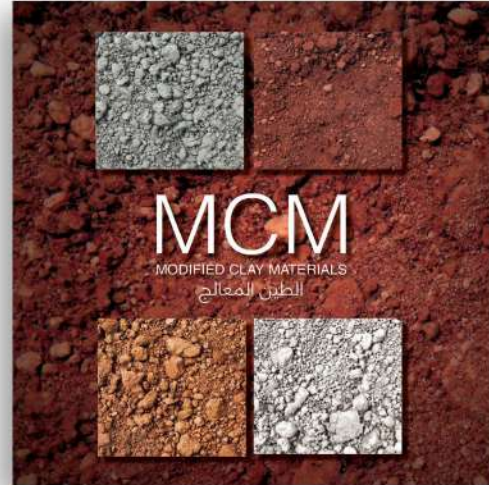
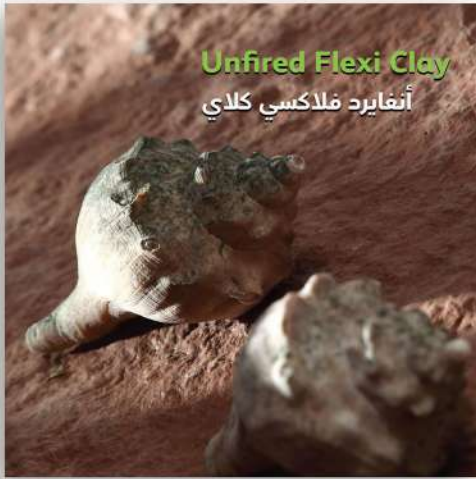


PHOMI
Saudi Arabia

MCM Certificates



THE EXCLUSIVE DISTRIBUTOR OF PHOMI MCM IN GCC
الموزع الحصري لمواد فومي بدول الخليج

info@gsb.sa.com - +966 11 2030800

showroom 1 - Building 3491 - Anas bin malik road - Almalqa - Riyadh KSA

PHOMI®

econic clay

Date: 21 Jun 2021

TO WHOM IT MAY CONCERN

We PHOMI MCM CO. LTD here by certified that

GREEN BUILDING SOLUTION

شركة حلول المباني الخضراء

CR#1010266859

Address: ANAS BIN MALIK STREET, RIYADH, SAUDI ARABIA

TEL.: +966 1 12030800

is only the Exclusive Distributor of PHOMI products in Kingdom of
Saudi Arabia.

Your Sincerely,

PHOMI MCM CO.,LTD

ADD: No.23, Guangpu Zhong Rd, Modern Avernue, Science City, Huangpu District, Guangzhou, Guangdong, China. 510700
TEL.: +86 20-3463 6425



亞洲國際創新發明大獎

Asia International Innovative Invention Award

2019



發明機構 This is to certify that

廣西福美新材料有限公司

發明項目 for the invention

改性無機複合材料及其製造方法

榮獲 has been awarded

金獎 Gold Award

李遠發 主席
Chairman Lee Yuen Fat

呂新榮博士 首席評委
Chief Jury Dr. Lui Sun Wing



香港創新科技及製造業聯合總會
Hong Kong Federation of Innovative Technologies
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亞洲國際創新發明大獎
Asia International Innovative Invention Award

2018 Best of IBS Awards

Most Innovative Building Product

MCM Cladding
by Phomi USA

FINALIST

NAHB
IBS[®]

CONCOURS LÉPINE
INTERNATIONAL DE L'INVENTION
DE PARIS

2013

Médaille de Bronze

Diplôme

décerné à *Lei Shi ; Sael MCM Fumei, Guangzhou*

pour *Nouveaux matériaux composites*

Le Président de l'Association

[Signature]

Le Secrétaire Général

[Signature]

Le Président du Jury

[Signature]



CERTIFICATE OF COMPLIANCE



Phomi MCM Co Ltd

See product list below

UL 2818 - 2013 Gold Standard for Chemical Emissions for Building Materials, Finishes and Furnishings

Product tested in accordance with UL 2821 test method to show compliance to emission limits on UL 2818, Section 7.1 and 7.2. Commercial furniture and furnishings are tested in accordance with ANSI/BIFMA M7-1-2011 and determined to comply with ANSI/BIFMA X7-1-2011 and ANSI/BIFMA e3-2014e Credit 7.6.1, 7.6.2, and 7.6.3. Panel based workstations are modeled in the open plan environment. Casework systems and individual furniture items are modeled in the private office environment. Seating products are modeled in the seating environment. Classroom furniture is modeled using the standard classroom model in the California Department of Public Health (CDPH) Standard Method v1.2.

Building Products are determined compliant in accordance with California Department of Public Health (CDPH) Standard Method V1.1-2010, using the applicable exposure scenario.



UL investigated representative samples of the identified Product(s) to the identified Standard(s) or other requirements in accordance with the agreements and any applicable program service terms in place between UL and the Certificate Holder (collectively "Agreement"). The Certificate Holder is authorized to use the UL Mark for the identified Product(s) manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate is valid for the identified dates unless there is non-compliance with the Agreement.

