

**ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)**

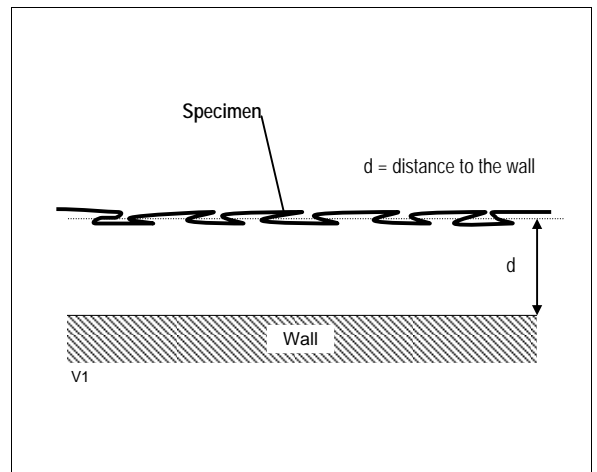
**Specifications**

Manufacturer	<b>Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal (Switzerland)</b>	
Product name	<b>CALVADOS</b>	
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 microphone
Probe area	4.50 x 3.00 = 13.50 m <sup>2</sup>	No. of used microphone 10
Temperature	19.1 °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 <sup>3</sup>	EEC Order No. 12489
Measurement No. / Date / Time	Nr. 07 / 18.01.2007 / 12h15'	Archive filename CALVADO1.ABS

**EUT identification**



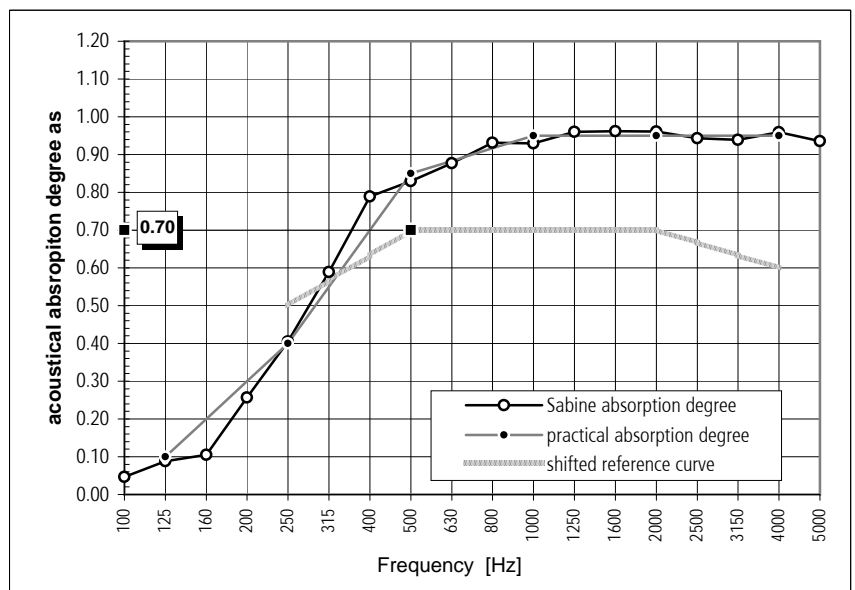
**Test set-up**



**Measurement results (acc. ISO 354, ISO 11654)**

Freq. [Hz]	T <sub>1</sub>	T <sub>2</sub>	α <sub>s</sub>	α <sub>pi</sub>	α <sub>w</sub>
100	19.98	14.67	0.05		0.10
125	18.71	11.40	0.09		
160	14.94	9.27	0.10		0.40
200	12.11	5.47	0.26		
250	10.95	4.01	0.41		
315	9.54	2.99	0.59		0.85
400	8.00	2.31	0.79		
500	8.41	2.26	0.83		0.95
630	8.14	2.15	0.88		
800	7.73	2.03	0.93		0.95
1'000	7.02	1.98	0.93		
1'250	5.92	1.84	0.96		0.95
1'600	5.19	1.76	0.96		
2'000	4.47	1.67	0.96		0.95
2'500	3.77	1.58	0.94		
3'150	3.19	1.47	0.94		0.95
4'000	2.49	1.29	0.96		
5'000	1.92	1.13	0.94		

0.70
<b>0.70 (MHH)</b>
<b>Class "C"</b>



**Error :** 100 - 315 Hz : 5.21%    400 - 1250 Hz : 2.14%    1600 - 5000 Hz : 1.64%

**LEGEND**

- T<sub>1</sub> = Reverberation time of the empty room
- T<sub>2</sub> = Reverberation time with the test specimen
- α<sub>s</sub> = Sabine absorption degree
- α<sub>pi</sub> = practical absorption degree
- α<sub>w</sub> = assessed absorption degree

## ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

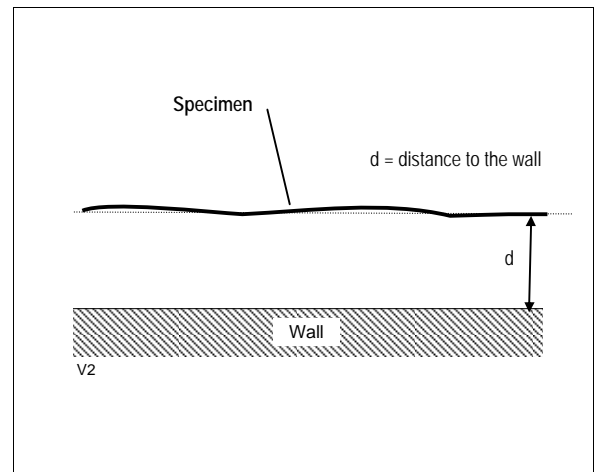
### Specifications

Manufacturer	<b>Création Baumann - Weberei und Färberei AG - CH-4901 Langenthal (Switzerland)</b>	
Product name	<b>CALVADOS</b>	
Remarks, configuration	Decoration fabric Measurement configuration: curtain panels, distance to the wall $d = 15\text{ cm}$	
Set-up (acc. ISO 354/Amd 1:1997)	Type G-150	No. of measurements 3 each microphone
Probe area	$4.20 \times 3.00 = 12.60\text{ m}^2$	No. of used microphone 10
Temperature	19.1 °C	Used acoustic Signal White noise
Relative Humidity	39.1 % r.H.	Empty room measurement Interpolated values
Volume of the reverberation chamber	$214.3\text{ m}^3$	EEC Order No. 12489
Measurement No. / Date / Time	Nr. 08 / 18.01.2007 / 12h45'	Archive filename CALVADO2.ABS

### EUT identification

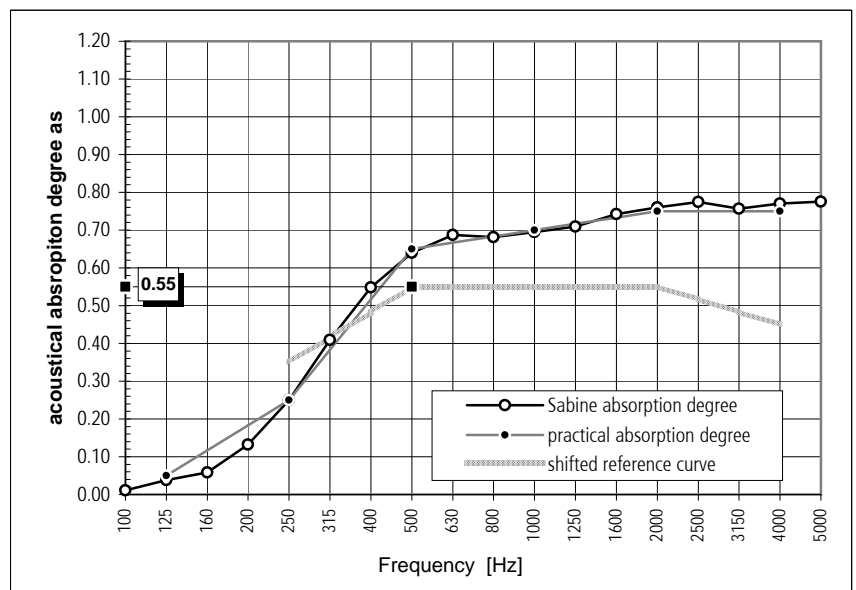


### Test set-up



### Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	$T_1$	$T_2$	$\alpha_s$	$\alpha_{pi}$	$\alpha_w$
100	19.98	18.50	0.01		0.05
125	18.74	14.89	0.04		
160	14.95	11.34	0.06		
200	12.11	7.64	0.13		
250	10.95	5.48	0.25	0.25	
315	9.54	3.94	0.41		0.55 (H)
400	8.00	3.08	0.55	0.65	
500	8.40	2.84	0.64		Class "D"
630	8.13	2.68	0.69	0.70	
800	7.74	2.65	0.68		0.75
1'000	7.03	2.53	0.69	0.75	
1'250	5.92	2.34	0.71		0.75
1'600	5.19	2.16	0.74	0.75	
2'000	4.48	2.00	0.76		0.75
2'500	3.78	1.83	0.77	0.75	
3'150	3.20	1.70	0.76		0.75
4'000	2.50	1.47	0.77	0.75	
5'000	1.93	1.25	0.78		0.75



**Error:** 100 - 315 Hz : 18.88%    400 - 1250 Hz : 2.18%    1600 - 5000 Hz : 1.86%

**LEGEND**

$T_1$  = Reverberation time of the empty room  
 $T_2$  = Reverberation time with the test specimen

$\alpha_s$  = Sabine absorption degree  
 $\alpha_{pi}$  = practical absorption degree  
 $\alpha_w$  = assessed absorption degree