

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

Specifications

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

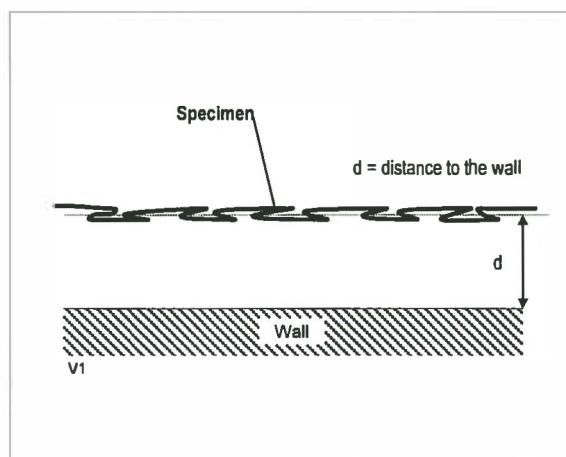
Set-up (acc. ISO 354/2nd Ed.:2003) Type G-150
Probe area $3.45 \times 2.90 = 10.01 \text{ m}^2$
Temperature $23.3 \text{ }^{\circ}\text{C}$
Relative Humidity $40.5 \text{ \% r.H.}$
Volume of the reverberation chamber 214.3 m^3
Measurement No. / Date / Time Nr. 03 / 04.12.2015 / 19h07'
Tested by Frank Wyler

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

EUT identification

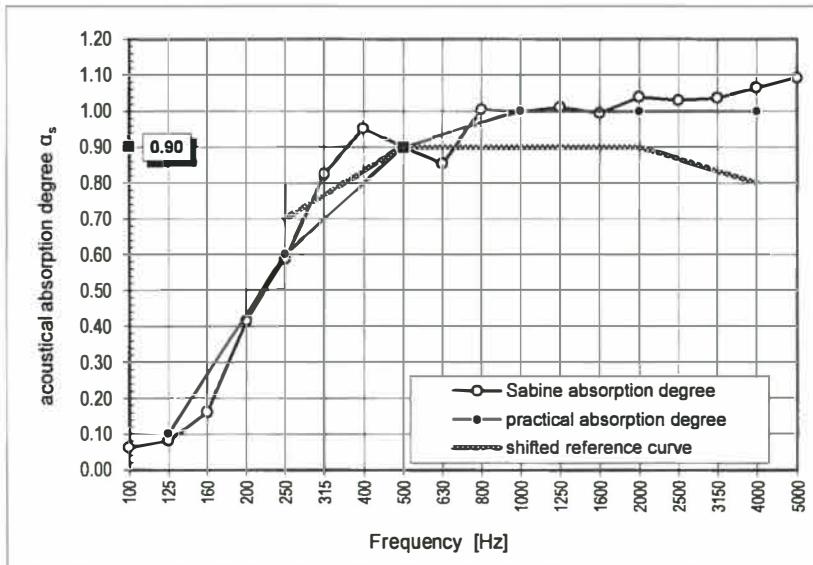


Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T ₁	T ₂	α _s	α _{pi}	α _w
100	20.40	14.95	0.06	0.10	0.90
125	17.23	12.29	0.08		
160	14.89	8.77	0.16		
200	11.73	4.85	0.42	0.60	
250	11.11	3.83	0.59		
315	9.76	2.92	0.82		
400	8.03	2.49	0.95	0.90	
500	8.38	2.62	0.90		
630	8.13	2.69	0.85		
800	7.71	2.37	1.00	1.00	
1'000	7.15	2.32	1.00		
1'250	6.01	2.17	1.01		
1'600	5.36	2.10	0.99	1.00	
2'000	4.82	1.96	1.04		
2'500	4.16	1.85	1.03		
3'150	3.54	1.71	1.04	1.00	
4'000	2.84	1.51	1.06		
5'000	2.27	1.32	1.09		



Error: 100 - 315 Hz: 5.7% 400 - 1250 Hz: 2.4% 1600 - 5000 Hz: 1.7%

LEGEND

T₁ = Reverberation time of the empty room

T₂ = Reverberation time with the test specimen

α_s = Sabine absorption degree

α_{pl} = practical absorption degree

α_w = assessed absorption degree