

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 : HK85 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: 34	/

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 Co., Ltd.
Shunde Branch Harbin

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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:60%

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:

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

$L_S(f)$ ——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	HK85 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	17.7
100	18.6
125	30.7
160	27.6
200	29.1
250	33.5
315	28.1
400	29.9
500	31.6
630	33.2
800	36.3
1000	37.8
1250	39.8
1600	40.8
2000	36.2
2500	30.6
3150	32.0
4000	36.5
5000	40.7
STC	34.0

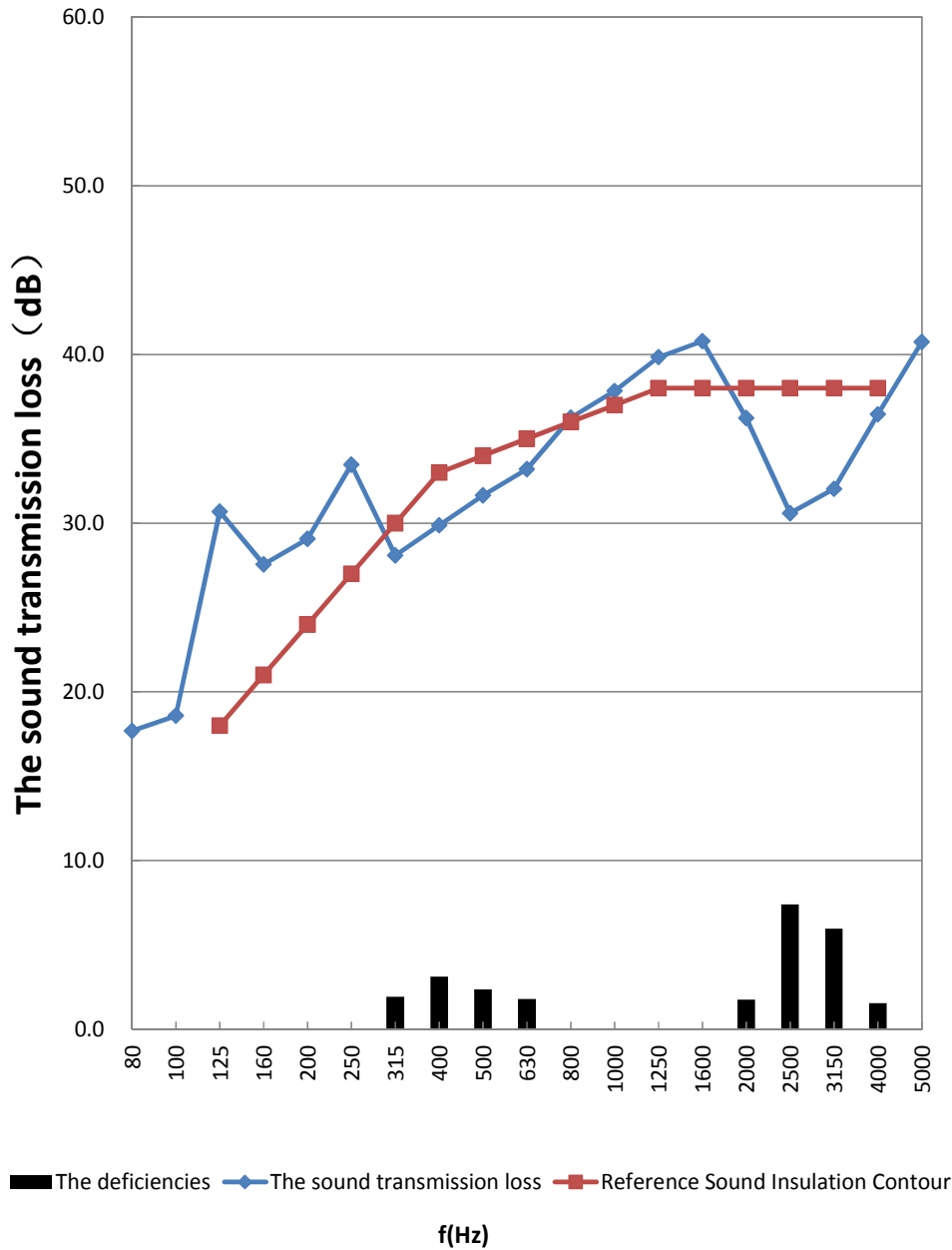


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And The sound transmission loss of the tested specimen are plotted as follows.

HK85 FULL HEIGHT SYSTE



■ The deficiencies ◆ The sound transmission loss ■ Reference Sound Insulation Contour

f(Hz)



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

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Test photo:



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

End of Report

