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création baumann

ACOUSTIC ABSORBTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

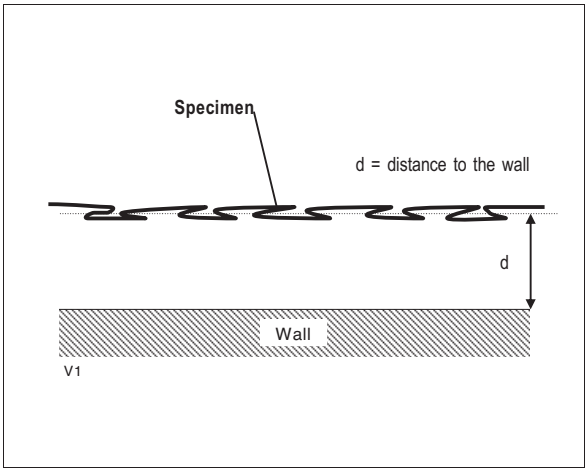
Specifications

Manufacturer	**Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal**
Product name	**ALPHACOUSTIC 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 microphon
Probe area	3.00 x 3.05 = 9.15 m^2	No. of used microphon	9
Temperature	23.7 °C	Used acoustic Signal	White noise
Relative Humidity	32.1 % 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. 04 / 12.03.2012 / 15h25'	Archive filename	CRBA1216
Tested by	E. Blondel		

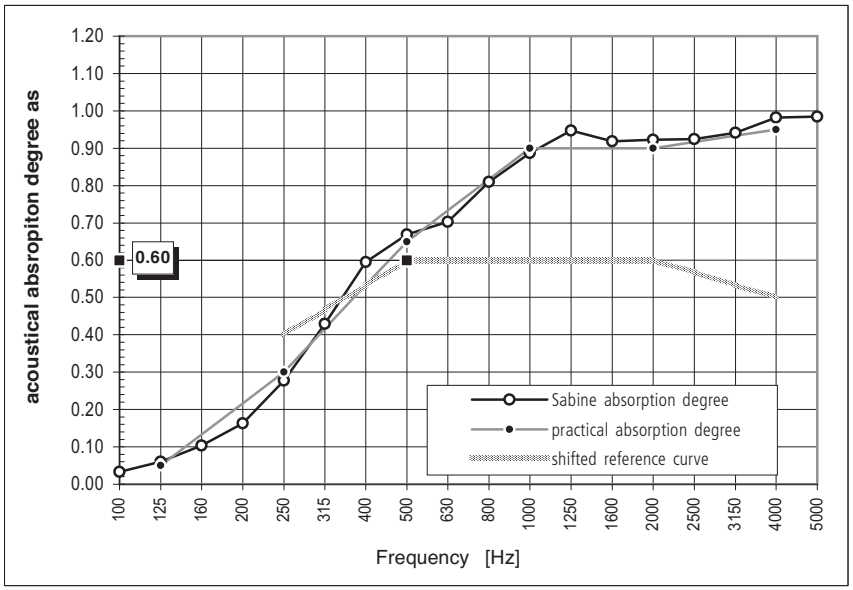
EUT identification

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	17.65	**0.03**		
125	17.25	13.49	**0.06**	**0.05**	
160	14.14	10.17	**0.10**		
200	11.44	7.65	**0.16**		
250	10.88	6.03	**0.28**	**0.30**	
315	9.45	4.54	**0.43**		
400	8.02	3.53	**0.60**		
500	8.39	3.36	**0.67**	**0.65**	**0.60 (MHH) Class "C"**
630	8.19	3.23	**0.70**		
800	7.61	2.88	**0.81**		
1'000	7.03	2.64	**0.89**	**0.90**	
1'250	5.84	2.36	**0.95**		
1'600	5.21	2.29	**0.92**		
2'000	4.43	2.12	**0.92**	**0.90**	
2'500	3.79	1.96	**0.92**		
3'150	3.12	1.75	**0.94**		
4'000	2.47	1.50	**0.98**	**0.95**	
5'000	1.86	1.25	**0.98**		



Error : 100 - 315 Hz : 9.05% 400 - 1250 Hz : 2.39% 1600 - 5000 Hz : 2.14%

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 = assesed absorption degree

