

## TEST REPORT

No. : SZIN2005006293SC

Date : Jun 05, 2020

Page: 1 of 6

scan to see the report



SZIN2005006293SC

CUSTOMER NAME: SOUNDBOX(HK)ACOUSTIC TECH CO., LTD  
ADDRESS: 12#, HUASHAN ROAD, SHILOU TOWN, PANYU DISTRICT,  
GUANGZHOU, CHINA

Sample Name : MOVABLE SILENCE BOOTH CARBON COMPOSITE PANEL  
Product Specification : 315\*55MM  
Manufacturer : SOUNDBOX

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

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SGS Ref. No. : SDFS2005002843FF  
Date of Receipt : May 21, 2020  
Testing Start Date : May 21, 2020  
Testing End Date : Jun 05, 2020  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. Shenzhen Branch  
Testing Center

James Zheng  
Authorized signatory



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# TEST REPORT

No. : SZIN2005006293SC

Date : Jun 05, 2020

Page: 2 of 6

## Test Result Summary

Test(s) Requested	Result(s)
GB 8624-2012 Fire classification for burning behavior of building materials and products Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products	Classification: B <sub>1</sub>

## TESTS AND RESULTS

### Test Conducted:

GB 8624-2012 Fire classification for burning behavior of building materials and products.

Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products. And the test methods as following:

1. GB/T 20284-2006 Single burning item test for building materials and products.
2. GB/T 8626-2007 Test method of flammability for building materials.

### Mounting and fixing (For GB/T 20284):

There is no ventilation cavity behind the specimen.

Test sample is installed on the substrate by screw (test substrates is calcium silicate board and meets the requirement of standard, the density of 900 kg/m<sup>3</sup> and thickness of 10mm).



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SGS-CSTC Inspection & Testing Services Co., Ltd.  
Shenzhen Branch Testing Center - Materials Laboratory

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# TEST REPORT

No. : SZIN2005006293SC

Date : Jun 05, 2020

Page: 3 of 6

**Test Results:**

Test method	Parameter	Number of tests	Results
GB/T 20284-2006	FIGRA <sub>0.2MJ</sub> (W/s)	3	153.2
	FIGRA <sub>0.4MJ</sub> (W/s)		153.2
	LFS < edge of specimen		Yes
	THR <sub>600s</sub> (MJ)		9.7
	Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s)		No
GB/T 8626-2007 Exposure = 30 s	F <sub>s</sub> ≤ 150 mm within 60s	12	Yes
	Ignition of the filter paper within 60s		No

Remark:

FIGRA-Fire growth rate index used for classification purposes [W/s]

For Class A2 and Class B FIGRA= FIGRA<sub>0.2MJ</sub>

For Class C and Class D FIGRA= FIGRA<sub>0.4MJ</sub>

LFS - Lateral flame spread [m]

THR<sub>600s</sub> -Total heat release within 600 s [MJ]

**Classification and direct field of application:**

This classification has been carried out in accordance with GB 8624-2012 Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products

**Conclusion:**

The submitted sample satisfies Class B<sub>1</sub> requirement of reaction to fire performance for slab building materials and construction products in GB 8624-2012.



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# TEST REPORT

No. : SZIN2005006293SC

Date : Jun 05, 2020

Page: 4 of 6

Table 2 Classes of reaction to fire performance for slab building materials and construction products

Class		Test method(s)	Classification criteria
A	A1	GB/T 5464 <sup>a</sup> and	$\Delta T \leq 30^{\circ}\text{C}$ ; $\Delta m \leq 50\%$ ; $t_r = 0$
		GB/T 14402	$\text{PCS} \leq 2.0\text{MJ/kg}$ <sup>a, b, c, e</sup> ; $\text{PCS} \leq 1.4\text{MJ/m}^2$ <sup>d</sup>
	A2	GB/T 5464 <sup>a</sup> or	and $\Delta T \leq 50^{\circ}\text{C}$ ; $\Delta m \leq 50\%$ ; $t_r \leq 20\text{ s}$
		GB/T 14402	
		GB/T 20284	$\text{FIGRA}_{0.2\text{MJ}} \leq 120\text{W/s}$ ; LFS < edge of specimen; $\text{THR}_{600\text{s}} \leq 7.5\text{ MJ}$
B <sub>1</sub>	B	GB/T 20284 and	$\text{FIGRA}_{0.2\text{MJ}} \leq 120\text{W/s}$ ; LFS < edge of specimen; $\text{THR}_{600\text{s}} \leq 7.5\text{MJ}$
		GB/T 8626 Exposure = 30s	$F_s \leq 150\text{mm}$ within 60s; No ignition of paper within 60s
	C	GB/T 20284 and	$\text{FIGRA}_{0.4\text{MJ}} \leq 250\text{W/s}$ ; LFS < edge of specimen; $\text{THR}_{600\text{s}} \leq 15\text{MJ}$
		GB/T 8626 Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s; No ignition of paper within 60s
B <sub>2</sub>	D	GB/T 20284 and	$\text{FIGRA}_{0.4\text{MJ}} \leq 750\text{W/s}$
		GB/T 8626 Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s; No ignition of paper within 60s
	E	GB/T 8626 Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s; No ignition of paper within 20s
B <sub>3</sub>	F	No performance determined	



# TEST REPORT

No. : SZIN2005006293SC

Date : Jun 05, 2020

Page: 5 of 6

- <sup>a</sup> For homogeneous products or substantial components of non-homogeneous products.
- <sup>b</sup> For any external non-substantial component of non-homogeneous products.
- <sup>c</sup> any external non-substantial component having a PCS  $\leq 2.0 \text{ MJ/m}^2$  , provided that the product satisfies the following criteria of  $\text{FIGRA}_{0.2\text{MJ}} \leq 20 \text{ W/s}$ , and  $\text{LFS} < \text{edge of specimen}$ , and  $\text{THR}_{600\text{s}} \leq 4.0 \text{ MJ}$ , and s1, and d0 can be defined A1.
- <sup>d</sup> For any internal non-substantial component of non-homogeneous products.
- <sup>e</sup> For the product as a whole.

Table B.1 smoke production levels and grading criterion

SMOGRA	Test Method	Requirement
s1	GB/T 20284	$\text{SMOGRA} \leq 30\text{m}^2/\text{s}^2$ ; $\text{TSP}_{600\text{s}} \leq 50\text{m}^2$
s2		$\text{SMOGRA} \leq 180\text{m}^2/\text{s}^2$ ; $\text{TSP}_{600\text{s}} \leq 200\text{m}^2$
s3		not s1 or s2

Table B.2 Burning droplets / particles grades and grading criterion

Burning droplets / particles grades	Test Method	Requirement
d0	GB/T 20284	No flaming droplets/ particles within 600 s
d1		Flaming droplets/ particles persisting longer than 10 s within 600 s
d2		not d0 or d1

**Statement:**

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

**Warning:**

This classification report does not represent type approval or certification of the product.



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# TEST REPORT

No. : SZIN2005006293SC

Date : Jun 05, 2020

Page: 6 of 6

## SAMPLE INFORMATION AND PICTURES

Thickness: About 54 mm

Density: About 17.2 kg/m<sup>2</sup>

★Product usage: Wall and ceiling

The above data and information with ★ was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. results apply to the sample as received.



Before Test for GB/T 20284



After Test for GB/T 20284

### Appendix information:

1. The above test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch.
2. The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

\*\*\*\*\* End of report\*\*\*\*\*



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