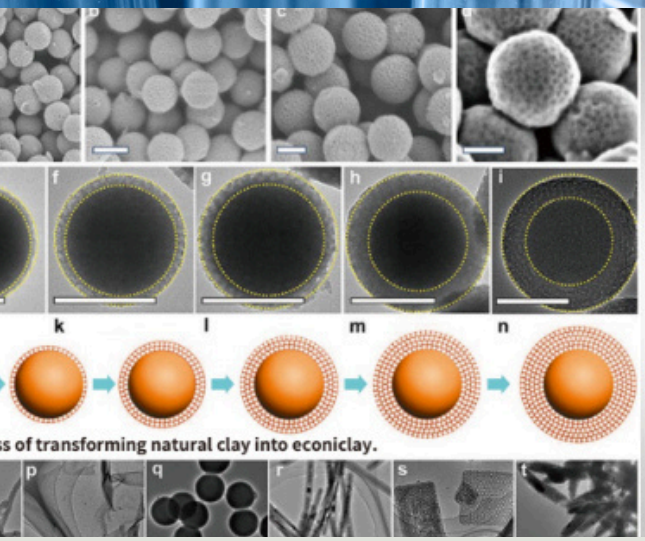
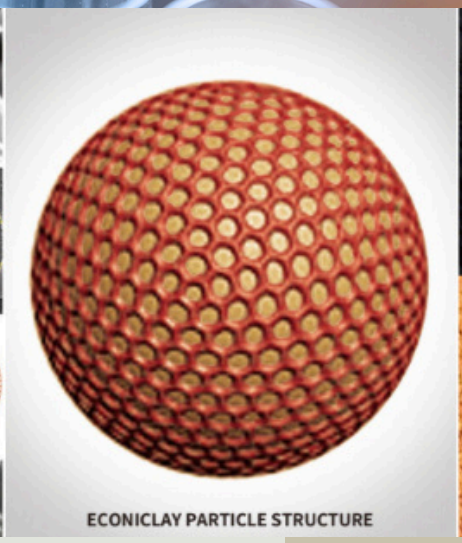
حلـــول المـبانـي الـمـسـتـدامـة
Sustainable Building Solutions

PHOMI

Econic Clay
Test Reports





SAHRJAH UAE
Maleha Road

WWW.SBSPHOMI.AE
+971 6 573 5397
+971 50 2098319

GUANGXI PHOMI MCM CO.,LTD
NO.9, ZHIJIANG ROAD, OVERSEAS CHINESE INVESTMENT ZONE, LAIBIN CITY,GUANGXI,CHINA

Sample Description	:	ECONIC CLAY COVERINGS 3D-TECH SERIES
Manufacturer	:	GUANGXI PHOMI MCM CO.,LTD
Country of Origin	:	CHINA

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.

****

Sample Receiving Date	:	Dec 01, 2022
Test Performing Date	:	Dec 05, 2022 to Feb 27, 2023
Test Performed	:	Selected test(s) as requested by applicant
Test Result(s)	:	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

scan to see the report
SDHL2212100086HI

Peter Zhao
Authorized Signatory

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	Light Ageing Test-UV Exposure ASTM G154-16 Cycle1 & ISO 105-A02:1993/Cor.2:2005 & ASTM D2244-21	See results	/
2	Resistance to Freeze-Thaw Cycling ASTM C1026-13(2018) & Client's Requirement	Number of damaged specimens: 0 Total weight loss: 0.34%	/
	Absorption and Bulk Specific Gravity ASTM C97/C97M-18	Absorption: 8.02% Bulk Specific Gravity: 1.892	/
	Scrub Resistance With reference to ASTM D2486-17 Method A and client's requirement	No substrate exposed after 4000 cycles	/
For further details, please refer to the following page(s)			

SDHL 216546

SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch Hardware Services Co., Ltd. Service Branch

1/F,1st Building,European Industrial Park,No.1 Shunhe South Road,Wusha Section,Daliang Town,Shunde,Foshan,Guangdong,China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn

中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编：528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

PART 1:

Test Item: Light Ageing Test-UV Exposure

Sample Description: See photos

Test Method: ASTM G154-16 Cycle1 & ISO 105-A02:1993/Cor.2:2005 & ASTM D2244-21

Test Condition:

Exposure cycle:

Lamp type: UVA-340

8h UV at (60±3)℃ BPT, 0.89W/(m²•nm)@340nm

4h condensation at (50±3)℃ BPT

Exposure duration: 2000h

Test Result:

Sample	Exposure duration	Grey scale	Δ E*ab
A	1500h	4-5	1.8
	2000h	4-5	2.2

Note:

1. According to ISO 105-A02:1993/Cor.2:2005, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.
2. The results were carried out within 1 hour after above specified durations for the intermediate inspection as well as at the end of the exposure.
3. Δ E*ab was measured by sphere spectrophotometer under D65 standard light source and with 10° observer. The results include specular component reflection condition, 25 mm aperture.

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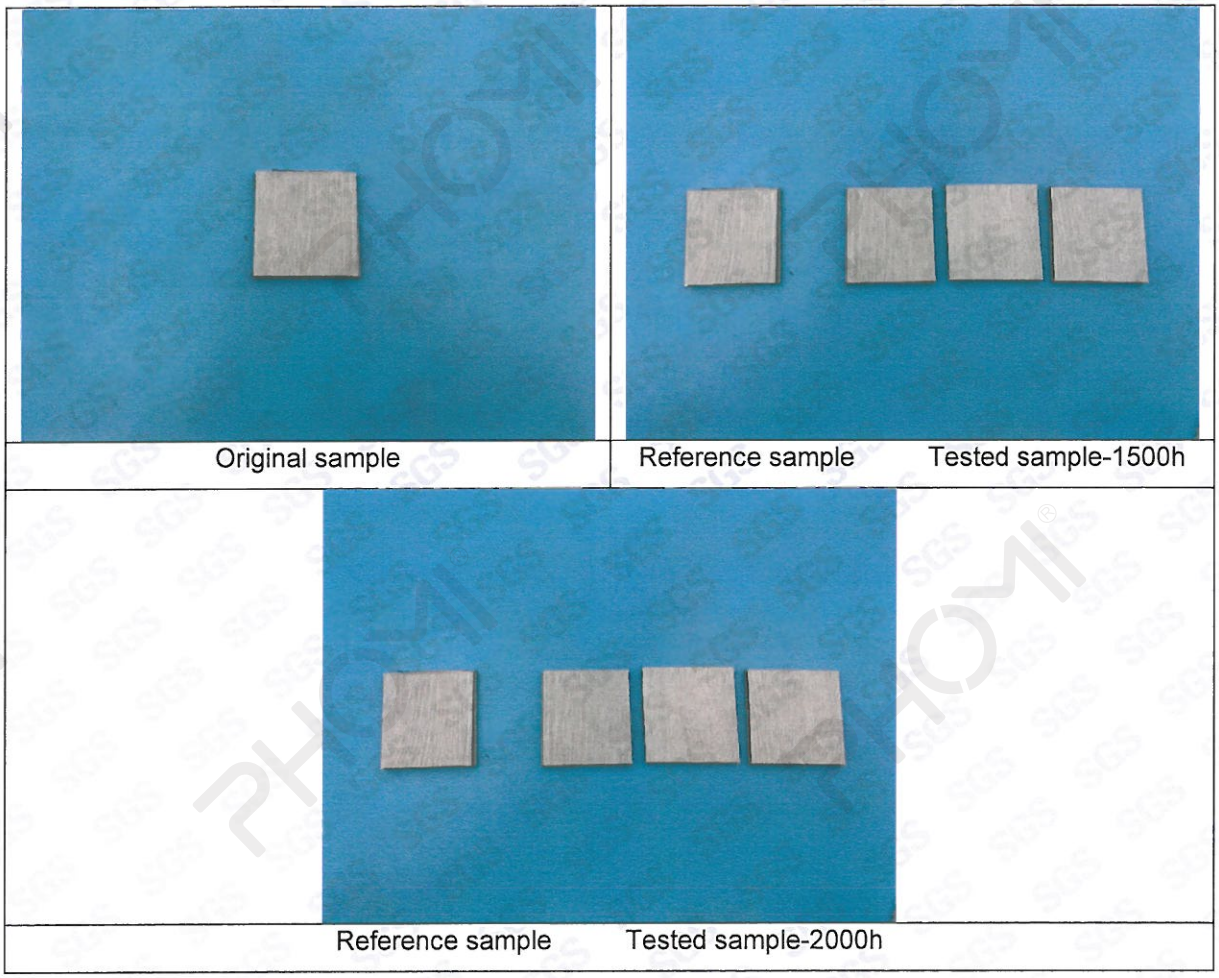
中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Test Photo:



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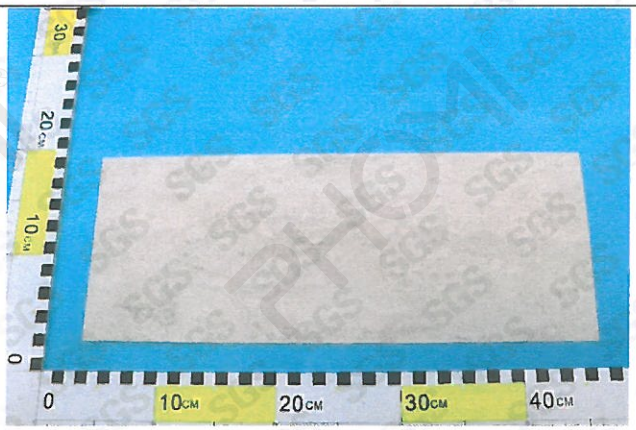
中国·广东·佛山市顺德区大良街道办事处五沙路和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Part 2 (SGS Ref. No.: GZIN2212007283CM)

Original Sample Photo:

	
Test Item 1	Test Item 2
	/
Test Item 3	/

SDHL 216549

SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch
1/F,1st Building,European Industrial Park,No.1 Shunhe South Road,Wusha Section,Daliang Town,Shunde,Foshan,Guangdong,China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn
中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

Test Item 1: Resistance to Freeze-Thaw Cycling

Sample Description: See photo

Test Method: ASTM C1026-13(2018) & Client's Requirement

Test Condition:

Specimens: 200mm×200mm×1.96mm

Condition: ①Dry in an oven at 150℃ for 24h→②Cool down in a desiccator→③put in boiling deionized water for 5 h, soak for 24h, then remove from water→④-3℃,1h→⑤5℃,1h ④-⑤as a cycle, 20 cycles in total→⑥Dry in an oven at 150℃ for 24h.