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ACOUSTIC ABSORBTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

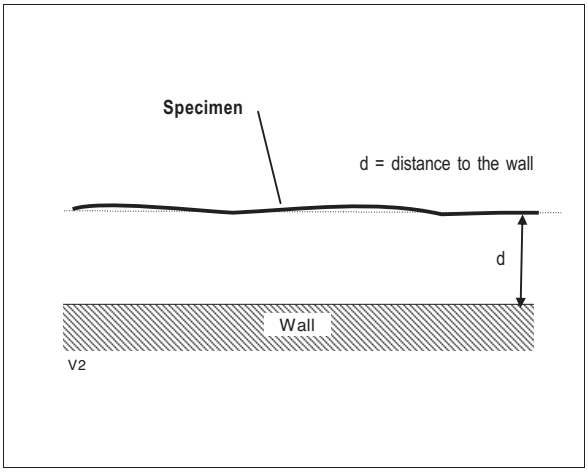
Specifications

Manufacturer	**Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal**
Product name	**ALPHACOUSTIC 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 microphon
Probe area	2.00 x 3.07 = 6.14 m^2	No. of used microphon	6
Temperature	23.7 °C	Used acoustic Signal	White noise
Relative Humidity	32.3 % 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. 05 / 12.03.2012 / 15h45'	Archive filename	CRBA1217
Tested by	E. Blondel		

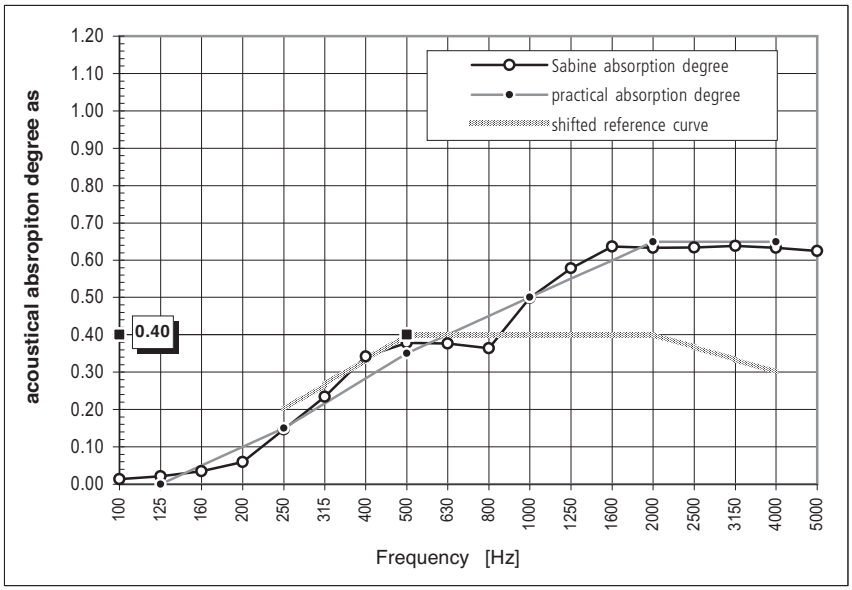
EUT identification

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	19.90	**0.01**		
125	17.25	16.20	**0.02**	**0.00**	
160	14.14	13.00	**0.03**		
200	11.44	10.20	**0.06**		
250	10.88	8.46	**0.15**	**0.15**	
315	9.45	6.77	**0.23**		
400	8.02	5.38	**0.34**		
500	8.39	5.35	**0.38**	**0.35**	**0.40 (HH)**
630	8.19	5.28	**0.38**		**Class "D"**
800	7.61	5.09	**0.36**		
1'000	7.03	4.32	**0.50**	**0.50**	
1'250	5.84	3.64	**0.58**		
1'600	5.21	3.27	**0.64**		
2'000	4.43	2.95	**0.63**	**0.65**	
2'500	3.79	2.65	**0.63**		
3'150	3.12	2.30	**0.64**		
4'000	2.47	1.93	**0.63**	**0.65**	
5'000	1.86	1.54	**0.62**		



Error : 100 - 315 Hz : 35.55% 400 - 1250 Hz : 4.36% 1600 - 5000 Hz : 4.83%

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 = assesed absorption degree