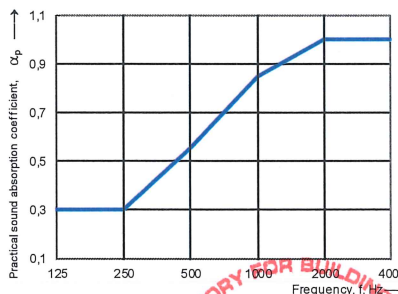


## Protocol

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: 11.06.2025																																						
Description:	Productname: SIVERA 25_295 distance 300 Type: single layer, PET felt																																								
Object:	Test in full accordance with EN ISO 354. Setup of the test specimen in full accordance with EN ISO 354, section 6.2.13 as well as in accordance with Annex B, section B.2 (type A setup) and section B.7 (type J setup).  The setup consists of a total of 12 baffles (external dimensions each: 2970 x 295 mm, L x W, thickness = 25 mm) as well as 3 mounting profiles. The distance between the floor and the mounting profiles (15 mm x 40 mm, W x H) is established using leveling feet (threaded rods with base plate). The baffles are attached to the profiles using mounting clips (3 clips per baffle). The profiles are aligned at a 90° angle to the baffles.  Element made of PET felt, featuring longitudinal grooves on the end faces.  Baffle: SIVERA 25_295 Mounting profile: mounting profile Mounting clips: mounting clip  Circumferential wooden frame construction (MDF, thickness = 15 mm). The joint to the floor is sealed with linseed oil putty.  <ul style="list-style-type: none"> <li>• Test specimen area: 3468 mm x 2970 mm, L x B = 10,30 m²</li> <li>• Surface area per baffle (including longitudinal end faces): 19008 m² (manufacturer data)</li> <li>• Total sound-absorbing surface area of all baffles (including longitudinal end faces): 22,8096 m² (manufacturer data)</li> <li>• Distance from floor to bottom edge of test specimen: 300 mm</li> <li>• Construction height: approx. 595 mm</li> <li>• Baffle spacing (center-to-center distance): 300 mm</li> <li>• Mounting profile spacing (center-to-center distance): 990 mm</li> <li>• Weight per baffle: approx. 3,49 kg (including mounting clips)</li> <li>• Weight per mounting profile: approx. 1,12 kg</li> </ul>																																								
Empty reverberation room:	Relative humidity: 57,8 % Temperature: 22,0 °C Barometric pressure: 98,3 kPa		Reverberation room with object Relative humidity: 58,1 % Temperature: 22,2 °C Barometric pressure: 97,8 kPa																																						
Surface area:	10,30 m²																																								
Room volume:	244,3 m³																																								
Total room area $S_T$ :	240,1 m²																																								
<table border="1"> <thead> <tr> <th>Frequency f [Hz]</th> <th><math>\alpha_p</math> 1/1 octave</th> </tr> </thead> <tbody> <tr><td>100</td><td></td></tr> <tr><td>125</td><td>0,30</td></tr> <tr><td>160</td><td></td></tr> <tr><td>200</td><td></td></tr> <tr><td>250</td><td>0,30</td></tr> <tr><td>315</td><td></td></tr> <tr><td>400</td><td></td></tr> <tr><td>500</td><td>0,55</td></tr> <tr><td>630</td><td></td></tr> <tr><td>800</td><td></td></tr> <tr><td>1000</td><td>0,85</td></tr> <tr><td>1250</td><td></td></tr> <tr><td>1600</td><td></td></tr> <tr><td>2000</td><td>1,00</td></tr> <tr><td>2500</td><td></td></tr> <tr><td>3150</td><td></td></tr> <tr><td>4000</td><td>1,00</td></tr> <tr><td>5000</td><td></td></tr> </tbody> </table>	Frequency f [Hz]	$\alpha_p$ 1/1 octave	100		125	0,30	160		200		250	0,30	315		400		500	0,55	630		800		1000	0,85	1250		1600		2000	1,00	2500		3150		4000	1,00	5000				
Frequency f [Hz]	$\alpha_p$ 1/1 octave																																								
100																																									
125	0,30																																								
160																																									
200																																									
250	0,30																																								
315																																									
400																																									
500	0,55																																								
630																																									
800																																									
1000	0,85																																								
1250																																									
1600																																									
2000	1,00																																								
2500																																									
3150																																									
4000	1,00																																								
5000																																									
Classification according to EN ISO 11654:1997 Acc. to table B.1 (Sound absorber classification), the specimen is classified as sound absorber class D.																																									
Weighted sound absorption coefficient according to ISO 11654 $\alpha_w = 0,55$ (M1) It is strongly recommended to use this single-number rating in combination with the complete sound absorption coefficient curve.																																									
Name of test institute:	Labor für Bauphysik																																								
No. of test report:	B25-044-A17011-355a_kaso																																								
Date: 11.06.2025	Signature: DI J. Kasim																																								