Test Result:

Test Item	Test Result
Number of damaged specimens	0
Total weight loss	0.34%

Test Item 2: Absorption and Bulk Specific Gravity

Sample Description: See photo

Test Method: ASTM C97/C97M-18

Test Condition:

Specimens: 50mm×50mm×1.96mm

Condition: Dry in an oven at 60°C for 48h → Cool them to room temperature in a desiccator → Immerse in distilled water at 22°C for 48h

Test Result:

Test Item	Test Result
Absorption	8.02%
Bulk Specific Gravity	1.892

Test Item 3: Scrub Resistance

Sample Description: Sheet

Test Method: With reference to ASTM D2486-17 Method A and client's requirement

Test Condition:

Brush: Nylon Bristle Brush

Abrasive Scrub Medium: Leneta standardized scrub medium SC-2

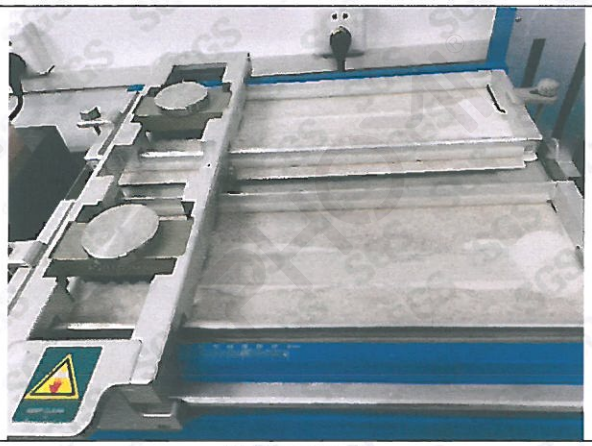
Load: (454±10) g

Speed: (37±1) cycles/min

Test Result:

Test Item	Result
Scrub Resistance	No substrate exposed after 4000 cycles

Test Photo:



During Test

After test

Remark: Part 2 test was subcontracted to SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.

End of Report

SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch Handmade Services Co., Ltd. Shunde Branch

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中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e sgs.china@sgs.com

PHOMI MCM CO., LTD.

TEST REPORT

SCOPE OF WORK
Phomi Flexi Econic Clay

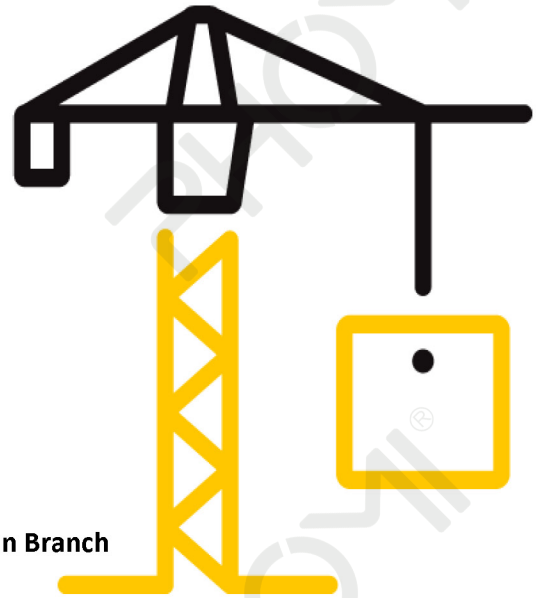
REPORT NUMBER
220228007SHF-001

TEST DATE(S)
2022-02-28 - 2022-03-14

ISSUE DATE
2022-03-14

PAGES
5

DOCUMENT CONTROL NUMBER
LFT-APAC-SHF-OP-10k(May 1, 2021)



Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

Statement

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2.This report is invalid without authorized person's signature.

3.This report is invalid where any unauthorized modification indicated.

4.Don't copy this report in partial (except full copy) without any official approval in written by our company. This report is invalid without re-stamping the special seal for testing in copying report.

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6.Intertek's written consent is required to use Intertek's name or logo on the object, product or service being tested. The observations and test results in this report relate only to the sample under test. This report alone does not indicate that the item, product or service has passed any Intertek certification program.

7.The report was digital signed by Shang Hai, Intertek Group plc, please using Adobe Acrobat Reader to verify the authenticity.

Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch
Plant 5, No. 6958 Daye Road, Fengxian District, Shanghai, China
Tel:+86 21-61136116 Fax: 021-61189921
Website: www.intertek.com

Test Report

Issue Date: 2022-03-14 Intertek Report No. 220228007SHF-001

Applicant: PHOMI MCM CO., LTD.

Address: 15/F, BUILDING A2, MODERN AVENUE, SCIENCE CITY, HUANGPU DISTRICT, GUANGZHOU

Attn: Robin Lei

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Phomi Flexi Econic Clay	**Brand**	/
Sample Description	Good Condition	**Sample Amount**	7 pcs
		Received Date	2022-02-25

Sample ID	Model	Specification
S220228007SHF.001	Slate series	1200*600mm

Test Methods And Standards

Test Standard	ASTM E84-19a Standard Test Method for Surface Burning Characteristics of Building Materials
Specification Standard	/
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report relates specifically to the sample(s) that were drawn and provided by the applicant or their nominated third party. The reported result(s) provide no warranty or verification on the sample(s) representing any specific goods and/or shipment and only relate to the sample(s) as received and tested.

Report Authorized

Name: Harrison Li

Title: Reviewer

Name: Lu Cheng

Title: Project Engineer

intertek
Total Quality. Assured.

Test Report

Issue Date: 2022-03-14 Intertek Report No. 220228007SHF-001

Test Items, Method and Results:

Test Method: ASTM E84-19a Standard Test Method for Surface Burning Characteristics of Building Materials

Specimen Mounting Method:

The 24.02-ft. long test specimen was consisted of six 3.94-ft. long x 23.62-in. wide x 0.11-in. thick and one 0.39-ft. long x 23.62-in. wide x 0.11-in. thick "Phomi Flexi Econic Clay".

Per sponsor's requirement, surface with patterned texture was exposed to the fire.

The specimen was supported with 0.25-in. diamerter metal rods that were spaced approximately every 24-in.

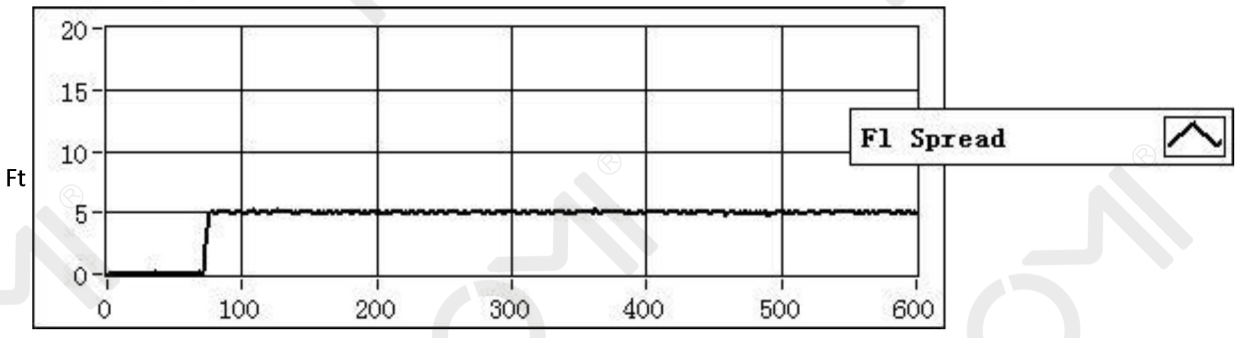
Test Observation (min:sec)

Melting	Blistering	Transient Ignition	Steady Ignition	Flaming drops
/	/	/	1:09	/
Delamination	Sagging	Shrinkage	Cracking	Floor Flames
/	/	/	/	/

Test Result

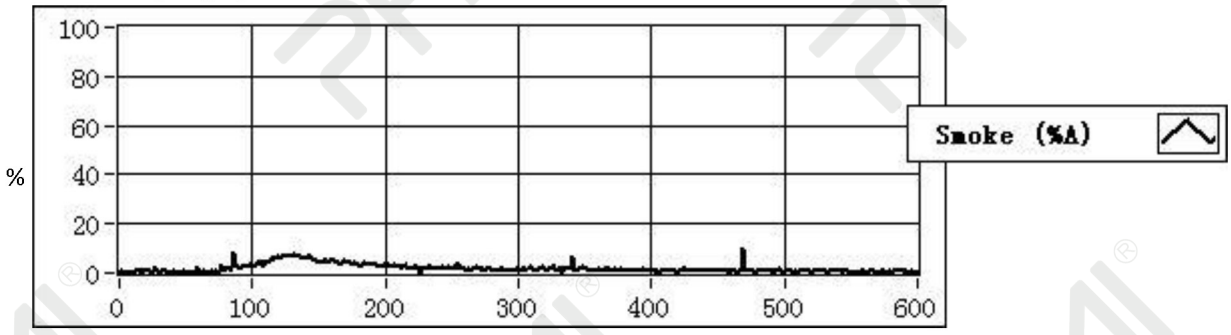
Flame Spread Index (FSI)	25	Smoke Developed Index(SDI)	20

Flame spread graph



Time (Sec)

Smoke developed graph

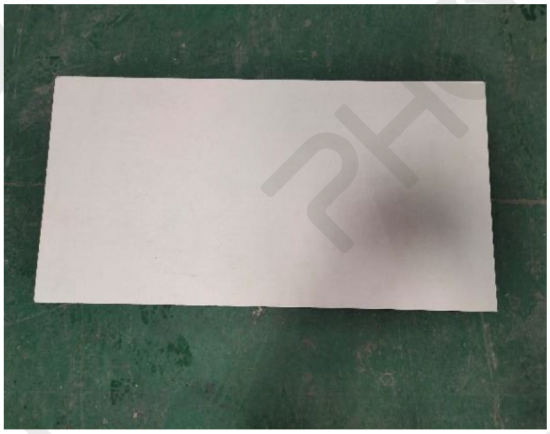


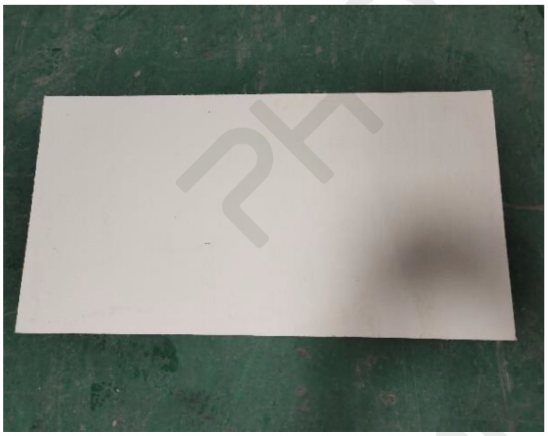
Time (Sec)

Test Report

Issue Date: 2022-03-14 Intertek Report No. 220228007SHF-001

Appendix A: Sample Received Photo





Revision:

NO.	Date	Changes
220228007SHF-001	2022-03-14	First issue

PAVUS, a.s.
AUTHORIZED BODY 216
NOTIFIED BODY 1391
ACCREDITED CERTIFICATION BODY FOR PRODUCTS N° 3041

Branch: FIRE TESTING LABORATORY
VESELÍ NAD LUŽNICÍ
Čtvrť J. Hybeše 879
CZ 391 81 Veselí nad Lužnicí
Czech Republic

Address:
Prosecká 412/74, 190 00 Praha 9 – Prosek
Tel.: 286 019 587 Fax: 286 019 590
E-mail: mail@pavus.cz, http://www.pavus.cz

Phone:+420 381 477 418
Fax: +420 381 477 419
Mail to: veseli@pavus.cz

REACTION TO FIRE CLASSIFICATION REPORT

The object of classification:	*Floor coverings in accordance with CSN EN 13501-1+A1:2010, clause 12*
Issue number:	***PK1-02-15-001-E-0***
Product name and type:	*Modified material MCM PHOMI*
Sponsor:	***MCM Phomi s.r.o.*** *Zikova 708/5* *160 00 Prague* *Czech Republic*
Issuing organization:	*PAVUS, a.s.* *Authorized Body 216* *Notified Body 1391* *Accredited certification body for products No 3041* *- Accreditation issued by Czech Accreditation Institute, Public Service Company* *- Certificate of Accreditation N° 542/2014* *Prosecká 412/74* *190 00 PRAHA 9* *Order no. Z210150045*
Date of issue:	*2015-03-09*
Copies in total:	*4*
Copy number:	*3*
Pages in total:	*4*

1. INTRODUCTION

1.1. This classification report defines the classification assigned to *Modified material MCM PHOMI* in accordance with the procedures given in CSN EN 13501-1+A1:2010.

