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**econic clay**  
coverings

econic clay Material

**Material science  
that shapes  
the future**

**econic clay  
Material**



<http://www.phomi.com>  
<http://www.phomi-mcm.com>  
email: [sales@phomi.com](mailto:sales@phomi.com)

PHOMI HOLDING

 **PHOMI** HOLDING

## PHOMI Factory Real View Photos



Warehouse



Overseas Warehouse

## PHOMI Profile

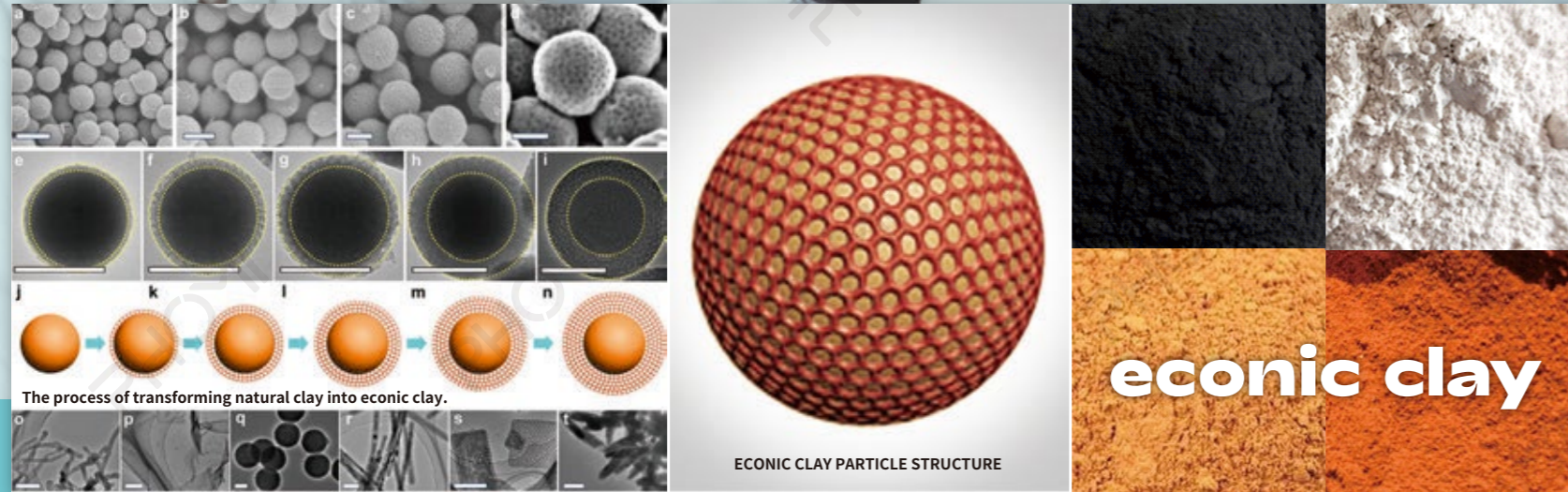
PHOMI was founded in 2008, which is a material technology company, and initiated a material revolution, transforming natural soil into a new material: econic clay.

PHOMI is focusing on the frontier of international innovative eco-environmental materials, dedicating to the R&D and industrialization of econic clay, leading the global econic clay materials revolution to alleviate the environmental degradation caused by excessive global carbon emissions.

At present, the construction materials and elastic materials derived from PHOMI econic clay have been industrialized, which is a national strategic emerging industry project that won the China Patent Award in 2021 and the Gold Award at the Asian Invention Expo in 2020. A number of independent R&D of global innovative products of econic clay casing materials (such as TV, computer, refrigerator, air conditioner casings) have been in the pilot stage.

PHOMI econic clay materials cover a wide range of application areas, focusing on the layout of the material upgrade of traditional industrial application sites and later developing more materials with harmonious coexistence of economic value and social value.





## econic clay Material

The raw materials are ordinary inorganic materials such as red, yellow, white and gray mud and stone powder. After collecting, color separation and crushing into microscopic magnitude powder, using specific surfactants for particle modification so that each particle is encapsulated with an active substance and has a mesh-like multi-cluster structure, which is manufactured at low temperatures to become an eco-environmental materials. This material is named in English-speaking countries: "econic clay". The Chinese industry standard name: "Modified clay materials-MCM". Since this material was invented by PHOMI, it is also named "PHOMI econic clay material".

By mixing and reacting econic clay materials with different polymers, different "Organic-inorganic hybrid eco-environmental materials" will be derived. Known plastics and resins are susceptible to aging and fading under UV exposure. The organic-inorganic hybrid eco-environmental materials of econic clay products in which the polymer will also age under UV exposure, but during its aging cycle, the econic clay also absorbs enough moisture from the air and activates the molding synchronously, and both organic and inorganic realize the change of life so that they can't age.

Derivatives of econic clay retain all the superior performance of earth and mineral: breathing, moisture resistant, fire resistant and sustainable.



Traditional construction materials system

## Traditional construction materials system

Traditional construction materials system is composed of natural stone, aluminum, ceramic, tile, cement products, plastic products, wood and paint and other multi-industry materials. The materials for each building usually need to be procured across industries and with a wide range of suppliers. Loose production methods, complex standards and resource-constrained traditional construction materials supply chains make it difficult for owners and builders to plan materials, manage construction quality and control costs. As a result, every construction project inevitably pays additional cost.

In our pursuit of a better living environment, the cost is that ecological damage and premature consumption of resources. For example, clay became into ceramics, which produces a large amount of solid waste emissions; stone mining, which destroys a mountain range; oil-derived plastics, which produce a large amount of white pollution; and deforestation, which thins the earth's ozone layer.

For centuries, mankind has been cutting, mining, calcining and refining, so that buildings have been erected, but along with that comes is that the destruction of the earth, rivers and mountains, and the depletion of the earth's resources. Facing the reality of life, we must change our existing lifestyle, save energy, protect the ecology, and meet the arrival of the low-carbon era.

## PHOMI eonic clay Material Construction Material System Advantages

PHOMI eonic clay materials can be derived from the product forms of sheet, plate, block, profile, coil and paint, etc., through the 3D-TECH manufacturing process, presenting natural stone, wood, ceramic plate, clear water, tile, paint and other product texture, forming a new generation of construction materials system, compared with the traditional construction materials system, which has obvious advantages. This is an epoch-making change in the foundation of supply and demand of constitution materials, which corresponds to "material innovation, production method innovation, residence space innovation and business model innovation" under the call of low carbon era. **"This is not a new material, this is how we want to live in the future"** said Marcel, a famous German designer.

### High-level environmental protection:

The product process has no three waste emissions, low energy consumption, and can use renewable energy such as cogeneration and photovoltaic power generation cogeneration as production power, thus reducing the social problems of high energy consumption, high pollution and high emissions in the production and use of traditional materials such as stone, ceramics, wood, cement, plastic and rubber.

### Intelligent & High-value:

With independent intellectual property rights, the world's innovative environmental protection eonic clay material technology, adobe molding technology, 3D-TECH manufacturing technology, forming a unique technology matrix of environmental protection eonic clay material system. The 3D-TECH manufacturing technology, through scanning and modification, transforming into a unique adobe, synthesizing the texture and dynamics of various natural materials, thus presenting all kinds of traditional construction materials in a unique way, leading the sustainability of design and architecture, enabling architects and designers to become design pioneers.

### High performance:

The physical and chemical performance indexes can be adjusted according to the architectural design requirements, such as product flexibility, hardness, strength and thickness, which can meet the needs of users.

### Multi-function:

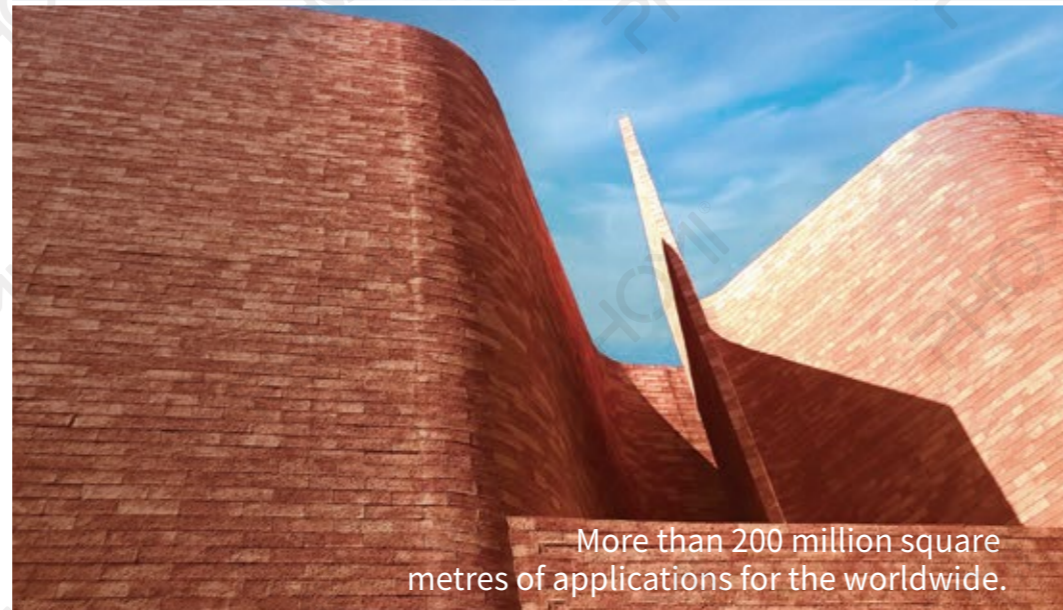
A series of functional materials can be developed by adjusting the formula, product structure and molding method, such as constant temperature, negative oxygen ion, photovoltaic, luminescence and antibacterial.

