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ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

Specifications

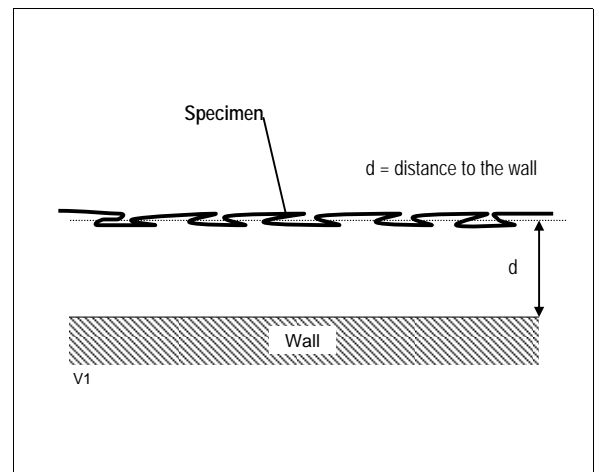
Manufacturer **Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal**
 Product name **EPLIS UN**
 Remarks, configuration Decoration fabric
 Measurement configuration: Curtain draped by 100%, average distance to the wall $d = 15\text{ cm}$

Set-up (acc. ISO 354/Amd 1:1997)	Type G-150	No. of measurements	3 each microphone
Probe area	$4.45 \times 3.00 = 13.35\text{ m}^2$	No. of microphones	10
Temperature	22.2 °C	Used acoustic Signal	White noise
Relative Humidity	31.8 % 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. 07 / 26.02.2009 / 13h17'	Archive filename	CRBA0907.ABS
Tested by	Martin Lengacher		

EUT identification

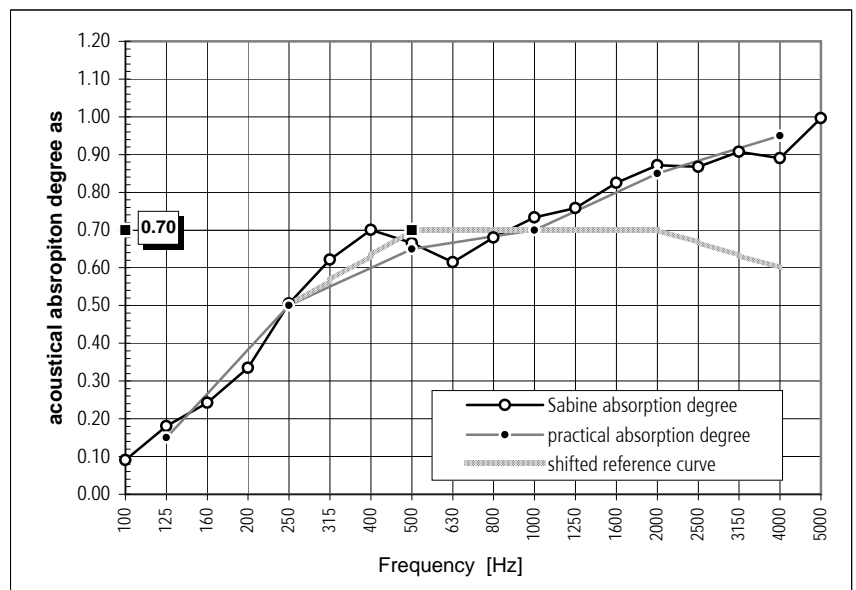


Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T ₁	T ₂	α_s	α_{pi}	α_w
100	20.86	12.04	0.09	0.15	
125	18.24	8.00	0.18		
160	15.47	6.30	0.24		
200	11.90	4.67	0.34		
250	10.85	3.47	0.51		
315	9.64	2.90	0.62	0.50	
400	8.00	2.52	0.70		
500	8.39	2.65	0.67		
630	7.91	2.74	0.62	0.65	0.70 (H)
800	7.51	2.52	0.68		
1'000	6.91	2.33	0.73		
1'250	5.78	2.14	0.76	0.70	Class "C"
1'600	5.05	1.93	0.83		
2'000	4.34	1.76	0.87	0.85	
2'500	3.71	1.65	0.87		
3'150	3.04	1.47	0.91	0.95	
4'000	2.36	1.30	0.89		
5'000	1.82	1.07	1.00		