1.2. This Classification Report has 4 pages and it can be used or reproduced as a whole only

2 DETAILED INFORMATION ON THE ELEMENT TO BE CLASSIFIED

2.1 General

The product – *modified material MCM PHOMI* - is made by the company *EOSD flexible Ceramics CO., Ltd, EOSD industry Park, Zhongcun Town, Panyu District, Guangzhou City, China.* It is used as claddings.

.

2.2 Product description

Flexible claddings contents of mesh with mass per unit area of 0.21 kg/m2 and board with mass per unit area of 4.42 kg/m2 made from 83 % of a clay and from 17 % of other components. Total product thickness is of 4 mm. (Values of mass per unit area and of thickness were measured at ATL.)

3 REPORTS AND RESULTS IN SUPPORT OF CLASSIFICATION

3.1 Reports

Name of the Laboratory **Address** **Accreditation number:**	**Name of sponsor** **of the Test Report**	**Report number** **Date of issue**	**Test method**
PAVUS, a. s. *Veseli nad Luznici* *ATL No. 1026*	*MCM Phomi s.r.o.* *Zikova 708/5* *160 00 Prague* *Czech Republic*	*Pr-14-1.207* *2014-11-12*	*CSN EN ISO 11925-2:2011*
		Pr-14-1.208 *2014-11-11*	*CSN EN ISO 9239-1:2010*
Textilní zkušební ústav, s.p. *Brno* *AZL č. 1001*	*EOSD flexible Ceramics Co., Ltd.* *EOSD industry Park, Zhongcun Town* *Panyu District, Guangzhou City* *China*	*FZZ/08/0628* *2008-06-16*	*CSN EN ISO 9239-1:2010*

3.2 Results

The specimens of flexible modified material for testing according to CSN EN ISO 9239-1 were mechanically fixed to the substrate in accordance with ČSN EN 13238 – fibre cement board.

3.2 Results

Test method	Parameter	Number of tests	Results	
			Continuous parameter-mean	Compliance with parameters
CSN EN ISO 1716 *Mesh*	Q_{PCS} *(MJ/m²)*	*3*	*0,95*	*≤ 4,0 (A2)*
CSN EN ISO 1716 *Cladding*	Q_{PCS} *(MJ/kg)*	*3*	*1,74*	*≤ 3,0 (A2)*
CSN EN ISO 1716 *Product as a whole* *Modified material*	Q_{PCS} *(MJ/kg)*	*-*	*1,87*	*≤ 3,0 (A2)*
CSN EN ISO 9239-1	*Critical flow CF (kW/ m²)* *Integral of smoke obscuration s (%·min)*	*3*	*12,0* *10,3*	*≥ 8,0 (A2)* *≤ 750 (s1)*

4 CLASSIFICATION AND FIELD OF APPLICATION

4.1. Classification references

This classification was carried out in conformity with CSN EN 13501-1+A1: 2010.

4.2 Classification

The product – *Modified material MCM PHOMI* - in conformity with its behaviour under the reaction-to-fire tests, is classified as follows:

Reaction to fire class: $A2_{fl}$ – s1

4.3. The field of application

This classification applies for the following parameters of the product:

Parameters of the product described in the clause 2.2.

This classification applies for the following end-use applications:

The product is intended for using as a floor covering for industrial use on substrates with class reaction to fire A1 or A2-s1,d0 with density at least of 1,200 kg/m³.

5 RESTRICTIONS

This Classification Report does substitute neither the type approval nor the product certificate.

This classification is valid, unless the conditions, under which it was issued, have been changed. The sponsor may request the issuing authority to review the influence of changes to the classification validity.

In the case of a dispute wording of the Czech version of the test report is decisive.

Elaborated by:

Pavla HEJNÁ

Fire testing laboratory

PAVUS, a. s.
Autorizovaná osoba AO 21
Pobočka
391 81 Veselí nad Lužnicí

Approved by:

Ing. Jaroslav DUFEK

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هاتف. ٦٦٦٦ ٨١٥ ٤ ٩٧١+ - فاكس. ٨٨٥ ٨٤٣٨ ٤ ٩٧١+
mapei.ae - info@mapei.ae

INTERNAL TEST REPORT

Adhesion Test – lab

Doc No: P TS01 AE A7
Rev: 00
Dated: 16/09/22

Date : 04th July 2024
Reference : UAE-TS-IR-033-2024

To : SBS - Sustainable Building Solutions
Project : General
Requested By : Gireesh Kumar

Subject : Determination of bond strength of ULTRALITE S2 Grey and KERABOND PLUS Grey
Batch number : ULTRALITE S2 Grey: 02-04-24
KERABOND PLUS Grey: 19-10-23
Sampling : As mentioned in the 'Description' below

Sample fixed on : 31st May 2024
Test period : 28 days
Testing Date : 28 Days - 28th June 2024
Ambient conditions : Temperature 23.2°C, Humidity 61.6%

Conducted by : Lorenzo Airaghi |TSR 9488
Standard used : ISO 13007 Reference

ULTRALITE S2 Grey

28 Days				
No.	**Description**	**Results (N/mm²)**	**Average (N/mm²)**	**Mode of Failure***
1	50mm x 50mm Special Tile installed over Standard Concrete Slab	0.91	**0.97**	AF-T
2		0.96		AF-T
3		0.13		AF-T

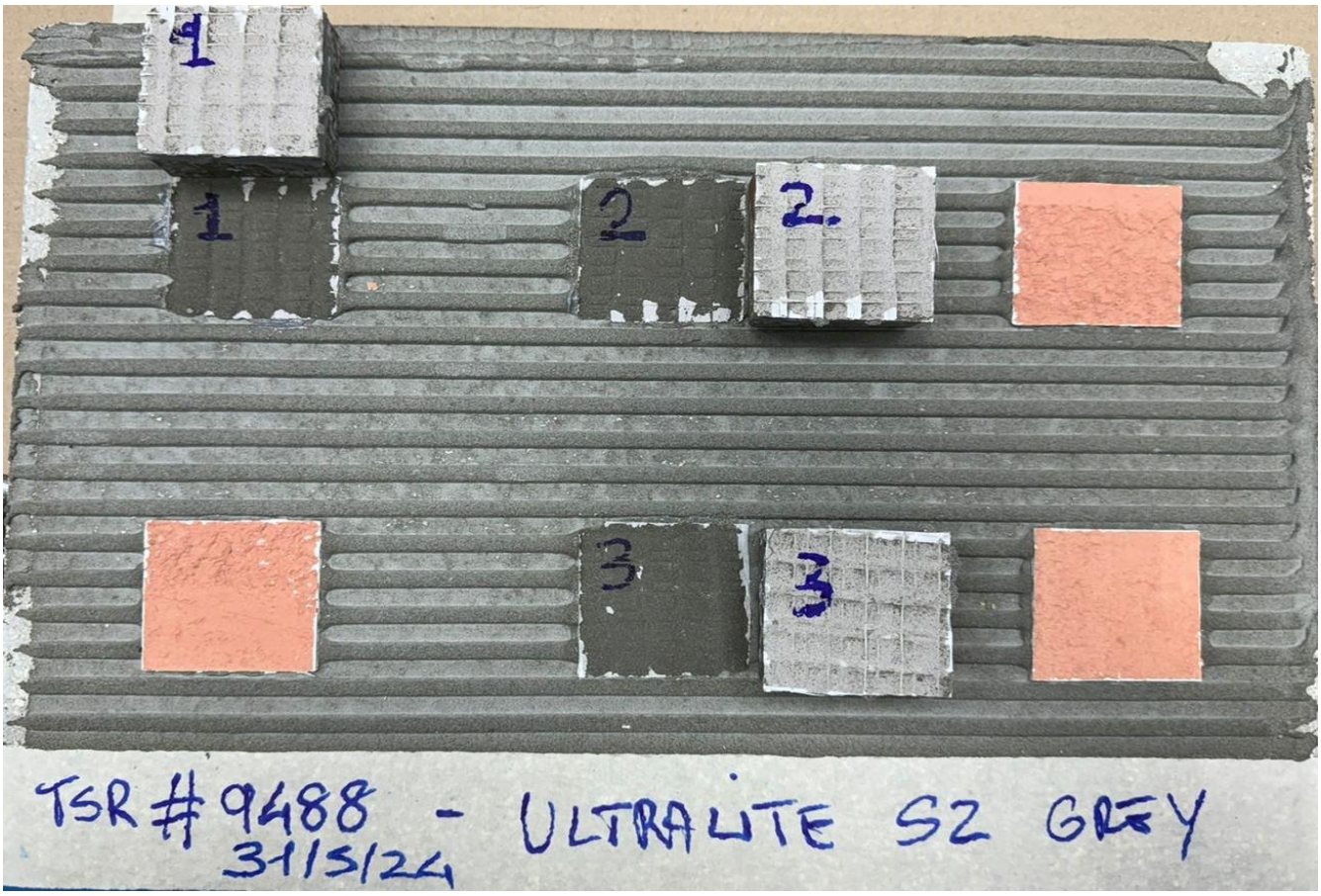
*AF-T – Adhesive Failure between Tile and Adhesive