CERTIFICATE OF COMPLIANCE

UL GREENGUARD Certified Products Listing

Product Name	Certification	Status	Certificate Number	Certification Period	Restrictions
2.5 mm Modified inorganic powder composite building decorative material—MCM Facing Brick Serie	GREENGUARD Gold Certified	Certified	155948-420	09/12/2019-09/12/2020	
2.5mm Modified inorganic powder composite building decorative material—MCM Leather Serie	GREENGUARD Gold Certified	Certified	155949-420	09/12/2019-09/12/2020	
2.5mm Modified inorganic powder composite building decorative material—Wood Serie	GREENGUARD Gold Certified	Certified	155950-420	09/12/2019-09/12/2020	
2.5-10.0mm Modified inorganic powder composite building decorative material—Stone Serie	GREENGUARD Gold Certified	Certified	155951-420	09/12/2019-09/12/2020	
2.5-5.0mm Modified inorganic powder composite building decorative material—Weaving Serie	GREENGUARD Gold Certified	Certified	155952-420	09/12/2019-09/12/2020	

Please refer to current certificates on ul.com/spg for complete compliance information.



The
United
States
of
America



**The Director of the United States
Patent and Trademark Office**

Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

Therefore, this

United States Patent

Grants to the person(s) having title to this patent the right to exclude others from making, using, offering for sale, or selling the invention throughout the United States of America or importing the invention into the United States of America, and if the invention is a process, of the right to exclude others from using, offering for sale or selling throughout the United States of America, or importing into the United States of America, products made by that process, for the term set forth in 35 U.S.C. 154(a)(2) or (c)(1), subject to the payment of maintenance fees as provided by 35 U.S.C. 41(b). See the Maintenance Fee Notice on the inside of the cover.

Lucia Stone Kuo

Acting Director of the United States Patent and Trademark Office



URKUNDE

Es wird hiermit bescheinigt,
dass für die in der Patentschrift
beschriebene Erfindung ein
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tragsstaaten erteilt worden ist.

Europäisches Patent Nr.

CERTIFICATE

It is hereby certified that a
European patent has been granted
in respect of the invention
described in the patent specifica-
tion for the Contracting States
designated in the specification.

European patent No.

CERTIFICAT

Il est certifié qu'un brevet
européen a été délivré pour
l'invention décrite dans le
fascicule de brevet, pour les
Etats contractants désignés
dans le fascicule de brevet.

Brevet européen n°

2157139

Patentinhaber

Proprietor of the patent

Titulaire du brevet

Shi, Lei
Jiein Science and Technology Garden
Zhongcun
Panyu District
Guangzhou
Guangdong 511495/CN

München, den
Munich,
Fait à Munich, le

26.03.14

Benoît Battistelli

Präsident des Europäischen Patentamts
President of the European Patent Office
Président de l'Office européen des brevets



福美控股
MC新材 影响未来

PHOMI MCM CO., LTD.

Technical Data

Product Specifications		
Material Composition	Modified Clay Material	
Installation	Acrylic Adhesive or Equal	
Patent	United States patent No. 8505840 / European patent No. 2157139	
Test Data		
CE Certificate	EN 15102:2007+A2:2011	Compliant
Fire Rating	ASTM E84-15/EN 13501-1+A1:2010	Class A
Freeze-Thaw Cycling	ASTM C1026-13	Weight Loss - 0.42% Appearance – No visible change
Water Absorption	ASTM C97/C97M-15	12.4%
Bulk Specific Gravity		1.83
Stain Resistance	ANSI Z124.6-2007 Clause 5.2	Total Rating: 7.6 Max Stain Depth: 0.101 mm
Chemical Resistance	ANSI Z124.6-2007 Clause 5.5	No visible change
Abrasion Resistance	ASTM C241/C241M-15	Total Score: 8
Static Coefficient of Friction	ASTM C1028-07	Dry Condition: 1.11 Wet Condition: 0.70
UV – Light aging Exposure	ASTM G154-12a Cycle1 ASTM D2244-154 ASTM 2616-12	Gray Scale 4.0
		ΔE^*_{ab} 2.6
Chemical Composition		
PVC Free		None Detected
Phthalate Free	EN 14372:2004	None Detected
Respirable Crystalline Silica Compliant	OSHA Silica Rule	Clay not part of substances of note in OSHA standard
SVHC - Substances of Very High Concern (151 substances)		None detected – REACH Compliant
VOC – Volatile Organic Compounds		None Detected – Class A
Safety Data Sheet - SDS	Prepared in accordance with US Regulation 29 CFR 1910.1200	



شهادة مطابقة إرسالية للمنتجات المستوردة
Shipment Conformity certificate for imported products



