

CHEUNG KEE CANVAS LTD
G/F,352,RECLAMATION STREET,KOWLOON,HONG KONG

Sample Description : PVC TARPAULN
Item No. : CK 2009 NOISE BARRIER

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Nov 30, 2024
Test Performing Date : Dec 04, 2024 to Jan 14, 2025
Test Performed : Selected test(s) as requested by applicant

Test Result Summary

Table with 5 columns: No., Test item, Test(s) Requested, Result(s), Comments. Row 1: 1, Airborne sound insulation, ISO 10140-2-2010, Refer to next page(s), /

For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Handwritten signature of Peter Zhao

Peter Zhao
Authorized Signatory

Scan to see the report



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Test Information:

Sample Description: See photo

Test condition:

- 1) Volume of source room:88.6m³, Volume of receive room :67.9m³;
- 2) Temperature: 15°C; Relative humidity: 49%.
- 3) Specimen: An sample is mounted on a 500 mm thick composite sound insulation wall with an area of 2.2 square meters.

Test accordance:

Measurement according to ISO 10140-2-2010 'Acoustics -- Laboratory measurement of sound insulation of building elements -- Part 2: Measurement of airborne sound insulation' and ISO 717-1-2013 'Acoustics -- Rating of sound insulation in buildings and of building elements -- Part 1: Airborne sound insulation'.

The sound insulation R of the tested part is calculated as follows:

$$R = L_1 - L_2 + 10 \lg \frac{S}{A} \text{ dB} \quad (1)$$

Where

L_1 is the average sound pressure level in the source room, in decibels;

L_2 is the average sound pressure level in the receiving room, in decibels;

S is the area of the test specimen, in square meters, which is equal to the free test opening(10.3m²);

A is the equivalent sound absorption area in the receiving room, in square meters.

Test Instruments

B&K 2270 Investigation

Power amplifier B&K 2716

Omni directional speaker B&K 4292

Microphone B&K 4189

and accessories.



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Test Result:

Sample construction	PVC Tarpaulin	
Test item	Airborne Sound Insulation	
Test Result		
Frequency f (Hz)	Airborne Sound Pressure Level (dB)	
100	5.0	
125	4.3	
160	10.8	
200	9.7	
250	10.1	
315	10.3	
400	10.0	
500	11.3	
630	12.5	
800	13.9	
1000	15.7	
1250	17.4	
1600	17.7	
2000	19.2	
2500	20.8	
3150	22.9	
4000	24.4	
5000	26.3	
Rw (C;Ctr)	16 (-1;-3)	

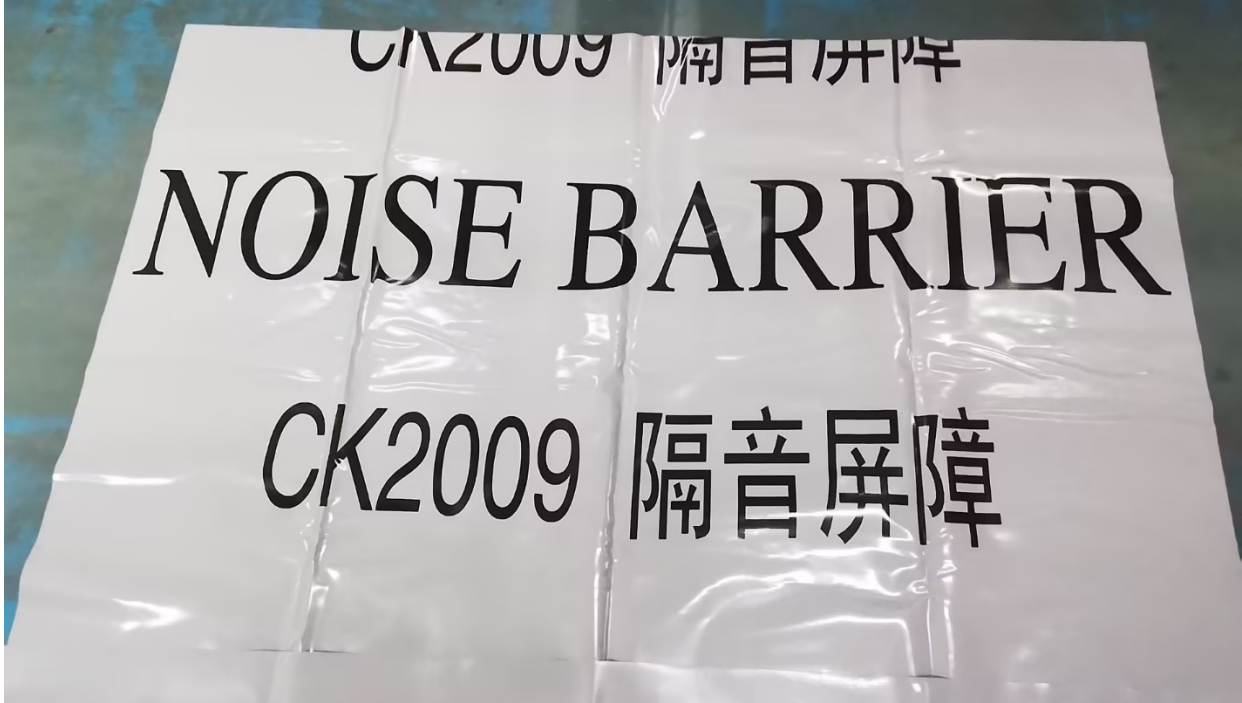


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Photo Appendix:



Remark: This test was subcontracted to South China University of Technology.

End of Report



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