### Economical:

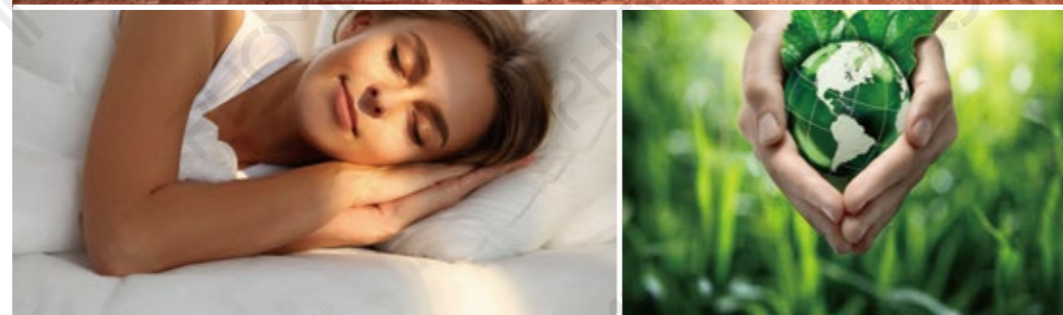
Eonic clay materials are very conducive to accurate control of project parties in terms of material procurement, project quality and cost budget. If the whole building interior and exterior decoration uses eonic clay materials system products, the comprehensive cost savings can be more than 30% compared to the traditional constitution materials supply chain for each procurement.



eonic clay  
Material  
System



More than 200 million square metres of applications for the worldwide.



## Economic value and social value



**This is not a new material, this is how we want to live in future!**

## Hoping more partners join us, Building a sustainable world together

More than ten years ago, PHOMI team has grown from the initial seven people to more than 10,000 people today. Our business has spread to more than 50 countries around the world.

PHOMI is the pioneer of eonic clay technology, the industry creator and the industry leader.

We hope that more like-minded partners join us:

**Cross-border industry alliance, top brand OEM, nation or regional agent, engineering project cooperation**

— Let's build a sustainable world and achieve a win-win situation together.



## Classification by shape

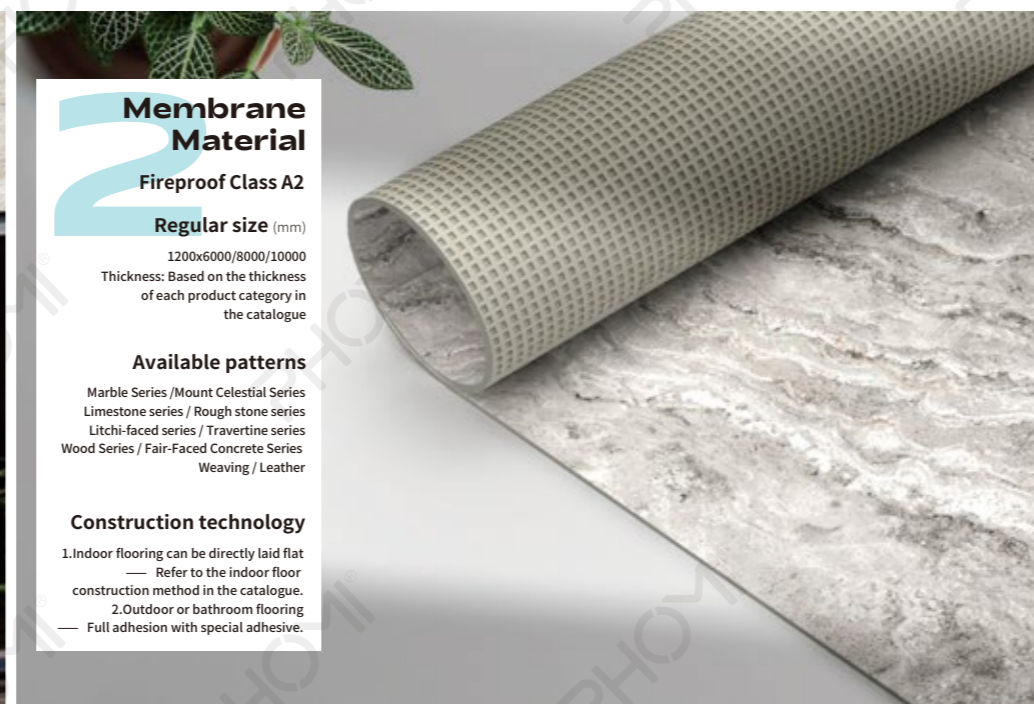
**1 Sheet Material**  
 Fireproof Class A2  
 Regular size (mm)  
 2400x1200  
 1200x600



**2 Membrane Material**  
 Fireproof Class A2  
 Regular size (mm)  
 1200x6000/8000/10000  
 Thickness: Based on the thickness of each product category in the catalogue

**Available patterns**  
 Marble Series / Mount Celestial Series  
 Limestone series / Rough stone series  
 Litchi-faced series / Travertine series  
 Wood Series / Fair-Faced Concrete Series  
 Weaving / Leather

**Construction technology**  
 1. Indoor flooring can be directly laid flat  
 — Refer to the indoor floor construction method in the catalogue.  
 2. Outdoor or bathroom flooring  
 — Full adhesion with special adhesive.



**3 Block Material**  
 Fireproof Class A1  
 Regular size (mm)  
 1200x600x25  
 600x600x25  
 600x300x25  
 1000x300x120

**Available patterns**  
 Marble series  
 Granite flat series  
 Wood series  
 Fair-Faced Concrete series

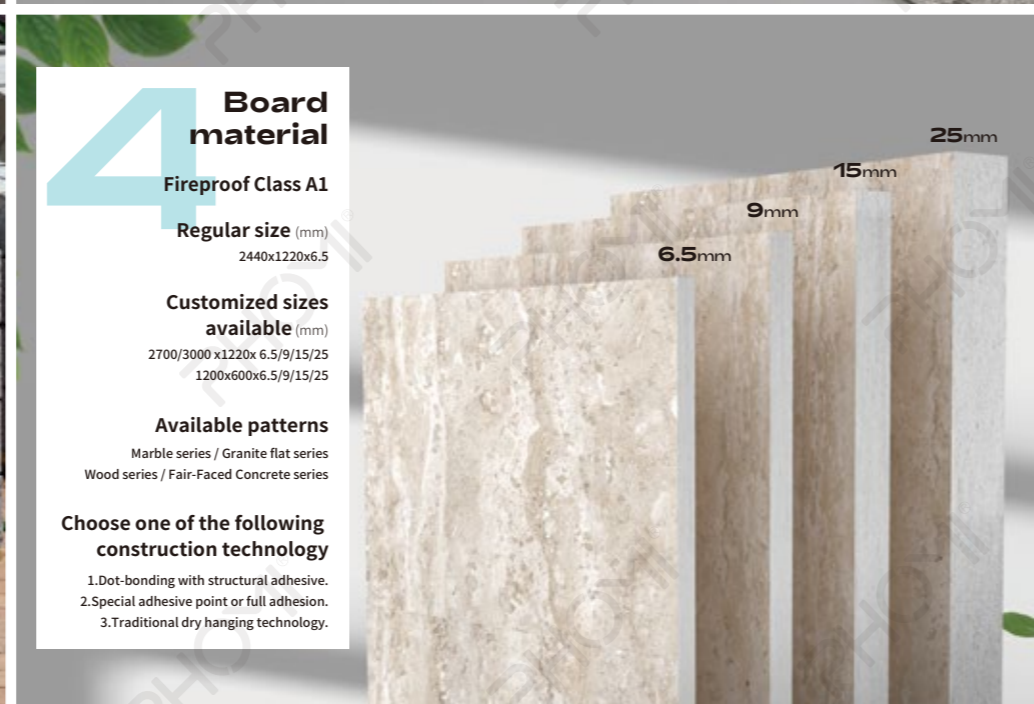


**4 Board material**  
 Fireproof Class A1  
 Regular size (mm)  
 2440x1220x6.5

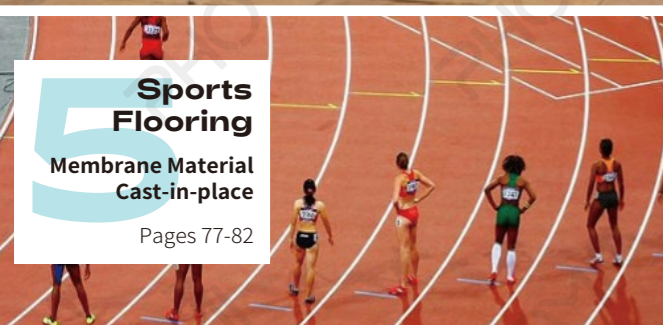
**Customized sizes available (mm)**  
 2700/3000 x1220x 6.5/9/15/25  
 1200x600x6.5/9/15/25

