ACOUSTIC ABSORBTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

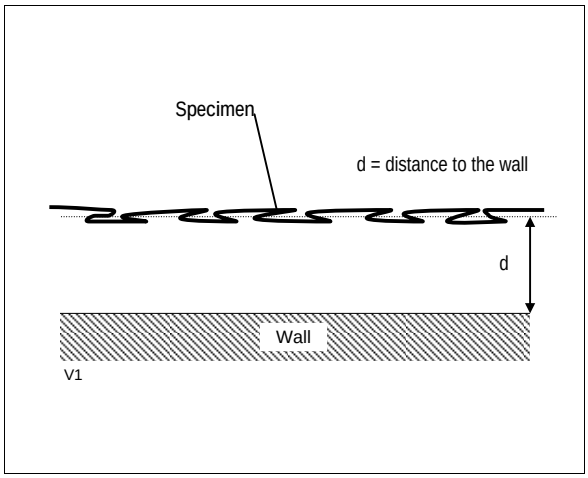
Specifications

Manufacturer	**Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal (Switzerland)**
Product name	**CAMPARI**
Remarks, configuration	Decoration fabric 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	4.50 x 3.00 = 13.50 m^2	No. of used microphon	10
Temperature	19.2 °C	Used acoustic Signal	White noise
Relative Humidity	38.9 % r.H.	Empty room measurement	Interpolated values
Volume of the reverberation chamber	214.3 m^3	EEC Order No.	12489
Measurement No. / Date / Time	Nr. 05 / 18.01.2007 / 11h12'	Archive filename	CAMPARI1.ABS

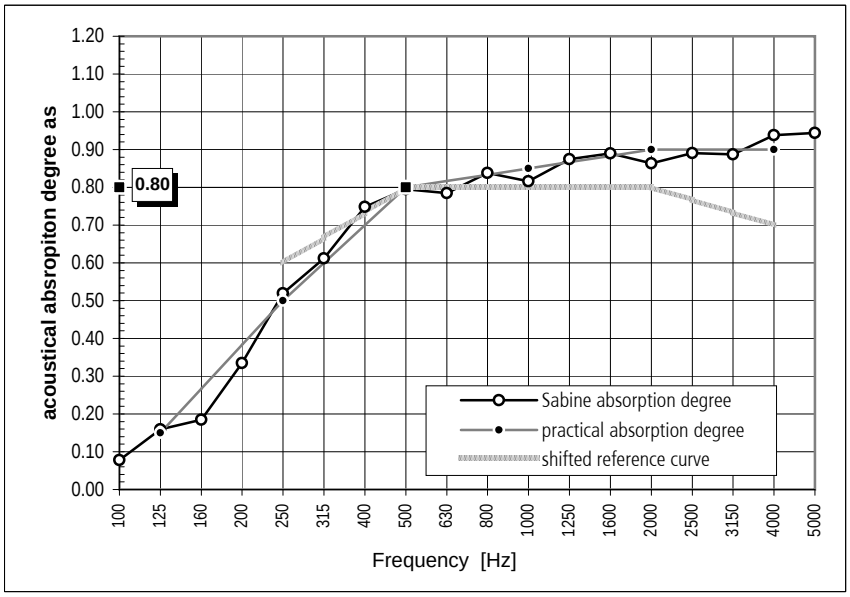
EUT identification

Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T_1	T_2	α_s	α_{pi}	α_w
100	19.99	12.43	**0.08**		
125	18.67	8.64	**0.16**	**0.15**	
160	14.93	7.20	**0.18**		
200	12.12	4.69	**0.34**		
250	10.94	3.40	**0.52**	**0.50**	
315	9.54	2.91	**0.61**		
400	8.01	2.40	**0.75**		
500	8.41	2.33	**0.80**	**0.80**	**0.80**
630	8.14	2.33	**0.79**		
800	7.72	2.19	**0.84**		**Class "B"**
1'000	7.02	2.17	**0.82**	**0.85**	
1'250	5.91	1.96	**0.87**		
1'600	5.17	1.85	**0.89**		
2'000	4.45	1.78	**0.86**	**0.90**	
2'500	3.76	1.63	**0.89**		
3'150	3.16	1.51	**0.89**		
4'000	2.48	1.30	**0.94**	**0.90**	
5'000	1.91	1.12	**0.94**		



