ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

Specifications

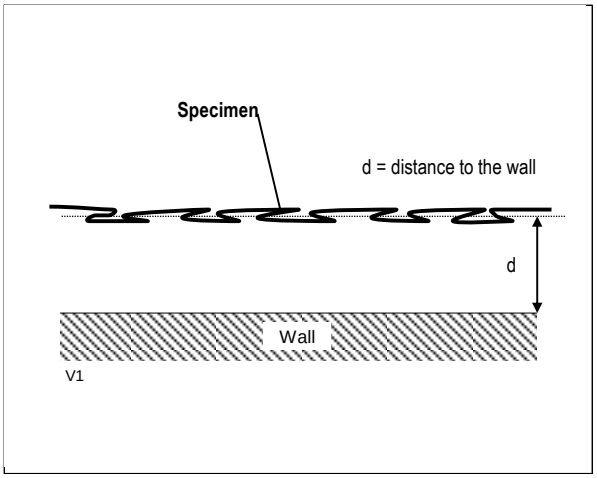
Product name	**SAMIRA**
Remarks, configuration	panels draped by 100%

Set-up (acc. ISO 354/2nd Ed.:2003)	Type G-150	No. of measurements	3 each microphon
Probe area	3.58 x 2.80 = 10.02 m^2	No. of used microphone	8
Temperature	22.8 °C	Used acoustic Signal	White noise
Relative Humidity	51.0 % r.H.	Empty room measurement	Interpolated values
Volume of the reverberation chamber	214.3 m^3		
Measurement No. / Date / Time	Nr. 04 / 17.08.2015 / 19h36'		
Tested by	Frank Wyler		

EUT identification

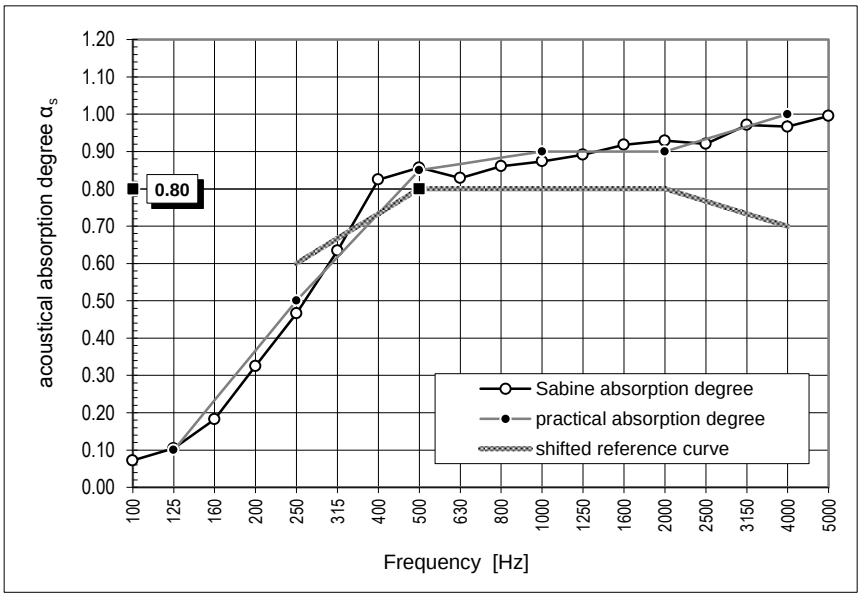


Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T_1	T_2	α_s	α_{pi}	α_w
100	20.34	14.26	**0.07**		
125	17.60	11.45	**0.10**	**0.10**	
160	14.70	8.25	**0.18**		
200	11.62	5.53	**0.33**		
250	11.19	4.44	**0.47**	**0.50**	
315	9.92	3.50	**0.63**		
400	8.12	2.75	**0.82**		**0.80 (H)**
500	8.39	2.71	**0.86**	**0.85**	**Class "B"**
630	8.11	2.74	**0.83**		
800	7.65	2.62	**0.86**		
1'000	7.04	2.52	**0.87**	**0.90**	
1'250	6.04	2.35	**0.89**		
1'600	5.53	2.23	**0.92**		
2'000	4.98	2.12	**0.93**	**0.90**	
2'500	4.36	2.01	**0.92**		
3'150	3.80	1.83	**0.97**		
4'000	3.19	1.68	**0.97**	**1.00**	
5'000	2.56	1.47	**1.00**		



Error : 100 - 315 Hz : 5.2% 400 - 1250 Hz : 2.37% 1600 - 5000 Hz : 1.57%

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