**Available patterns**  
 Marble series / Granite flat series  
 Wood series / Fair-Faced Concrete series

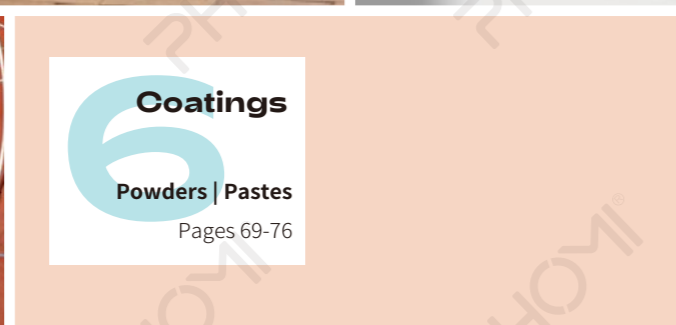
**Choose one of the following construction technology**  
 1. Dot-bonding with structural adhesive.  
 2. Special adhesive point or full adhesion.  
 3. Traditional dry hanging technology.



**5 Sports Flooring**  
 Membrane Material  
 Cast-in-place  
 Pages 77-82



**6 Coatings**  
 Powders | Pastes  
 Pages 69-76



**7 Adhesives**  
 Powders | Pastes  
 Pages 67-68



## Classification by texture

**1 Stone**  
 Pages 1-46

**2 Wood**  
 Pages 47-52

**3 Brick**  
 Pages 61-66

**4 Weaving**  
 Pages 53-56

**5 Leather**  
 Pages 57-60



## Classification by function

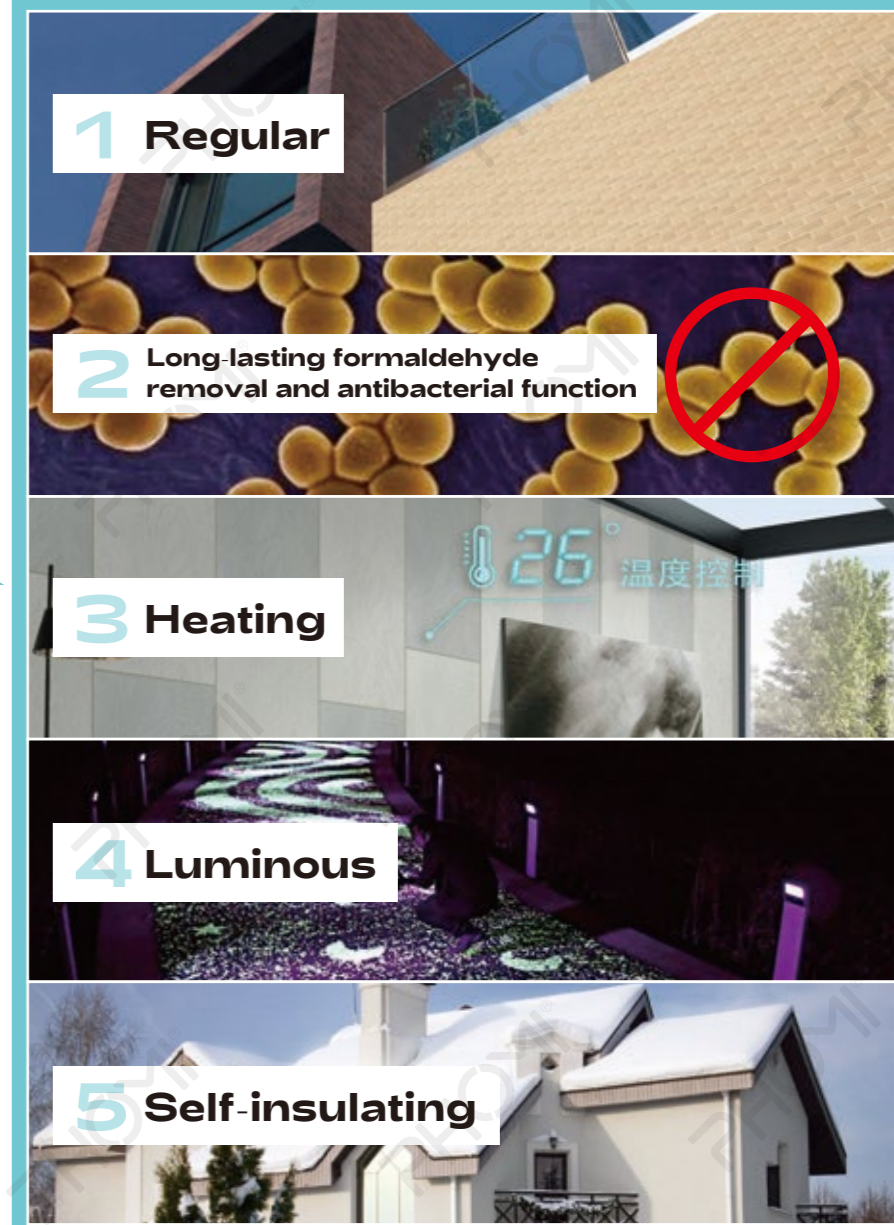
**1 Regular**

**2 Long-lasting formaldehyde removal and antibacterial function**

**3 Heating**

**4 Luminous**

**5 Self-insulating**




## Applications

**Exterior Wall Decoration System**  
 Constitution Exterior Wall Pavement



**Interior Wall Decoration System**  
 Internal Wall Decoration



**Modular Constitution**  
 Magic Cube Assembly Constitution  
 Complete Bathrooms



**Municipal Systems**  
 Road & Bridge  
 Tunnel  
 Green-way  
 Landscape



econic clay Material

# Long-lasting formaldehyde removal and antibacterial function



The special ultra-fine mineral clay powder has a large proportion of surface area and can adsorb formaldehyde, benzene, bacteria and other harmful organic components.

The product is a non-toxic and inorganic antibacterial formaldehyde remover, which is a high-tech product funded by the National 863 Program, the National Torch Program, the National Innovation Fund and the Key New Product Program. It has needle-like active centre and tip effect that does not need UV excitation like photocatalyst, but can generate and release active oxygen repeatedly by the excitation of mixed ions, thus decomposing small organic molecules such as formaldehyde and benzene adsorbed by the ultra-fine mineral clay into water and CO<sub>2</sub>. This product enables the continuous decomposition of harmful gases such as formaldehyde and benzene and the killing of harmful bacteria for decades. This function can be added to the PHOMI products according to the customer's needs.

国家建筑材料测试中心  
(National Research Center of Testing Techniques for Building Materials)  
检验报告  
(Test Report)  
中心编号: WT2018B01A03450 第2页 共2页

序号	检验项目	标准要求 (表1)		检验结果	单项结论	检验依据	
		I级	II级				
2	抗菌性能	金黄色葡萄球菌 (%)	≥99	100	符合 (I)	HG/T 3950-2007 (2017) 6.4	
		大肠埃希氏菌 (%)	≥90	100	符合 (I)	6.4	
序号	检验项目	标准要求 (表2)		检验结果	单项结论	检验依据	
		I级	II级				
3	抗霉菌性能 (级)	黑曲霉、土曲霉、宛氏拟青霉、绳状青霉、出芽短梗霉、球毛壳	0	1	0	I级	HG/T 3950-2007 (2017) 6.5
		(以下空白)					

备注:  
样品长霉等级评定: 0级 不长, 即显微镜 (放大50倍) 下观察未见生长;  
1级 痕迹生长, 即肉眼可见生长, 但生长覆盖面积小于10%;  
2级 生长覆盖面积不小于10%.

本報告結束

检验单位地址: 北京市朝阳区管庄中建材院南楼 电话: 65728538 邮编: 100024

ctc 国检集团

国家建筑材料测试中心  
检测报告  
报告编号: WT2020B01C03789 第4页 共4页

序号	检测项目	标准要求 JC/T 1074-2008 1类材料	检测结果	单项结论	检测依据
18.	甲醛净化性能	≥75%	93.6%	符合	JC/T 1074-2008
19.	甲醛净化效果持久性	≥60%	88.8%	符合	JC/T 1074-2008
(以下空白)					

备注:  
1. 实验用试样尺寸 1m<sup>2</sup>; 密封舱容积: 1m<sup>3</sup>.  
2. 1m<sup>2</sup>涂刷样品质量: 0.5kg.  
3. 实验条件: 温度 (20±2) °C, 相对湿度 (50±10) % RH.  
4. 样品按非光催化类材料 (不开灯, 24h) 检测.  
5. 检测地点: 管庄.