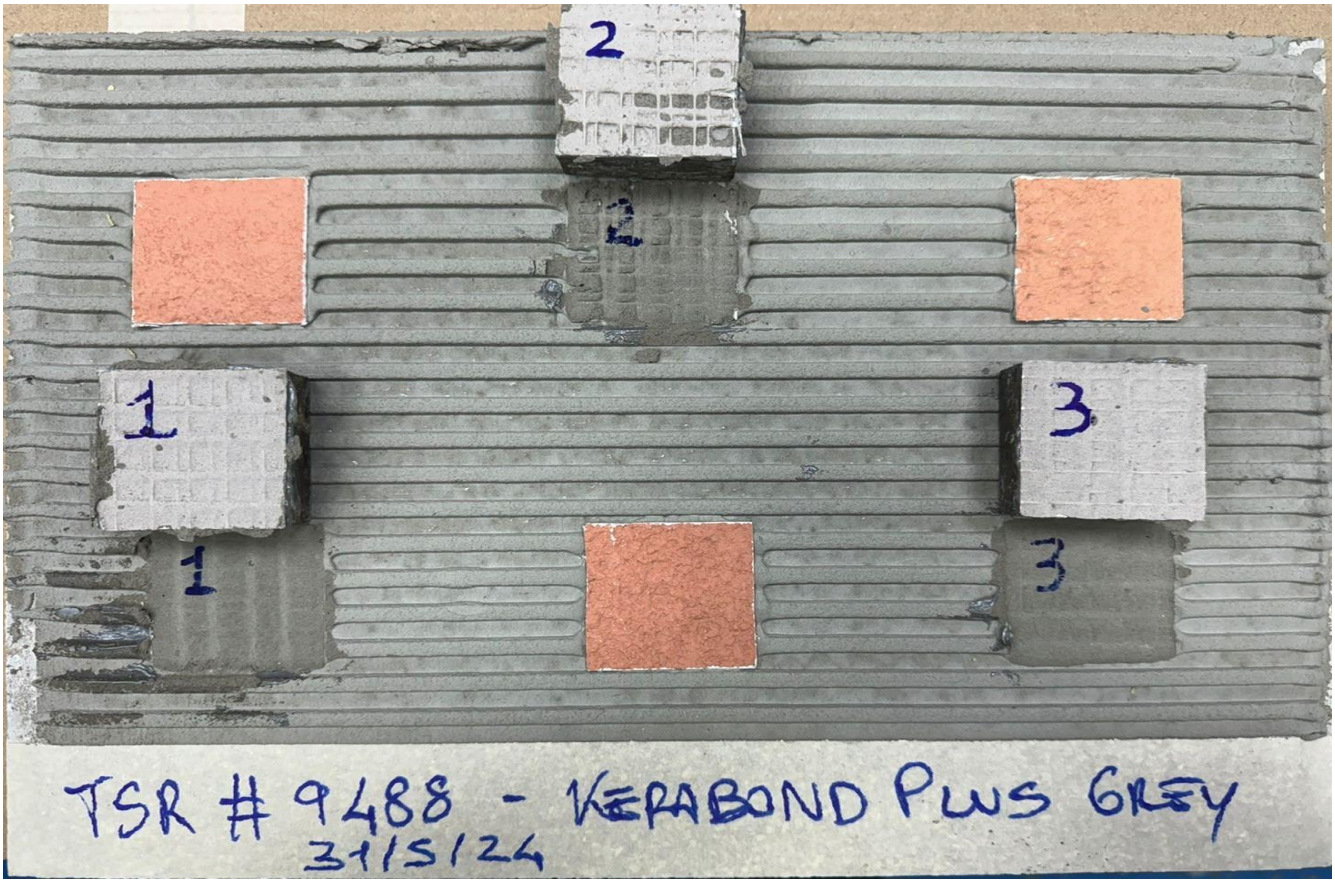
KERABOND PLUS Grey

28 Days				
No.	**Description**	**Results (N/mm²)**	**Average (N/mm²)**	**Mode of Failure***
1	50mm x 50mm Special Tile installed over Standard Concrete Slab	0.45	**0.41**	AF-T
2		0.40		AF-T
3		0.37		AF-T

*AF-T – Adhesive Failure between Tile and Adhesive

Note: Test samples provided by the client.





To determine the adhesion bond, the calibrated adhesion tester was mounted onto the pre-fixed 50mm square dollies and a uniform force was applied onto the sample yielding to register the results above. This Internal (test) Report declares results of the mentioned test(s) carried out on the products. If required kindly request a separate 'Letter of Recommendation' based on specifics, which will define the suitability of the product(s) for the desired specific purpose.

Regards,

Albert J Thykadavil
Technical Services Manager

MAPEI CONSTRUCTION CHEMICALS L.L.C
MAPEI
TECHNICAL DEPT.
P.O. Box: 73869
DUBAI - U.A.E

中国认可 国际互认 检测 TESTING CNAS L7673

TEST REPORT

正 本

Applicant : PHOMI MCM CO., LTD

Address : Room 202, Block A, No. 62, Nan Yun Er Road, Science City, Huangpu District, Guangzhou

The following merchandise was (were) submitted and identified by the client as:

Name of Sample :	Long-term antiepidemic covering
Test Type :	Commission
Sample Quantity :	25 PCS
Model :	/
Batch No. :	/
Brand :	/
Manufacturer:	/
Sample Received :	2022/05/24
Test Period :	2022/05/24 – 2022/06/21
Test Items :	Please refer to next page(s).
Test Method :	Please refer to next page(s).
Test Result :	Please refer to next page(s).
Sample Description :	Solid
Note:	/

Edited by: 黄婉盈 **Approved by:**

Checked by: 叶智坚 **Official Seal:**

Add: No. 368 Xingke Road, Tianhe District, Guangzhou, P. R .China. E-mail: atc@gic.ac.cn
Tel: 400-119-8299，020-85231290 Website: http://www.cas-test.org

TEST RESULTS:

Table 1 Test data of antiviral activity

Virus strain	Test time	Average logarithm of virus titer on control group at 0 h U_0 lg(TCID$_{50}$/cm^2)	Average logarithm of virus titer on control group after acting U_t lg(TCID$_{50}$/cm^2)	Average logarithm of virus titer on test group after acting A_t lg(TCID$_{50}$/cm^2)	Antiviral activity R	Antiviral rate (%)
HCoV-229E	1 h	5.69	5.68	5.60	0.08	17.16
	12 h	5.69	5.66	3.50	2.16	99.31

Inspection instructions

1. Test method
   ISO 21702:2019 Measurement of antiviral activity on plastics and other non-porous surfaces
2. Test item
   Virus strain: HCoV-229E(VR-740)
   Cell: Huh-7 cell
3. Test equipment
   Instruments:Biological safety cabinet(class II);CO_2 incubator; Inverted microscope; Constant temperature and humidity incubator; Cryogenic refrigerated centrifuge; High pressure steam sterilizer; Water bath etc.
4. Test condition
   1) Environment temperature:(20~24) ℃
   2) Environment humidity: (60~64) %RH
   3) Sample size: (50±2)mm×(50±2)mm
5. Computational formula
   The antiviral activity:
   $R = (U_t - U_0) - (A_t - U_0) = U_t - A_t$
   R is the antiviral activity;
   U_0 is the average of the common logarithm of the number of plaques recovered from the three untreated test specimens immediately after inoculation;;
   U_t is the average of the common logarithm of the number of plaques recovered from the three untreated test specimens after acting;
   A_t is the average of the common logarithm of the number of plaques recovered from the three treated test specimens after acting.

******** END OF REPORT ********

Statement

1. This report is issued by The CAS Testing Technical Services（GuangZhou）Co.,Ltd. (hereinafter referred to as "Our Company").
2. This report is invalid if not affixed with authorized stamp of test and paging seal.
3. This report is invalid without signature of verifier and approver.
4. This report is invalid if being supplemented, deleted or altered.
5. Without written permission of our Company, this report can not be reproduced in part (except in whole).
6. The result(s) shown in this report refer only to the sample(s) tested.
7. Objections to this report must be submitted to our Company within 15 days. Otherwise, it will automatically deem to have accepted this report.
8. The Client shall be responsible for the accuracy, authenticity and completeness of the samples and information submitted for inspection, and the disputes arising therefrom shall be borne by the Client.
9. As any reports is issued as a result of this application for testing services, our Company will strictly keep confidentiality to the Clients. Except where disclosure is required on the basis of laws, regulations, judgments, and rulings (including in accordance with summons, court, or government proceedings).
10. The result(s) or conclusion(s) shown in this report about the description of the characteristics, composition, properties or quality are based on the specific time, methods and applicable criteria. Using different methods and criteria or under different environmental conditions for testing may come to different conclusions.
11. The data result(s) just for scientific research,teaching,internal quality control etc.
12. Since our Company's causes lead to modify the contents of this report, our Company shall reissue this report and bear the modification cost. The Client shall return the original report. Since the Client's causes lead to modify the contents of this report, the Client need to submit an application form for the change of report to our Company. The Client shall bear the modification cost and return the original report if our Company approves to reissue this report.
13. The English version of this statement is translated from the Chinese one. If there is any disagreement between them, the Chinese version will be the final explanation.

TEST REPORT

No. : XMCCM140300198-3.3
Date : Jun.27, 2014

PHOMI MCM CO., LTD
112 ZHONGSHENG ROAD, PANYU DISTRICT, GUANGZHOU, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : MCM FLEX-CLAY, UNFIRED FLEXI CLAY CLADDING & FLOORING
Test required : French VOC Regulation
Date of Receipt : May.14, 2014
Test Period : May.14, 2014 to Jun. 25, 2014

Test Result Summary

No.	Test(s) Requested	Result(s)
1	French VOC Regulation	Class: A
For further details, Please refer to the following page(s)		

******** To be continued********

Signed for and on behalf of
SGS-CSTC Ltd.

Civi Huang
Xiamen Materials Lab Technical Supervisor

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Test Method

Test Method(s)	Principle	Parameter	Detection Limit	Uncertainty	
ISO 16000-3 ISO 16000-6 ISO 16000-9 ISO 16000-11	GC/MS	VOC CMR	5 μg/m³ 1 μg/m³	17.5% (RSD) U = 2 x RSD=35%	
	HPLC/UV	Volatile aldehydes	5 μg/m³	16% (RSD) U = 2 x RSD= 32%	
Test chamber parameter					
Chamber volume (L)	119	Temperature (℃)	23	Relative humidity (%):	50
Air change rate (per hour)	0.5	Loading ratio (m^2/m^3)	1		
Test condition: Sample stayed in test chamber during the whole 28 days testing period.					
Sample preparation Edges and back covered with aluminum foil.					

Test Result(s)

	Concentration after 28 days μg/m³	C	B	A	A+
TVOC	16	>2000	<2000	<1500	<1000
Formaldehyde	57	>120	<120	<60	<10
Acetaldehyde	<5	>400	<400	<300	<200
Toluene	<5	>600	<600	<450	<300
Tetrachloroethylene	<5	>500	<500	<350	<250
Ethylbenzene	<5	>1500	<1500	<1000	<750
Xylene	<5	>400	<400	<300	<200
Styrene	<5	>500	<500	<350	<250
2-Butoxyethanol	<5	>2000	<2000	<1500	<1000
Trimethylbenzene	<5	>2000	<2000	<1500	<1000
1,4-Dichlorobenzene	<5	>120	<120	<90	<60
CMR compounds		Maximum allowed air concentration			
Benzene	<1	<1			
Trichloroethylene	<1	<1			
Dibutyl phthalate (DBP)	<1	<1			
Diethylhexyl phthalate (DEHP)	<1	<1			

******** To be continued********

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TEST REPORT

Remark:

< Means less than

> Means higher than

This VOCs test covered only substances that can be adsorbed on Tenax-TA and that can be thermally desorbed and analyzed by gas chromatography mass spectrometric detector. If other emission occurred then these could not be monitored or with limited reliability only. The method is not optimal for very volatile compounds. For these substances small results and a higher uncertainty in the measurement cannot be excluded. All compounds identified by comparison with a mass spectrum obtained from a library. Calibrated as toluene equivalent.

Statement

This test report is valid for the tested samples only. Without permission of the test center this test report is not permitted to be duplicated in extracts.

This test report does not entitle to carry any safety mark on this or similar products.

