



ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

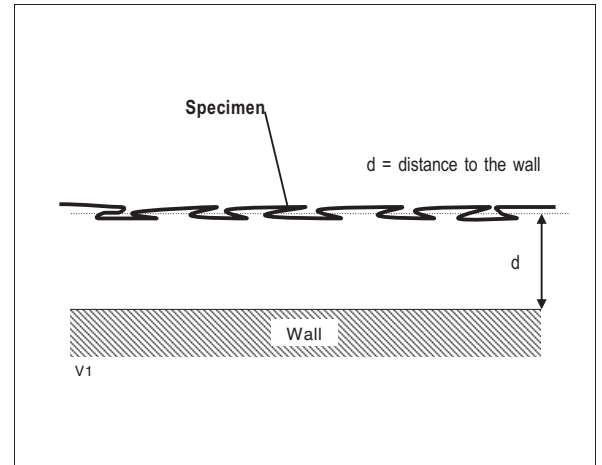
Specifications

Manufacturer	Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal		
Product name	BETACOUSTIC 100% PLF Trevira		
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-150	No. of measurements	3 each microphone
Probe area	$3.00 \times 3.05 = 9.15 \text{ m}^2$	No. of used microphone	9
Temperature	23.7 °C	Used acoustic Signal	White noise
Relative Humidity	31.8 % r.H.	Empty room measurement	Interpolated values
Volume of the reverberation chamber	214.3 m^3	EEC Order No.	13046
Measurement No. / Date / Time	Nr. 02 / 12.03.2012 / 14h30'	Archive filename	CRBA1214
Tested by	E. Blondel		

EUT identification

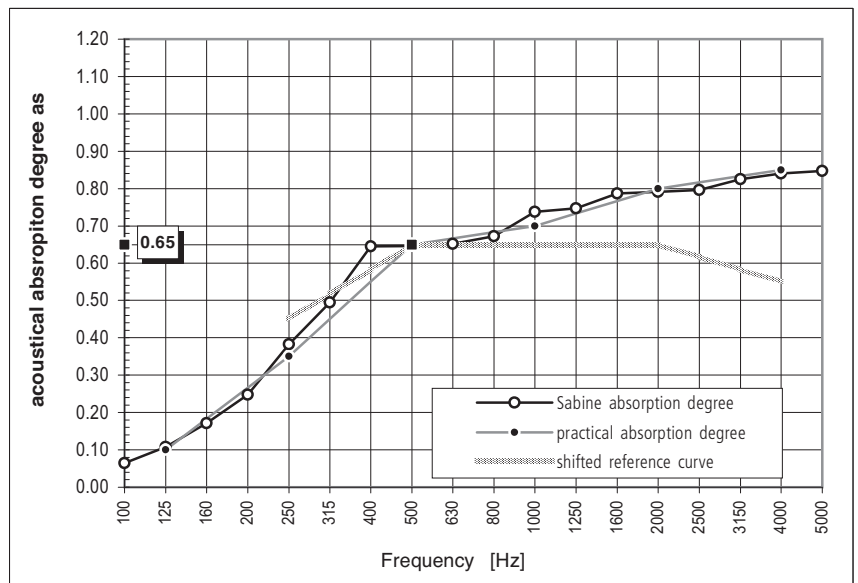


Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T_1	T_2	α_s	α_{pi}	α_w
100	20.94	15.39	0.06		
125	17.25	11.53	0.11		0.10
160	14.14	8.60	0.17		
200	11.44	6.52	0.25		
250	10.88	5.16	0.38		0.35
315	9.45	4.21	0.49		
400	8.02	3.37	0.65		0.65 (H)
500	8.39	3.43	0.65		0.65
630	8.19	3.38	0.65		
800	7.61	3.22	0.67		
1'000	7.03	2.95	0.74		0.70
1'250	5.84	2.70	0.75		
1'600	5.21	2.49	0.79		
2'000	4.43	2.29	0.79		0.80
2'500	3.79	2.10	0.80		
3'150	3.12	1.85	0.83		
4'000	2.47	1.59	0.84		0.85
5'000	1.86	1.31	0.85		



Error : 100 - 315 Hz : 5.39% 400 - 1250 Hz : 2.35% 1600 - 5000 Hz : 2.34%

LEGEND

T_1 = Reverberation time of the empty room
 T_2 = 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)

