Test Report

GUANGZHOU HEDSOM BUILDING MATERIAL CO.,LTD

ROOM 221, NO.10 HUICAI ROAD, TIANHE DISTRICT, GUANGZHOU,510660,CHINA

Sample Description: CONDUCTIVE PVC FLOOR TILE

SGS Ref No.: CZHL2303001750HI

Style/Item No.: HP

The above 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 arising therefrom. Results apply to the sample as received.

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Test Requested:

EN 13501-1:2018 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	:	MAR.30, 2023
Test Performing Date	:	MAR.30, 2023 TO APR.13, 2023

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

Echo Li
Approved Signatory

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I. Test conducted

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

II. Details of classified product

Sample description	Conductive PVC Floor Tile (provided by client)
Color	Light grey
Sample Size	EN ISO 9239-1: 1050mm×230mm EN ISO 11925-2: 250mm×90mm
Thickness	2.2mm
Mass per unit area	3.9 kg/m^2
Exposed surface	Smooth surface

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 specimen.

III. Test results

Test methods	Parameter	Number of tests	Results
EN ISO 9239-1	Critical flux (kW/m^2)	3	≥11.0
	Smoke (%×minutes)		51.0
EN ISO 11925-2 Exposure = 15 s	Whether vertical flame spread (Fs) in excess of 150 mm within 20 s (Yes/No)	6	No

IV. Classification and direct field of application

a) Reference of classification

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

b) Classification

The product, Conductive PVC Floor Tile (provided by client) , in relation to its reaction to fire behaviour is classified:

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.

c) Field of application

This classification is valid for the following end use applications:

--- With all substrates classified as A1 or 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.

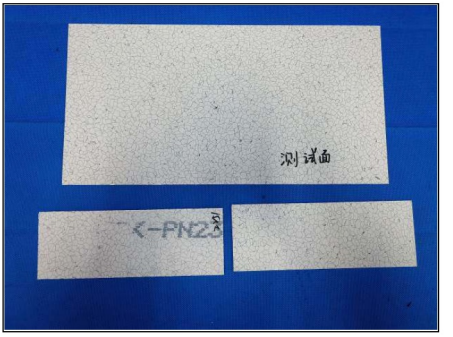
Annex A

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/m² [c] and PCS≤2.0MJ/kg [d]	-
$A2_{fl}$	EN ISO 1182 [a] or		$\Delta T \leq 50℃$, and $\Delta m \leq 50\%$, and $t_f \leq 20s$	-
	EN ISO 1716	and	PCS≤3.0MJ/kg [a] and PCS≤4.0MJ/m² [b] and PCS≤4.0MJ/m² [c] and PCS≤3.0MJ/kg [d]	-
	EN ISO 9239-1 [e]		Critical flux [f] ≥8.0kW/ m²	Smoke production [g]
B_{fl}	EN ISO 9239-1 [e]	and	Critical flux [f] ≥8.0kW/ m²	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/ m²	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 ≥3.0 kW/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}	EN ISO 11925-2 [h] Exposure =15s		Fs > 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.

Photo Appendix:



SGS authenticate the photo on original report only

End of Report