本報告結束

检测机构地址: 北京市朝阳区管庄东里1号 电话: 010-51167681 邮编: 100024

ctc 国检集团

## Application



Hotel Lobby / Guest Rooms / Lift Front Room / Meeting Rooms / Restaurant / Pool (Wall, Floor and Table Surfaces)



High-speed Railway Stations / Airports / Shopping Malls / Municipal Offices (Walls, Floors and Surfaces)



Hospitals / Schools / Libraries / Exhibition halls (Walls, Floors and Surfaces)



Home / Bathroom spaces (Walls, Floors and Surfaces)

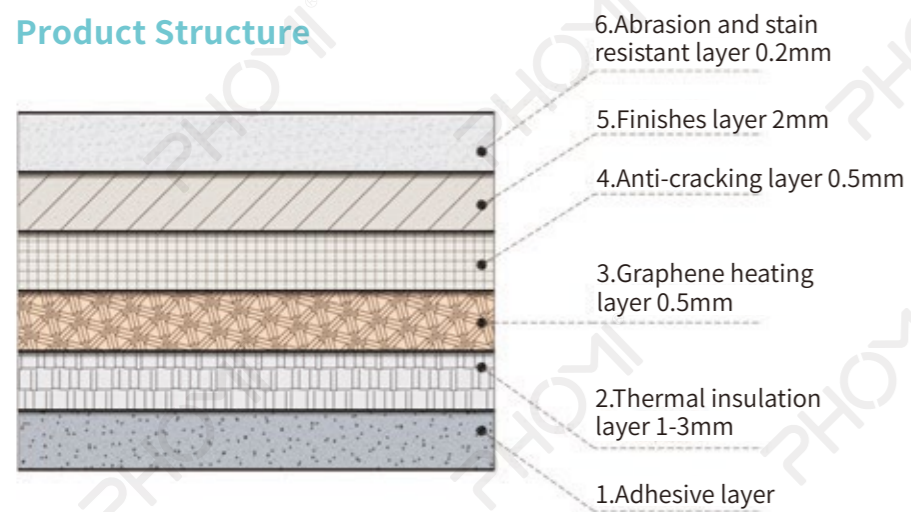
## econic clay Material Heating Function

Scientists of PHOMI have added graphene to econic clay and put micro sensors into the structure of the product and invented a surface material with a thermostatic function. It is no longer a fantasy that indoor temperatures can be regulated by decorative materials.

### Application



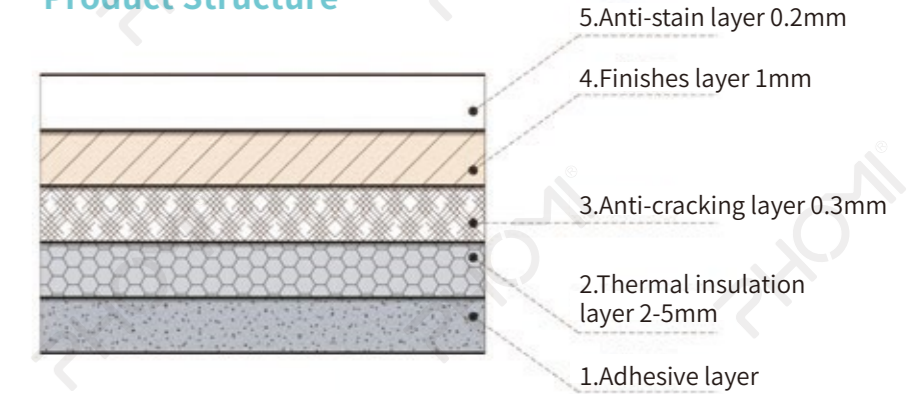
### Product Structure



## econic clay Material Self-insulating Function

Scientists of PHOMI have added aerogel to econic clay, invented the ultra-thin stone with heat insulation, thermal insulation and A-grade fire protection products.

### Product Structure



### Application



Ultra-thin internal insulation + fireproofing + decoration in one



Ultra-thin external insulation + fireproofing + decoration in one

**Material technology  
Integration of 3D-TECH  
Traditional stone industry  
transformation**

**eonic clay Material  
Stone Series**

(Regular & Function)



Travertine Series



☆ Travertine Andes White

☆ Travertine Andes Yellow

☆ Travertine Andes Gold

Travertine Andes Light Brown

☆ Travertine Andes Red

☆ Travertine Andes Grey

☆ Travertine Cloud White

Travertine Cloud Yellow

☆ Travertine Cloud Grey

Travertine Cloud Orange

☆ Travertine White Gold

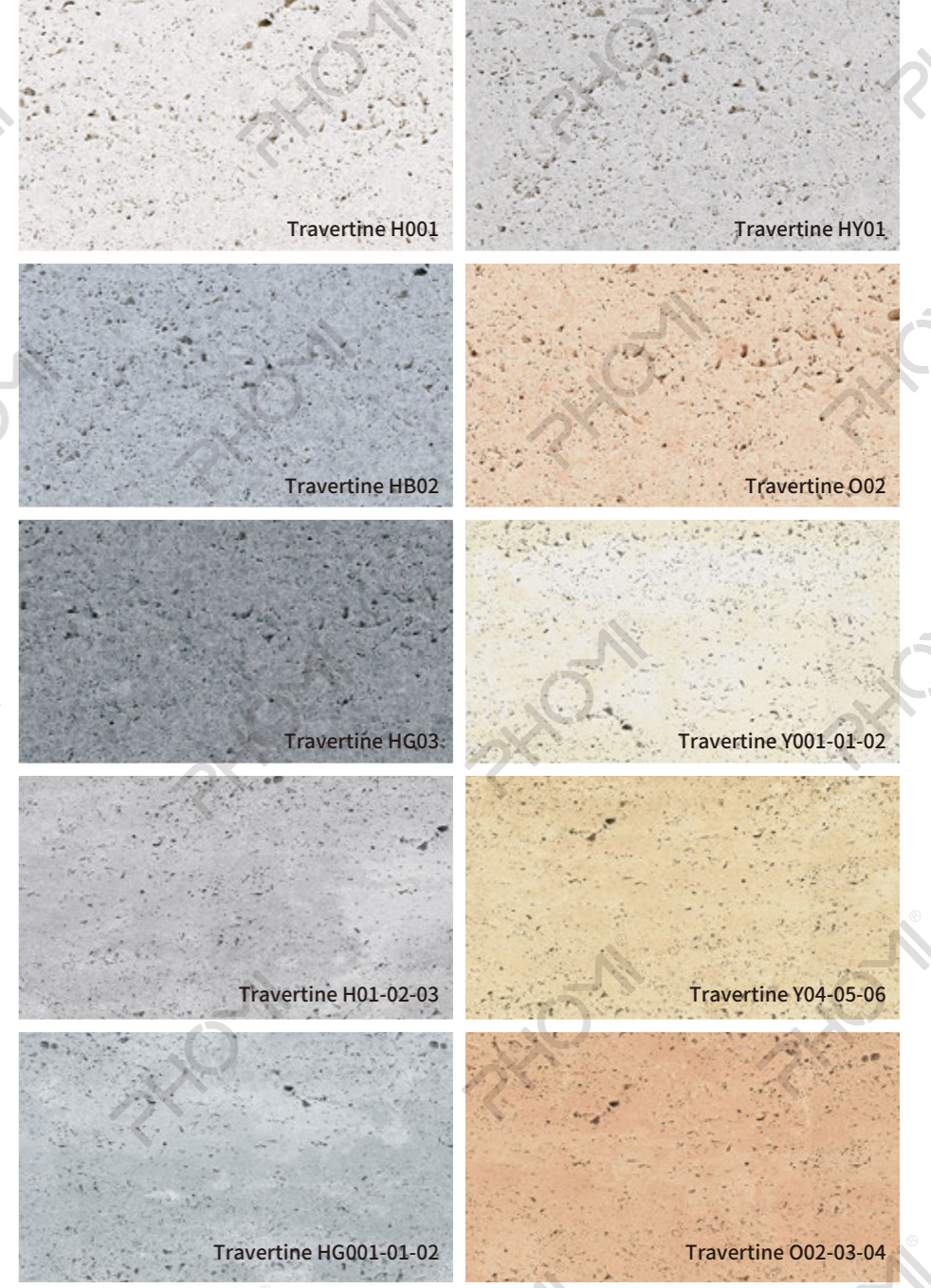
Travertine Golden Grey

Travertine Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	3(±0.5)	1220 x 620 x 75	14	10.08	52-55KG	10	100.8	1300 x 690 x 1000
1200 x 1200								
2400 x 1200		2420 x 1230 x 14	4	11.52	55-58KG	10	115.2	2500 x 1300 x 350

