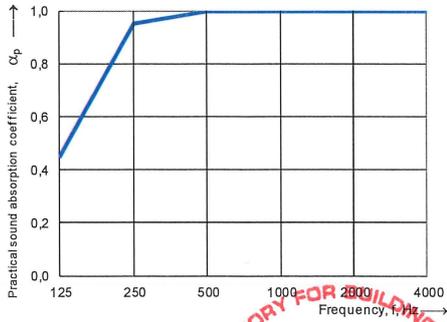


## Protocol

Sound absorption coefficient according to ISO 11654	
Measurement of sound absorption coefficient 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 square grid inlay  Test according to EN ISO 354. Test performed with reduced number of speaker-microphone-combinations. Informative evaluation of individual objects according to EN ISO 11654.  Extract from EN ISO 11654:1997, page 3, 1.2, section 4 - Scope of application: <i>"This International Standard is, in principle, applicable to all building products for which the sound absorption coefficient has been determined in accordance with ISO 354. It is, however, often not suitable for application to single items, such as chairs, baffles, etc., nor is it applicable to road barriers and road surfaces."</i>
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 square grid inlay (Dimensions: 1235 mm x 1235 mm, d = 25 mm) in einem Abstand von mind. d = 200 cm 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): $2 \times \sim 1,525 \text{ m}^2 = 3,05 \text{ m}^2$ • Distance from the floor to the lower edge of the test specimen: $\sim 40 \text{ cm}$ • Construction height: $d \sim 425 \text{ mm}$ • Weight per element: $\sim 5,40 \text{ kg}$
Empty reverberation room:	Reverberation room with object
Relative humidity:	55,9 %
Relative humidity:	59,0 %
Temperature:	20,3 °C
Temperature:	20,5 °C
Barometric pressure:	97,3 kPa
Barometric pressure:	97,1 kPa
Surface area:	3,05 m <sup>2</sup>
Room volume:	244,3 m <sup>3</sup>
Total room area S <sub>T</sub> :	240,1 m <sup>2</sup>
Frequency f [Hz]	$\alpha_p$ 1/1octave
100	0,45
125	
160	
200	0,95
250	
315	
400	1,00
500	
630	
800	1,00
1000	
1250	
1600	1,00
2000	
2500	
3150	1,00
4000	
5000	
	
Classification according to EN ISO 11654:1997 The object corresponds to sound absorber class A according to Table B.1 (Classification of the sound absorber).	
Weighted sound absorption coefficient according to ISO 11654 $\alpha_w = 1,00$ It is strongly recommended to use this single-number rating in combination with the complete sound absorption coefficient curve.	
Name of test institute:	Laboratory for Building Science
No. of test report:	B23-047- A17006-355a_kaso
Date: 23.05.2023	Signature: DI J. Kasim