Test Report

FOSHAN KERUIDA ENVIRONMENTAL PROTECTION MATERIAL TECHNOLOGY CO., LTD

6 ON NO. 2 JINKENG ROAD, BAINI TOWN, SHANSHUI DISTRICT, FOSHAN CITY.

THE TEST REPORT IS TO SUPERSEDE THE TEST REPORT No.: AJFS1909009542FF, DATE: SEP.30, 2019.

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: YOUJIAMEI

SGS Ref No.: SHIN1909067698CM

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

Test Results: -- See attached sheet –

Test Period:

Sample Receiving Date	:	SEP.24, 2019
Test Performing Date	:	SEP.24, 2019 TO SEP.27, 2019

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

Allen Zou
Lab Manager

AJFS1909009542FF-01

I. Test conducted

This test was 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 ISO 9239-1:2010 Reaction to fire tests for floorings —Part 1: Determination of the burning behaviour using a radiant heat source.
2. EN ISO 11925-2:2010+Corl: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

Sample description	Floors
Color	Yellow
*Thickness	4.2mm
Mass per unit area	8724 g/m^2

Mounting and fixing:

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

III. Test results

Test method	Parameter	Number of tests	Results
EN ISO 9239-1	Critical flux (kW/m^2)	3	10.0
	Smoke (%×minutes)		180.1
EN ISO 11925-2 Exposure = 15 s	Whether vertical flame spread (Fs) in excess of 150 mm within 20 s (Yes/No)	6	No

To be continued…

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

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, floors, classification is as following,

Fire behaviour		Smoke production	
B_{fl}	—	s	1

Reaction to fire classification: B_{fl}—s1

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 substrates classified as A1 and A2

--- With mechanically fixing

--- No joint

This classification is valid for the following product parameters:

--- Characteristics as described in section II of this test report.

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.

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.

To be continued…

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

Annex A

Classes of reaction to fire performance for floorings

class	Test methods		Classification	Additional classification
$A1_{fl}$	EN ISO 1182 [a] and		$\Delta T \leq 30$ □, and $\Delta m \leq 50\%$, and t_f=0(i.e. no sustained flaming)	-
	EN ISO 1716		PCS≤2.0MJ/kg [a] and PCS≤2.0MJ/kg [b] and PCS≤1.4MJ/m^2 [c] and PCS≤2.0MJ/kg [d]	-
$A2_{fl}$	EN ISO 1182 [a] or	and	ΔT≤50℃, and Δm≤50%, and t_f≤20s	-
	EN ISO 1716		PCS≤3.0MJ/kg [a] and PCS≤4.0MJ/m^2 [b] and PCS≤4.0MJ/m^2 [c] and PCS≤3.0MJ/kg [d]	-
	EN ISO 9239-1 [e]		Critical flux [f] ≥8.0kW/ m^2	Smoke production [g]
B_{fl}	EN ISO 9239-1 [e] and		Critical flux [f] ≥8.0kW/ m^2	Smoke production [g]
	EN ISO 11925-2 [h] Exposure =15s		Fs≤150mm within 20 s	-
C_{fl}	EN ISO 9239-1 [e] and		Critical flux [f] ≥4.5kW/ m^2	Smoke production [g]
	EN ISO 11925-2 [h] Exposure =15s		Fs≤150mm within 20 s	-
D_{fl}	EN ISO 9239-1 e and		Critical flux f ≥3.0kW/ m2	Smoke production g
	EN ISO 11925-2 h Exposure =15s		Fs≤150mm within 20 s	-
E_{fl}	EN ISO 11925-2 h Exposure =15s		Fs≤150mm within 20 s	-
F_{fl}	No performance determined			

[a] For homogeneous products and substantial components of non-homogeneous products.
[b] For any external non-substantial component of non-homogeneous products.
[c] For any internal non-substantial component of non-homogeneous products.
[d] For the product as a whole.
[e] Test duration = 30 min.
[f] Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).
[g] **s1** = Smoke ≤ 750 % minutes;
s2 = not s1.
[h] Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.

Remark: The content remark with * is updated.

To be continued…

Photo Appendix:

SGS authenticate the photo on original report only

End of Report

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