Travertine Series



Travertine H001

Travertine HY01

Travertine HB02

Travertine O02

Travertine HG03

Travertine Y001-01-02

Travertine H01-02-03

Travertine Y04-05-06

Travertine HG001-01-02

Travertine O02-03-04

Standard Sample  
200x200mm

See standard color chart  
for more colors



Marble Series



Marble Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	2.5 (±0.5)	1220 x 620 x 75	20	14.4	57-58KG	10	144	1300 x 690 x 1000
1200 x 1200								
2400 x 1200		2420 x 1230 x 14	4	11.52	45-47KG	15	172.8	2500 x 1300 x 350

Marble Series



Marble Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	2.5 (±0.5)	1220 x 620 x 75	20	14.4	57-58KG	10	144	1300 x 690 x 1000
1200 x 1200								
2400 x 1200		2420 x 1230 x 14	4	11.52	45-47KG	15	172.8	2500 x 1300 x 350

Standard Sample  
200x200mm

See standard color chart  
for more colors



Limestone Series



Limestone Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	2.5 (±0.5)	1220 x 620 x 75	20	14.4	57-58KG	10	144	1300 x 690 x 1000
1200 x 1200								
2400 x 1200		2420 x 1230 x 14	4	11.52	45-47KG	15	172.8	2500 x 1300 x 350

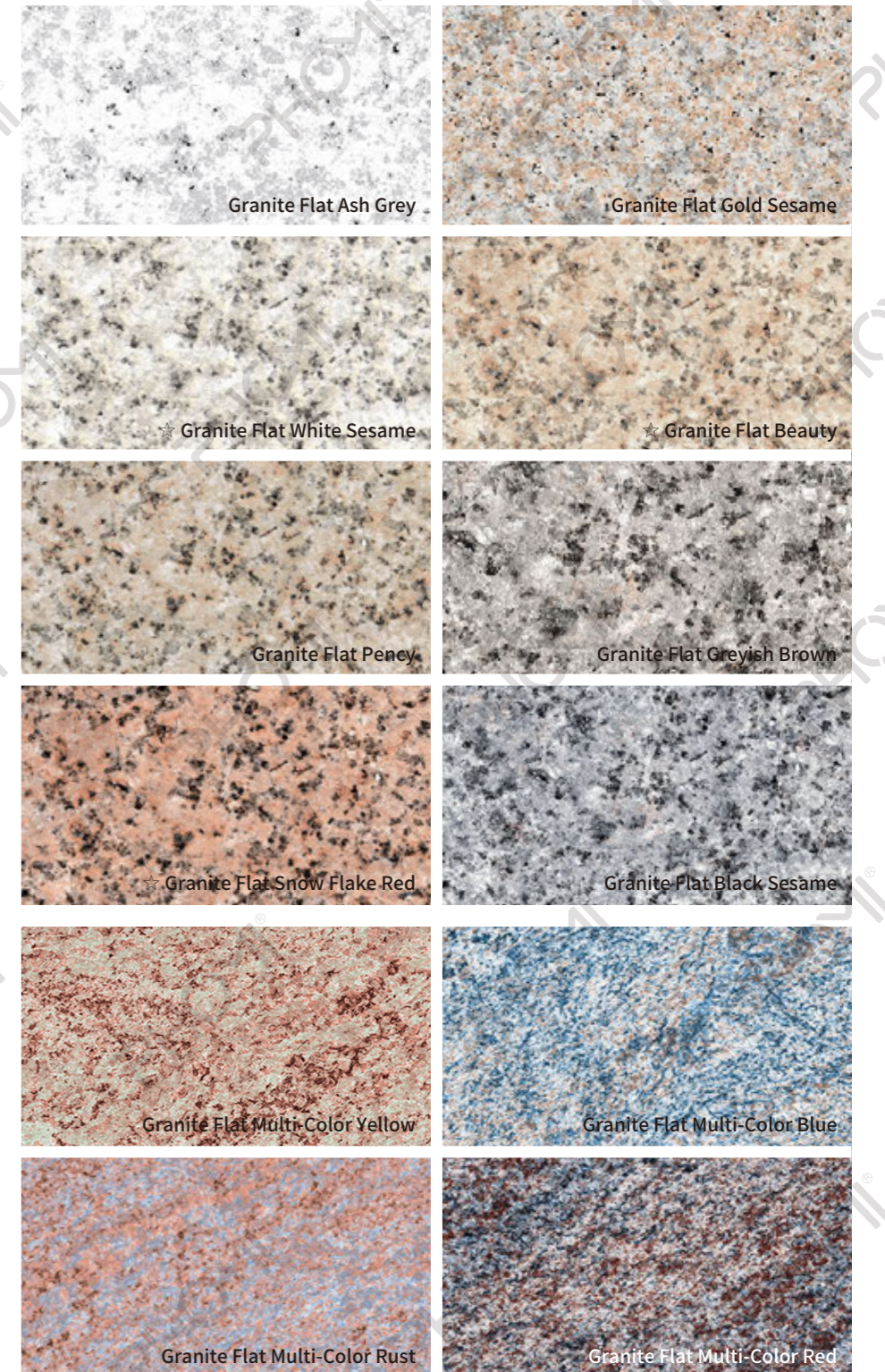


Granite Flat Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	2.5 (±0.5)	1220 x 620 x 75	20	14.4	57-58KG	10	144	1300 x 690 x 1000
1200 x 1200								
2400 x 1200		2420 x 1230 x 14	4	11.52	45-47KG	15	172.8	2500 x 1300 x 350

Granite Flat Series



Polished Stone Series



Polished Stone Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	2.5 (±0.5)	1220 x 620 x 75	20	14.4	57-58KG	10	144	1300 x 690 x 1000
1200 x 1200								



Polished Stone Series



Standard Sample  
200x200mm

See standard color chart  
for more colors



Sandstone Series



Standard Sample  
200x200mm

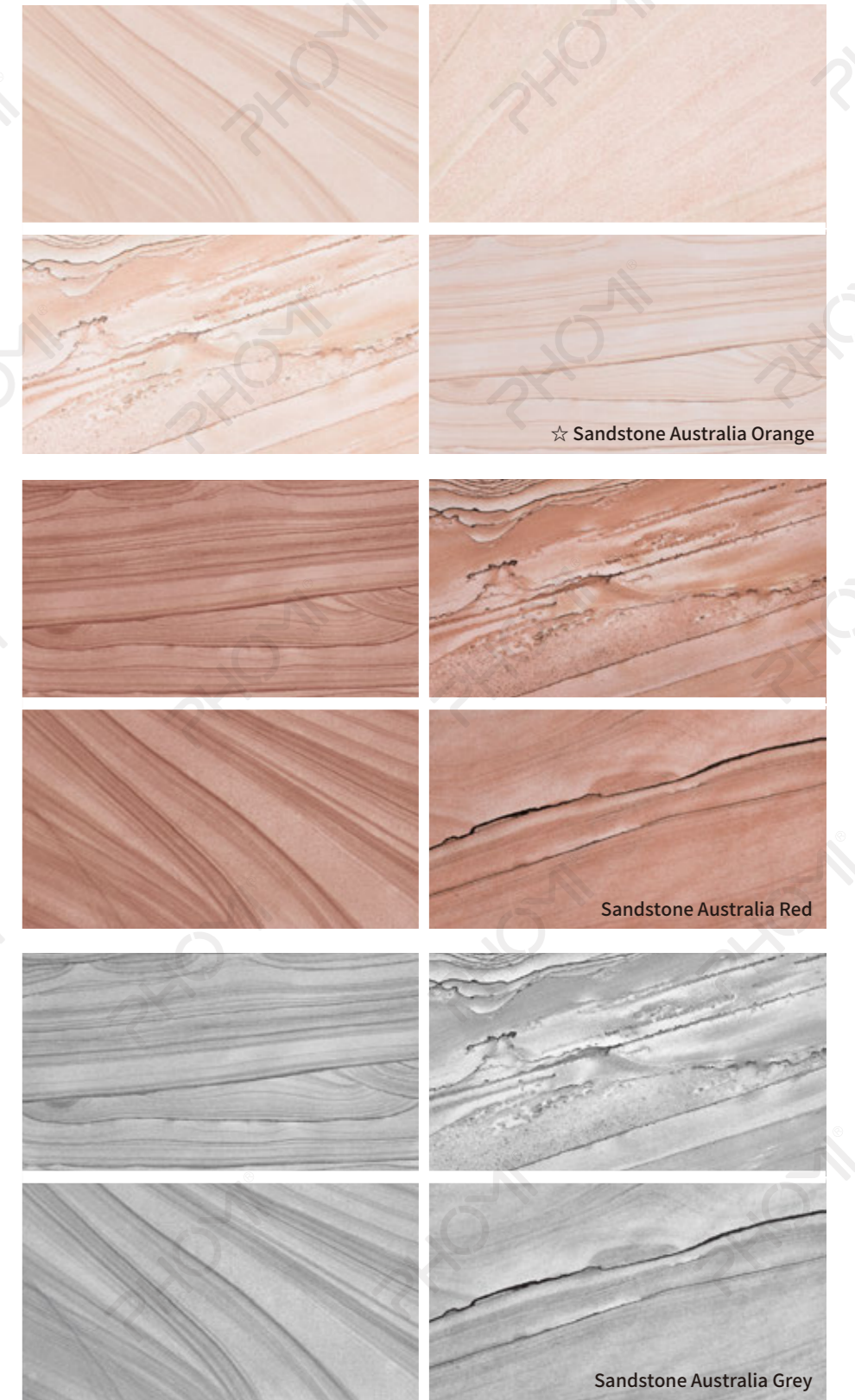
See standard color chart  
for more colors

