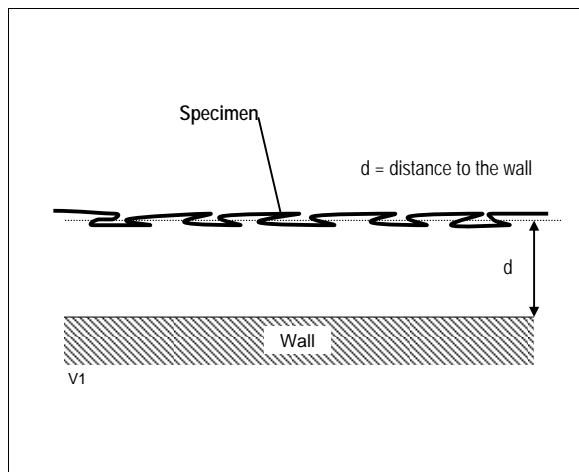
Specifications

Manufacturer	Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal	
Product name	CALMA	
Remarks, configuration	Decoration fabric Measurement configuration: Curtain draped by 100%, average 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	$4.20 \times 3.00 = 12.60 \text{ m}^2$	No. of microphones 10
Temperature	22.3 °C	Used acoustic Signal White noise
Relative Humidity	31.4 % r.H.	Empty room measurement Measured / Interpolated values
Volume of the reverberation chamber	214.3 m^3	EEC Order No. 12770
Measurement No. / Date / Time	Nr. 09 / 26.02.2009 / 14h31'	Archive filename CRBA0909.ABS
Tested by	Martin Lengacher	

EUT identification



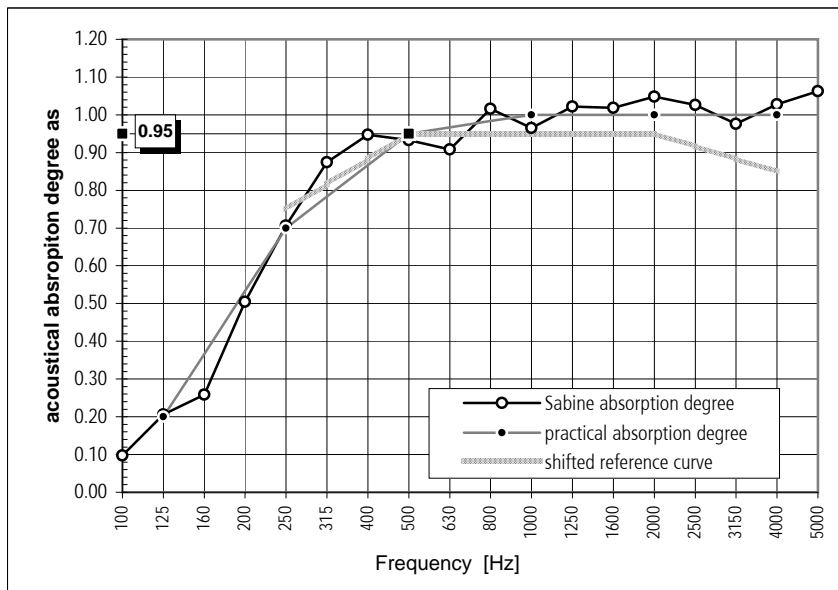
Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T ₁	T ₂	α_s	α_{pi}	α_w
100	20.92	11.99	0.10		
125	18.33	7.69	0.21		0.20
160	15.49	6.28	0.26		
200	11.88	3.72	0.50		
250	10.84	2.85	0.71		0.70
315	9.65	2.36	0.87		
400	8.01	2.12	0.95		
500	8.38	2.17	0.93		0.95
630	7.92	2.18	0.91		
800	7.52	1.98	1.02		
1'000	6.94	2.01	0.97		1.00
1'250	5.81	1.83	1.02		
1'600	5.04	1.75	1.02		
2'000	4.35	1.63	1.05		1.00
2'500	3.71	1.55	1.03		
3'150	3.05	1.46	0.98		
4'000	2.36	1.25	1.03		1.00
5'000	1.83	1.07	1.06		

α_w	
	0.95
	Class "A"



Error: 100 - 315 Hz : 3.33% 400 - 1250 Hz : 2.16% 1600 - 5000 Hz : 1.67%

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



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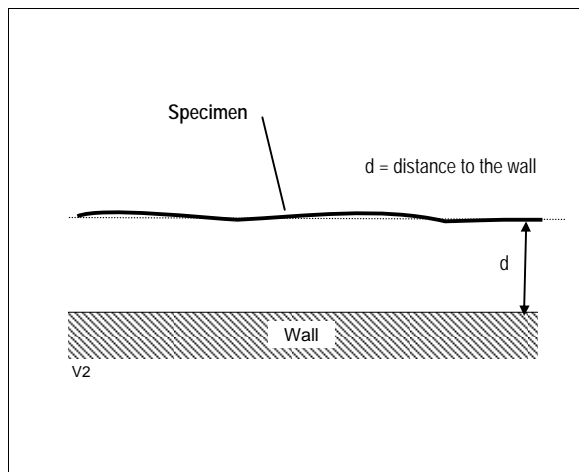
Specifications

Manufacturer	Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal	
Product name	CALMA	
Remarks, configuration	Decoration fabric Measurement configuration: Curtain panels, average distance to the wall $d = 15\text{ cm}$	
Set-up (acc. ISO 354/Amd 1:1997)	Type G-150	No. of measurements 3 each microphone
Probe area	$4.20 \times 3.00 = 12.60\text{ m}^2$	No. of microphones 10
Temperature	22.2 °C	Used acoustic Signal White noise
Relative Humidity	31.6 % r.H.	Empty room measurement Measured / Interpolated values
Volume of the reverberation chamber	214.3 m ³	EEC Order No. 12770
Measurement No. / Date / Time	Nr. 10 / 26.02.2009 / 15h01'	Archive filename CRBA0910.ABS
Tested by	Martin Lengacher	

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	20.94	16.70	0.03	0.10	0.70
125	18.37	11.03	0.10		
160	15.50	8.65	0.14		
200	11.87	5.27	0.29	0.45	
250	10.84	3.79	0.47		
315	9.65	2.93	0.65		
400	8.01	2.49	0.76	0.75	
500	8.38	2.54	0.75		
630	7.93	2.62	0.70		
800	7.52	2.66	0.66	0.70	
1'000	6.96	2.46	0.72		
1'250	5.82	2.32	0.71		
1'600	5.04	2.12	0.75	0.75	
2'000	4.36	1.94	0.78		
2'500	3.71	1.81	0.77		
3'150	3.06	1.65	0.76	0.75	
4'000	2.36	1.42	0.77		
5'000	1.84	1.21	0.77		

