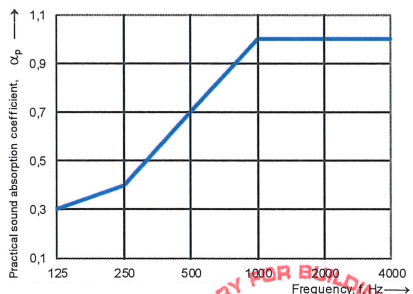


## Protocol

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 100 Type: single layer, PET felt																																						
Object:	<p>Test in full accordance with EN ISO 354.</p> <p>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).</p> <p>The setup consists of a total of 34 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.</p> <p>Element made of PET felt, featuring longitudinal grooves on the end faces.</p> <p>Baffle: SIVERA 25_295 Mounting profile: mounting profile Mounting clips: mounting clip</p> <p>Circumferential wooden frame construction (MDF, thickness = 15 mm). The joint to the floor is sealed with linseed oil putty.</p> <ul style="list-style-type: none"> <li>• Test specimen area: 3468 mm x 2970 mm, L x W = 10,30 m²</li> <li>• Surface area per baffle (including longitudinal end faces): 1,9008 m² (manufacturer data)</li> <li>• Total sound-absorbing surface area of all baffles (including longitudinal end faces): 64,6272 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): 100 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:	Reverberation room with object																																						
Relative humidity:	57,8 %																																						
Temperature:	22,0 °C																																						
Barometric pressure:	98,3 kPa																																						
	57,1 %																																						
	22,4 °C																																						
	97,7 kPa																																						
Surface area:	10,30 m²																																						
Room volume:	244,3 m³																																						
Total room area $S_0$ :	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>0,40</td></tr> <tr><td>315</td><td></td></tr> <tr><td>400</td><td></td></tr> <tr><td>500</td><td>0,70</td></tr> <tr><td>630</td><td></td></tr> <tr><td>800</td><td></td></tr> <tr><td>1000</td><td>1,00</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	0,40	315		400		500	0,70	630		800		1000	1,00	1250		1600		2000	1,00	2500		3150		4000	1,00	5000		
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Classification according to EN ISO 11654:1997 Acc. to table B.1 (Sound absorber classification), the specimen is classified as sound absorber class C.																																							
Weighted sound absorption coefficient according to ISO 11654 $\alpha_w = 0,70$ (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-A17013-355a_kaso																																						
Date:	11.06.2025																																						
Signature:	DI J. Kasim																																						