



TEST REPORT OF ACCREDITED LABORATORY No. 415601178-01

Customer: ALPHA CZECH s.r.o.
Company ID: 09359311

Address: Pražákova 1008/69, Štýčice, 639 00 Brno

Test: Determination of the sound absorption coefficient in a reverberation chamber in accordance with ČSN EN ISO 354, ČSN EN ISO 11654

Subject of test: Date of THRcoating ALPHA INNER interior coating

sample receipt: Date of 11 March 2024

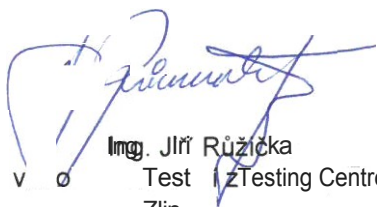
test: Report prepared by: 13 March 2024

Ing. Martin Jur a

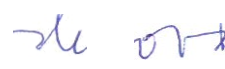
Place and date of issue:

Attachments: Zlín, 09.04.2024

Product technical specification provided by the customer – 1 page


Ing. Jiří Růžicka
Test Testing Centre
Zlín




Ing. Petra Hrdinová
Head of the accredited testing laboratory

Note: The results listed in this document are based solely on the sample test, as it was conducted. Without the express consent of the Institute for Testing and Certification, a.s., the report may not be reproduced in any form other than in its entirety!

Subject of the test:

Table No. I – Description and identification of the test subject

Registration Válo ITC	Customer's designation of the test item/sample	Description
415601178/1	THRcoating ALPHA INNER interior coating	see the relevant entry on page 5

Method of sample collection:

The sample tested, registered under number 415601178/1, was delivered to the laboratory by the customer. The laboratory is not responsible for the method of sample collection.

Documentation supplied by the customer:

Product technical specification — Appendix, page 1.

Assignment:

Determination of the sound absorption coefficient in a reverberation chamber.

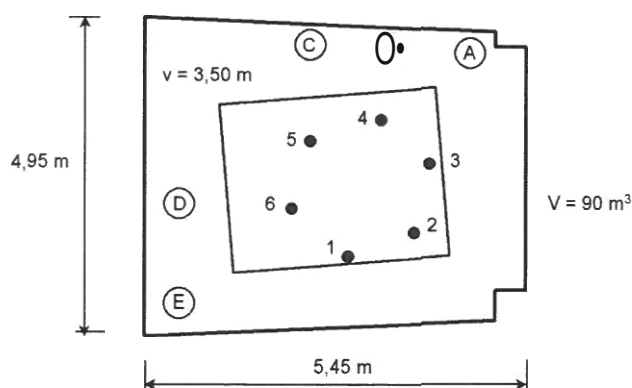
Test methods used:

1. Determination of the sound absorption coefficient in a reverberation chamber in accordance with ČSN EN ISO 354, ČSN EN ISO 11654.

Test conditions:

The absorption coefficient is determined in accordance with ČSN EN ISO 354 based on measurements of the reverberation time of an empty reverberation chamber and a chamber containing a sample. The shape of the reverberation chamber, the location of the sample, the position of the test signal source and the position of the microphone are shown schematically in Fig. 1.

Fig. 1. Floor plan of the reverberation chamber



A- E... positions of the test signal source 1- 6
... microphone positions

The system uses seven diffusing elements: one measuring $1.0 \text{ m} \times 1.5 \text{ m}$, three measuring $0.8 \text{ m} \times 1.2 \text{ m}$, and three measuring $1.0 \text{ m} \times 1.0 \text{ m}$.

Note: The results recorded in this test report are based on a sample taken from the production batch. This report may not be reproduced without the express consent of the Institute for Testing and Certification, a.s.



Equipment used:

— Norsonic RTA 840 analyser	A-P/024
- B.K. microphones	A-P/002
AM-39 amplifier	3/A
omnidirectional sound source	2/A

Further test conditions are set out in the measurement record on page 5.

Deviations from the standard test conditions:

The volume of the reverberation chamber and the surface area of the sample are smaller than those specified in ČSN EN ISO 354, Clause 6.

The laboratory accepts no responsibility for information provided by the customer which may affect the validity of the test results.

