ACOUSTIC ABSORBTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

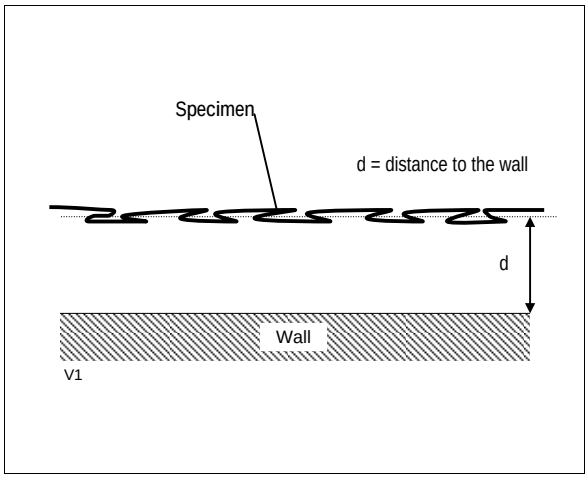
Specifications

Manufacturer	**Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal (Switzerland)**
Product name	**LERIDA III**
Remarks, configuration	Decoration fabric, composition 100% PLF Measurement configuration: curtain draped by 100%, distance to the wall d = 15 cm

Set-up (acc. ISO 354/Amd 1:1997)	Type G-150	No. of measurements	3 each microphon
Probe area	3.75 x 3.00 = 11.25 m^2	No. of used microphon	10
Temperature	19.3 °C	Used acoustic Signal	White noise
Relative Humidity	43.4 % r.H.	Empty room measurement	Measured values
Volume of the reverberation chamber	214.3 m^3	EEC Order No.	10322
Measurement No. / Date / Time	Nr. 03 / 27.04.2004/ 10h30'	Archive filename	LERI3_01.ABS

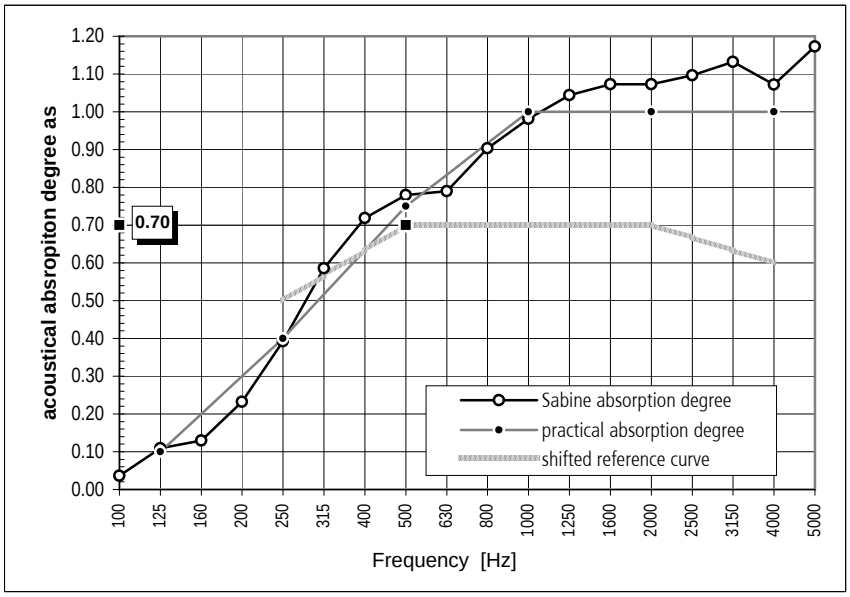
EUT identification

Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T_1	T_2	α_s	α_{pi}	α_w
100	20.03	16.22	**0.04**		
125	19.22	11.43	**0.11**	**0.10**	
160	14.39	8.95	**0.13**		
200	11.46	6.14	**0.23**		
250	11.03	4.58	**0.39**	**0.40**	
315	9.90	3.43	**0.59**		
400	8.11	2.80	**0.72**		
500	8.47	2.69	**0.78**	**0.75**	**0.70 (MHH)**
630	8.10	2.63	**0.79**		
800	7.80	2.37	**0.90**		**Class "C"**
1'000	7.06	2.17	**0.98**	**1.00**	
1'250	6.04	1.98	**1.04**		
1'600	5.30	1.86	**1.07**		
2'000	4.63	1.77	**1.07**	**1.00**	
2'500	4.01	1.65	**1.10**		
3'150	3.30	1.49	**1.13**		
4'000	2.66	1.38	**1.07**	**1.00**	
5'000	2.08	1.16	**1.17**		