نحن جهة تقويم المطابقة (.....) شهادة مطابقة المنتج الممنوحة للمنتج سابقا، وتتعهد بتوفير أي ملفات فنية للمنتجات تطابقها الهيئة السعودية للمواصفات والمقاييس والجودة أو من يمثلها لاحقا، وفي حال تبين
الارسانية مطابق تماما لما ورد في شهادة مطابقة المنتج الممنوحة للمنتج سابقا، وتتعهد بتوفير أي ملفات فنية للمنتجات تطابقها الهيئة السعودية للمواصفات والمقاييس والجودة أو من يمثلها لاحقا، وفي حال تبين
عدم صحة ذلك التحمل جميع التبعات النظامية المترتبة على ذلك

QIMA Asia

رقم المكتب (.....) 05956

نتعهد بان جميع بيانات المنتجات الموجودة في طلب

Certificate Number	CN-21-0326864	Issue Date	23/08/2021
Certificate Type	Shipment Conformity Certificate for Imported Products	Commercial Registration No	1010266859
Establishment Address	الرياض حي الصحافة شارع ثمامة	Shipment country	China
Product Certificate No.	00187-059-20-308404		

Product and Manufacturer Data

Model type	MCM	Trade Mark	PHOMI
Product Name	Artificial stone		
Product Description			
Country of origin	China		
Production Date			
HS Code	681019100003		
Technical Regulation	Technical Regulation for Building Materials - Part 2: Insulation and Cladding Materials		
Manufacturer name	PHOMI CO.LTD		
Manufacturer Address			
Exporter name	PHOMI MCM CO, LTD	Exporter Address	Laibin City, Guanxi, China

CB Organization Office Responsible manager signature

CB Organization Office Stamp



23/08/2021 03:20



Saudi Aramco E-Reference No. 0004179

Registration Approval Letter

September 04, 2021

Attention : GREEN BUILDINGS SOLUTIONS COMPANY FOR CONTRACTING

CR Number : 1010266859

Supplier Type: Materials Vendor + Service Provider

Country : Saudi Arabia

We are pleased to inform you that GREEN BUILDINGS SOLUTIONS COMPANY FOR CONTRACTING is now registered in the Saudi Aramco Supplier Management System under Vendor Code No. 10107007, provided your company continues to meet all relevant Saudi Arabian and Saudi Aramco standards.

This registration, however, should not be construed as a commitment by Saudi Aramco to procure from you. Being registered as a supplier only grants your company the opportunity, along with other registered sources, to respond to requests for submitting proposals in accordance with Saudi Aramco's established policies and procedures. All procurement instruments including but not limited to service contracts, purchase agreements, or purchase orders will be issued based on the name and address included in your commercial registration (CR), as stated in your Supplier Registration.

Saudi Aramco wishes to remind you that being recognized as a supplier carries with it serious obligations and responsibilities to act in a legal and ethical manner. We wish to remind you of the Saudi Aramco Supplier Code of Conduct (SCOC) which you acknowledged. Failure to abide by the principles set forth in the SCOC can result in adverse actions being taken by Saudi Aramco against you including suspension of you as a supplier. Saudi Aramco also expects each of its suppliers to satisfy each of the requirements of any procurement instrument which might be placed and to act responsibly and reliably as a supply chain supplier.

Material Suppliers should apply for Saudi Aramco Supplier Portal access by forwarding a request to portal-registration@aramco.com. The Supplier Portal is the main electronic business tool used between Saudi Aramco and its suppliers and serves to improve the flow and accuracy of key supply chain information.

For further information or assistance please contact the Saudi Aramco Supplier Help Desk by forwarding a request to SupplierHelpDesk@aramco.com or via the unified call center 800-116-1168 for In-Kingdom suppliers or +966 (11) 290-8950 for Out-of-Kingdom suppliers.

Moamar Khazal Al Usaimi, Supervisor
Supplier Registration Unit
Supplier Relationship Management Div

It is the responsibility of the supplier to update Saudi Aramco Supplier Registration Profile through Ariba for the following:

1. Change of Name / Commercial Registration Number / Address / Owner(s)
2. Any change of the supplier location
3. Discontinue supply of approved commodities (9COMs and 9CATS)

This is an electronically generated letter by Saudi Aramco. To verify Supplier approval status, please contact Supplier Help Desk at supplierhelpdesk@aramco.com

Test Verification of Conformity

Verification Number: 220228007-SHF-VOC001

On the basis of the tests undertaken, the sample<s> of the below product have been found to comply with the requirements of the referenced specification<s>/standard<s> at the time the tests were carried out. This verification is part of the full test report<s> and should be read in conjunction with it <them>.