Sandstone Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	2.5 (±0.5)	1220 x 620 x 75	20	14.4	57-58KG	10	144	1300 x 690 x 1000
1200 x 1200								
2400 x 1200		2420 x 1230 x 14	4	11.52	45-47KG	15	172.8	2500 x 1300 x 350

Sandstone Series



Oman Linear Stone Series



Oman Linear Stone Series

regular size	thickness	package size	pcs/ carton	m <sup>3</sup> /carton	kg/ carton	carton/ pallet	m <sup>3</sup> /pallet	pallet size
1200 x 600	1-4.5	1220 x 620 x 75	14	10.08	39-42KG	10	100.8	1300 x 690 x 1000
1200 x 1200								

unit: mm

Oman Linear Stone Series



Oman Linear Stone Series



Standard Sample  
200x200mm

See standard color chart  
for more colors

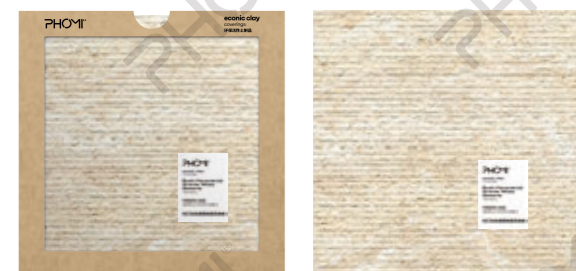
Oman Linear Stone Series

unit: mm								
regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1~4.5	1220 x 620 x 75	14	10.08	39~42KG	10	100.8	1300 x 690 x 1000
1200 x 1200								

Oman Linear Stone Series



Stone Ridged Series



Standard Sample  
200x200mm

See standard color chart  
for more colors

Stone Ridged Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	3 (±1)	1220 x 620 x 75	14	10.8	39-42KG	10	100.8	1300 x 690 x 1000
1200 x 1200								
2400 x 1200								

unit: mm



Stone Ridged Series





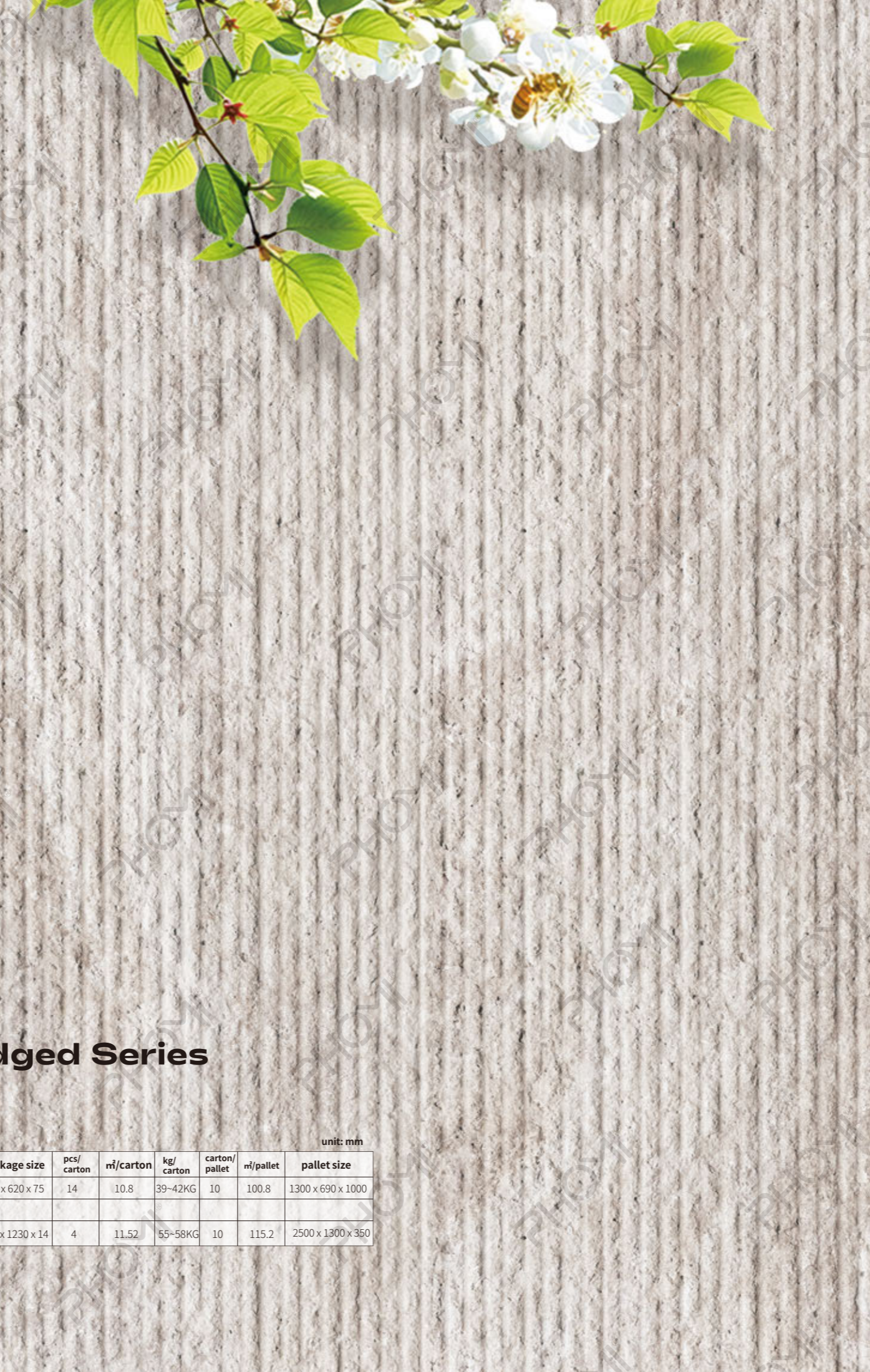
Stone Ridged Series



Stone Ridged Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	3 (±1)	1220 x 620 x 75	14	10.8	39-42KG	10	100.8	1300 x 690 x 1000
1200 x 1200								
2400 x 1200		2420 x 1230 x 14	4	11.52	55-58KG	10	115.2	2500 x 1300 x 350



