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CNAS L7877

TEST REPORT

No.: SDFTS25006607R01_EN

Date: Nov 19,2025

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YULIN KELI KEYING TECHNOLOGY CO., LTD.

KELI KEYING COMPANY, QINGSHUI NORTHROAD, QINGSHUI INDUSTRIAL PARK, YUSHEN
INDUSTRIAL ZONE, YULIN CITY, SHAANXI PROVINCE

Sample Description : INORGANIC FIBERBOARD
Tested surface : RED SURFACE
Information of the product : SUBSTRATE(8.0kg/m²), COATING(0.03kg/m²)

The above sample(s) data and information 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 arising therefrom. Results apply to the sample as received.

SGS Ref. No. : GZP25-028254
Sample Receiving Date : Oct 29,2025
Testing Period : Oct 29,2025 to Nov 13,2025
Test Required : EN 13501-1:2018 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests.
Test result(s) : See attached sheet

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

Ada

Ada Liu
Approved signatory



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I. Test conducted

This test is conducted as per EN 13501-1:2018 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 13823:2020+A1:2022 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 1716:2010 Reaction to fire tests for building products — Determination of the gross heat of combustion (calorific value).

II. Details of classified product

Sample Description	Panel
Thickness	8.0mm
Area density	9.27kg/m ²

Mounting and fixing:

Specimen was free standing and had no substrate and with no ventilated cavity and tested at a distance of at least 80 mm from the backing board. The specimen had no joints.

III. Test results

Test methods	Parameter		Number of tests	Results
EN 13823	FIGRA _{0.2MJ} (W/s)		3	15.1
	FIGRA _{0.4MJ} (W/s)			15.1
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)			No
	THR _{600s} (MJ)			1.3
	SMOGRA (m²/s²)			6.7
	TSP _{600s} (m²)			37.4
	Flaming particles or droplets (Yes/No)			No
EN ISO 1716	Product as a whole	PCS≤3.0MJ/kg ^e	/	3.0
	Substrate	PCS≤3.0MJ/kg ^a	3	2.9
	Coating	PCS≤4.0MJ/m² ^b	3	0.7

Note:

FIGRA_{0.2MJ} - Fire growth rate index at THR threshold of 0,2 MJ [W/s]

FIGRA_{0.4MJ} - Fire growth rate index at THR threshold of 0,4 MJ [W/s]

THR_{600s} -Total heat release within 600 s [MJ]



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SMOGRA - Smoke growth rate [m^2/s^2]

TSP_{600s}- Total smoke production within 600 s [m^2]

PCS — Gross heat of combustion [MJ/kg or MJ/m^2]

For the means of superscript a, b, d and e, please refer to the Annex A.

IV. Classification and field of application

a) Reference of classification

This classification has been carried out in accordance with **EN 13501-1:2018**.

b) Classification

The product, Inorganic fiberboard (as described by the sponsor), in relation to its reaction to fire behaviour is classified:

Fire behaviour		Smoke production			Flaming droplets	
A2	—	s	1	,	d	0

Reaction to fire classification: A2—s1, d0

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

c) Field of application

This classification is valid for the following product parameters:

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

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

--- Without any substrates

--- Free standing

--- No joint

Limitations

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

Warning:

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.



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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.

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 ^a	and	$\Delta T \leq 30^{\circ}\text{C}$, and $\Delta m \leq 50\%$, and $t_f = 0\text{s}$ (i.e. no sustained flaming)	-
	EN ISO 1716		$PCS \leq 2.0\text{MJ/kg}$ ^a and $PCS \leq 2.0\text{MJ/kg}$ ^{b c} and $PCS \leq 1.4\text{MJ/m}^2$ ^d and $PCS \leq 2.0\text{MJ/kg}$ ^e	-
A2	EN ISO 1182 ^a or	and	$\Delta T \leq 50^{\circ}\text{C}$, and $\Delta m \leq 50\%$, and $t_f \leq 20\text{ s}$	-
	EN ISO 1716		$PCS \leq 3.0\text{MJ/kg}$ ^a and $PCS \leq 4.0\text{MJ/m}^2$ ^b and $PCS \leq 4.0\text{MJ/m}^2$ ^d and $PCS \leq 3.0\text{MJ/kg}$ ^e	-
	EN 13823		$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
B	EN 13823	and	$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s		$F_s \leq 150\text{mm}$ within 60s	
C	EN 13823	and	$FIGRA_{0.4\text{MJ}} \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 15\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s		$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823	and	$FIGRA_{0.4\text{MJ}} \leq 750\text{W/s}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s		$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 ⁱ Exposure = 15s		$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles ^h
F	EN ISO 11925-2 ⁱ Exposure = 15 s		$F_s > 150\text{mm}$ within 20 s	

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- ^a For homogeneous products and substantial components of non-homogeneous products.
- ^b For any external non-substantial component of non-homogeneous products.
- ^c 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 $LFS < \text{edge of specimen}$, and $THR_{600s} \leq 4,0 \text{ MJ}$, and $s1$, and $d0$.
- ^d For any internal non-substantial component of non-homogeneous products.
- ^e For the product as a whole.
- ^f $s1 = SMOGRA \leq 30 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 50 \text{ m}^2$; $s2 = SMOGRA \leq 180 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 200 \text{ m}^2$; $s3 = \text{not } s1 \text{ or } s2$
- ^g $d0 = \text{No flaming droplets/ particles in EN 13823 within 600 s}$;
 $d1 = \text{no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s}$;
 $d2 = \text{not } d0 \text{ or } d1$.
 Ignition of the paper in EN ISO 11925-2 results in a $d2$ classification.
- ^h Pass = no ignition of the paper (no classification);
 Fail = ignition of the paper ($d2$ classification).
- ⁱ Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

Photo Appendix:



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End of Report



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