Error : 100 - 315 Hz : 7.24% 400 - 1250 Hz : 2.13% 1600 - 5000 Hz : 1.51%

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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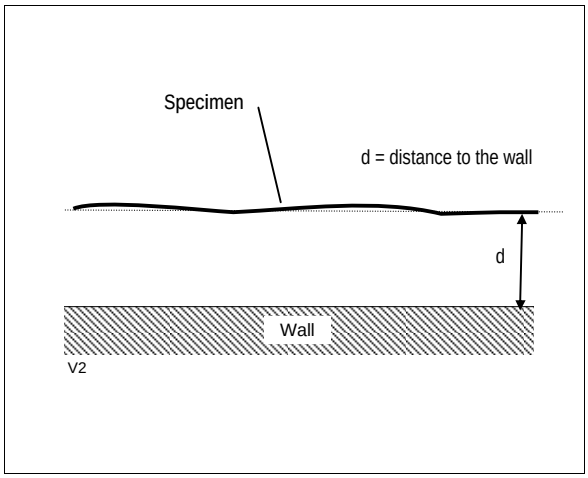
Specifications

Manufacturer	**Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal (Switzerland)**
Product name	**LERIDA III**
Remarks, configuration	Decoration fabric, composition 100% PLF Measurement configuration: curtain panels, distance to the wall d = 15 cm

Set-up (acc. ISO 354/Amd 1:1997)	Type G-150	No. of measurements	3 each microphon
Probe area	4.50 x 3.00 = 13.50 m^2	No. of used microphon	10
Temperature	19.3 °C	Used acoustic Signal	White noise
Relative Humidity	43.2 % r.H.	Empty room measurement	Measured values
Volume of the reverberation chamber	214.3 m^3	EEC Order No.	10322
Measurement No. / Date / Time	Nr. 04 / 27.04.2004/ 11h00'	Archive filename	LERI3_02.ABS

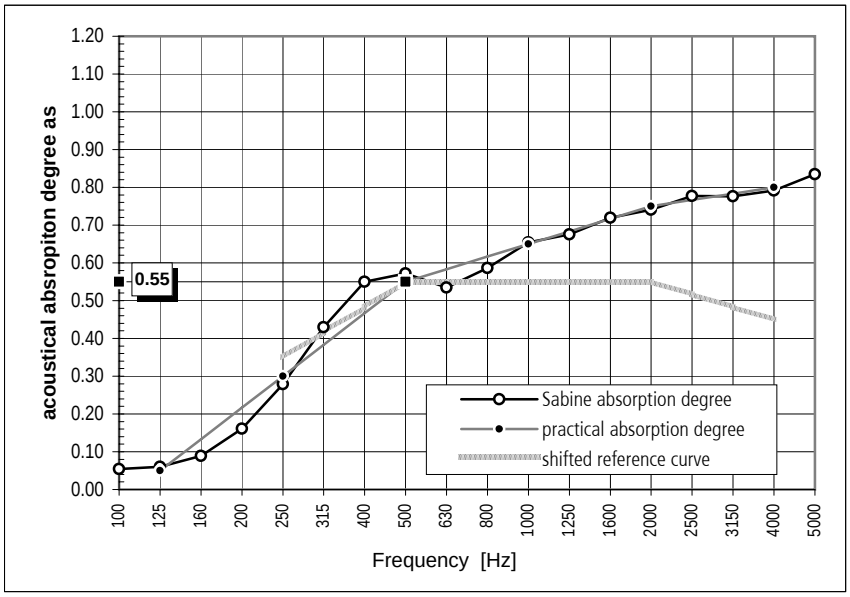
EUT identification

Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T_1	T_2	α_s	α_{pi}	α_w
100	20.03	14.04	**0.05**		
125	19.22	13.25	**0.06**	**0.05**	
160	14.39	9.60	**0.09**		
200	11.46	6.66	**0.16**		
250	11.03	5.01	**0.28**	**0.30**	
315	9.90	3.72	**0.43**		
400	8.11	2.96	**0.55**		
500	8.47	2.93	**0.57**	**0.55**	**0.55 (H) Class "D"**
630	8.10	3.01	**0.53**		
800	7.80	2.80	**0.59**		
1'000	7.06	2.52	**0.65**	**0.65**	
1'250	6.04	2.33	**0.68**		
1'600	5.30	2.13	**0.72**		
2'000	4.63	1.98	**0.74**	**0.75**	
2'500	4.01	1.81	**0.78**		
3'150	3.30	1.65	**0.78**		
4'000	2.66	1.46	**0.79**	**0.80**	
5'000	2.08	1.24	**0.83**		



Error : 100 - 315 Hz : 4.65% 400 - 1250 Hz : 2.14% 1600 - 5000 Hz : 1.61%

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