

XINDA CLOVER INDUSTRY LIMITED COMPANY NANHAI FOSHAN CITY.
NO.3 XINGYE NORTH ROAD, SHISHAN NANHAI FOSHAN CITY, GUANGDONG PROVINCE, P.R.CHINA

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

Sample Description : HK55S FULL HEIGHT SYSTE
Sample Receiving Date : Dec.10, 2019
Test Performing Date : Dec.10, 2019 to Dec.27, 2019

Test Result Summary

No.	Test item	Test(s) Requested(Method)	Result(s)	Comments
1	Sound Transmission Loss	ASTM E413-10 & ASTM E90-09	STC: 24	/

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

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



Peter Zhao
Approved signatory



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SGS-CSTC Inspection & Testing Services Shunde Branch
Shunde Branch Harbin

1/F, 1st Building European Industrial Park, No.1 Shunde South Road, Wusha Section, Daifang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

I Condition

- 1) Volume of source room:88.6m³, Volume of receive room :67.9m³;
- 2) Area of test Specimen: 5.3m²
- 3) Temperature:20°C
- 4) Relative humidity:61%

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, m²;

$A_R(f)$ —sound absorption of the receiving room with the test specimen in place, m².

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:

Specifications	HK55 FULL HEIGHT SYSTE (area:5.3 m ²) are mounted in the middle of the wall (area:10.5 m ²) between the source room and the receive room.
Frequency (Hz)	The sound reduction index R , dB
80	23.5
100	22.3
125	24.3
160	22.9
200	21.7
250	22.6
315	24.6
400	24.8
500	23.8
630	23.8
800	23.5
1000	22.7
1250	21.4
1600	22.5
2000	23.5
2500	25.1
3150	27.0
4000	29.4
5000	31.6
STC	24.0

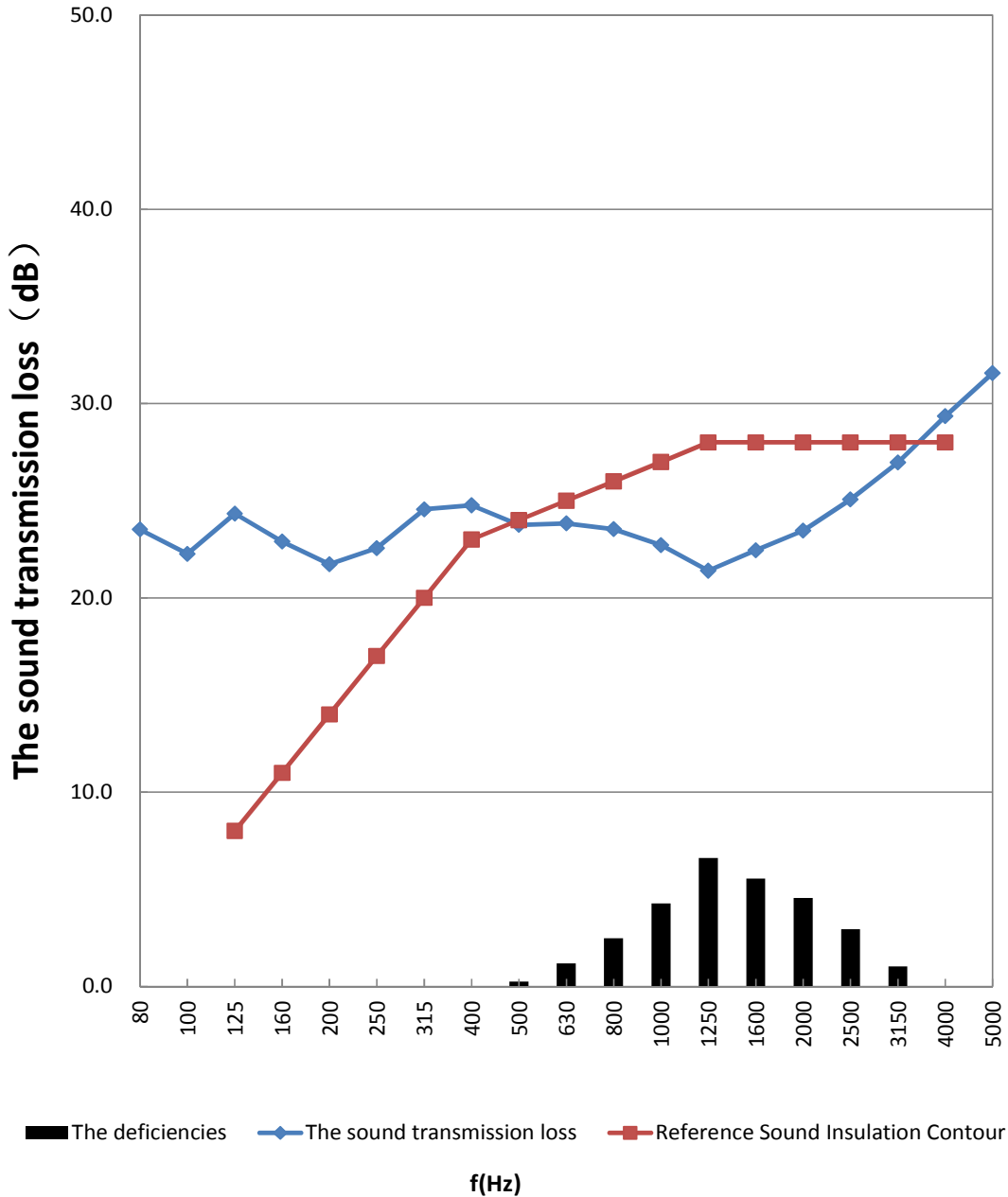


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And The sound transmission loss of the tested specimen are plotted as follows.

HK55 FULL HEIGHT SYSTE



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 中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Test photo:



Remark: This test was subcontracted to ACOUSTIC TESTING SERVICES LIMITED.

End of Report



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

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