

# SGS



171120341434

## Test Report

No. AJFS1905004689FF

Date: JUN.10, 2019

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KINGKUS NEW MATERIAL CO., LTD.

ZHITANG TOWN CHANGSHU CITY JIANGSU PROVINCE CHINA

The following sample(s) 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.

**Sample Name:** POLYESTER FIBER ACOUSTIC PANEL

**SGS Ref No.:** SHIN190501446CCM

**Product Specification:** 2440\*1220\*9mm

**Style/Item No.:** /

### Test Requested:

EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements—Part 1:  
Classification using data from reaction to fire tests, Class B

**Test Results:** -- See attached sheet --

### Test Period:

Sample Receiving Date : MAY 22, 2019

Test Performing Date : MAY 22, 2019 TO MAY 27, 2019

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

  
Allen Zou  
Lab Manager

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SGS-CSTC Anji Branch Technical Service Co., Ltd.  
Anji Branch Technical Service

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgsgroup.com.cn  
中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编:313300 t (86-572) 5018825 f (86-572) 5018829 e sgs.china@sgs.com

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### I. Test conducted

This test is conducted as per EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests. And the test methods as following:

1. EN 13823:2010+A1:2014 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 11925-2:2010+Cor1:2011 Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

### II. Details of classified product

#### a) Nature and end use application

The product "Polyester Fiber Acoustic Panel" is defined as building product. Its end use application: "Thermal and acoustic insulation material".

#### b) Description

The details of the product given above have been prepared from information provided by the sponsor of the test.

Description	Polyester Fiber Acoustic Panel
Color	White
Thickness	About 9mm
Mass per unit area	1900 g/m <sup>2</sup>

#### Mounting and fixing:

Fibre cement board, with its density about 1800kg/m<sup>3</sup>, thickness 9mm, is as the substrate. The test specimens are fixed mechanically to the substrate, No joint.

### III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA <sub>0.2MJ</sub> (W/s)	3	26.6
	FIGRA <sub>0.4MJ</sub> (W/s)		25.1
	LFS < edge of specimen		Yes
	THR <sub>600s</sub> (MJ)		1.9
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		5.0
	TSP <sub>600s</sub> (m <sup>2</sup> )		51.8
	Flaming particles or droplets		No

To be continued...



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Test method	Parameter	Specimen number	Results
EN ISO 11925-2 Exposure = 30 s	$F_s \leq 150$ mm	6	Yes
	Ignition of the filter paper		No

#### IV. Classification and direct field of application

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

##### a) Classification

The product, Polyester Fiber Acoustic Panel, classification is as following.

Fire behaviour	Smoke production	Flaming droplets
B	s 2	d 0

**Reaction to fire classification: B-s2, d0**

**Remark:** The classes with their corresponding fire performance are given in annex A.

##### b) Field of application

This classification for the submitted sample is valid for the following end use condition:

- With all substrate classified A1 and A2.
- With mechanically fixing
- No joint

This classification is valid for the following product parameters:

- Characteristics of various layers identical to those as described in § II b) of this test reports.

##### Statement:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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.

To be continued...



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### Warning:

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

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

### Annex A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 <sup>a</sup> and	$\Delta T \leq 30^\circ\text{C}$ , and $\Delta m \leq 50\%$ , and $t_r = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0\text{MJ/kg}$ <sup>a</sup> and $PCS \leq 2.0\text{MJ/kg}$ <sup>b,c</sup> and $PCS \leq 1.4\text{MJ/m}^2$ <sup>d</sup> and $PCS \leq 2.0\text{MJ/kg}$ <sup>e</sup>	-
A2	EN ISO 1182 <sup>a</sup> or	and $\Delta T \leq 50^\circ\text{C}$ , and $\Delta m \leq 50\%$ , and $t_r \leq 20\text{ s}$	-
	EN ISO 1716		
	EN 13823	$FIGRA \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
B	EN 13823 and	$FIGRA \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>l</sup> Exposure = 30s	within 60s $F_s \leq 150\text{mm}$	
C	EN 13823 and	$FIGRA \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600s} \leq 15\text{MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>l</sup> Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823 and	$FIGRA \leq 750\text{W/s}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>l</sup> Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 <sup>l</sup> Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles <sup>h</sup>

