

TEST REPORT

No. : GZMR231103224501

Date : Nov 15, 2023

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CUSTOMER NAME: POWER DEKOR DARE(JIANGSU) FLOORING CO., LTD.
ADDRESS: 212310 DARE WOOD INDUSTRIAL PARK, DANYANG CITY,
JIANGSU, CHINA

Sample Name : POWER DEKOR THREE LAYER FLAME-RESISTANT ENGINEERED FLOORING
Material and Mark : OAK
Product specification : 1900*190*15/3
Buyer : BETTER TRADING 2019 LTD
Manufacturer : POWER DEKOR DARE(JIANGSU) FLOORING CO., LTD.

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.

SGS Ref. No. : XMIN2311001313CM01
Date of Receipt : Nov 03, 2023
Testing Start Date : Nov 03, 2023
Testing End Date : Nov 15, 2023
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. Guangzhou Branch

Kelly Lee
Authorized signatory



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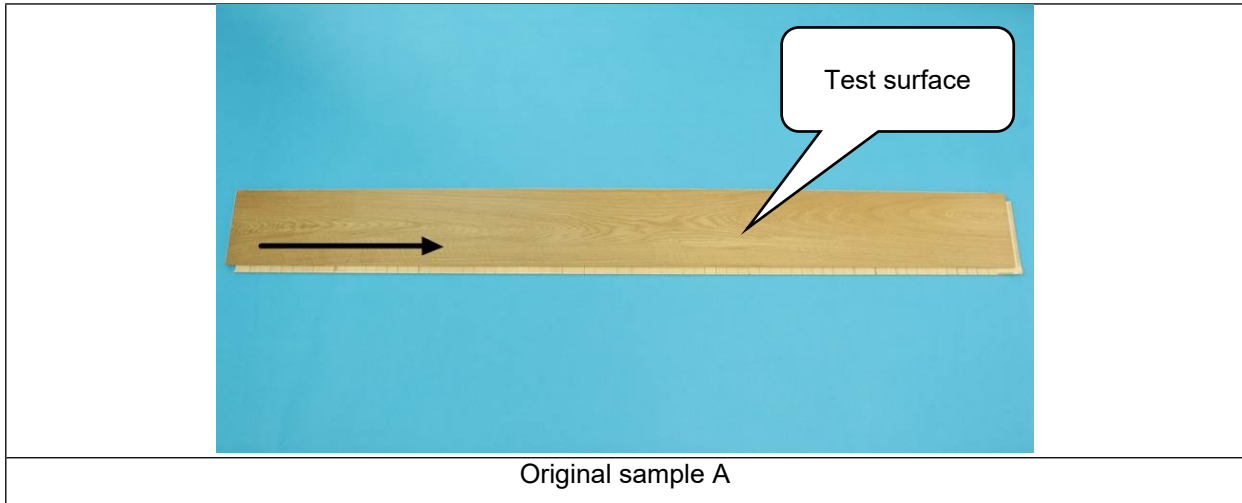
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Fire Classification for Burning Behavior of Flooring Material	EN 13501-1:2018 Clause 9 & EN ISO 9239-1:2010 & EN ISO 11925-2:2020	B _{fl} -s1	/

Note: Pass : Meet the requirements;
 Fail : Does not meet the requirements;
 / : Not Apply to the judgment.

Original Sample Photo:



Original sample A



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Test item: Fire Classification for Burning Behavior of Flooring Material

Sample Description: Floor

Test Method: EN 13501-1:2018 Clause 9 & EN ISO 9239-1:2010 & EN ISO 11925-2:2020

Test Result:

I . EN ISO 9239-1:2010 Reaction to fire tests for floorings-Part 1: Determination of the burning behaviour using a radiant heat source

Specimen: 1050mm × 230mm × 15 mm(make up of 2 pieces sample)

Flame application time: 10min

Mounting and fixing: Calcium silicate board, with its density about 1016kg/m³, thickness about 21.4mm, is as the substrate. The specimens were fixed mechanically to the substrate.

Specimen No.	Furthest extent of spread of flame, mm	Critical heat flux (HF-30), kW/m ²	Integrated smoke value, %·min
1	300	7.49	288.4
2	270	8.21	284.3
3	260	8.45	286.4
Average	280	8.1	286

Note:

1. Test specimens were cut from the sample.
2. Specimens which are extinguished by the operator at 30 min do not have a CHF value, but only a HF-30 value.
3. For test durations longer than 30 min, record the time of flame extinguishment and the most distant point of flame spread and convert this to CHF.
4. Observations of the burning characteristics: Charring.



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II. EN ISO 11925-2:2020 Reaction to fire tests-Ignitability of products subjected to direct impingement of flame-Part 2: Single-flame source test.

