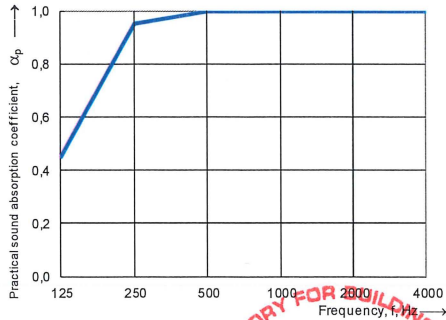


## Protocol

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: $\sim 425 \text{ mm}$ • Weight per element: $\sim 5,40 \text{ kg}$																										
Empty reverberation room:	Reverberation room with object																										
Relative humidity:	55,9 %																										
Temperature:	20,3 °C																										
Barometric pressure:	97,3 kPa																										
	Relative humidity: 59,0 % Temperature: 20,5 °C 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>																										
<table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Frequency f [Hz]</th> <th><math>\alpha_p</math> 1/1octave</th> </tr> </thead> <tbody> <tr><td>100</td><td rowspan="3">0,45</td></tr> <tr><td>125</td></tr> <tr><td>160</td></tr> <tr><td>200</td><td rowspan="3">0,95</td></tr> <tr><td>250</td></tr> <tr><td>315</td></tr> <tr><td>400</td><td rowspan="3">1,00</td></tr> <tr><td>500</td></tr> <tr><td>630</td></tr> <tr><td>800</td><td rowspan="3">1,00</td></tr> <tr><td>1000</td></tr> <tr><td>1250</td></tr> <tr><td>1600</td><td rowspan="3">1,00</td></tr> <tr><td>2000</td></tr> <tr><td>2500</td></tr> <tr><td>3150</td><td rowspan="3">1,00</td></tr> <tr><td>4000</td></tr> <tr><td>5000</td></tr> </tbody> </table>	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	
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																										