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F	No performance determined
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<sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.  
<sup>b</sup> For any external non-substantial component of non-homogeneous products.  
<sup>c</sup> Alternatively, any external non-substantial component having a PCS  $\leq 2,0 \text{ MJ/m}^2$ , provided that the product satisfies the following criteria of EN 13823: FIGRA  $\leq 20 \text{ W/s}$ , and LFS < edge of specimen, and THR<sub>600s</sub>  $\leq 4,0 \text{ MJ}$ , and s1, and d0.  
<sup>d</sup> For any internal non-substantial component of non-homogeneous products.  
<sup>e</sup> For the product as a whole.  
<sup>f</sup> In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.  
s1 = SMOGRA  $\leq 30\text{m}^2/\text{s}^2$  and TSP<sub>600s</sub>  $\leq 50\text{m}^2$ ; s2 = SMOGRA  $\leq 180\text{m}^2/\text{s}^2$  and TSP<sub>600s</sub>  $\leq 200\text{m}^2$ ; s3 = not s1 or s2  
<sup>g</sup> d0 = No flaming droplets/ particles in EN 13823 within 600 s;  
d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;  
d2 = not d0 or d1.  
Ignition of the paper in EN ISO 11925-2 results in a d2 classification.  
<sup>h</sup> Pass = no ignition of the paper (no classification);  
Fail = ignition of the paper (d2 classification).  
<sup>i</sup> Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

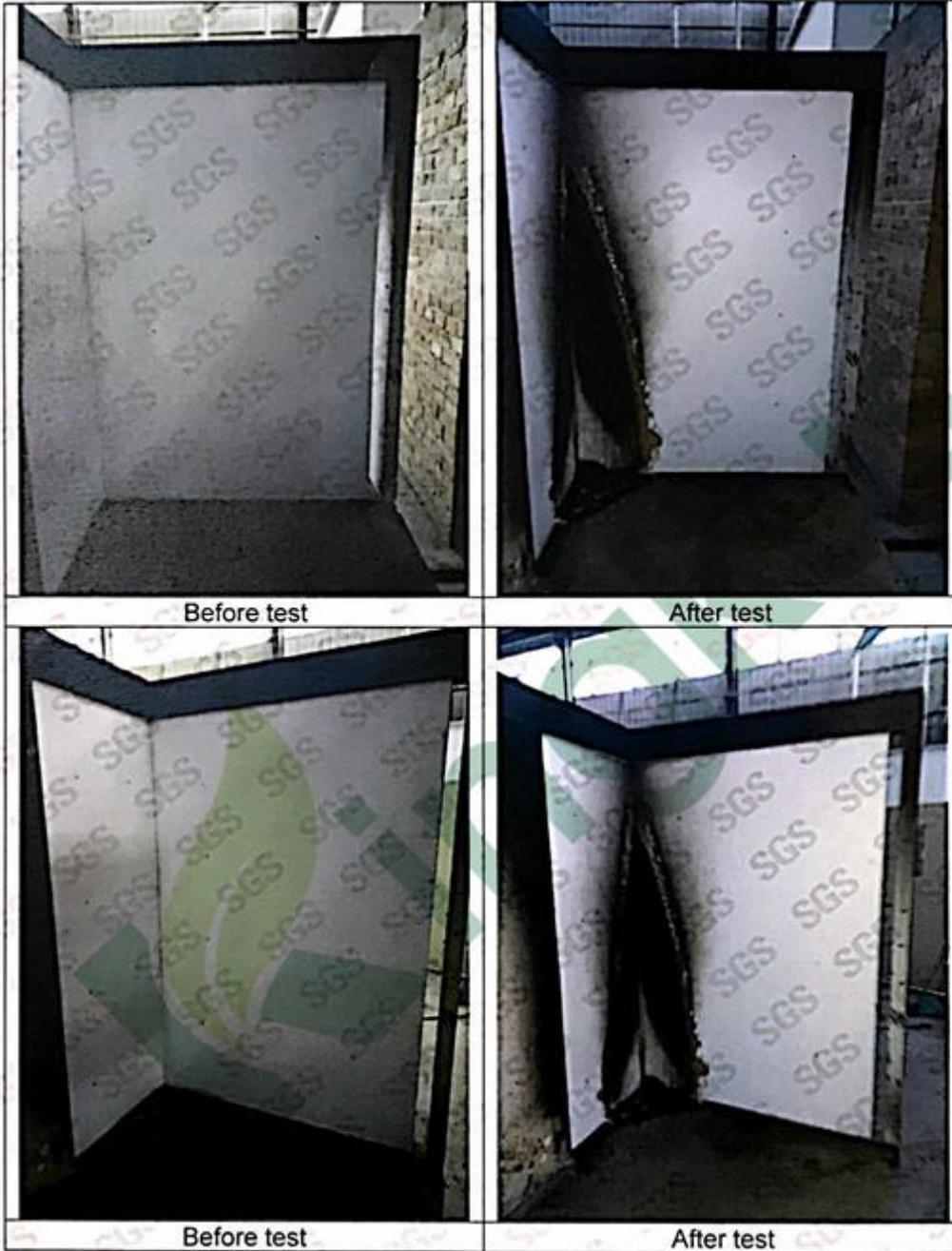
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Photo Appendix:



Before test

After test

Before test

After test

SGS authenticate the photo on original report only

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

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