******** To be continued********

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Xiamen Branch Testing Technical Service Construction Material Laboratory
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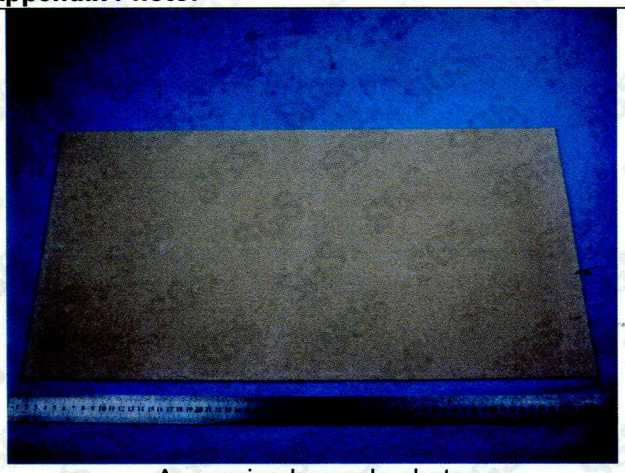
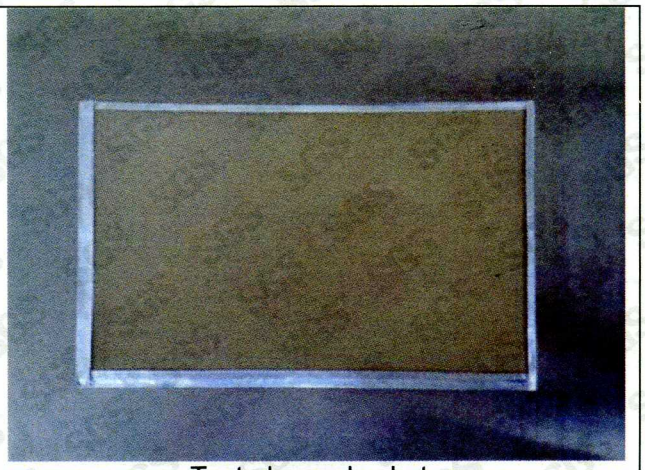
TEST REPORT

No. : XMCCM140300198-3.3
Date : Jun.27, 2014

Appendix Photo:



As received sample photo



Tested sample photo

SGS authenticate the photos on original report only

********End of report********

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TEST REPORT

No. : GZIN150901320CCM-02
Date : Mar. 16, 2016

CLIENT NAME: PHOMI MCM CO., LTD.
ADDRESS: 112 ZHONGSHENG ROAD, PANYU DISTRICT, GUANGZHOU, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name	:	MCM FLEX-CLAY, Unfired Flexi Clay Cladding & Flooring
SGS Ref. No.	:	GZIN150901320CCM-02
Test Performed	:	Selected test(s) as requested by applicant
Date of Receipt	:	Sep. 09, 2015
Test Period	:	Sep. 09, 2015 to Feb. 24, 2016

Test result(s) : Please refer to the following page(s)

********To be continued********

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

Jay Xue
Authorized signatory

** Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. The report should not be reproduced except in full without written approval from the Company

198 Kezhu Road, Scientech Park, Economic & Technical Development District, Guangzhou, China. 510663 t (86-20) 82155555 f (86-20) 82075080 www.sgsgroup.com.cn
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TEST REPORT

Summary of test results

NO.	Test items	Test methods	Test results		
1	Freeze-Thaw Cycling	With reference to ASTM C1026-13 and Client's requirement	Weight loss: 0.42% Appearance: No visible change		
2	Water absorption	ASTM C97/C97M-15	12.4%		
	Bulk specific gravity		1.83		
3	Stain resistance test	ANSI Z124.6-2007 Clause 5.2	Total rating: 76 The maximum stain depth: 0.101mm (See table 1 and note 1)		
4	Chemical resistance test	ANSI Z124.6-2007 Clause 5.5	See table 2		
5	Static coefficient of friction	ASTM C1028-07$^{\varepsilon 1}$	Dry condition: 1.11 Wet condition: 0.70		
6	Abrasion resistance	ASTM C241/C241M-15$^{\varepsilon 1}$	8		
7	Light Ageing Test-UV Exposure	ASTM G154-12a Cycle1 & ASTM D2244-15a & ASTM D2616-12	Exposure duration	Gray scale	$\triangle E^*_{ab}$
			2500h	4.0	2.6

********To be continued********

Test Information:

Sample description: See photo

Test item 1: Freeze-Thaw Cycling

Test method: With reference to ASTM C1026-13 and Client's requirement

Test condition:

Specimen: 76×76×3.28mm

Condition: ①Drying in 150±5℃,24h→②Boiling water, 5h→③Soaking for an additional 24h→④Freeze in -3℃, 1min→⑤Thaw in 5℃, 1min→④~⑤ as a cycle, There are 20 cycles→⑥Drying in 150±5℃ for 24h→⑦Cooling in the desiccators until room temperature

Test result:

Weight loss: 0.42%

Appearance: No visible change

Test item 2: Water absorption and Bulk specific gravity

Test method: ASTM C97/C97M-15

Test condition:

Specimen: 50×50×3.28mm

Condition: 60±2℃, 48h→Distilled water, 22±2℃, 48h

Test result:

Water absorption: 12.4%

Bulk specific gravity: 1.83

********To be continued********

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Test item 3: Stain resistance test

Test method: ANSI Z124.6-2007 Clause 5.2

Test condition:

Specimen: 100×100×3.28mm

Reagents: (see table 1)

Test time: 16h

Test result:

Table 1: Test result of stain resistance test

Reagent	Rating	
	Covered	Uncovered
Black crayon	5(stain depth:0.076mm)	5(stain depth:0.081mm)
Black liquid shoe polish	5(stain depth:0.091mm)	5(stain depth:0.085mm)
Blue washable Ink	5(stain depth:0.083mm)	5(stain depth:0.080mm)
Gentian violet solution	5(stain depth:0.102mm)	5(stain depth:0.103mm)
Beet juice	1	1
Grape juice	1	1
Lipstick	5(stain depth:0.091mm)	5(stain depth:0.092mm)
Hair dye	5(stain depth:0.012mm)	5(stain depth:0.102mm)
Iodine solution	5(stain depth:0.101mm)	5(stain depth:0.092mm)
Wet tea bag	1	1
Total rating	76 (The maximum stain depth: 0.101mm)	

Total rating: 76

The maximum stain depth: 0.101mm

********To be continued********

Note: 1.Cleaning procedures:

1.1 The specimen shall be washed with tap water and cheesecloth or soft bristle brush using 20 scrub cycles with normal hang pressure and dried by blotting. A stain shall be defined as a change in surface texture or a change in color. Specimens not staining at this point shall have a rating or 1-non-sraining.

1.2 Stains present after initial wash with water shall be washed with alcohol or naphtha using cheesecloth or soft bristle brush for 20 cycles using normal hand pressure. The specimens shall be washed with tap water and dried by blotting. Specimens not staining at this point shall have a rating of 2-removable by alcohol or naphtha.

1.3 Stains present after the aforementioned cleanings shall be scrubbed 20 scrub cycles with standard souring powder and wet cheesecloth or soft bristle brush using normal hand pressure. The specimens shall be washed with tap water and dried by blotting. Reduction of gloss due to scrubbing with standard scouring power shall not constitute staining. Specimens whose strain is removed by the standard souring powder shall have a rating of 3-removable by first application of standard scouring powder.

1.4 Stains present after the aforementioned cleanings shall be scrubbed 40 scrub cycles with standard souring powder and wet cheesecloth or soft bristle brush using normal hand pressure. The specimens shall be washed with tap water and dried by blotting. Reduction of gloss due to scrubbing with standard scouring power shall not constitute staining. Specimens whose strain is removed by this additional shall have a rating of 4-removable by two standard scouring powder scrubbings.

1.5 Any specimen with stain remaining after the aforementioned cleanings shall have a rating of 5.Any specimen with stain remaining after the above cleanings shall be tested to determine the depth of staining. The affected area shall be cut and lightly sanded with 600 grit abrasive cloth until the stain is removed. The depth shall be measured to the nearest 0.025mm。

Test item 4: Chemical resistance test

Test method: ANSI Z124.6-2007 Clause 5.5

Test condition:

Specimen: 100×100×3.28mm

Reagents: (see table2)

Test time: 16h

Test result: See table 2

********To be continued********

Table 2: Test result of chemical resistance test

Reagent	Results	
	Covered	Uncovered
Naphtha	No visible change	No visible change
Ethyl alcohol	No visible change	No visible change
Amyl acetate	No visible change	No visible change
Household ammonia (10%)	No visible change	No visible change
Citric acid (10%)	Lightly affected	Lightly affected
Urea 6% water solution	No visible change	No visible change
Hydrogen peroxide solution (3%)	No visible change	No visible change
Concentrated sodium hypochlorite solution	No visible change	No visible change
Toluene	No visible change	No visible change
Ethyl acetate	No visible change	No visible change
Lye solution (1% to 2%)	No visible change	No visible change
Acetone	No visible change	No visible change
Trisodium phosphate (5%)	No visible change	No visible change
Vinegar	No visible change	No visible change
Pine oil	No visible change	No visible change

********To be continued********

Test item 5: Static coefficient of friction

Test method: ASTM C1028-07$^{\varepsilon 1}$

Test condition:

Specimen: 200×200×3.28mm

Contact area: 75×75mm^2

Load: 23.8kg

Test result:

Dry condition: 1.11

Wet condition: 0.70

Test item 6: Abrasion resistance

Test Method:

ASTM C241/C241M-15$^{\varepsilon 1}$ Standard Test Method for Abrasion Resistance of Stone Subjected to Foot Traffic

Specimens: 50mm×50mm×25mm, 3pcs

Test Result:

Testing surface: see the photo

Specimens identification No.	1	2	3
Abrasive hardness	8	8	7
Mean abrasive hardness	8		

Note: The test item 6 was carried out by a SGS internal laboratory.

********To be continued********

Test item 7: Light Ageing Test-UV Exposure

Test method: ASTM G154-12a Cycle1 & ASTM D2244-15a & ASTM D2616-12

Test condition:

Exposure cycle:

ASTM G154-12a cycle 1

Lamp type: UVA-340

8h UV at (60±3)℃ BPT, 0.89W/(m^2•nm)@340nm

4h condensation at (50±3)℃ BPT

Exposure duration: 2500h

Test result:

Sample	Exposure duration	Gray scale(See note 1)	$\triangle E^*_{ab}$ (See note 2)
1	2500h	4.0	2.6

Note:

1. According to ASTM D2616-12, the gray scale was determined under the D65 standard light, with scale 5.0 as the best and scale 1.0 as the worst.
2. $\triangle E^*_{ab}$ was measured by sphere spectrophotometer under D65 standard light source and with 10° observer. The results exclude specular reflection condition, 25mm aperture.
3. This test report supersedes the test report GZIN150901320CCM-01, the original test reports (paper and electronic) are voild.