Applicant Name & Address:	PHOMI MCM CO., LTD. 15/F, BUILDING A2, MODERN AVENUE, SCIENCE CITY, HUANGPU DISTRICT, GUANGZHOU
Product Description:	Phomi Flexi Econic Clay
Ratings & Principle Characteristics:	Class A Flame spread index, FSI = 25, Smoke developed index, SDI = 20
Models/Type References:	Slate series
Brand Names:	/
Specification<s>/Standards:	ASTM E84-19a
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch Plant 5, No. 6958 Daye Road, Fengxian District, Shanghai, China
Date of Tests:	2022-02-28 - 2022-03-14
Test Report Number(s):	220228007SHF-001

As Specified in 10.2.3.3 of *NFPA 101 Life Safety Code 2021*:

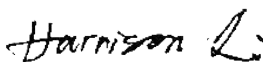
Chapter 10 Interior Finish, Contents, and Furnishings

Section 10.2.3 Interior Wall or Ceiling Finish Testing and Classification

10.2.3.3 Interior Wall and Ceiling Finish Materials Tested in Accordance with ASTM E84 or ANSI/UL 723.

Interior wall and ceiling finish materials shall be classified in accordance with ASTM E84, *Standard Test Method for Surface Burning Characteristics of Building Materials*, or ANSI/UL 723, *Standard Test Method for Surface Burning Characteristics of Building Materials*, except as indicated in 10.2.3.4 and 10.2.3.5, and shall be grouped in the following classes in accordance with their flame spread and smoke developed indexes.

- (1) Class A: Flame spread index 0-25; smoke developed index 0-450.
- (2) Class B: Flame spread index 26-75; smoke developed index 0-450.
- (3) Class C: Flame spread index 76-200; smoke developed index 0-450.



Signature

Name: Harrison Li

Position: Asst. Technical Manager

Date: 14th March, 2022

This Verification is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Verification. Only the Client is authorized to permit copying or distribution of this Verification. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test/inspection results referenced in this Verification are relevant only to the sample tested/inspected. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



VERIFICATION OF CONFORMITY

No. IN-XM-CP-5612-14052

It has been stated that the construction product

**Modification of inorganic powder composite building decoration materials sheet
(MCM FLEX-CLAY, Unfired Flexi Clay Cladding & Flooring)**

Intended use: wallcoverings

produced in the manufacturing plant and placed on the market by

PHOMI MCM CO., LTD.

112 ZHONGSHENG ROAD, PANYU DISTRICT, GUANGZHOU, CHINA

is submitted by the manufacturer to the further testing of samples taken at the factory in accordance with a prescribed test plan and that the third party- SGS-CSTC Standards Technical Services Co., Ltd. has performed the determination of the product type as required for Regulation 305/2011/EU and the assessment and verification of conformity at system 4.

This verification attests that all provisions concerning assessment of constancy of performance at system 4 and the performances described in Annex ZA of the standards

EN 15102:2007+A1:2011 Decorative wallcoverings-Roll and panel form products

were applied and that the relevant test report no. is **XMCCM140300198-3.1A, XMCCM140300198-3.2A**

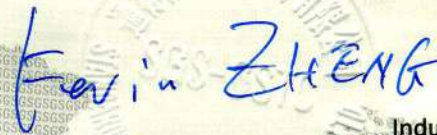
This verification is customer voluntary act and refers to the tested samples only-type representative of the tested product. The manufacturer is obligated to apply factory production control.

This verification is valid from Jun 04, 2014 until Jun 03, 2017 and remains valid as long as the manufacturing conditions in the plant or the factory production control itself are not modified significantly.

Issued since Jun 27, 2014

Authorised by

Signer
Manager



Industrial Services

SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch

31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China

t +86 (0)592 5766485 f +86 (0)592 5765380

Industrial.China@sgs.com

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SGSPAPER
14385277



TEST REPORT

No. : GZIN150901320CCM-02

Date : Mar. 16, 2016

Page: 1 of 10

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



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TEST REPORT

No. : GZIN150901320CCM-02

Date : Mar. 16, 2016

Page: 2 of 10

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 ^{E1}	Dry condition: 1.11 Wet condition: 0.70		
6	Abrasion resistance	ASTM C241/C241M-15 ^{E1}	8		
7	Light Ageing Test-UV Exposure	ASTM G154-12a Cycle1 & ASTM D2244-15a & ASTM D2616-12	Exposure duration	Gray scale	ΔE^*_{ab}
			2500h	4.0	2.6

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



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TEST REPORT

No. : GZIN150901320CCM-02

Date : Mar. 16, 2016

Page: 3 of 10

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 REPORT

No. : GZIN150901320CCM-02

Date : Mar. 16, 2016

Page: 4 of 10

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*****



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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 hand 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 of 1-non-staining.
- 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 scouring 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 powder shall not constitute staining. Specimens whose stain is removed by the standard scouring 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 scouring 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 powder shall not constitute staining. Specimens whose stain is removed by this additional shall have a rating of 4-removable by two standard scouring powder scrubblings.
- 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*****



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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*****



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Test item 5: Static coefficient of friction

Test method: ASTM C1028-07^{E1}

Test condition:

Specimen: 200×200×3.28mm

Contact area: 75×75mm²

Load: 23.8kg

Test result:

Dry condition: 1.11

Wet condition: 0.70

Test item 6: Abrasion resistance

Test Method:

ASTM C241/C241M-15^{E1} 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*****



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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)°C BPT, 0.89W/(m²•nm)@340nm

4h condensation at (50±3)°C BPT

Exposure duration: 2500h

Test result:

Sample	Exposure duration	Gray scale(See note 1)	△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. △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 void.