Error: 100 - 315 Hz : 3.36% 400 - 1250 Hz : 2.13% 1600 - 5000 Hz : 1.68%

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



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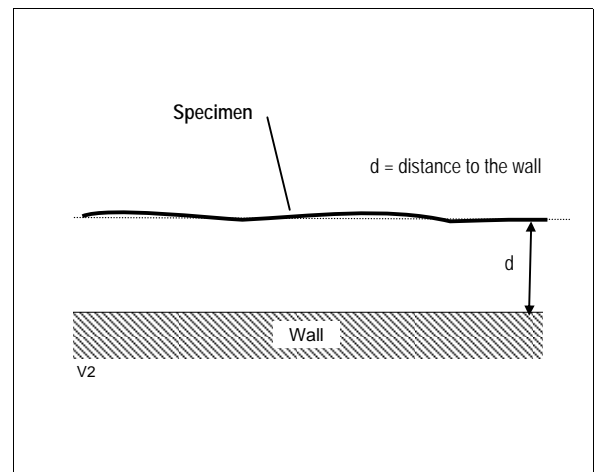
Specifications

Manufacturer	Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal		
Product name	EPLIS UN		
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	$4.45 \times 3.00 = 13.35\text{ m}^2$	No. of microphones	10
Temperature	22.2 °C	Used acoustic Signal	White noise
Relative Humidity	32.0 % 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. 08 / 26.02.2009 / 13h49'	Archive filename	CRBA0908.ABS
Tested by	Martin Lengacher		

EUT identification

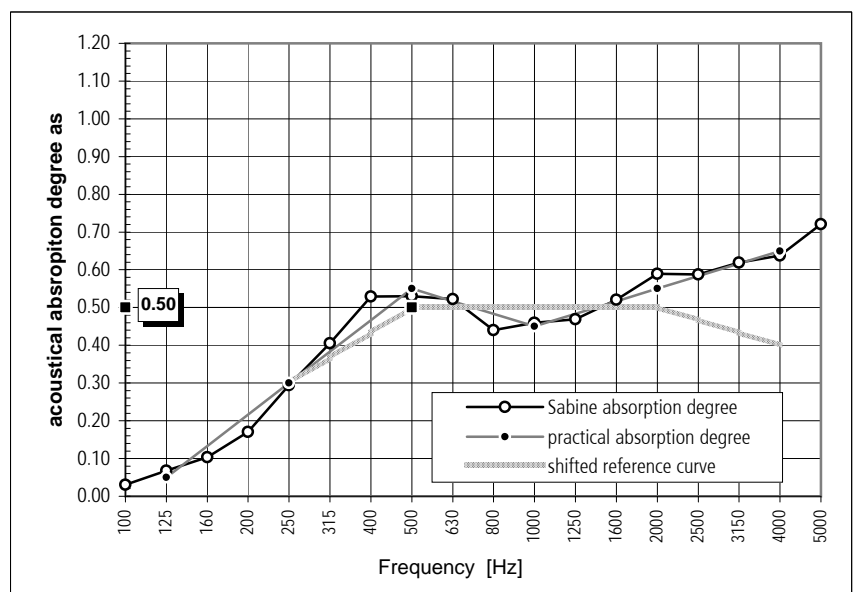


Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T ₁	T ₂	α_s	α_{pi}	α_w
100	20.89	16.74	0.03	0.05	0.50 (H) Class "D"
125	18.28	12.34	0.07		
160	15.48	9.55	0.10		
200	11.89	6.65	0.17	0.30	
250	10.85	4.85	0.29		
315	9.64	3.83	0.41		
400	8.00	3.03	0.53	0.55	
500	8.39	3.08	0.53		
630	7.92	3.04	0.52		
800	7.51	3.29	0.44	0.45	
1'000	6.92	3.10	0.46		
1'250	5.79	2.82	0.47		
1'600	5.05	2.50	0.52	0.55	
2'000	4.35	2.18	0.59		
2'500	3.71	2.01	0.59		
3'150	3.05	1.76	0.62	0.65	
4'000	2.36	1.49	0.64		
5'000	1.83	1.21	0.72		



Error: 100 - 315 Hz : 6.80% 400 - 1250 Hz : 2.17% 1600 - 5000 Hz : 1.98%

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