Stone Ridged Series

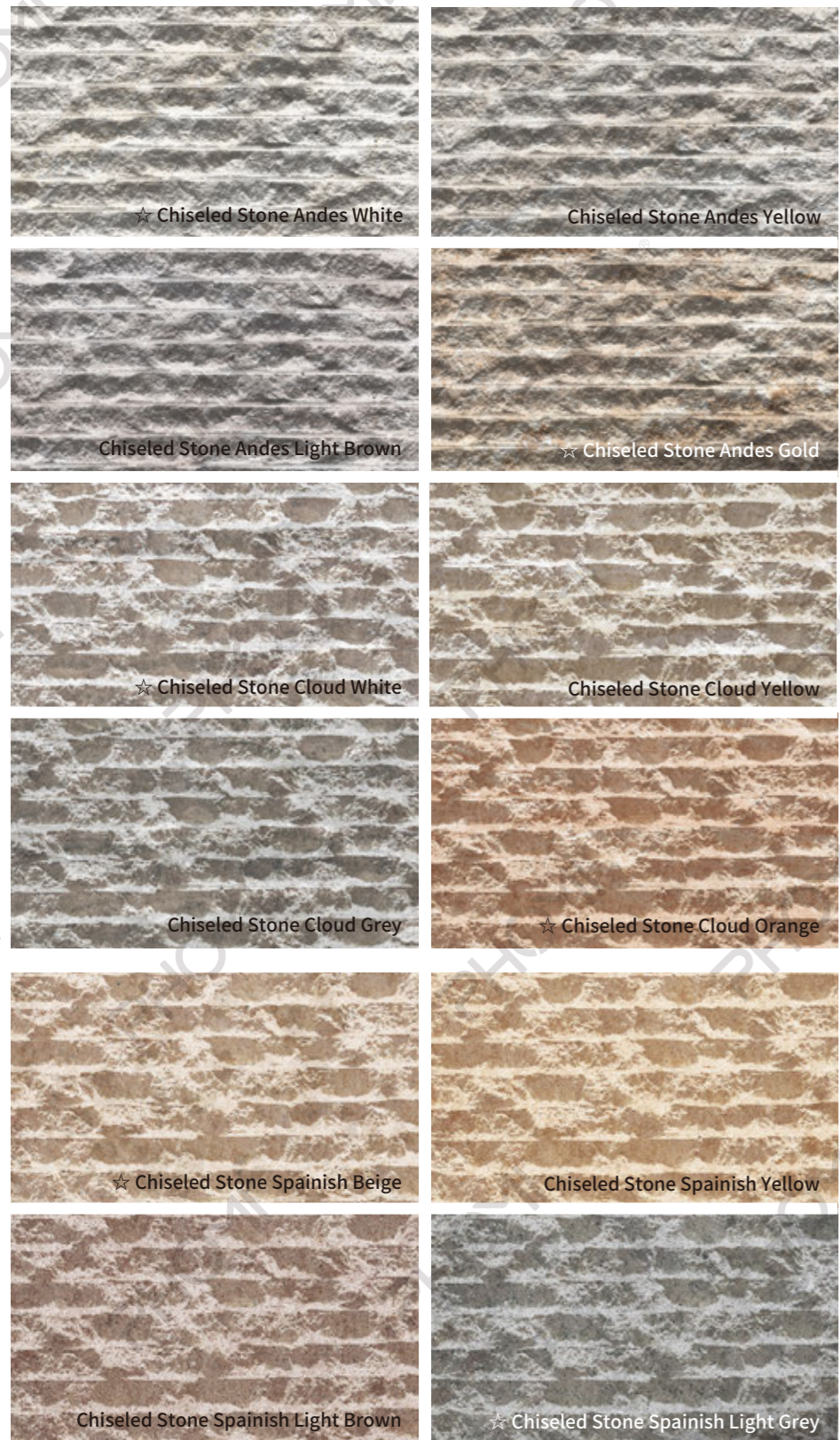


Standard Sample  
200x200mm

See standard color chart  
for more colors



Chiseled Stone Series



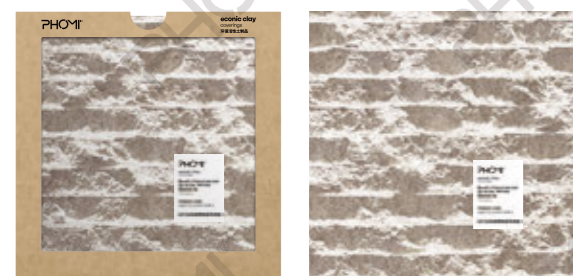
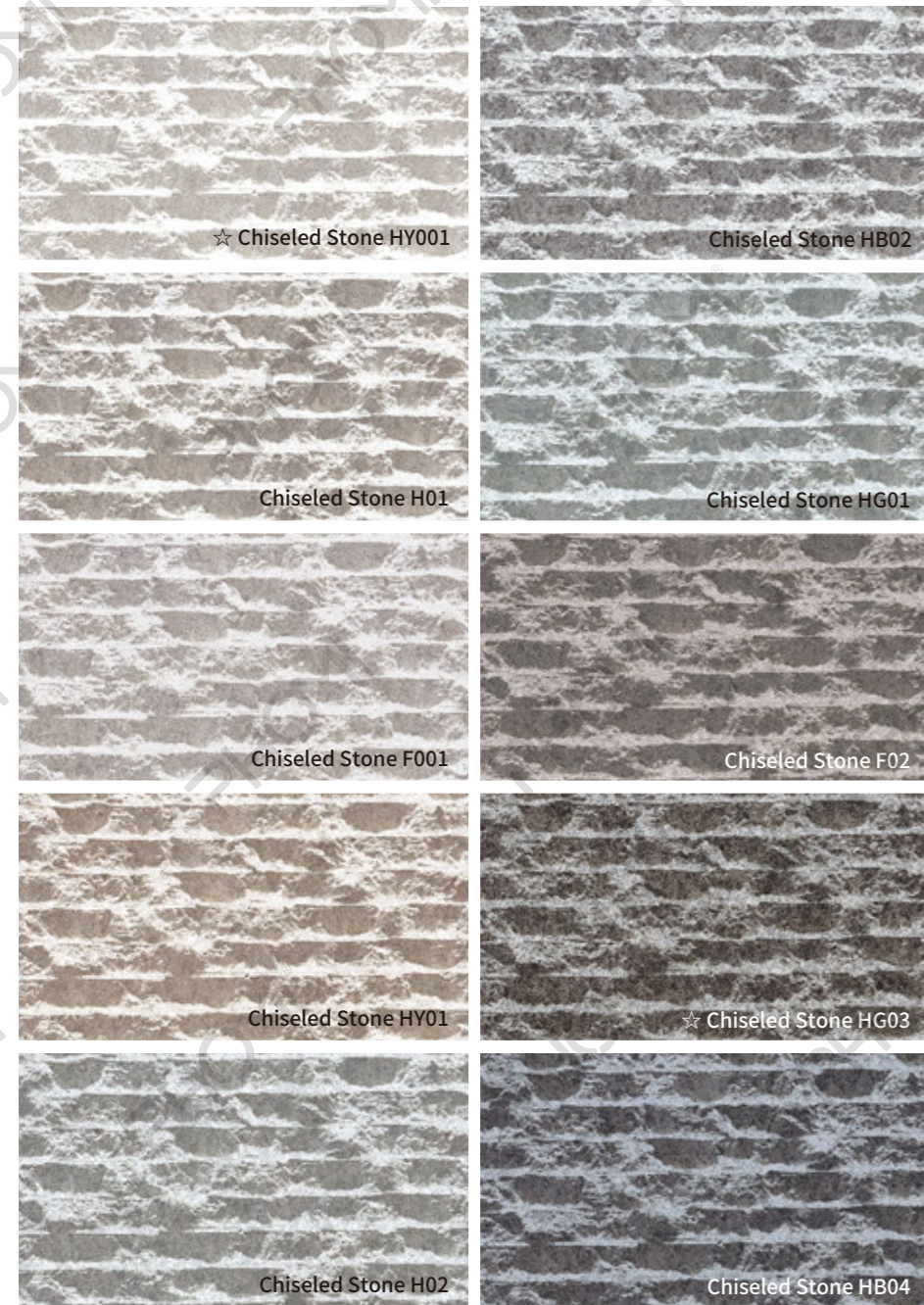
Chiseled Stone Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-4.5	1220 x 620 x 75	7	5.04	39-42KG	10	50.4	1300 x 690 x 1000
1200 x 1200								
2400 x 1200								

Chiseled Stone Series



Chiseled Stone Series



Standard Sample  
200x200mm

See standard color chart  
for more colors



Chiseled Stone Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-4.5	1220 x 620 x 75	7	5.04	39-42KG	10	50.4	1300 x 690 x 1000
1200 x 1200								
2400 x 1200								

Chiseled Stone Series



35 Piece Stone Series



35 Piece Stone Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-5 natural unevenness							

unit: mm

35 Piece Stone Series



Scabbled Stone Series



Scabbled Stone Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
900 x 600	1-4							
1380 x 600								

Bush Hammered Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
900 x 600	2.5 (±0.5)							
1380 x 600								

Bush Hammered Series



Rough Surface Series



Rough Surface Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-4	1220 x 620 x 75	10	7.2	51-52KG	10	72	1300 x 690 x 1000
1200 x 1200								
2400 x 1200								

Rough Surface Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-4	1220 x 620 x 75	10	7.2	51-52KG	10	72	1300 x 690 x 1000
1200 x 1200								
2400 x 1200								

Rough Surface Series



Standard Sample  
200x200mm

See standard color chart  
for more colors



Rough Surface Series



Rough Surface Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-4	1220 x 620 x 75	10	7.2	51-52KG	10	72	1300 x 690 x 1000
1200 x 1200								
2400 x 1200								