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



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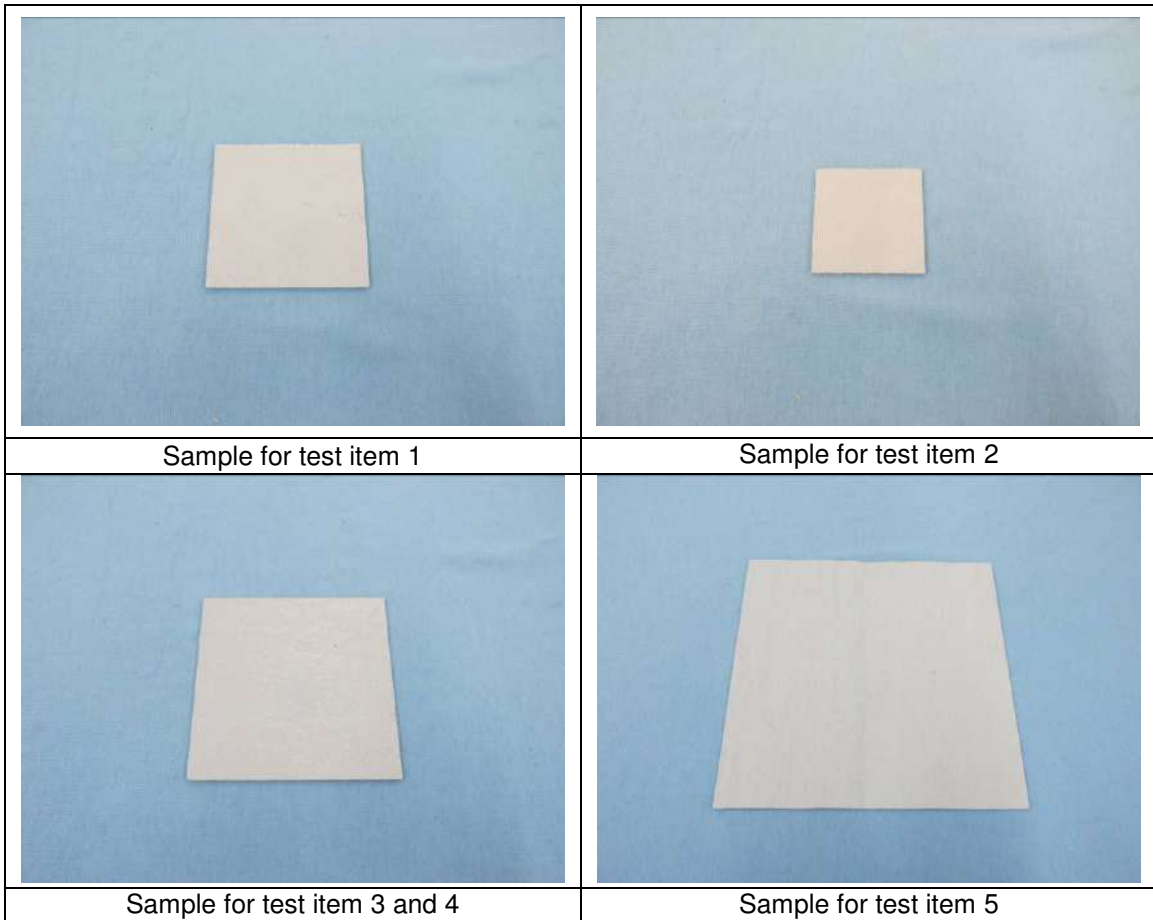
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Photo:



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



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<p>Sample for test item 6</p>	<p>Original sample for test item 7</p>
<p>Reference sample Tested sample-2500h Test item 7</p>	

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



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TEST REPORT

No. : GZIN151001492CCM

Date : Nov. 18, 2015

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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. : GZIN151001492CCM

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

Date of Receipt : Oct. 12, 2015

Test Period : Oct. 19, 2015 to Oct. 28, 2015

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



Chandler Wu
Technical Engineer

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TEST REPORT

No. : GZIN151001492CCM

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Test Result Summary

Test(s) Requested	Result(s)
ASTM E84-15	Class A
Summary:	
1. For further details, please refer to the following page(s).	

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TESTS AND RESULTS

Sample information:

Thickness: Approximately 4mm

Exposure Face: Mesh face

Test Conducted:

This test was conducted in accordance with ASTM E84-15 Standard Test Method for Surface Burning Characteristics of Building Materials

Introduction:

The method, designated as ASTM E84-15, "Standard Method of Test for Surface Burning Characteristics of Building Materials", is designed to determine the relative surface burning characteristics of materials under specific test conditions. Results are expressed in terms of flame spread index (FSI) and smoke developed index (SDI).

The purpose of this test method is to determine the relative burning behavior of the material by observing the flame spread along the specimen. Flame spread and smoke developed index are reported. However, there is not necessarily a relationship between these two measurements.

Sample Preparation:

Prior to testing, the specimen was conditioned to constant weight at a temperature of $73 \pm 5^\circ\text{F}$ ($23 \pm 3^\circ\text{C}$) and a relative humidity of $50 \pm 5\%$.