Test location:

The test was carried out at workplace no. 1 – K Cihelné 304, 763 02 Zlín — Louky.

Test results:

Table No. II – Test results

Interior coating THRcoating ALPHA INNER				
Frequency f (Hz)	Reverberation time of an empty room T1 (s) room with sample T2 (S)		Sound absorption coefficient as (—)	Practical absorption coefficient α _p (—)
100	12.29	9.84	0.02	0.05
125	7.88	7.17	0.01	
160	7.47	6.73	0.01	
200	7.18	6.04	0.03	0.10
250	6.39	5.02	0.04	
315	6.42	4.78	0.06	
400	5.93	4.25	0.08	0.15
500	5.71	4.06	0.11	
630	5.70	4.03	0.12	
800	5.13	3.74	0.12	0.10
1000	4.95	3.82	0.10	
1250	4.61	3.70	0.10	
1600	4.30	3.55	0.09	0.10
2000	3.86	3.27	0.09	
2500	3.37	2.92	0.09	
3150	2.86	2.57	0.08	0.05
4,000	2.37	2.19	0.07	
5000	1.91	1.79	0.07	
Total sound absorption coefficient			= 0.10	
Classification according to ČSN EN ISO 11654: sound absorption class Not classified				

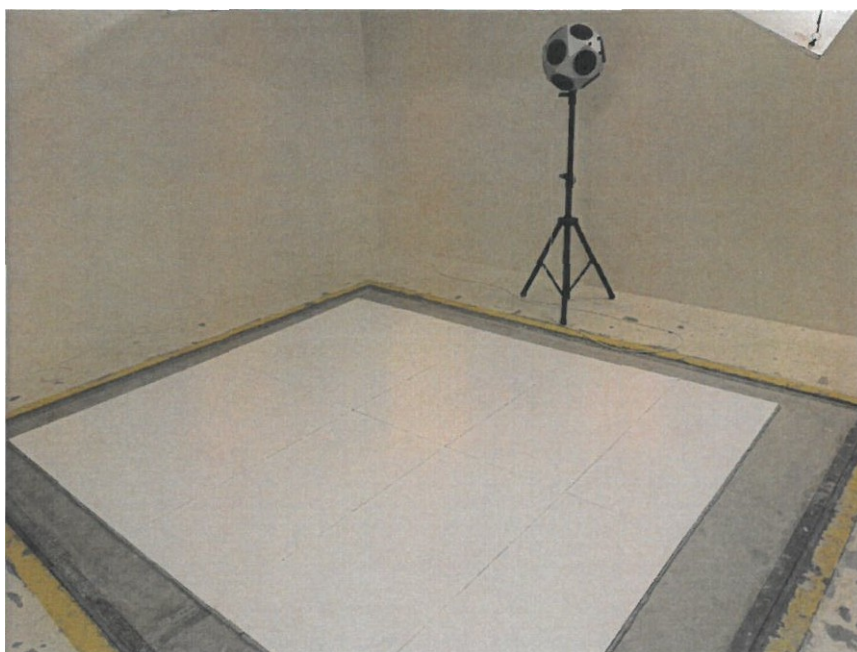
Please note: The information provided in this introductory section applies only to the sample in question. It must not be reproduced in any form without the written consent of Insuluf for Testing and Certification, a.s.



Measurement uncertainty

Measurement uncertainty is expressed in accordance with ČSN EN ISO 354 using repeatability indices r , which are values below which, with a probability of 95%, the absolute values of the differences in test results carried out under the specified conditions will lie. For values of the absorption coefficient, the repeatability indices r range in the range of 0.01 to 0.05 (-).

Photographic documentation of the test sample:



Note: The findings set out in the final report are confidential; unless written consent has been obtained from the Institute for Testing and Certification, a.s., the report must not be reproduced in any form.



