

Protocol

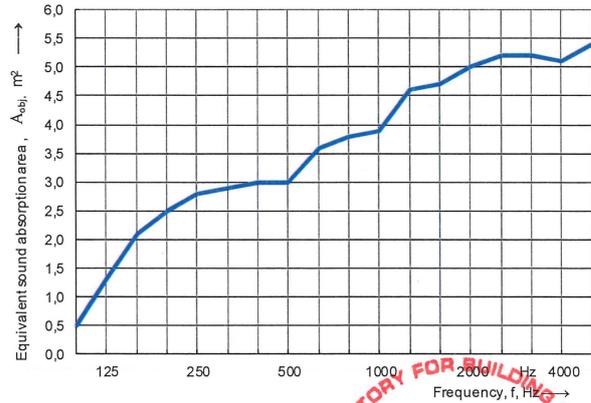
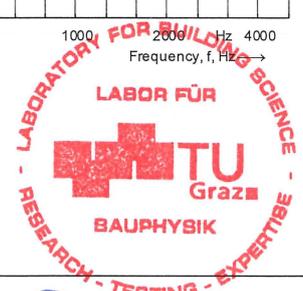
Equivalent sound absorption area according to ISO 354	
Measurement of sound absorption area per object in a reverberation room	
Client:	XAL GmbH, Auer-Welsbach-Gasse 36, AT-8055 Graz
Date of test:	23.05.2023
Description:	Product name: MOVE IT 25 / 45 ACOUSTIC double grid inlay Test according to EN ISO 354. Test performed with reduced number of speaker-microphone-combinations.
Object:	Structure of the test specimen according to EN ISO 354, point 6.2.2. Configuration consisting of a total of 2 pieces of MOVE IT 25 / 45 ACOUSTIC double grid inlay (Dimensions: 2435 mm x 1235 mm, d = 25 mm) randomly distributed at a distance of at least d = 200 cm from each other. Element consisting of PET felt. Distance to the floor created with 4 adjustable feet each, consisting of threaded rods and wooden base. • Test specimen surface per element (front side): 2x ~3,007 m ² = 6,01 m ² • Distance from the floor to the lower edge of the test specimen: ~40 cm • Construction height: d ~425 mm • Weight per element: ~11,58 kg Due to customer request, the graphical representation of the result deviates with regard to the y-axis distance according to EN ISO 354, point 8.3.
Empty reverberation room:	Reverberation room with object
Relative humidity:	55,9 %
Relative humidity:	59,0 %
Temperature:	20,3 °C
Temperature:	20,6 °C
Barometric pressure:	97,3 kPa
Barometric pressure:	97,3 kPa
Surface area:	6,01 m ²
Room volume:	244,3 m ³
Total room area S _t :	240,1 m ²
Frequency f [Hz]	Aobj 1/3 octave [m ²]
100	0,5
125	1,3
160	2,1
200	2,5
250	2,8
315	2,9
400	3,0
500	3,0
630	3,6
800	3,8
1000	3,9
1250	4,6
1600	4,7
2000	5,0
2500	5,2
3150	5,2
4000	5,1
5000	5,4
 <p>The graph shows the equivalent sound absorption area (A_{obj}) in m² on the y-axis (ranging from 0.0 to 6.0) against frequency (f) in Hz on the x-axis (logarithmic scale from 125 to 4000). The curve starts at approximately 0.5 m² at 100 Hz and rises to about 5.4 m² at 5000 Hz, with a notable step increase between 1000 Hz and 2000 Hz.</p>	
	
Name of test institute:	Laboratory for Building Science
No. of test report:	B23-047-A17007-354a_kaso_Aobj
Date:	23.05.2023
Signature:	D.J. Kasim



Figure 1: Exemplary representation of the test specimen (does not correspond to the actual installation situation)