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ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

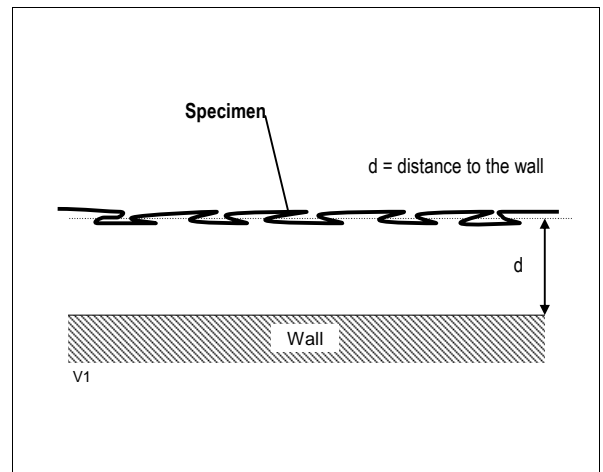
Specifications

Manufacturer	Creation Baumann - Weberei und Färberei AG - CH-4901 Langenthal
Product name	Sonic
Remarks, configuration	Decoration fabric Measurement configuration: Curtain draped by 100%, average distance to the wall d = 15 cm
Set-up (acc. ISO 354/2nd Ed.:2003)	Type G-015
Probe area	3.00 x 4.20 = 12.60 m ²
Temperature	22.0 °C
Relative Humidity	50.0 % r.H.
Volume of the reverberation chamber	214.3 m ³
Measurement No. / Date / Time	Nr. 2 / 06.07.2010 / 10h00'
Tested by	Enrico Blondel
	No. of measurements 3 each microphone
	No. of used microphone 10
	Used acoustic signal White noise
	Empty room measurement Measured values
	EEC Order No. 12953
	Archive filename CRBA1012

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	21.22	13.36	0.08	0.15	1.00
125	18.77	9.49	0.14		
160	16.13	5.77	0.30		
200	12.21	3.64	0.53	0.75	
250	10.96	2.57	0.81		
315	9.56	2.24	0.93		
400	7.98	1.99	1.03	1.00	
500	8.37	2.08	0.99		
630	7.91	2.11	0.95		
800	7.52	1.98	1.02	1.00	
1'000	7.03	1.96	1.01		
1'250	5.92	1.83	1.03		
1'600	5.32	1.73	1.07	1.00	
2'000	4.71	1.71	1.02		
2'500	4.21	1.63	1.03		
3'150	3.63	1.57	0.99	1.00	
4'000	2.98	1.41	1.02		
5'000	2.39	1.28	0.99		



Error : 100 - 315 Hz : 3.72% 400 - 1250 Hz : 2.17% 1600 - 5000 Hz : 1.37%

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



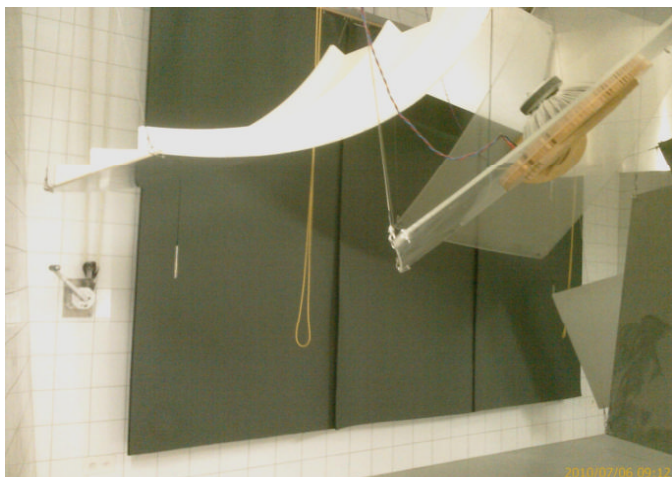
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ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