********To be continued********

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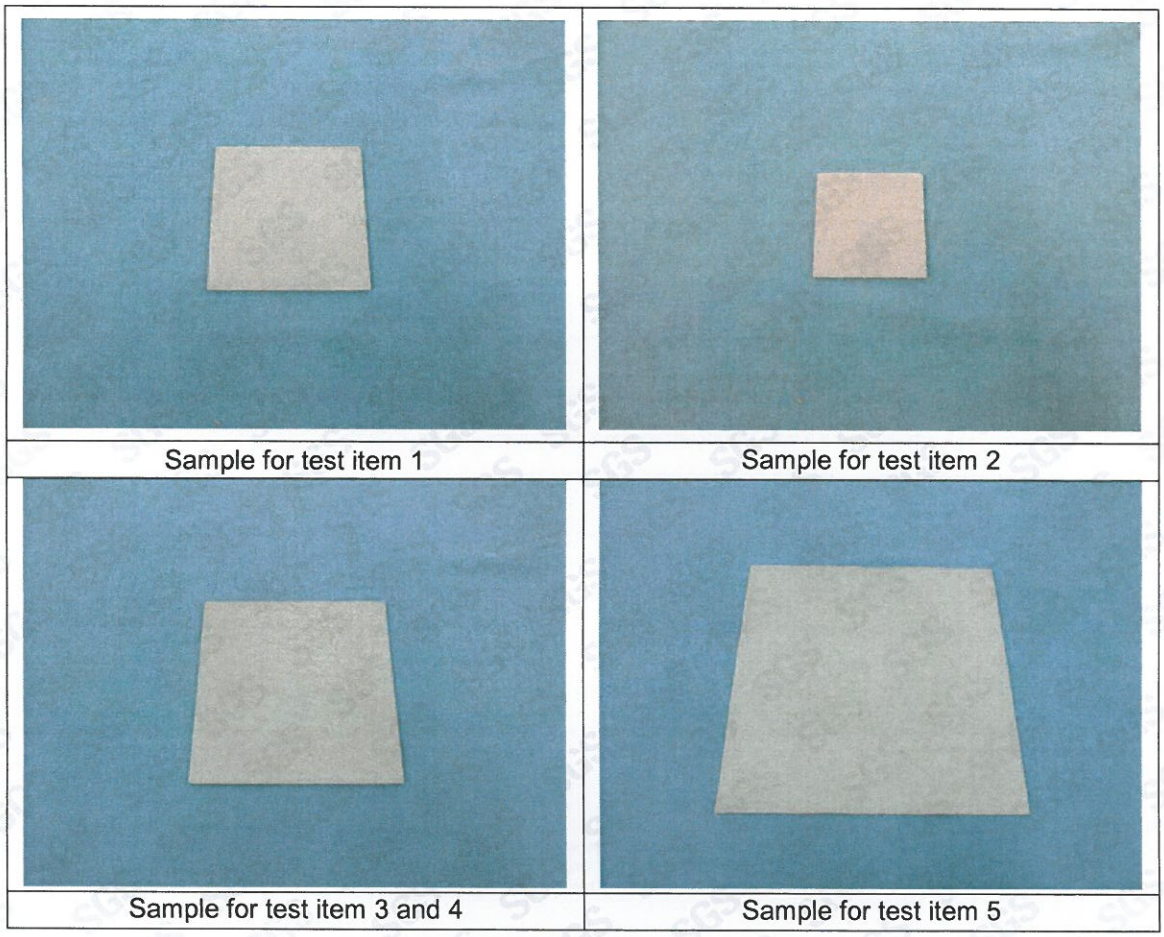
TEST REPORT

Photo:



Sample for test item 1	Sample for test item 2
Sample for test item 3 and 4	Sample for test item 5

********To be continued********

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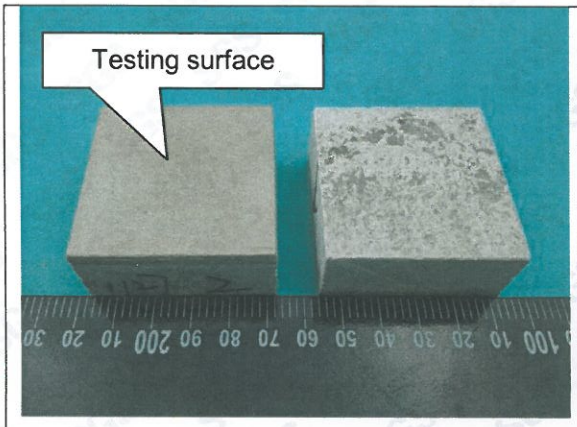
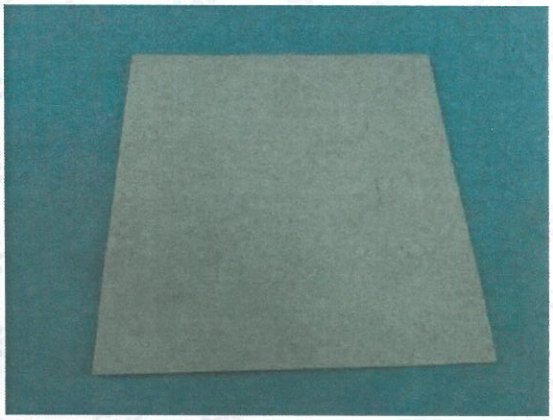
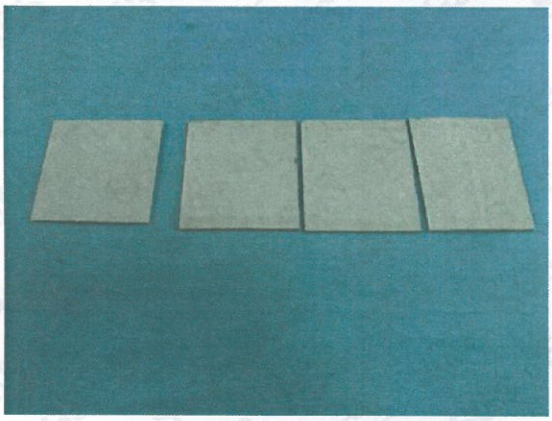
TEST REPORT



Sample for test item 6



Original sample for test item 7



Reference sample Tested sample-2500h

Test item 7

********End of report********

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TEST REPORT

No. : XMCCM140300198-3.2A
Date : Jun.30, 2014

PHOMI MCM CO., LTD.
112 ZHONGSHENG ROAD, PANYU DISTRICT, GUANGZHOU, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name	:	MCM FLEX-CLAY, UNFIRED FLEXI CLAY CLADDING & FLOORING
SGS Ref. No.	:	CANMLC1404135601
Test required	:	As requested by client, SVHC screening is performed according to: (i) One hundred and fifty one (151) substances in the Candidate List of Substances of Very High Concern (SVHC) for authorization published by European Chemicals Agency (ECHA) on and before Dec 16, 2013 regarding Regulation (EC) No 1907/2006 concerning the REACH..
Date of Receipt	:	May.19, 2014
Test Period	:	May.19, 2014 to May. 30, 2014

Summary:

Requirement(s)	Conclusion
According to the specified scope and analytical techniques, concentrations of tested SVHC are ≤ 0.1% (w/w) in the submitted sample.	PASS
For further details, please refer to the following page(s)	

******** To be continued********

Signed for and on behalf of
SGS-CSTC Ltd.

Civi Huang
Xiamen Materials Lab Technical Supervisor

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Test Method:
SGS In-House method- GZTC CHEM-TOP-092-01, GZTC CHEM-TOP-092-02, Analyzed by ICP-OES, UV-VIS, GC-MS, HPLC-DAD/MS and Colorimetric Method.

Remark:
(1) The chemical analysis of specified SVHC is performed by means of currently available analytical techniques against the following SVHC related documents published by ECHA:
http://echa.europa.eu/web/guest/candidate-list-table
These lists are under evaluation by ECHA and may subject to change in the future.

(2) Concerning article(s):
In accordance with Regulation (EC) No 1907/2006, any EU producer or importer of articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1) of the Regulation, if (a) the substance in the Candidate List is present in those articles in quantities totaling over one tonne per producer or importer per year; and (b) the substance in the Candidate List is present in those articles above a concentration of 0.1% weight by weight (w/w).
Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance in the Candidate List.
SGS adopts the interpretation of ECHA for SVHC in article unless indicated otherwise. Detail explanation is available at the following link:
http://webstage.contribute.sgs.net/corpreach/documents/SGS-CTS_SVHC-paper-EN-11.pdf

(3) Concerning material(s):
Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article.
If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(4) Concerning substance and preparation:
If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006, in which:

******** To be continued********

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- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as dangerous according Dangerous Preparations Directive 1999/45/EC or classified as hazardous under the CLP Regulation (EC) No 1272/2008, when their concentrations are equal to, or greater than, those defined in the Article 3(3) of 1999/45/EC or the lower values given in Part 3 of Annex VI of Regulation (EC) No. 1272/2008; or
- a mixture is not classified as dangerous under Directive 1999/45/EC, but contains either:

(a) a substance posing human health or environmental hazards in an individual concentration of ≥ 1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or ≥ 0.2 % by volume for gaseous mixtures; or

(b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or

(c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures; or

(d) a substance for which there are Europe-wide workplace exposure limits.

(5) If a SVHC is found over the reporting limit, client is suggested to identify the component which contains the SVHC and the exact concentration of the SVHC by requesting further quantitative analysis from the laboratory.

All the test items were carried out by a SGS laboratory.

Test Result: (Substances in the Candidate List of SVHC)

Batch	Substance Name	CAS No.	Concentration (%)	RL (%)
---	All tested SVHC in candidate list	---	ND	---

Notes:

1. The table above only shows detected SVHC, and SVHC that below RL are not reported. Please refer to Appendix for the full list of tested SVHC.
2. RL = Reporting Limit. All RL are based on homogenous material.ND = Not detected (lower than RL), ND is denoted on the SVHC substance.
3. *The test result is based on the calculation of selected element(s) / marker(s) and to the worst-case scenario. For detail information, please refer to the SGS REACH website: www.reach.sgs.com/substance-of-very-high-concern-analysis-information-page.htm.
4. RL = 0.005% is evaluated for element (i.e. cobalt, arsenic, lead, chromium (VI), aluminum, zirconium, boron, strontium, zinc, antimony, cadmium, titanium and barium respectively), except molybdenum RL=0.0005%, boron RL=0.0025% (only for Lead bis(tetrafluoroborate)).
5. Calculated concentration of boric compounds are based on the water extractive boron by ICP-OES..
6. Δ CAS No. of diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD): 134237-50-6,134237-51-7, 134237-52-8.

******** To be continued********

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7. ☆ CAS No. of Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride: 25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9; EC No. of those: 247-094-1, 243-072-0, 256-356-4, 260-566-1.
8. § The substance is proposed for the identification as SVHC only where it contains Michler's ketone (CAS Number: 90-94-8) or Michler's base (CAS Number: 101-61-1) ≥0.1% (w/w).