Specimen: 250mm × 90mm × 15 mm

Flame application time: 15s

Exposure conditions	Edge exposure			Surface exposure		
	1	2	3	1	2	3
Specimen No.	1	2	3	1	2	3
Whether ignition occurs	Yes	Yes	Yes	Yes	Yes	Yes
Whether the flame tip reaches 150 mm above the flame application point within 20s	No	No	No	No	No	No
Whether ignition of the filter paper occurs	No	No	No	No	No	No

Note:

1. Test specimens were cut from the sample.
2. Observations of the burning characteristics: Charring.

Conclusion:

According to the test result and classification criteria (See table 1), the submitted sample satisfies Class B_{fl}

Reaction to fire classification: B_{fl}—s1

Statement: The test results relate to the behavior 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.



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Table 1. Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
A1 _{fl}	EN ISO 1182 ^a and	$\Delta T \leq 30\text{ }^{\circ}\text{C}$; and $\Delta m \leq 50\%$; and $t_f = 0$ (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 and $PCS \leq 1,4\text{ MJ/m}^2$ ^c and $PCS \leq 2,0\text{ MJ/kg}$ ^d	-
A2 _{fl}	EN ISO 1182 ^a or	$\Delta T \leq 50\text{ }^{\circ}\text{C}$ and $\Delta m \leq 50\%$ and $t_f \leq 20\text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3,0\text{ MJ/kg}$ ^a and $PCS \leq 4,0\text{ MJ/m}^2$ ^b and $PCS \leq 4,0\text{ MJ/m}^2$ ^c and $PCS \leq 3,0\text{ MJ/kg}$ ^d	-
	EN ISO 9239-1 ^e	Critical flux ^f $\geq 8,0\text{ kW/m}^2$	Smoke production ^g
B _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 8,0\text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150\text{ mm}$ within 20 s	-
C _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 4,5\text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150\text{ mm}$ within 20 s	
D _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 3,0\text{ kW/m}^2$	Smoke production ^g



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	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150$ mm within 20 s	
E_{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150$ mm within 20 s	-
F_{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s > 150$ mm within 20 s	-

- ^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



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Test Photo:



During test- Radiant heat source



Before test- Radiant heat source



After test- Radiant heat source



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<p>During test- Ignitability- Edge exposure</p>	<p>During test- Ignitability- Surface exposure</p>
<p>Before test- Ignitability-Edge exposure</p>	<p>After test- Ignitability- Edge exposure</p>



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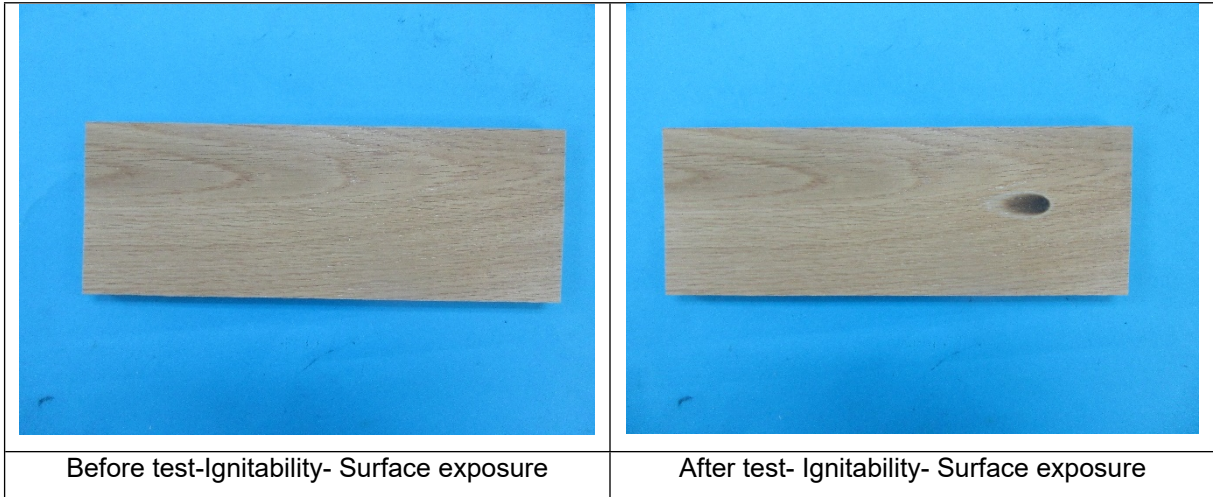
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Ignitability tester	SIT	GZMR-PL-E226	2023-02-20	2024-02-19
Flooring Radiant Panel Tester	FPR	GZMR-PL-E227	2023-04-21	2024-04-20

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