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REPORT N. 054-2021-CR Eng

UNI EN ISO 354:2003 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

Sample provenance: 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: PO - Acoustic panels collection

Mounting Type: Mounting E475





LAB N° 1416 L

PREPARED	VERIFIED	APPROVED
Sabato Di Filippo	Antonio Scofano	Antonio Scofano



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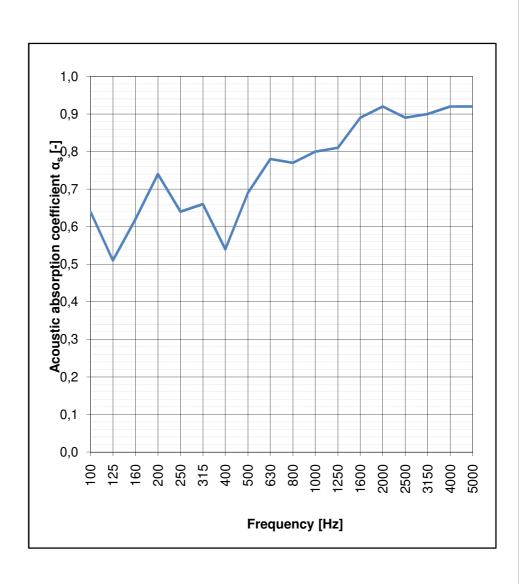
Acoustic absorption calculation in reverberation room according to UNI EN ISO 354:2003

Sample description: PO - Acoustic panels collection

Mounting Type: Mounting E475

Sample area: 11,34 m² Reverberation room volume: 161,3 m³

f [Hz]	α _S [-]
Frequency	Acoustic absorption coefficient values
100	0,64
125	0,51
160	0,62
200	0,74
250	0,64
315	0,66
400	0,54
500	0,69
630	0,78
800	0,77
1000	0,80
1250	0,81
1600	0,89
2000	0,92
2500	0,89
3150	0,90
4000	0,92
5000	0,92



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



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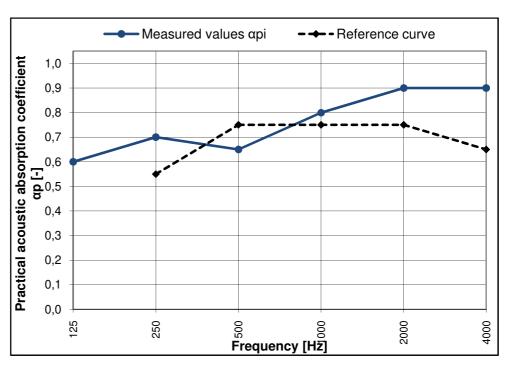
Acoustic absorption calculation in reverberation room according to UNI EN ISO 11654:1998

Sample description: PO

Mounting Type: Mounting E475

Sample area: 11,34 m² Reverberation room volume: 161,3 m³

f [Hz]	α _p [-]
Frequency	Practical acoustic absorption coefficient values
125	0,60
250	0,70
500	0,65
1000	0,80
2000	0,90
4000	0,90



STANDARD EVALUATION INDEX:

~	0,75 (H)	Weighted acoustic sound absorption coefficient and shape indicator *	UNI EN ISO
α_w	CLASS C	Sound Absorption Class **	11654:1998

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

* It is strongly recommended to use this unique rating index in combination with the curve of the full acoustic absorption coefficient.

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

CLASS	α_{w}	
Α	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	
E	0.15 - 0.2 - 0.25	
NC	0.00 - 0.05 - 0.1	

Laboratory Manager, Ing. Antonio Scofano