The test specimen consisted of a total of 7 sections of material. The sections were butted together during testing to form the requisite specimen length.

The specimen was supported during testing by 1/6" round metal rods placed at nominal 18 inch intervals across the width of the test chamber.

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Test Procedure:

The tunnel is preheated to 150°F, as measured by the floor-embedded thermocouple located 23.25 feet downstream of the burner ports, and allowed to cool to 105°F, as measured by the floor-embedded thermocouple located 13 feet from the burners. At this time the tunnel lid is raised and the test sample is placed along the ledges of the tunnel so as to form a continuous ceiling 24 feet long, 12 inches above the floor. The lid is then lowered into place.

Upon ignition of the gas burners, the flame spread distance is observed and recorded every 15 seconds. Flame spread distance versus time is plotted ignoring any flame front recessions. If the area under the curve (A) is less than or equal to 97.5 min-ft, FSI = 0.515·A; if greater, FSI = 4900/(195-A). Smoke developed is determined by comparing the area under the obscuration curve for the test sample to that of inorganic reinforced cement board and red oak, arbitrarily established as 0 and 100, respectively.

Test Results:

Sample	Flame-Spread Index (FSI)	Smoke-developed Index (SDI)
MCM FLEX-CLAY, UNFIRED FLEXI CLAY CLADDING&FLOORING	15	25

Observations of Burning Characteristics:

Flame Front: 3.5 feet maximum.

Time To Maximum Spread: 150 seconds.

Test Duration: 10 minutes.

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Rating:

The National Fire Protection Association Life Safety Code 101, "Interior Wall and Ceiling Finish Classification", has a means of classifying materials with respect to Flame Spread and Smoke Developed when tested in accordance with ASTM E 84, Standard Test Method for Surface Burning Characteristics of Building Materials, or ANSI/UL 723, Standard for Test for Surface Burning Characteristics of Burning Materials.

The classifications are as follows:

	<u>Flame-Spread Index (FSI)</u>	<u>Smoke-developed Index(SDI)</u>
Class A	0 - 25	0 - 450
Class B	26 - 75	0 - 450
Class C	76 - 200	0 - 450

Conclusion:

Refer to the National Fire Protection Association Life Safety Code 101, "Interior Wall and Ceiling Finish Classification", the submitted sample met the requirement of Class A.



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GZCCM 011639

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Guangzhou Branch

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Graphical Results:

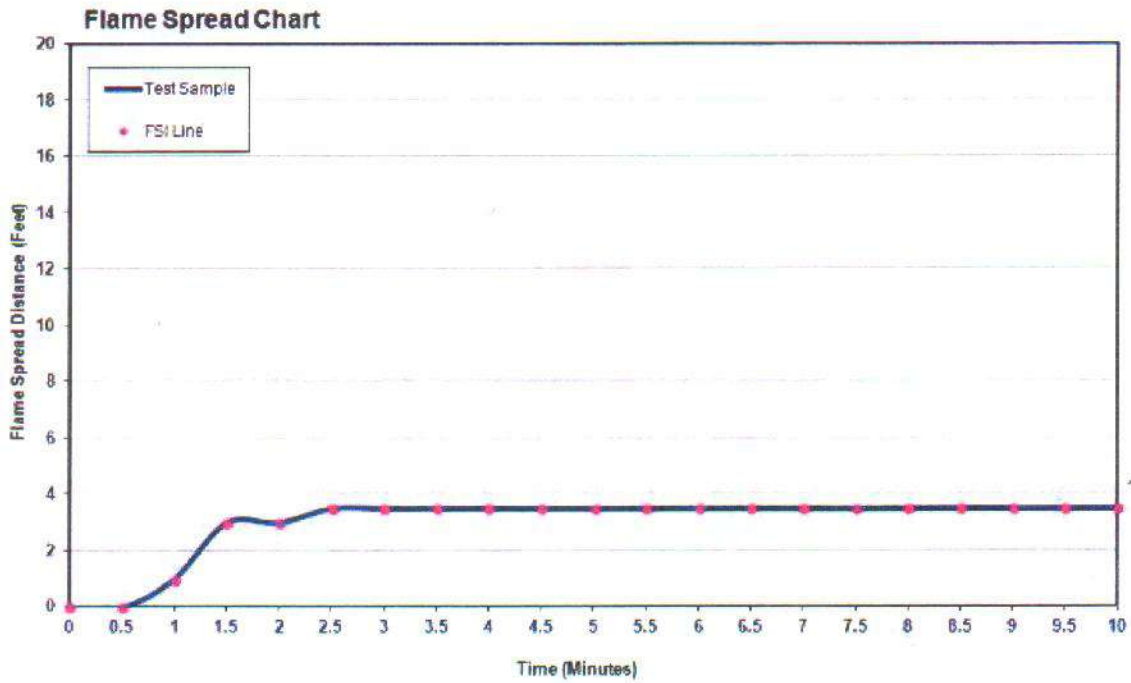


Figure 1. Flame Spread Chart



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Smoke Developed Chart

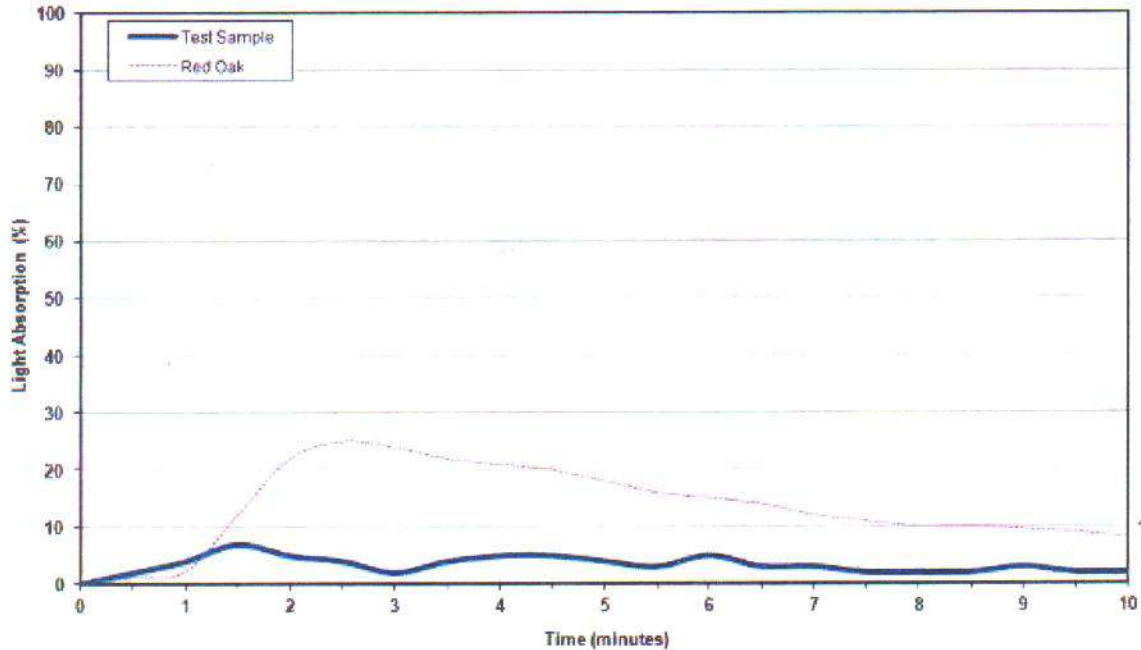


Figure 2. Smoke Developed Chart

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

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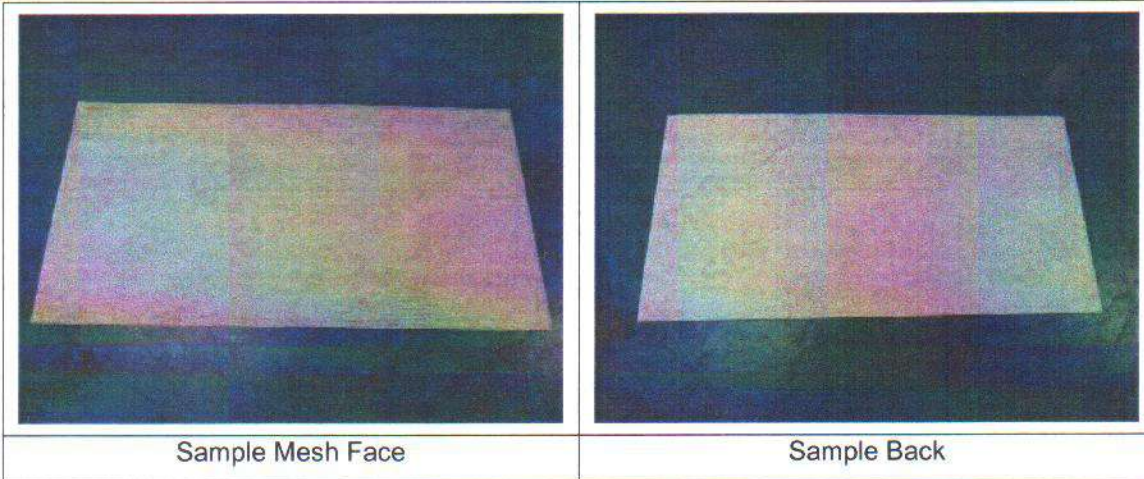
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No. : GZIN151001492CCM

Date : Nov. 18, 2015

Page: 8 of 8

Photo:



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TEST REPORT

No. : XMCCM140300198-3.3

Date : Jun.27, 2014

Page: 1 of 4

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 REPORT

No. : XMCCM140300198-3.3

Date : Jun.27, 2014

Page: 2 of 4

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/m ³ 1 µg/m ³	17.5% (RSD) U = 2 x RSD=35%
	HPLC/UV	Volatile aldehydes	5 µg/m ³	16% (RSD) U = 2 x RSD= 32%
Test chamber parameter				
Chamber volume (L)	119	Temperature (°C)	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/m ³	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