Full list of tested SVHC:

Batch	No.	Substance Name	CAS No.	RL (%)
I	1	4,4' -Diaminodiphenylmethane(MDA)	101-77-9	0.050
I	2	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	0.050
I	3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.050
I	4	Anthracene	120-12-7	0.050
I	5	Benzyl butyl phthalate (BBP)	85-68-7	0.050
I	6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.050
I	7	Bis(tributyltin)oxide (TBTO)	56-35-9	0.050
I	8	Cobalt dichloride*	7646-79-9	0.005
I	9	Diarsenic pentaoxide*	1303-28-2	0.005
I	10	Diarsenic trioxide*	1327-53-3	0.005
I	11	Dibutyl phthalate (DBP)	84-74-2	0.050
I	12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)△	25637-99-4, 3194- 55-6	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	0.005
I	14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
I	15	Triethyl arsenate*	15606-95-8	0.005
II	16	2,4-Dinitrotoluene	121-14-2	0.050
II	17	Acrylamide	79-06-1	0.050
II	18	Anthracene oil*	90640-80-5	0.050
II	19	Anthracene oil, anthracene paste*	90640-81-6	0.050
II	20	Anthracene oil, anthracene paste, anthracene fraction*	91995-15-2	0.050
II	21	Anthracene oil, anthracene paste, distn. lights*	91995-17-4	0.050
II	22	Anthracene oil, anthracene-low*	90640-82-7	0.050

******** To be continued********

II	23	Diisobutyl phthalate	84-69-5	0.050
II	24	Lead chromate*	7758-97-6	0.005
II	25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104)*	12656-85-8	0.005
II	26	Lead sulfochromate yellow (C.I. Pigment Yellow 34)*	1344-37-2	0.005
II	27	Pitch, coal tar, high temp.*	65996-93-2	0.050
II	28	Tris(2-chloroethyl)phosphate	115-96-8	0.050
III	29	Ammonium dichromate*	7789-09-5	0.005
III	30	Boric acid*	10043-35-3, 11113-50-1	0.005
III	31	Disodium tetraborate, anhydrous*	1303-96-4, 1330-43-4, 12179-04-3	0.005
III	32	Potassium chromate*	7789-00-6	0.005
III	33	Potassium dichromate*	7778-50-9	0.005
III	34	Sodium chromate*	7775-11-3	0.005
III	35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.005
III	36	Trichloroethylene	79-01-6	0.050
IV	37	2-Ethoxyethanol	110-80-5	0.050
IV	38	2-Methoxyethanol	109-86-4	0.050
IV	39	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5 - 13530-68-2	0.005
IV	40	Chromium trioxide*	1333-82-0	0.005
IV	41	Cobalt(II) carbonate*	513-79-1	0.005
IV	42	Cobalt(II) diacetate*	71-48-7	0.005
IV	43	Cobalt(II) dinitrate*	10141-05-6	0.005
IV	44	Cobalt(II) sulphate*	10124-43-3	0.005
V	45	1,2,3-trichloropropane	96-18-4	0.050
V	46	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	0.050
V	47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	0.050

******** To be continued********

V	48	1-methyl-2-pyrrolidone	872-50-4	0.050
V	49	2-ethoxyethyl acetate	111-15-9	0.050
V	50	Hydrazine	7803-57-8, 302-01-2	0.050
V	51	Strontium chromate*	7789-06-2	0.005
VI	52	1,2-Dichloroethane	107-06-2	0.050
VI	53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.050
VI	54	2-Methoxyaniline; o-Anisidine	90-04-0	0.050
VI	55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.050
VI	56	Aluminosilicate Refractory Ceramic Fibres *	650-017-00-8 (Index no.)	0.005
VI	57	Arsenic acid*	7778-39-4	0.005
VI	58	Bis(2-methoxyethyl) ether	111-96-6	0.050
VI	59	Bis(2-methoxyethyl) phthalate	117-82-8	0.050
VI	60	Calcium arsenate*	7778-44-1	0.005
VI	61	Dichromium tris(chromate) *	24613-89-6	0.005
VI	62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.050
VI	63	Lead diazide, Lead azide*	13424-46-9	0.005
VI	64	Lead dipicrate*	6477-64-1	0.005
VI	65	Lead styphnate*	15245-44-0	0.005
VI	66	N,N-dimethylacetamide	127-19-5	0.050
VI	67	Pentazinc chromate octahydroxide*	49663-84-5	0.005
VI	68	Phenolphthalein	77-09-8	0.050
VI	69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.005
VI	70	Trilead diarsenate*	3687-31-8	0.005
VI	71	Zirconia Aluminosilicate Refractory Ceramic Fibres*	650-017-00-8 (Index no.)	0.005
VII	72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.050
VII	73	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)§	548-62-9	0.050

******** To be continued********

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VII	74	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme)	112-49-2	0.050
VII	75	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	0.050
VII	76	4,4'-bis(dimethylamino) benzophenone (Michler's Ketone)	90-94-8	0.050
VII	77	4,4'-bis(dimethylamino)-4"-(methylamino)trityl alcohol§	561-41-1	0.050
VII	78	Diboron trioxide*	1303-86-2	0.005
VII	79	Formamide	75-12-7	0.050
VII	80	Lead(II) bis(methanesulfonate)*	17570-76-2	0.005
VII	81	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	0.050
VII	82	TGIC (1,3,5-tris(oxiranylmethyl) -1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	0.050
VII	83	α,α-Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4) §	6786-83-0	0.050
VII	84	β-TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl] -1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	0.050
VIII	85	[Phthalato(2-)]dioxotrilead*	69011-06-9	0.005
VIII	86	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	0.050
VIII	87	1,2-Diethoxyethane	629-14-1	0.050
VIII	88	1-Bromopropane	106-94-5	0.050
VIII	89	3-Ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	0.050
VIII	90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	-	0.050
VIII	91	4,4'-Methylenedi-o-toluidine	838-88-0	0.050
VIII	92	4,4'-Oxydianiline and its salts	101-80-4	0.050
VIII	93	4-Aminoazobenzene	60-09-3	0.050
VIII	94	4-Methyl-m-phenylenediamine	95-80-7	0.050
VIII	95	4-Nonylphenol, branched and linear	-	0.050
VIII	96	6-Methoxy-m-toluidine	120-71-8	0.050
VIII	97	Acetic acid, lead salt, basic*	51404-69-4	0.005
VIII	98	Biphenyl-4-ylamine	92-67-1	0.050
VIII	99	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	0.050
VIII	100	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane-1,2-dicarboxylic anhydride, trans-cyclohexane-1,2-dicarboxylic anhydride	85-42-7, 13149-00-3, 14166-21-3	0.050

******** To be continued********

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VIII	101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	0.050
VIII	102	Dibutyltin dichloride (DBTC)	683-18-1	0.050
VIII	103	Diethyl sulphate	64-67-5	0.050
VIII	104	Diisopentylphthalate	605-50-5	0.050
VIII	105	Dimethyl sulphate	77-78-1	0.050
VIII	106	Dinoseb	88-85-7	0.050
VIII	107	Dioxobis(stearato)trilead*	12578-12-0	0.005
VIII	108	Fatty acids, C16-18, lead salts*	91031-62-8	0.005
VIII	109	Furan	110-00-9	0.050
VIII	110	Henicosafluoroundecanoic acid	2058-94-8	0.050
VIII	111	Heptacosafluorotetradecanoic acid	376-06-7	0.050
VIII	112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	☆	0.050
VIII	113	Lead bis(tetrafluoroborate)*	13814-96-5	0.005
VIII	114	Lead cyanamidate*	20837-86-9	0.005
VIII	115	Lead dinitrate*	10099-74-8	0.005
VIII	116	Lead monoxide*	1317-36-8	0.005
VIII	117	Lead oxide sulfate*	12036-76-9	0.005
VIII	118	Lead tetroxide (orange lead)*	1314-41-6	0.005
VIII	119	Lead titanium trioxide*	12060-00-3	0.005
VIII	120	Lead titanium zirconium oxide*	12626-81-2	0.005
VIII	121	Methoxyacetic acid	625-45-6	0.050
VIII	122	Methyloxirane (Propylene oxide)	75-56-9	0.050
VIII	123	N,N-dimethylformamide	68-12-2	0.050
VIII	124	N-Methylacetamide	79-16-3	0.050
VIII	125	N-Pentyl-isopentylphthalate	776297-69-9	0.050
VIII	126	o-Aminoazotoluene	97-56-3	0.050
VIII	127	o-Toluidine	95-53-4	0.050
VIII	128	Pentacosafluorotridecanoic acid	72629-94-8	0.050

******** To be continued********

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VIII	129	Pentalead tetraoxide sulphate*	12065-90-6	0.005
VIII	130	Pyrochlore, antimony lead yellow*	8012-00-8	0.005
VIII	131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.005
VIII	132	Silicic acid, lead salt*	11120-22-2	0.005
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.005
VIII	134	Tetraethyllead*	78-00-2	0.005
VIII	135	Tetralead trioxide sulphate*	12202-17-4	0.005
VIII	136	Tricosafluorododecanoic acid	307-55-1	0.050
VIII	137	Trilead bis(carbonate)dihydroxide (basic lead carbonate)*	1319-46-6	0.005
VIII	138	Trilead dioxide phosphonate*	12141-20-7	0.005
IX	139	4-Nonylphenol, branched and linear, ethoxylated	-	0.050
IX	140	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	0.050
IX	141	Cadmium oxide*	1306-19-0	0.005
IX	142	Cadmium*	7440-43-9	0.005
IX	143	Dipentyl phthalate (DPP)	131-18-0	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.050
X	145	Cadmium sulphide*	1306-23-6	0.005
X	146	Dihexyl phthalate	84-75-3	0.050
X	147	Disodium 3,3'-[[1,1'-biphenyl] -4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.050
X	148	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo] [1,1'-biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7-disulphonate (C.I. Direct Black 38)	1937-37-7	0.050
X	149	Imidazolidine-2-thione; (2-imidazoline-2-thiol)	96-45-7	0.050
X	150	Lead di(acetate)*	301-04-2	0.005
X	151	Trixylyl phosphate	25155-23-1	0.050

******** To be continued********

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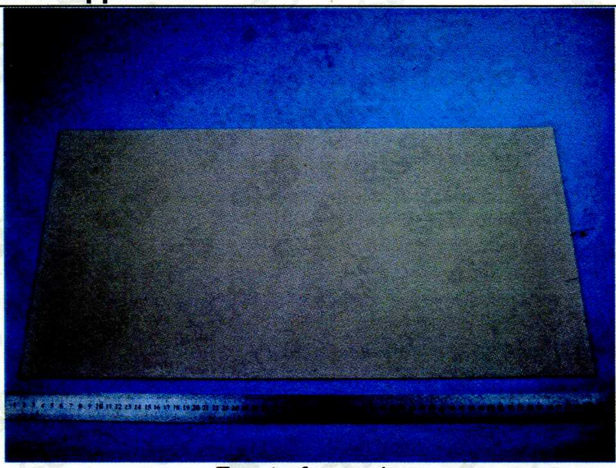
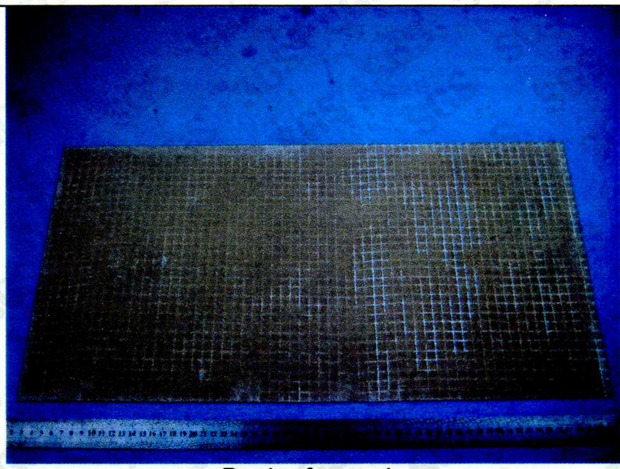
Photo Appendix:

	
Front of sample	Back of sample

SGS authenticate the photos on original report only

Note: This report is to supersede test report No. XMCCM140300198-3.2.