Measurement of sound absorption coefficient according to ČSN EN ISO 354, ČSN EN 11654		Test number: 48/24																																										
Client: ALPHA CZECH s.r.o., Pražákova 1008/69, Štýřice, 639 00 Brno																																												
Test date: 13 March 2024																																												
Test subject: white-coloured insulating coating material. Description: The sample consists of 8 OSB boards, each 630 mm × 1260 mm in size and coated with a layer of paint, and 2 OSB boards, each 510 mm × 1260 mm in size. Thickness of the uncoated OSB board: 12.0 mm; thickness of the coated OSB board: 12.4–13.4 mm. Coating thickness: 0.4–1.4 mm. Test specimen dimensions: 2.5 m × 3.0 m. Density: 7.6 kg/m ² . Sample number: 415601178/1																																												
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End of the report

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CSI Division – Centre for Civil Engineering
Zlín Construction Testing Laboratory, K Cihelně 304, 763 02 Zlín - Louky



Testing Laboratory No. 1007.1 accredited by ČIA in accordance with ČSN EN ISO/IEC 17025:2018

Appendix – page:1 /3

No. 415601178-01

Technický a materiálový list

ALPHA INNER



*Reflexně izolační
nátěry*

soubory ke stažení



Číslo šarže: etiketa

Datum výroby: etiketa

Datum expirace: 12 / 24 měsíců / etiketa

Poslední revize: 15.11.2023

Verze: 01 Pouze pro profesionální použití



Please note: The results stated in this test report apply only to the sample tested, as received.
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Technický a materiálový list

ALPHA INNER

Nátěrová hmota ALPHA INNER je interiérový nátěr pro použití na stěny obytných a kancelářských budov. Odolný vůči nečistotám, odolává plísním. Svými vlastnosti vyvolává synergický efekt ve snižování povrchového přenosu tepla a tím nátěr dokáže uspořit významné částky na energiích potřebných pro vytápění nebo chlazení.

Nátěrová hmota ALPHA INNER je navržena jako vnitřní „izolace“ pro zvýšení efektu odrazivosti tepelné energie zpět do místnosti. Nátěrová hmota pracuje na principu pohlcení tepelného záření a následného vyzáření zpět do vytápěného prostoru. Nátěr je netoxický šetrný k životnímu prostředí a zdravotně nezávadný.

Hlavní vlastnosti

- Vnitřní interiérový nátěr
- V zimních měsících zabraňuje únikům tepla z objektu
- V letních měsících zabraňuje přehřívání objektu a vytváří příjemné klima uvnitř
- Významně snižuje náklady na energii pro chlazení nebo vytápění
- Zamezuje vzniku plísní na stěnách
- Odolává povrchové kondenzaci
- Možnost probarvení odstínů dle škály RAL

Použití

Nátěr ALPHA INNER se používá jako vnitřní interiérový nátěr.

Technické vlastnosti

Teoretická spotřeba ¹	0,1 litrů / m ² / tl. vrstvy 150 μm
	0,24 litrů / m ² / tl. vrstvy 180 μm
	0,30 litrů / m ² / tl. vrstvy 200 μm
Praktická spotřeba	Praktické spotřeba závisí na mnoha faktorech, jako je poréznost, drsnost podkladu a ztráty materiálu během aplikace.
Ředění	300 ml čisté vody



Reflexně izolační
nátěry

Technický a materiálový list

ALPHA INNER

Doporučená vrstva mokrého filmu	300 µm
Míchání	Vždy celé balení po otevření, stavebním míchadlem nebo šnekovým míchadlem na vrtačce, při cca 150 ot./min.
Míchání v průběhu delší aplikace	Každých 30 minut rozmíchat
Airless zařízení	průtok 5,3 l/min
Airless trysky	525, tlak 120 barů
Balení	18 litrů / 9,88 kg
Hustota	0,54 g/cm ³
Vzhled	Bílá, bělost 96 %
Barevnost	Ano, vodou ředitelnou pastou/pigmentem
Stupeň lesku	Mat
Zápach	Bez zápachu
Doba použitelnosti ²	24 měsíců, nesmí zmrznout
Bod vzplanutí	Nehořlavé

Přetíratelnost a doba zrání ³

Na dotyk	1 hodinu
Pro manipulaci	2 hodiny
Pro další vrstvu	3 hodiny
Plně proschlé	24 hodin

Bezpečnostní pokyny

Prostudujte Technický a Bezpečnostní list

1 Spotřeba závisí na podkladu

2 Uchovávané v originálních a uzavřených obalech při teplotě mezi +5 °C - +35 °C

3 Při +20 °C a 50 % PH