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

Specifications

Product name	SAVOLLA
Remarks, configuration	panels draped by 100% (2 to 1)

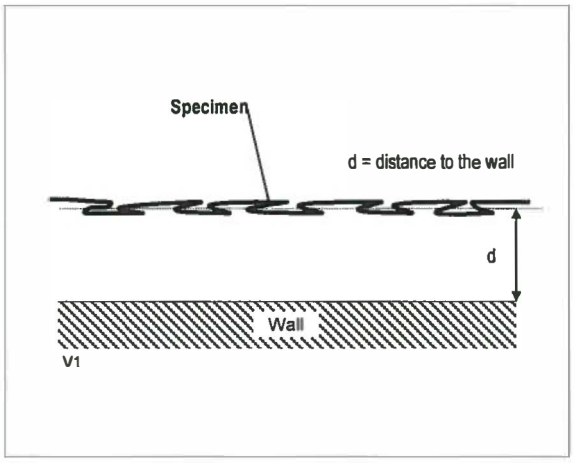
Set-up (acc. ISO 354/2nd Ed.:2003)	Type G-150
Probe area	3.59 x 3.05 = 10.95 m^2
Temperature	23.2 °C
Relative Humidity	44.0 % r.H.
Volume of the reverberation chamber	214.3 m^3
Measurement No. / Date / Time	Nr. 02 / 07.12.2015 / 10h46'
Tested by	Frank Wyler

No. of measurements	3 each microphon
No. of used microphone	8
Used acoustic Signal	White noise
Empty room measurement	Interpolated values

EUT identification

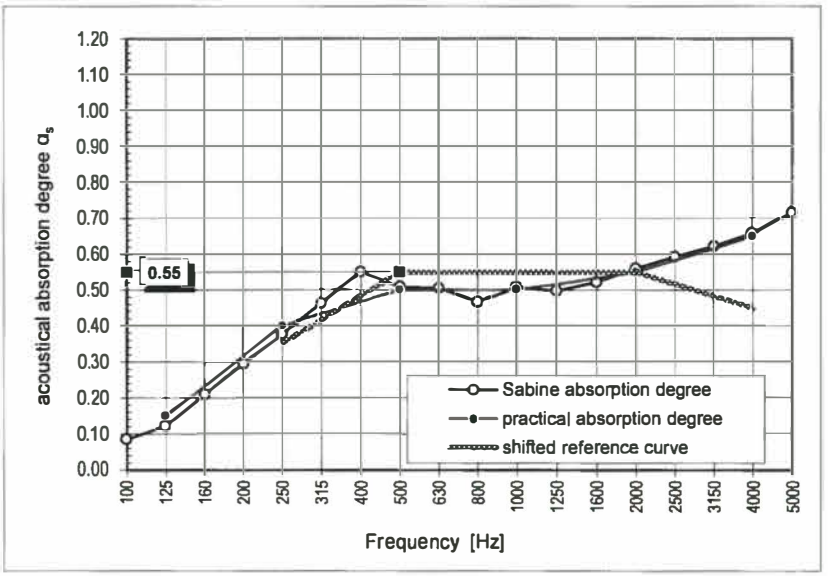


Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T_1	T_2	α_s	α_{pi}	α_w
100	20.36	13.09	**0.09**		
125	17.26	10.33	**0.12**	**0.15**	
160	14.93	7.47	**0.21**		
200	11.74	5.58	**0.29**		
250	11.16	4.78	**0.38**	**0.40**	
315	9.80	4.01	**0.46**		
400	8.03	3.33	**0.55**		
500	8.38	3.55	**0.51**	**0.50**	**0.55**
630	8.08	3.51	**0.51**		
800	7.66	3.58	**0.47**		**Class**
1'000	7.14	3.31	**0.51**	**0.50**	**"D"**
1'250	6.02	3.08	**0.50**		
1'600	5.38	2.84	**0.52**		
2'000	4.85	2.60	**0.56**	**0.55**	
2'500	4.26	2.36	**0.59**		
3'150	3.66	2.12	**0.62**		
4'000	3.00	1.84	**0.66**	**0.65**	
5'000	2.42	1.56	**0.71**		



Error : 100 - 315 Hz : 4.4% 400 - 1250 Hz : 2.5% 1600 - 5000 Hz : 1.9%

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