

Test Report

No.SDHL250300270001HI

Date: Mar 19, 2025

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PHOMI MCM CO., LTD.

NO.9, ZHIJIANG ROAD, OVERSEAS CHINESE INVESTMENT ZONE, LAIBIN CITY, GUANGXI, CHINA

Sample Description : ECONICLAY COVERING

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : SDFTS25001169R01_EN

Sample Receiving Date : Mar 01, 2025

Test Performing Date : Mar 04, 2025 to Mar 19, 2025

Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	EN 13501-1:2018 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests.	See attached sheet	/
For further details, please refer to the following page(s)			

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



Peter Zhao
Authorized 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	Board
Thickness	3.3mm
Color	See photos
Area density	4.38kg/m ²

Mounting and fixing:

Test substrate was calcium silicate board meets the requirement of EN13501-1, of Class A2-s1,d0, the density of 900 kg/m³ and thickness of 10mm.

The horizontal joint of the test sample was set on the long wing of the sample, 500mm away from the bottom of the sample.

Specimen was installed on the substrate by glue (Used glue brand: RUBSTIK; Amount of applied: about 200g/m²). Specimens had a distance of at least 80mm from the backing board.

III. Test results

Test methods	Parameter		Number of tests	Results
EN 13823	FIGRA _{0.2MJ} (W/s)		3	0.0
	FIGRA _{0.4MJ} (W/s)			0.0
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)			No
	THR _{600s} (MJ)			0.5
	SMOGRA (m²/s²)			0.6
	TSP _{600s} (m²)			12.7
	Flaming particles or droplets (Yes/No)			No
EN ISO 1716	Homogeneous products	PCS≤3.0MJ/kg ^a	3	2.1



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]

SMOGRA - Smoke growth rate [m²/s²]

TSP_{600s}- Total smoke production within 600 s [m²]

PCS — Gross heat of combustion [MJ/kg or MJ/m²]

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, econiclay Covering (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:

--- With all substrates classified A1 or A2

--- Pasted with glue

--- With horizontal joints



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.

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 $t_f = 0$ (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		-
	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



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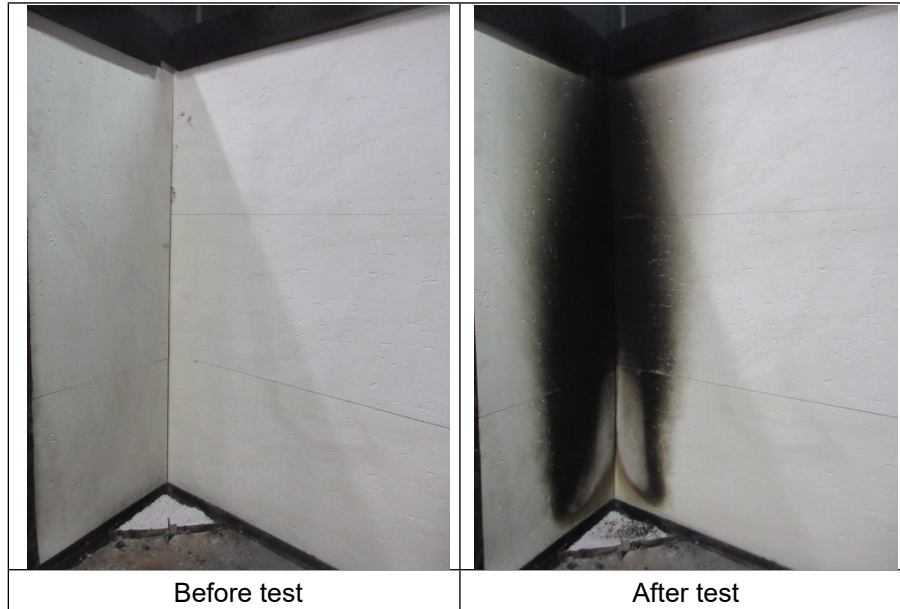
	EN ISO 11925-2 ⁱ Exposure=30s	$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823 and	$FIGRA_{0.4\text{MJ}} \leq 750\text{W/s}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure=30s	$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 ⁱ Exposure =15s	$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles ^h
F	EN ISO 11925-2 ⁱ Exposure = 15 s	$F_s > 150\text{mm}$ within 20 s	

- ^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 s_1 , and d_0 .
^d For any internal non-substantial component of non-homogeneous products.
^e For the product as a whole.
^f $s_1 = \text{SMOGRA} \leq 30\text{m}^2/\text{s}^2$ and $TSP_{600s} \leq 50\text{m}^2$; $s_2 = \text{SMOGRA} \leq 180\text{m}^2/\text{s}^2$ and $TSP_{600s} \leq 200\text{m}^2$; $s_3 = \text{not } s_1 \text{ or } s_2$
^g $d_0 = \text{No flaming droplets/ particles in EN 13823 within 600 s}$;
 $d_1 = \text{no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s}$;
 $d_2 = \text{not } d_0 \text{ or } d_1$.
Ignition of the paper in EN ISO 11925-2 results in a d_2 classification.
^h Pass = no ignition of the paper (no classification);
Fail = ignition of the paper (d_2 classification).
ⁱ 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:



End of Report



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