

## Test Report

No. SDHL2301000412HI

Date: Jan 13, 2023

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FOSHAN MEXYTECH CO., LTD.  
ROOM 2-8, BUILDING B, TORCH INNOVATION PARK, JIHUA 2 ROAD,  
CHANCHENG DISTRICT FOSHAN CITY, GUANGDONG PROVINCE, CHINA

Sample Description : COMPOSITE FENCE SYSTEM

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.

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Ref No. : 230112-1

Test Performing Date : Jan 10, 2023

Test project : Sound Transmission Loss

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



Peter Zhao  
Authorized Signatory

scan to see the report



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### I. Condition

- 1) Volume of source room:300m<sup>3</sup>, Volume of receive room :145m<sup>3</sup>;
- 2) Specifications: 1960mm×1250mm.
- 3) Temperature:17°C
- 4) Relative humidity:63%

### II. Accordance

According to 'ASTM E90-09: Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements' and 'ASTM E413-10: Classification for Rating Sound Insulation'.

The sound reduction index  $TL(f)$  shall be calculated by the following equation:

$$TL(f) = L_S(f) - L_R(f) + 10 \log S / A_R(f) \quad (1)$$

$L_S(f)$ —average sound pressure level in the source room, dB;

$L_R(f)$ —average sound pressure level in the receiving room, dB;

$S$ —area of test specimen that is exposed in the receiving room, m<sup>2</sup>;

$A_R(f)$ —sound absorption of the receiving room with the test specimen in place, m<sup>2</sup>.

### III. 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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#### IV. Test Results:

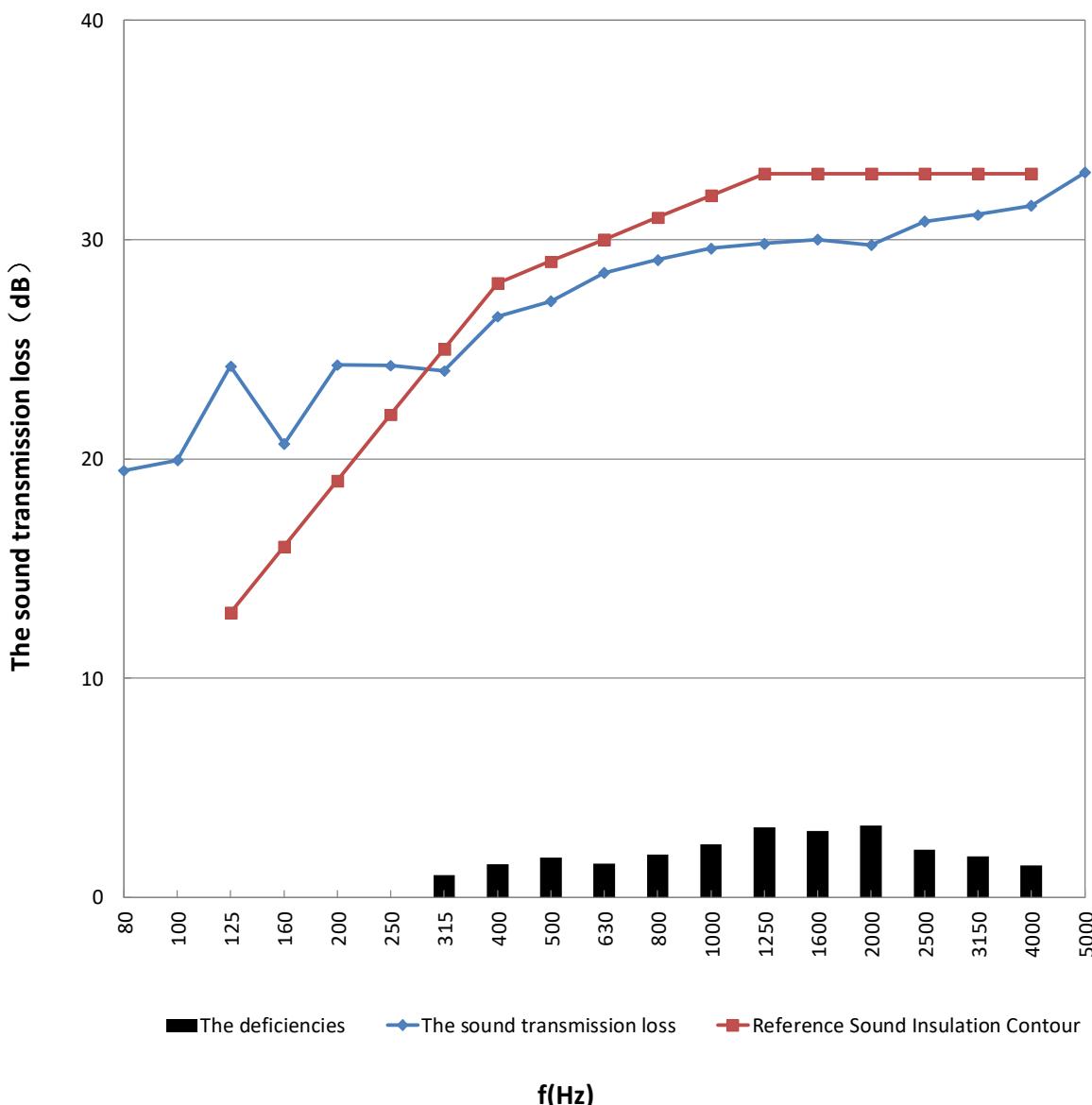
<b>Specifications</b>	The Composite Fence System was mounted in the middle of the wall (area:2.4 m <sup>2</sup> ) between the source room and the receive room.
<b>Frequency (Hz)</b>	<b>The sound reduction index R , dB</b>
80	19.4
100	19.9
<b>125</b>	<b>24.2</b>
160	20.7
200	24.3
<b>250</b>	<b>24.2</b>
315	24.0
400	26.5
<b>500</b>	<b>27.2</b>
630	28.5
800	29.1
<b>1000</b>	<b>29.6</b>
1250	29.8
1600	30.0
<b>2000</b>	<b>29.7</b>
2500	30.8
3150	31.1
<b>4000</b>	<b>31.5</b>
5000	33.0
<b>STC</b>	<b>29</b>

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SGS-CSTC Services Technical Services Co., Ltd  
Shunde Branch

And The sound transmission loss of the tested specimen are plotted as follows.



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### V. Photographic Records:



**Remark:** This test was subcontracted to Subtropical Architecture Institute South China University of Technology.

\*\*\*End of Report\*\*\*



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