

ACOUSTIC ABSORPTION MEASUREMENT PROTOCOL (ISO 354, ISO 11654)

Specifications

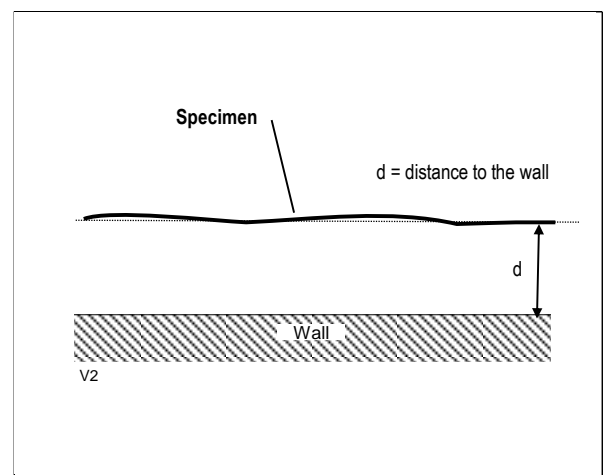
Manufacturer: **BRU Textiles NV, Satenrozen 2A, B-2250 Kontich, Belgium**
 Product name: **FR-One Venere**
 Remarks, configuration: flat panels

Set-up (acc. ISO 354/2nd Ed.:2003)	Type G-150	No. of measurements	3 each microphone
Probe area	4.23 x 2.85 = 12.06 m ²	No. of used microphone	9
Temperature	23.4 °C	Used acoustic Signal	White noise
Relative Humidity	37.7 % r.H.	Empty room measurement	Interpolated values
Volume of the reverberation chamber	214.3 m ³	Dossier No.	14-MO-0116
Measurement No. / Date / Time	Nr. 01 / 17.05.2014 / 12h06'	Archive filename	15BRU.ABS
Tested by	Frank Wyler		

EUT identification

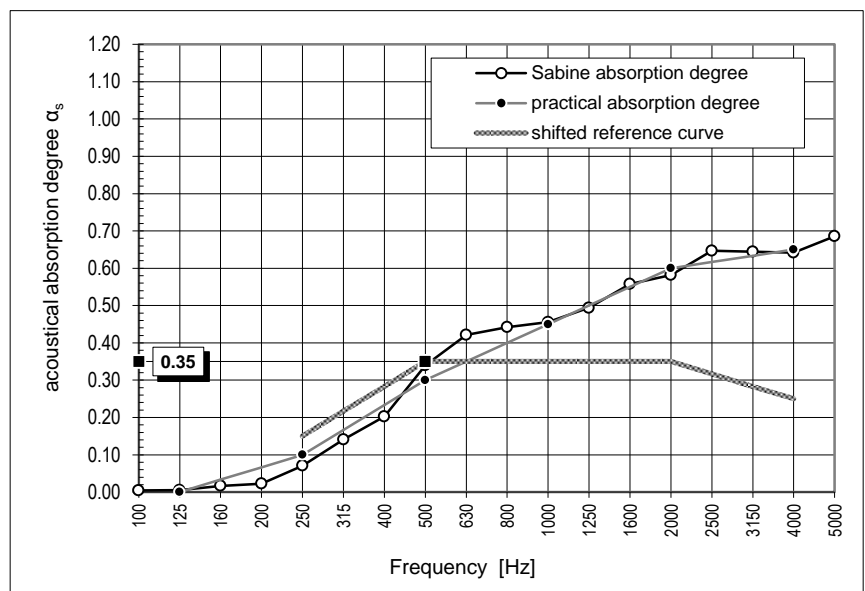


Test set-up



Measurement results (acc. ISO 354, ISO 11654)

Freq. [Hz]	T ₁	T ₂	α _s	α _{pi}	α _w
100	20.94	20.31	0.00	0.00	
125	17.23	16.71	0.01		
160	14.43	13.29	0.02		
200	10.99	10.10	0.02	0.10	
250	11.05	8.67	0.07		
315	9.63	6.52	0.14	0.30	0.35 (HH)
400	7.92	5.07	0.20		
500	8.38	4.19	0.34		
630	8.07	3.68	0.42	0.45	Class "D"
800	7.61	3.49	0.44		
1'000	6.99	3.30	0.46	0.60	
1'250	5.92	2.92	0.49		
1'600	5.22	2.58	0.56		
2'000	4.67	2.39	0.58	0.65	
2'500	3.98	2.09	0.65		
3'150	3.36	1.91	0.64	0.65	
4'000	2.70	1.68	0.64		
5'000	2.13	1.41	0.69		



Error : 100 - 315 Hz : 47.8% 400 - 1250 Hz : 3.30% 1600 - 5000 Hz : 1.93%

LEGEND

α_s = Sabine absorption degree
 T₁ = Reverberation time of the empty room α_{pi} = practical absorption degree
 T₂ = Reverberation time with the test specimen α_w = assessed absorption degree