

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

香港創新科技及製造業聯合總會
Hong Kong Federation of Innovative Technologies
and Manufacturing Industries



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

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

FINALLIST

NAHB
IBS

CONCOURS LÉPINE
LE SALON INTERNATIONAL DE L'INVENTION
DE PARIS

2013

Diplôme

Médaille de Bronze

décerné à *Lee Shy, Saül MICHEL Fournier, Guangyong*

pour *Nouveaux matériaux composites*

Le Président de l'Association

Le Secrétaire Général

Le Président du Jury



MCM Technical Data Sheet

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	

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*:

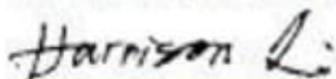
Chapter 10 Interior Finish, Contents, and Furnishings

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

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SGS

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

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