

No.SDHL2304006349FT

Date: Apr 19, 2023

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ONMUSE INDUSTRIAL LIMITED

ROOM D, 10/F., TOWER A, BILLION CENTRE, 1 WANG KWONG ROAD, KOWLOON BAY, KOWLOON, HONGKONG

Sample Description	: MOVABLE SILENCE BOOTH / MOVABLE SILENCE CABINET						
Country of Origin	: CHINA						

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.

Ref No.	: 230316-2
Test Performing Date	: Mar 10, 2023
Test project	: Speech Level Reduction
Test Result(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

Maris Long

Marco Leung Authorized Signatory





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1. Test Condition

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- 1) Volume of reverberation room: $200m^3$;
- 2) Specifications:size W1000×D1000×H2200;
- 3) Temperature:21°C, Relative humidity:65%;

2. Method of Measurement

The measurements were carried out according to 'Acoustics — Measurement of speech level reduction of furniture ensembles and enclosures —Part 1: Laboratory method (ISO 23351-1:2020(E)' in the acoustic laboratory of South China University of Technology. **The level reduction of the test specimen** D_i shall be calculated by the following formula:

$$D_i = L_{w,p,1,i} - L_{w,p,2,i}$$
(1)

Where

 $L_{w,p,l,i}$ is the sound power level [dB re 1 pW] radiated by the reference box without the test specimen when the sound source is on; dB;

 $L_{w,p,2,i}$ is the sound power level [dB re 1 pW] radiated by the reference box with the test specimen when the sound source is on; dB;

The calculation of $D_{S,A}$ is based on a mathematical transformation where the sound power level $L_{w,p,l,i}$ is replaced by the standardized sound power level of speech, $L_{w,s,l,i}$ given in Table 1. In this case, the sound power level radiated by the test specimen, $L_{w,s,2,i}$ is determined by the following formula:

$$L_{w,s,2,i} = L_{w,s,1,i} - D_i$$
 (2)

Where

 $L_{w,s,1,i}$ is the standardized sound power level of speech, given in Table 1; dB;

 $L_{w.s.2,i}$ is determined by Formula (2); dB;

The A-weighted sound power level $L_{w,s,A,2}$ radiated by the test specimen within the frequency range from 125 Hz to 8 000 Hz is determined by the following formula:

$$L_{w,s,A,2} = 10\log_{10}\left(\sum_{i=1}^{7} 10^{(L_{w,s,2,i}+A_i)/10}\right)$$
(3)

where

 A_i is the A-weighting for 1/1-octave frequency band i.

The speech level reduction $D_{S,A}$ is determined by the following formula:

$$D_{S,A} = L_{w,s,A,1} - L_{w,s,A,2}$$
(4)

where

 $L_{w,p,A,1}$ = 68.4 dBA is the A-weighted sound power level of standardized speech within the entire frequency range from 125 Hz to 8000 Hz.





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Table 1 — Unweighted sound power level of genderless speech

	1/1-octave frequency band f Hz							
	125	250	500	1000	2000	4000	8000	
<i>L</i> _{<i>w,s,1</i>} [dB re 1 pW]	60.9	65.3	69.0	63.0	55.8	49.8	44.5	

Table 2 — Classification of enclosures according to speech level reduction, $D_{\!S,A}$

Class	A+	А	В	С	D	Unclassified
$D_{\!\scriptscriptstyle S,A}$ [dB]	>33	>30	>25	>20	>15	≤15

3. Instrumentation

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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4. Test Results

Test	Specin	nen	MOVABLE	SILENCE BO	oth/movae	BLE SILENCE	CABINET			
Spec	cificatio	ons	W1000×	D1000×H2200						
						MOVABLE		CABINET	was place	d in the
					Test F	Results				
Index			Unweighted values		D_i dB	Unweighted values		A_i dB	A-weighted values dB	
I			$L_{w,p,1,i}$	$L_{w,p,2,i}$	UD	$L_{w,s,1,i}$	$L_{w,s,2,i}$	uВ	$L_{w,s,A,1,i}$	$L_{w,s,A,2,s}$
1	12	25	101.6	82.3	19.3	60.9	41.6	-16.1	44.8	25.5
2	25	50	102.5	71.6	30.9	65.3	34.4	-8.6	56.7	25.8
3	50	00	99.2	68.1	31.1	69.0	37.9	-3.2	65.8	34.7
4	10	00	96.1	64.1	32.0	63.0	31.0	0.0	63.0	31.0
5	20	00	96.9	61.2	35.7	55.8	20.1	1.2	57.0	21.3
6	40	00	93.9	49.9	44.0	49.8	5.8	1.0	50.8	6.8
7	80	00	85.0	41.6	43.4	44.5	1.1	-1.1	43.4	0.0
Frequency (Hz) D (dB)			duction	Figu	·		duction D a	against 1/1	Oct Frequ	ency
125 250		19.3								
		30.9			35 30		2			
500		31.1		D [dB]	25					
1000		32.0			20 1 15					
2000 4000 8000		35.7			10					
			44.0			5				
			43.4	255 125 800 000 000 20 25 125 800 000 000 000 20 125						
Ds	.A		31.4	f 1/1-octave frequency band, in Hz D level reduction, in dB D _{S,A} speech level reduction, in dB						



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5. Photographic Records





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Remark:

- 1. This test was subcontracted to Subtropical Architecture Institute, South China University of Technology.
- 2. This test report is issued based on the modification of the original No. SDHL2303004062FT test report issued on Mar 21, 2023. And the original report is still valid. According to applicant's requirements, following changes are included:
 - a. Change of applicant's name.
 - b. Change of applicant's address.

End of Report



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