********End of report********

TEST REPORT

No. : XMCCM140300198-3.1A
Date : Jun.30, 2014

PHOMI MCM CO., LTD.
112 ZHONGSHENG ROAD, PANYU DISTRICT, GUANGZHOU, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name	:	MCM FLEX-CLAY, UNFIRED FLEXI CLAY CLADDING & FLOORING
SGS Ref. No.	:	CANMLC1407793201, KV-14-03020X
Test required	:	EN 15102:2007+A1:2011 Decorative wallcoverings-Roll and panel form products
Intend use	:	Wall coverings
Date of Receipt	:	May.19, 2014
Test Period	:	May.19, 2014 to May. 30, 2014

Test result(s) : For further details, please refer to the following page(s)

******** To be continued********

Signed for and on behalf of
SGS-CSTC Ltd.

Civi Huang
Xiamen Materials Lab Technical Supervisor

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TEST REPORT

Summary of test results:

No	Test items	Test methods	Requirement in EN 15102:2007+A1:2011	Test results	Verdict
1	Vinyl chloride monomer (VCM) (mg/kg)	With reference to EN 12149:1997 Test B	Max. value 0,2mg/kg	ND	Pass
2	Heavy metals and specific elements	With reference to EN 12149:1997 Test A	Max.value in mg/kg, where relevant See the following detail	See the following detail	Pass
3	Thermal conductivity (W/(m·K))	EN 12667(2001)	Declared	0.0590	/
4	Thermal resistance (m^2·K/W)		Declared	0.0568	/

Note: 1. ND= Not Detected (< MDL)
2. All the test items were carried out by a SGS laboratory.

******** To be continued********

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TEST REPORT

1. VCM (vinyl chloride monomer)

Test Method: With reference to EN12149:1997, analysis was performed by HS-GC-MS.

Test Item(s)	Unit	MDL	Test Result	Requirement in EN 15102:2007+A1:2011 (Max. value)
VCM(Vinyl Chloride Monomer)	mg/kg	0.1	ND	0.2

2. Soluble heavy metal

Test Method: With reference to EN12149:1997. Analysis was performed by ICP-OES.

Test Item(s)	Unit	MDL	Test Result	Requirement in EN 15102:2007+A1:2011 (Max. value)
Soluble Lead (Pb)	mg/kg	5	ND	90
Soluble Antimony (Sb)	mg/kg	5	ND	No upper limit
Soluble Arsenic (As)	mg/kg	5	ND	25
Soluble Barium (Ba)	mg/kg	10	78	500
Soluble Cadmium (Cd)	mg/kg	5	ND	25
Soluble Chromium (Cr)	mg/kg	5	ND	60
Soluble Mercury (Hg)	mg/kg	5	ND	20
Soluble Selenium (Se)	mg/kg	10	ND	165

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (<MDL)

******** To be continued********

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TEST REPORT

3. Thermal Conductivity & Thermal Resistance

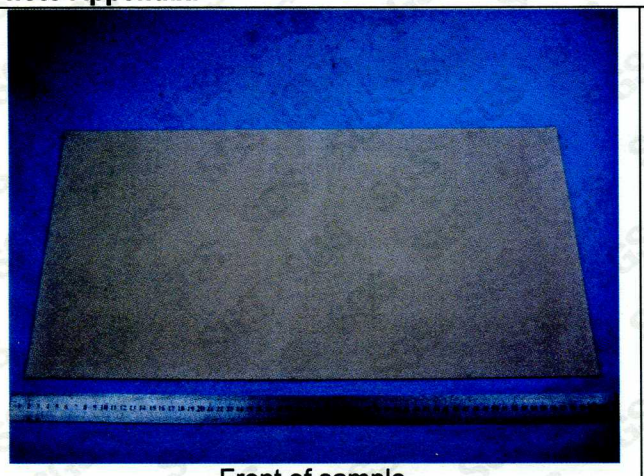
Test Method:

EN 12667(2001) Thermal performance of building materials and products -Determination of thermal resistance by means of guarded hot plate and heat flow meter methods — Products of high and medium thermal resistance.

Test Detail:

Test Equipment		Thermal Conductivity Tester Model: HFM-436/3/1
Lab Environmental Conditions		Ambient Temperature: (23 ± 2)℃ Relative humidity：(50 ± 10)%
Test Conditioning		1) The Thickness of the test：0.3350 cm 2) Mean temperature：24.81 ℃ 3) Delta T：12.05 ℃ 4) Temperature gradient: 3596.72 °K/m
Test Result	Thermal Conductivity (W/m・K)	0.0590
	Thermal Resistance (m^2・K/W)	0.0568

Photo Appendix:



Front of sample

Back of sample

SGS authenticate the photos on original report only

Note: This report is to supersede test report No. XMCCM140300198-3.1.

********End of report********

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中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

Test Report

No. CANMLC1702615601 Date: 01 Mar 2017

PHOMI MCM CO.,LTD.

PHOMI LOW CARBON DEVELOPMENT ZONE, LAIBIN HIGH&NEW-TECH DEVELOPMENT DISTRICT,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : MCM FLEX-CLAY,Unfired Flexi Clay Cladding&Flooring

SGS Job No. :	GZIN170200354CCM - GZ
Client Ref. Info. :	Product or Lot No.: MCM SKU #7382076 Model Number MEN_SL_052
Date of Sample Received :	24 Feb 2017
Testing Period :	24 Feb 2017 - 01 Mar 2017
Test Requested :	Selected test(s) as requested by client.
Test Method :	Please refer to next page(s).
Test Results :	Please refer to next page(s).

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

Zm guan
Approved Signatory

198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn
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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN17-026156.001	Khaki sheet

Remarks :

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

Phthalate

Test Method : With reference to EN14372: 2004. Analysis was performed by GC-MS.

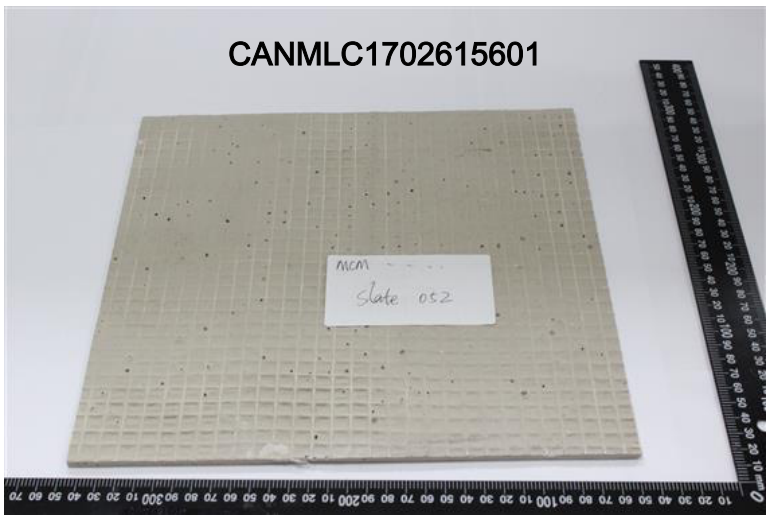
Test Item(s)	CAS NO.	Unit	MDL	001
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND
Diisononyl Phthalate (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%(w/w)	0.003	ND
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Di-n-hexyl Phthalate (DnHP)	84-75-3	%(w/w)	0.003	ND
Di-n-pentyl Phthalate (DnPP)	131-18-0	%(w/w)	0.003	ND
Dicyclohexyl Phthalate (DCHP)	84-61-7	%(w/w)	0.003	ND
Diallyl Phthalate (DAP)	131-17-9	%(w/w)	0.003	ND

Notes :

(1)DBP,BBP,DEHP Reference information: Entry 51 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC):
i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles.
ii) Toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.
Please refer to Regulation (EC) No 552/2009 to get more detail information
(2)DINP, DNOP, DIDP Reference information: Entry 52 of Regulation (EC) No 552/2009 amending Annex

XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC).
i) Shall not be used as substances or in mixtures, in concentrations greater than 0.1 % by weight of the plasticised material, in toys and childcare articles which can be placed in the mouth by children.
ii) Such toys and childcare articles containing these phthalates in a concentration greater than 0.1 % by weight of the plasticised material shall not be placed on the market.
Please refer to Regulation (EC) No 552/2009 to get more detail information

Sample photo:



CAN17-026156.001

SGS authenticate the photo on original report only

*** End of Report ***

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PHOMI HOLDING

TEST REPORT

Sample Name : Modified inorganic powder composite building veneer sheet 3D series

Entrusted By : PHOMI MCM CO. LTD

Report No. : WT2021B01C00200

PHOMI MCM CO.,LTD

PHOMI MCM CO., LTD.
15/F, Building A2, Modern Avenue, Science City, Huangpu District, Guangzhou
TEL: 020 - 8451 - 5088 WEB: www.phomi.com

PHOMI HOLDING

TEST REPORT

Report No.: WT2021B01C00200

Sample name	Modified inorganic powder composite building veneer sheet 3D series	**Test Type**	Commissioned Testing
Entrusted By	Phomi MCM CO.,LTD	**Trademark**	PHOMI
Produce By	Phomi MCM CO.,LTD	**Sample**	2 sheets
Date received of sample	2021-1-25	**Test date**	From 2021-2-22 to 2021-6-7
Batch Date of sample	2021-1-7	**Size of sample**	296x208x3mm
Test standard	JC/T 2219-2014(2017)«Modified inorganic powder composite building veneer sheet»		
Test item	1.Chemical resistance 2.Artificial aging resistance		
Test result	After testing, the test results of the items sent to the inspection samples meet the technical requirements of outdoor walls in JC/T 2219-2014 (2017) standard, and the test results passed.		
Issuing date	**2021-06-28**		

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PHOMI HOLDING

TEST REPORT

PHOMI MCM CO., LTD. 广西福美新材料有限公司 ※

Report No.: WT2021B01C00200

No.	Test Item		Test Standard JC/T 2219-2014(2017) outdoor wall	Test result	Result	Test Standard
1	Chemical resistance	Acid resistance	No surface cracking, no layering, obvious discoloration	No surface cracking, no layering, obvious discoloration	Pass	JC/T 2219-2014(2017) 6.14
		Alkali resistance	No surface cracking, no layering, obvious discoloration	No surface cracking, no layering, obvious discoloration	Pass	
2	Artificial aging resistance	Aging Time	2000h	2000h	Pass	JC/T 2219-2014(2017) 6.9 GB/T 16259-2008 GB/T 1766-2008
		Appearance	No blisters, no crack, no layering	No blisters, no crack, no layering	Pass	
		No Pulverization	≤1 level	0 level	Pass	
		Discolor	≤2 level	2 level	Pass	

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