

## Measurement of sound absorption in a reverberation room ISO 354

Laboratory measurements of the sound absorption coefficient in a reverberation room

Manufacturer: Biçer Proje İnşaat Dek. San. Tic. Ltd. Şti.  
Client: Biçer Proje İnşaat Dek. San. Tic. Ltd. Şti.  
Test specimen mounted by: BLX-ARL  
Description of test specimen: Feltbi Akustik Sert Keçe

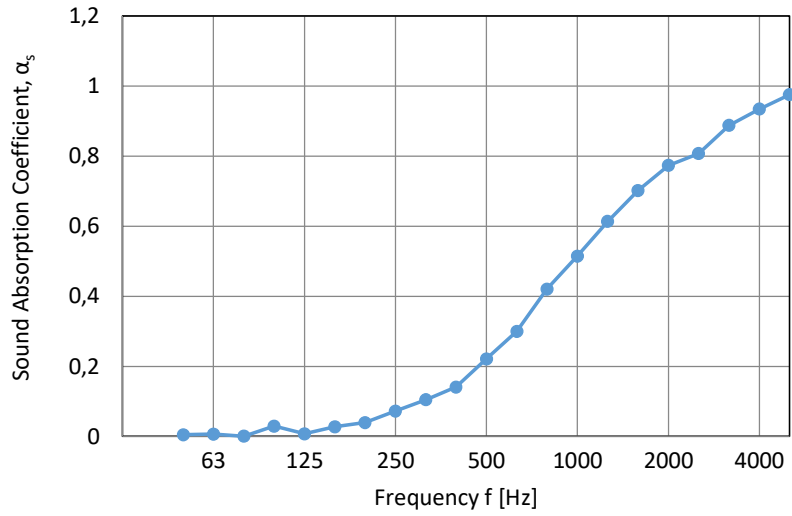
Date of test: 11.03.2025



Without specimen:  $\theta$ [°C] 15,7 rH[%] 68 P[hPa] 1009  
With specimen:  $\theta$ [°C] 15,9 rH[%] 67 P[hPa] 1009

Room: 01  
Volume: 223.2 m<sup>3</sup>  
Specimen Area: 12,3 m<sup>2</sup>

Frequency f [Hz]	$\alpha_s$ 1/3 Octave	$\alpha_p$ Octave
50	0,0	
63	0,0	0,00
80	0,0	
100	0,0	
125	0,0	0,02
160	0,0	
200	0,0	
250	0,1	0,07
315	0,1	
400	0,1	
500	0,2	0,22
630	0,3	
800	0,4	
1000	0,5	0,52
1250	0,6	
1600	0,7	
2000	0,8	0,76
2500	0,8	
3150	0,9	
4000	0,9	0,93
5000	1,0	



$\alpha_s$  Sound absorption coefficient according to ISO 354

$\alpha_p$  Practical sound absorption coefficient according to ISO 11654

Rating according to ISO 11654:

**Weighted sound absorption coefficient**

$\alpha_w = 0,30$

Sound absorption class: **D**

Rating according to ASTM C423:

**Noise Reduction Coefficient NRC = 0,4**

**Sound Absorption Average SAA = 0,39**

No of Test Report: BLX-R-SA-233

Name of test institute: BLX ACOUSTIC RESEARCH LAB.

Tested by  
Salih Okan ERCAN

Reported by  
Güven Elban

Approved by  
Erda KARA