Error : 100 - 315 Hz : 3.76% 400 - 1250 Hz : 2.13% 1600 - 5000 Hz : 1.65%

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

ACOUSTIC ABSORBTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

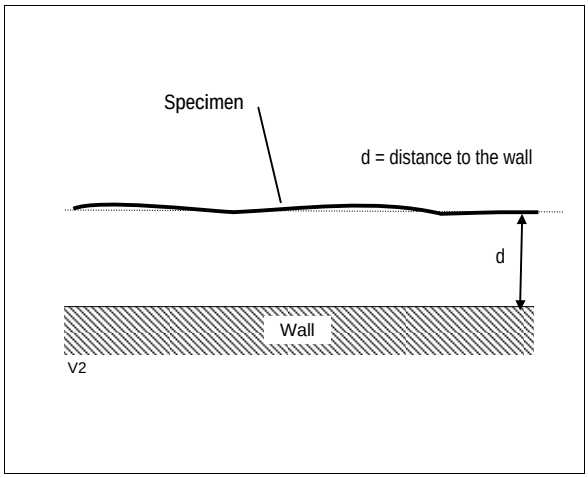
Specifications

Manufacturer	**Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal (Switzerland)**
Product name	**CAMPARI**
Remarks, configuration	Decoration fabric 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	4.20 x 3.00 = 12.60 m^2	No. of used microphon	10
Temperature	19.2 °C	Used acoustic Signal	White noise
Relative Humidity	39.1 % r.H.	Empty room measurement	Interpolated values
Volume of the reverberation chamber	214.3 m^3	EEC Order No.	12489
Measurement No. / Date / Time	Nr. 06 / 18.01.2007 / 11h42'	Archive filename	CAMPARI2.ABS

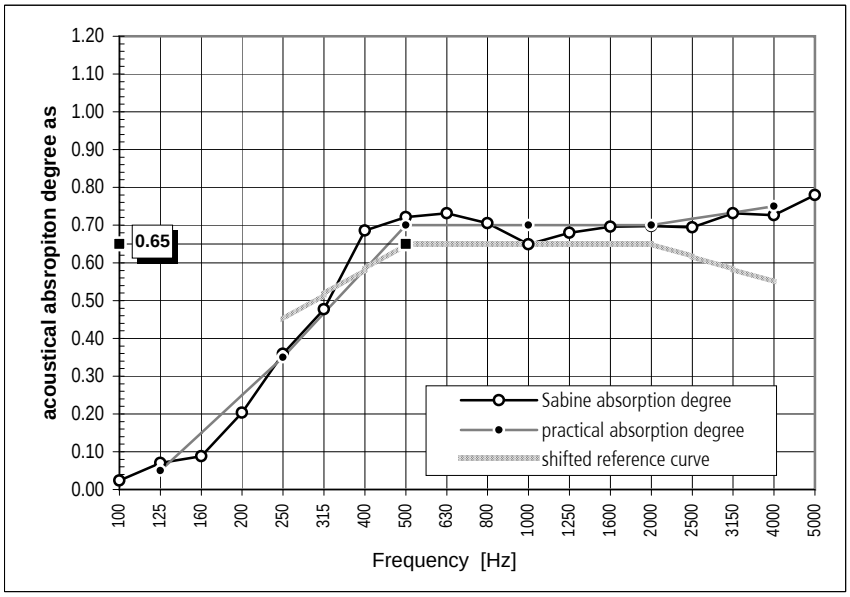
EUT identification

Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T_1	T_2	α_s	α_{pi}	α_w
100	19.99	17.07	**0.02**		
125	18.69	12.63	**0.07**	**0.05**	
160	14.94	10.09	**0.09**		
200	12.12	6.39	**0.20**		
250	10.94	4.50	**0.36**	**0.35**	
315	9.54	3.59	**0.48**		
400	8.01	2.67	**0.69**		
500	8.41	2.62	**0.72**	**0.70**	**0.65**
630	8.14	2.57	**0.73**		
800	7.73	2.59	**0.70**		**Class "C"**
1'000	7.02	2.64	**0.65**	**0.70**	
1'250	5.91	2.40	**0.68**		
1'600	5.18	2.24	**0.70**		
2'000	4.46	2.09	**0.70**	**0.70**	
2'500	3.77	1.93	**0.69**		
3'150	3.17	1.72	**0.73**		
4'000	2.49	1.50	**0.73**	**0.75**	
5'000	1.91	1.24	**0.78**		



Error : 100 - 315 Hz : 9.47% 400 - 1250 Hz : 2.14% 1600 - 5000 Hz : 1.87%

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