Z Lab Srl



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REPORT N. 048-2021-CR Eng

UNI EN ISO354:2003 ACOUSTIC ABSORPTION MEASUREMENT IN REVERBERATION ROOM

Issue place and date: Cerea (VR), 21/11/2022

Committee: CENTRUFFICIO LORETO SPA- CUF MILANO

Address committee:: Viale Andrea Doria, 17 – 20124 Milano

Sample delivery date:3rd November 2021

Sampleprovenance: CENTRUFFICIO LORETO SPA- CUF MILANO

Sample installation date: 4th November 2021

Sample installed in laboratory by:Committee (sampling made by the committee)

Test date: 4th November 2021

Test location: Z Lab S.r.l. - Via Pisa, 7 - 37053 Cerea (VR) - Italia

Sample denomination: SHAPES - thickness50 mm

Mounting Type: Mounting A





PREPARED	VERIFIED	APPROVED
Sabato Di Filippo	Antonio Scofano	Antonio Scofano

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LAB Nº 1416 L

Acoustic absorption calculation in reverberation room according to UNI EN ISO 354:2003

10,97 m²

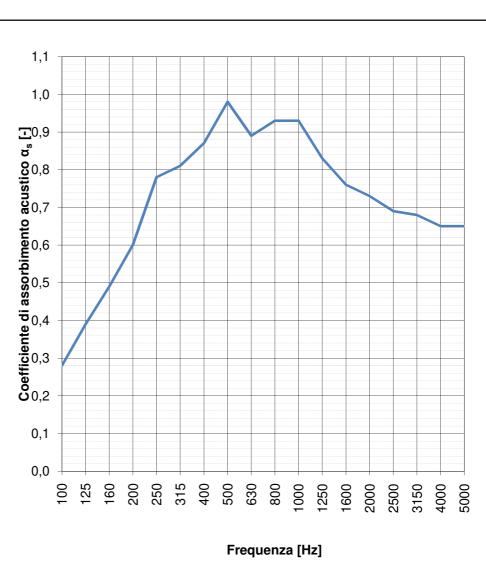
161,3 m³

Sample description:SHAPES - thickness50 mm Mounting Type:Mounting A

Sample area:

Reverberation room volume:

f [Hz]	αs[-]	ſ
Frequency	Acoustic absorption coefficient values	
100	0,28	
125	0,39	
160	0,49	
200	0,60	
250	0,78	
315	0,81	
400	0,87	
500	0,98	
630	0,89	
800	0,93	
1000	0,93	
1250	0,83	
1600	0,76	
2000	0,73	
2500	0,69	
3150	0,68	
4000	0,65	
5000	0,65	



Evaluation based on laboratory measurement results by means of a technical method.

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LAB Nº 1416 L

Acoustic absorption calculation in reverberation room according to UNI EN ISO 11654:1998

Sample description:SHAPES - thickness50 mm Mounting Type:Mounting A

Sample area: Reverberation room volume: 10,97m² 161,3 m³

				Valori r	misurati αpi	←-Curva di ri	ferimento Curv	va traslata
f [Hz]	α _P [-]	acustico	1,0					
Frequency	Practical acoustic absorption coefficient values	nto	0,9 0,8 0,7					
125	0,40	bime	0,6		e e e e			
250	0,75	ssor	0 ,5					
500	0,90	di assol	0 ,4					
1000	0,90		0,3	-				
2000	0,75	ficie	0,2					
4000	0,65	Coefficiente	0,1 0,0					
				125		ے Frequenza [Hz	500 []	0 0 0 0

STANDARD EVALUATION INDEX:

~	0,8	Weighted acoustic sound absorption coefficient	UNI EN ISO
uw	CLASS B	Sound Absorption Class **	11654:1998

Evaluation based on laboratory measurement results by means of a technical method.

** Classification of acoustic absorbers: The unique aw evaluation index is used to calculate the absorption class according to the following table:

CLASS	α _w	
А	0.9 - 0.95 - 1.00	
В	0.8 - 0.85	
С	0.6 - 0.65 - 0.7 - 0.75	
D	da 0.3 a 0.55	
Е	0.15 - 0.2 - 0.25	
NC	0.00 - 0.05 - 0.1	

Laboratory Manager, Ing. Antonio Scofano		
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