No. : XMCCM140300198-3.3

Date : Jun.27, 2014

Page: 3 of 4

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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XMCCM 006579

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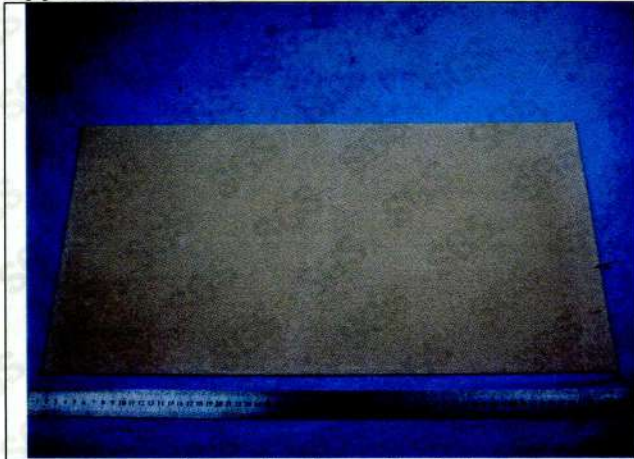
TEST REPORT

No. : XMCCM140300198-3.3

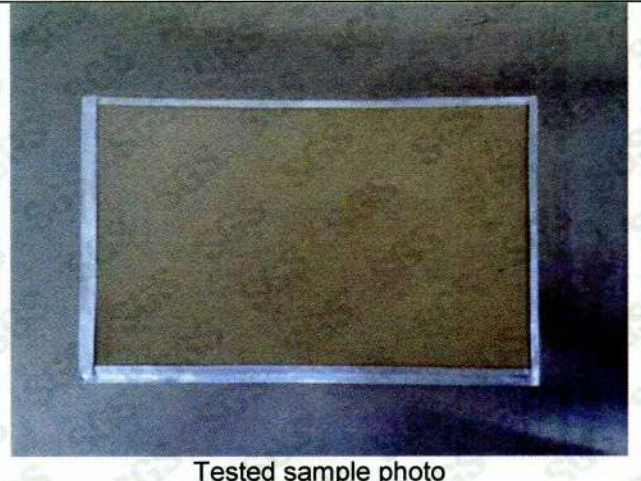
Date : Jun.27, 2014

Page: 4 of 4

Appendix Photo:



As received sample photo



Tested sample photo

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XMCCM 006580

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TEST REPORT

No. : XMCCM140300198-3.1A

Date : Jun.30, 2014

Page: 1 of 4

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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XMCCM 006590

TEST REPORT

No. : XMCCM140300198-3.1A

Date : Jun.30, 2014

Page: 2 of 4

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 ·KW)		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

No. : XMCCM140300198-3.1A

Date : Jun.30, 2014

Page: 3 of 4

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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XMCCM 006592

TEST REPORT

No. : XMCCM140300198-3.1A

Date : Jun.30, 2014

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3. Thermal Conductivity & Thermal Resistance

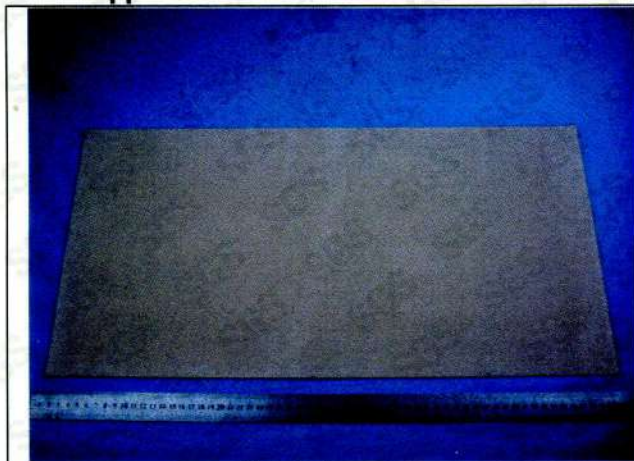
Test Method:

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.

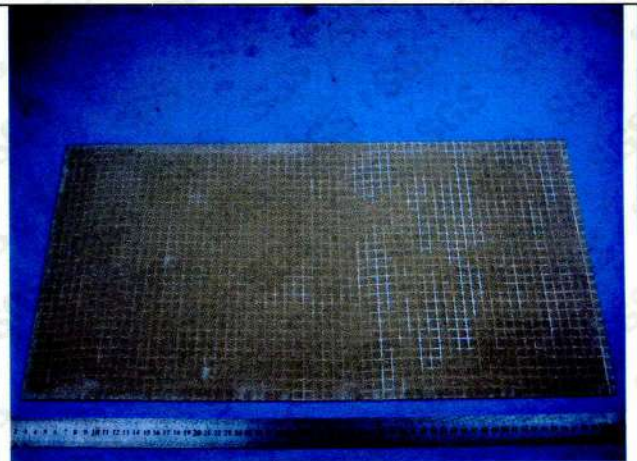
Test Detail:

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