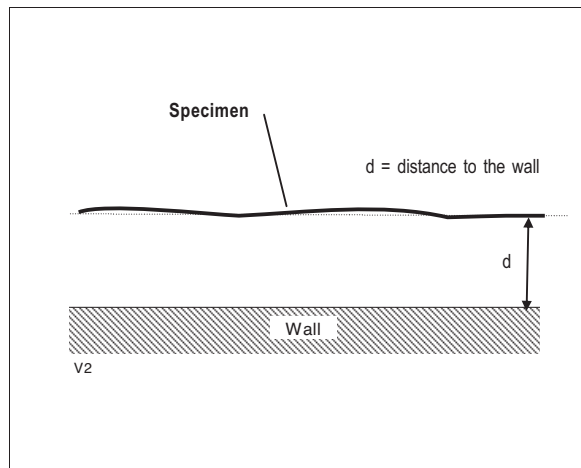
Specifications

Manufacturer	Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal	
Product name	BETACOUSTIC 100% PLF Trevira	
Remarks, configuration	Decoration fabric Measurement configuration: Curtain panels, average distance to the wall $d = 15$ cm	
Set-up (acc. ISO 354/2nd Ed.:2003)	Type G-150	No. of measurements 3 each microphone
Probe area	$3.15 \times 3.05 = 9.61 \text{ m}^2$	No. of used microphone 9
Temperature	23.7 °C	Used acoustic Signal White noise
Relative Humidity	31.8 % r.H.	Empty room measurement Interpolated values
Volume of the reverberation chamber	214.3 m^3	EEC Order No. 13046
Measurement No. / Date / Time	Nr. 01 / 12.03.2012 / 14h05'	Archive filename CRBA1213
Tested by	E. Blondel	

EUT identification

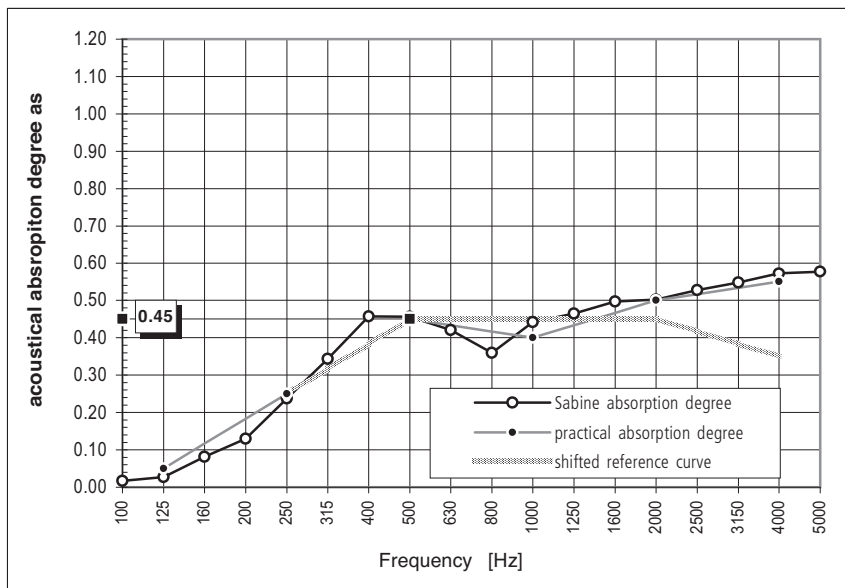


Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T_1	T_2	α_s	α_{pi}	α_w			
100	20.94	19.01	0.02	0.05	0.45			
125	17.25	15.26	0.03					
160	14.14	10.69	0.08					
200	11.44	8.08	0.13	0.25		Class "D"		
250	10.88	6.31	0.24					
315	9.45	4.95	0.34					
400	8.02	3.96	0.46	0.45			Class "D"	
500	8.39	4.05	0.46					
630	8.19	4.17	0.42					
800	7.61	4.31	0.36	0.40				Class "D"
1'000	7.03	3.76	0.44					
1'250	5.84	3.32	0.46					
1'600	5.21	3.02	0.50	0.50	Class "D"			
2'000	4.43	2.73	0.50					
2'500	3.79	2.43	0.53					
3'150	3.12	2.11	0.55	0.55		Class "D"		
4'000	2.47	1.77	0.57					
5'000	1.86	1.43	0.58					



Error : 100 - 315 Hz : 15.53% 400 - 1250 Hz : 2.53% 1600 - 5000 Hz : 2.95%

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