

Test Report No. VNHL2304010301HG Date: May 22, 2023 Page 1 of 6

AN CUONG WOOD – WORKING JOINT STOCK COMPANY

PLOT NO. 681, MAP 05, DT 747B STREET, PHUOC HAI QUARTER, THAI HOA WARD, TAN UYEN CITY, BINH DUONG PROVINCE, VIETNAM

The following sample(s) was/were submitted and identified by the client as:

SGS Job No. : VNHL2304010301HG

Sample Description : 1/ ACOUSTIC PANEL 600X2400X21MM

(SAMPLE SIZE 600X2000X21MM ACCORDING TO STANDARD

REQUIREMENT)

Color : WOODGRAIN ON BLACK POLYESTER

Characteristic : HDF

Country of Origin : VIETNAM

Country of Destination : LOCAL/EXPORT

As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Sample Receiving Date : APRIL 26, 2023

Final Confirmed Date : APRIL 26, 2023

Testing Period : APRIL 26, 2023 TO MAY 22, 2023

Test Requested : PLEASE REFER TO RESULT SUMMARY.

Test Results : PLEASE REFER TO NEXT PAGE(S).

Result Summary

Test Requested	Conclusion
Sound Absorption Coefficient	See result

Signed for and on behalf of



Ung Thanh Van

Hardline SBU Manager

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Test Results:

Sample Description:

No	Component(s)	Material	Color
1	1/ ACOUSTIC PANEL 600X2400X21MM (SAMPLE SIZE 600X2000X21MM ACCORDING TO STANDARD REQUIREMENT)	HDF	AS RECEIVED

Sound Absorption Coefficient

I. Test Method

EN ISO 354:2003 Acoustics – Measurement of sound absorption in a reverberation room.

II. Sample Details

Dimensions	2000mm×600mm×21mm
Surface Density	About 9.51kg/m ²

III. Test Condition

Ambient Temperature	21.0℃	Relative Humidity	61.7%RH
Volume Reverberation			12.60m²
Room	260m ³	Test Area	(4.00m×3.15m)
Description of Test	The installation of specimen refers to type A mounting. The specimen is placed directly in the reverberation room, covered with a frame around the perimeter edges.		
·			
Arrangement			

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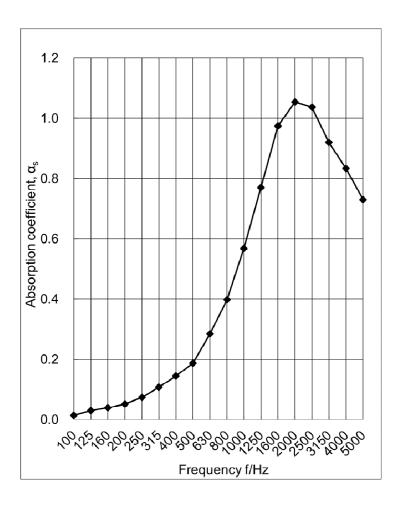
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IV. Test Result

	Absorption
Frequency/Hz	-
	Coefficient/α _s
100	0.01
125	0.03
160	0.04
200	0.05
250	0.07
315	0.11
400	0.14
500	0.19
630	0.28
800	0.40
1000	0.57
1250	0.77
1600	0.97
2000	1.05
2500	1.04
3150	0.92
4000	0.83
5000	0.73
Φs	0.46
NRC	0.45



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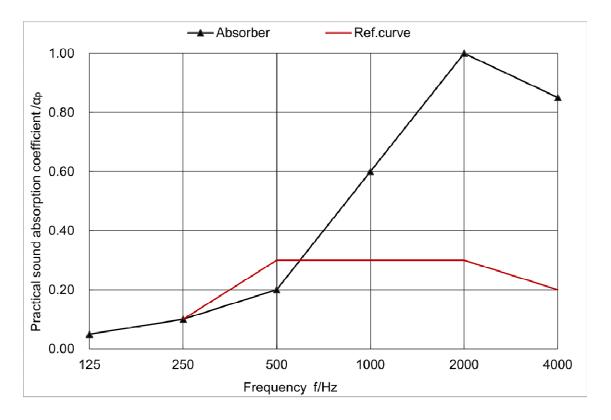


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	Reference	Practical Sound	Weighted Sound	Sound
Frequency/Hz		Absorption Coefficient,	Absorption Coefficient,	Absorption
	Curve	α_{p}	α_{w}	Classes
125	-	0.05		
250	0.10	0.10		
500	0.30	0.20	0.30(MH)	Class D
1000	0.30	0.60	0.00(Wii i)	Olass D
2000	0.30	1.00		
4000	0.20	0.85		



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V. Weighted Sound Absorption Coefficient:

Calculated according to EN ISO 11654:1997:

Average Absorption Coefficient ās (100Hz~5000Hz): 0.46

Noise Reduction Coefficient: NRC=0.45

Weighted sound absorption coefficient: αw=0.30(MH)

Sound absorption classes: Class D

Note:

1. According to EN ISO 11654:1997, Sound absorption classes is five: Class A αw=0.90;095;1.00

Class B $\alpha w = 0.80; 0.85$

Class C αw=0.60;0.65;0.70;0.75

Class D $\alpha w=0.30;0.35;0.40;0.45;0.50;0.55$ Class E $\alpha w=0.15;0.20;0.25$

Not classified αw=0.00;0.05;0.10

- 2. Shape indicators, L, M, H: Indication showing practical sound absorption coefficient exceeding those of the shifted reference curve by 0.25 or more in different frequency ranges as specified in this international standard.
- 3. It is strongly recommended to use this single-number rating(αw) in combination with the complete sound absorption coefficient curve that can be obtained on request.
- 4. NRC is the arithmetic average of absorption coefficient contained four octave frequency bands (250, 500, 1000, 2000 Hz).
- 5. This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

Appendix information: The above test was carried out by other laboratory in SGS group.

Remark: This / these test(s) was / were performed by SGS China's lab.

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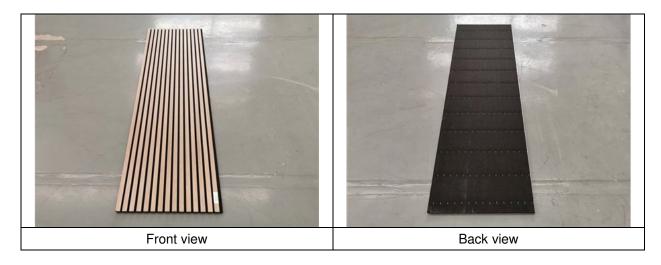


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PHOTO OF SUBMITTED SAMPLE FOR TESTING



REPORT RESULTS REFER TO SUBMITTED SAMPLE(S) ONLY

*** End of Report ***

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