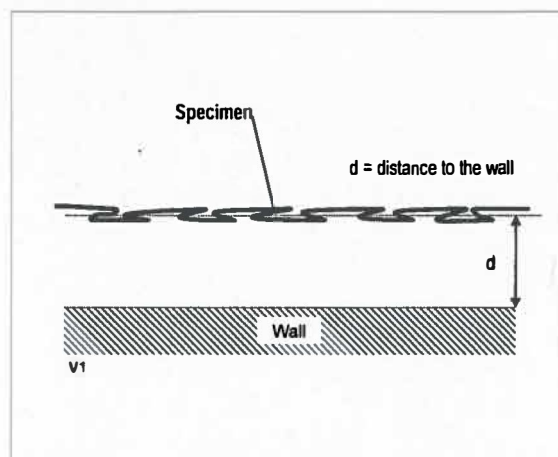


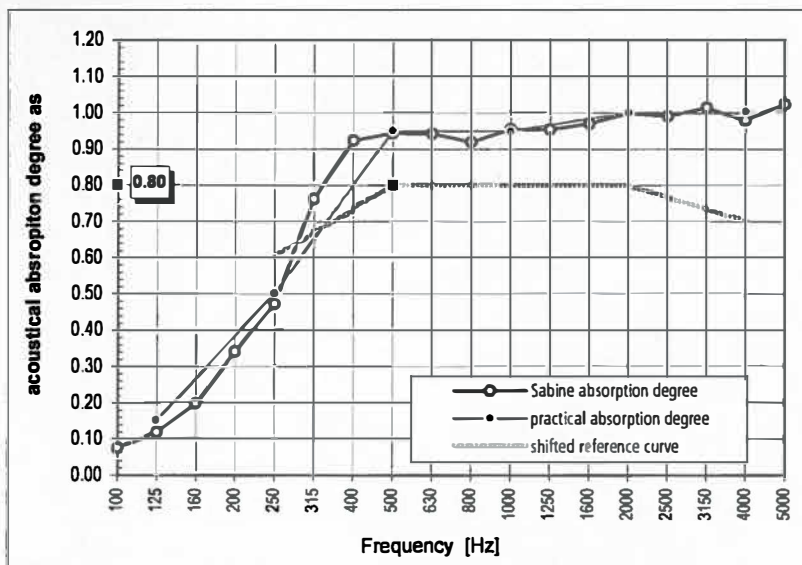
**swisscom****ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)****Specifications**

Product name	HANNAH
Remarks, configuration	panels draped by 100%
Set-up (acc. ISO 354/2nd Ed.:2003)	Type G-150
Probe area	$3.75 \times 2.61 = 9.77 \text{ m}^2$
Temperature	23.6 °C
Relative Humidity	28.6 % r.H.
Volume of the reverberation chamber	214.3 m ³
Measurement No. / Date / Time	Nr. 07 / 01.03.2013 / 13:22
Tested by	Martin Lengacher

No. of measurements 3 each microphone
 No. of used microphone 9
 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_{pl}	α_w
100	20.32	14.21	0.07		
125	17.23	10.94	0.12	0.15	
160	14.32	7.95	0.20		
200	11.14	5.37	0.34		
250	10.91	4.43	0.47	0.50	
315	9.63	3.12	0.76		
400	8.02	2.58	0.92		
500	8.41	2.58	0.94	0.95	0.80 (H)
630	8.16	2.56	0.94		Class "B"
800	7.75	2.56	0.92		
1'000	6.98	2.41	0.95	0.95	
1'250	5.78	2.25	0.95		
1'600	4.99	2.10	0.97		
2'000	4.33	1.94	1.00	1.00	
2'500	3.61	1.79	0.99		
3'150	2.94	1.59	1.01		
4'000	2.26	1.39	0.97	1.00	
5'000	1.70	1.14	1.02		



Error : 100 - 315 Hz : 4.85% 400 - 1250 Hz : 2.26% 1600 - 5000 Hz : 2.21%

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