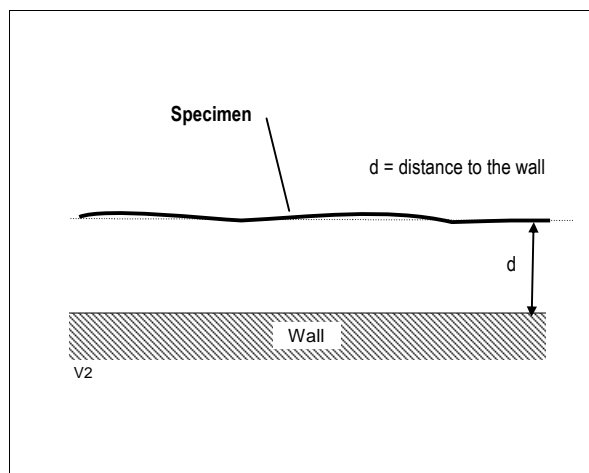
Specifications

Manufacturer	Creation Baumann - Weberei und Färberei AG - CH-4901 Langenthal	No. of measurements	3 each microphone
Product name	Sonic	No. of used microphone	10
Remarks, configuration	Decoration fabric	Used acoustic signal	White noise
	Measurement configuration: Curtain panels, average distance to the wall $d = 15$ cm	Empty room measurement	Measured values
Set-up (acc. ISO 354/2nd Ed.:2003)	Type G-015	EEC Order No.	12953
Probe area	$3.00 \times 4.20 = 12.60 \text{ m}^2$	Archive filename	CRBA1011
Temperature	22.0 °C		
Relative Humidity	50.0 % r.H.		
Volume of the reverberation chamber	214.3 m^3		
Measurement No. / Date / Time	Nr. 1 / 06.07.2010 / 09h30'		
Tested by	Enrico Blondel		

EUT identification



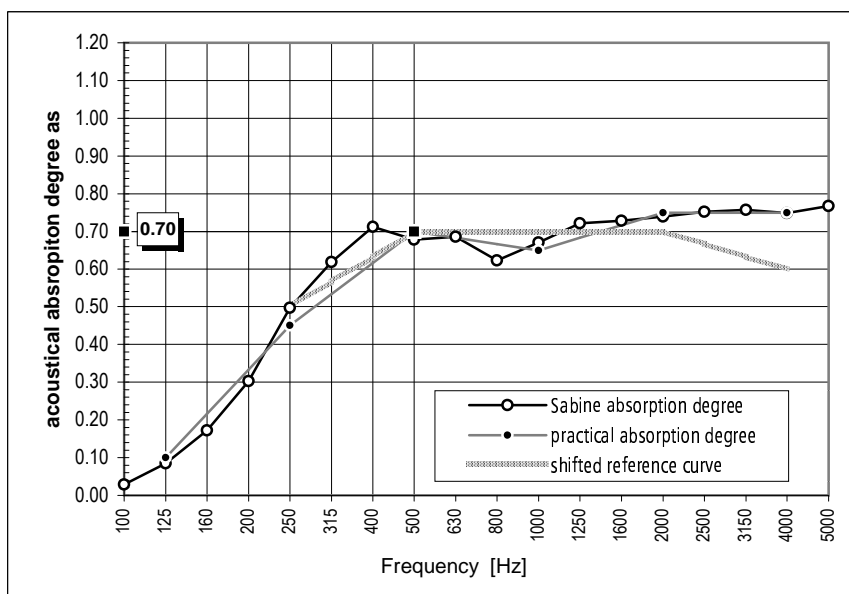
Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T ₁	T ₂	α_s	α_{pi}	α_w
100	21.22	17.33	0.03	0.10	0.70
125	18.77	11.85	0.09		
160	16.13	8.01	0.17		
200	12.21	5.19	0.30		
250	10.96	3.66	0.50	0.45	
315	9.56	3.02	0.62	0.70	
400	7.98	2.59	0.71		
500	8.37	2.72	0.68	0.65	
630	7.91	2.65	0.69		
800	7.52	2.77	0.62	0.75	
1'000	7.03	2.58	0.67		
1'250	5.92	2.31	0.72	0.75	
1'600	5.32	2.20	0.73		
2'000	4.71	2.07	0.74		
2'500	4.21	1.95	0.75		
3'150	3.63	1.81	0.76		
4'000	2.98	1.64	0.75		
5'000	2.39	1.43	0.77		

0.70
Class "C"



Error : 100 - 315 Hz : 7.30% 400 - 1250 Hz : 2.14% 1600 - 5000 Hz : 1.52%

LEGEND	α_s = Sabine absorption degree
T ₁ = Reverberation time of the empty room	α_{pi} = practical absorption degree
T ₂ = Reverberation time with the test specimen	α_w = assessed absorption degree