unit: mm



Rough Surface Series



Infiniti Series

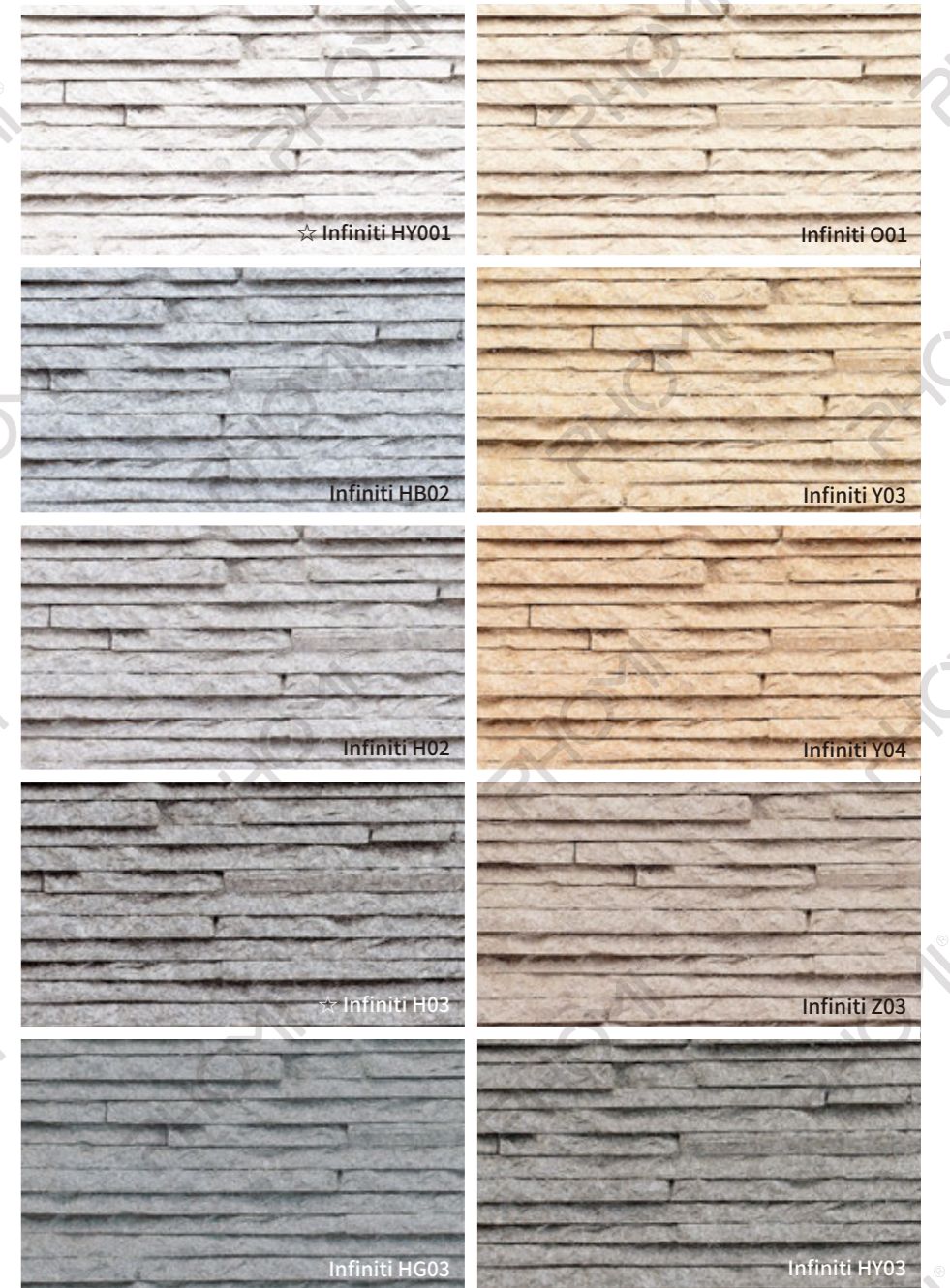


Infiniti Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	unit: mm
								pallet size
1200 x 300	1-5 natural unevenness							
1200 x 600								



Infiniti Series



Standard Sample  
200x200mm

See standard color chart  
for more colors





Skyline Series



Skyline Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-3 natural unevenness	1220 x 620 x 75	16	11.52	39-42KG	10	115.2	1300 x 690 x 1000
1200 x 1200								

unit: mm

Skyline Series



Mount Celestial Series



Mount Celestial Series

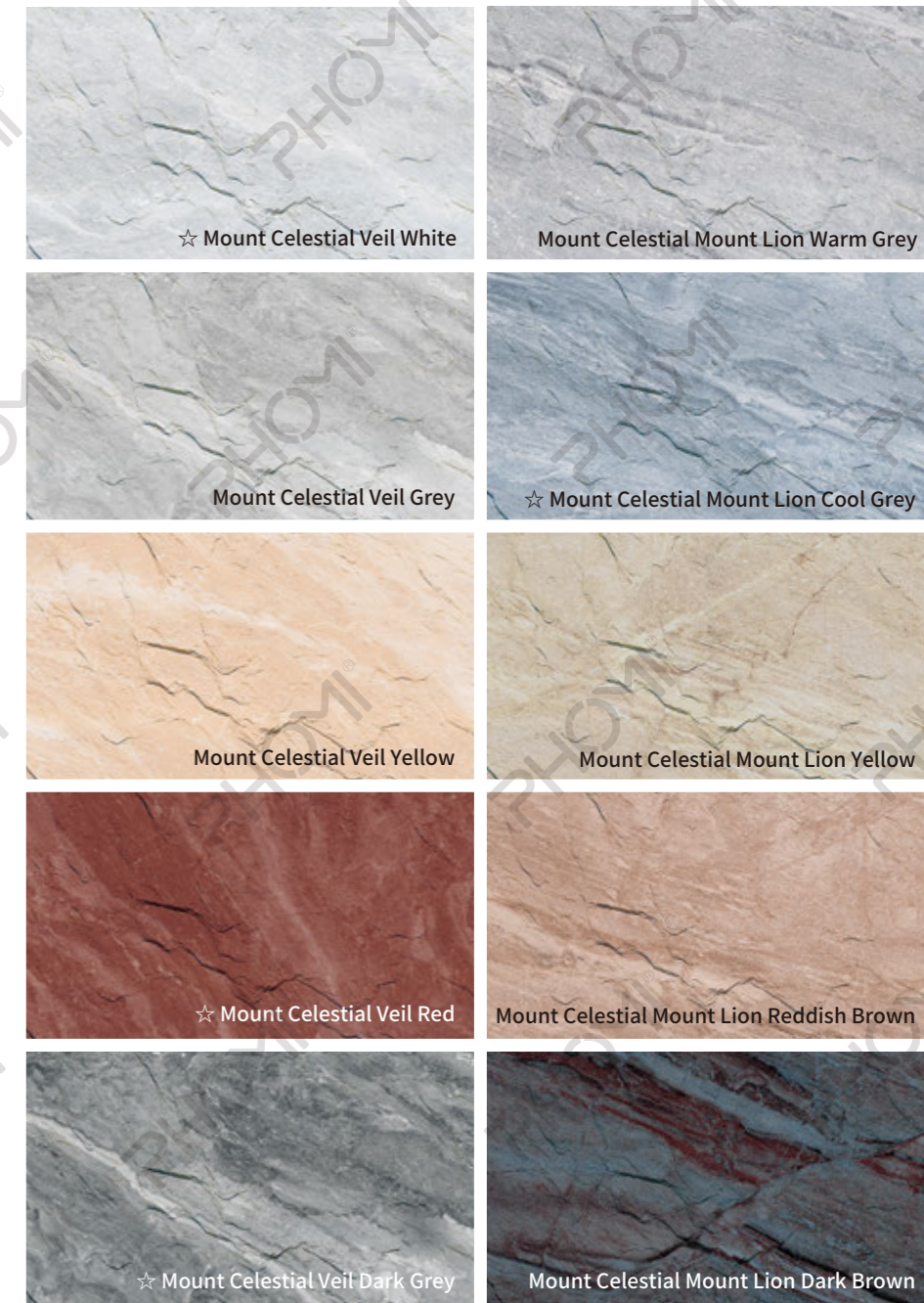
unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-3 natural unevenness	1220 x 620 x 75	18	12.96	52KG	10	129.6	1250 x 650 x 1000
1200 x 1200								
2400 x 1200								



Mount Celestial Series

Mount Celestial Series



Standard Sample  
200x200mm

See standard color chart  
for more colors



Mount Celestial Series



Mount Celestial Series

unit: mm								
regular size	thickness	package size	pcs/ carton	m <sup>3</sup> /carton	kg/ carton	carton/ pallet	m <sup>3</sup> /pallet	pallet size
1200 x 600	1-3 natural unevenness	1220 x 620 x 75	18	12.96	52KG	10	129.6	1250 x 650 x 1000
1200 x 1200								
2400 x 1200								



Mount Celestial Series

Mount Celestial Series



Standard Sample  
200x200mm

See standard color chart  
for more colors



**Reducing cement usage,  
contributing to carbon neutrality**

**econic clay Material**  
**Polish Concrete Wall**  
(Regular & Function)



Polish Concrete Wall Series



Polish Concrete Wall Series



Polish Concrete Wall Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	2.5 (±0.5)	1220 x 620 x 75	20	14.4	57-58KG	10	144	1300 x 690 x 1000
1200 x 1200								
2400 x 1200		2420 x 1230 x 14	4	11.52	45-47KG	15	172.8	2500 x 1300 x 350



Standard Sample  
200x200mm  
See standard color chart  
for more colors



Rammed Earth Wall Series



Rammed Earth Wall Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	2.5 (±1)	1220 x 620 x 75	20	14.4	40-48KG	10	144	1300 x 690 x 1000
1200 x 1200								
2400 x 1200		2420 x 1230 x 14	4	11.52	55-58KG	10	115.2	2500 x 1300 x 350

Standard Sample  
600x300mm



Concrete Rough Series



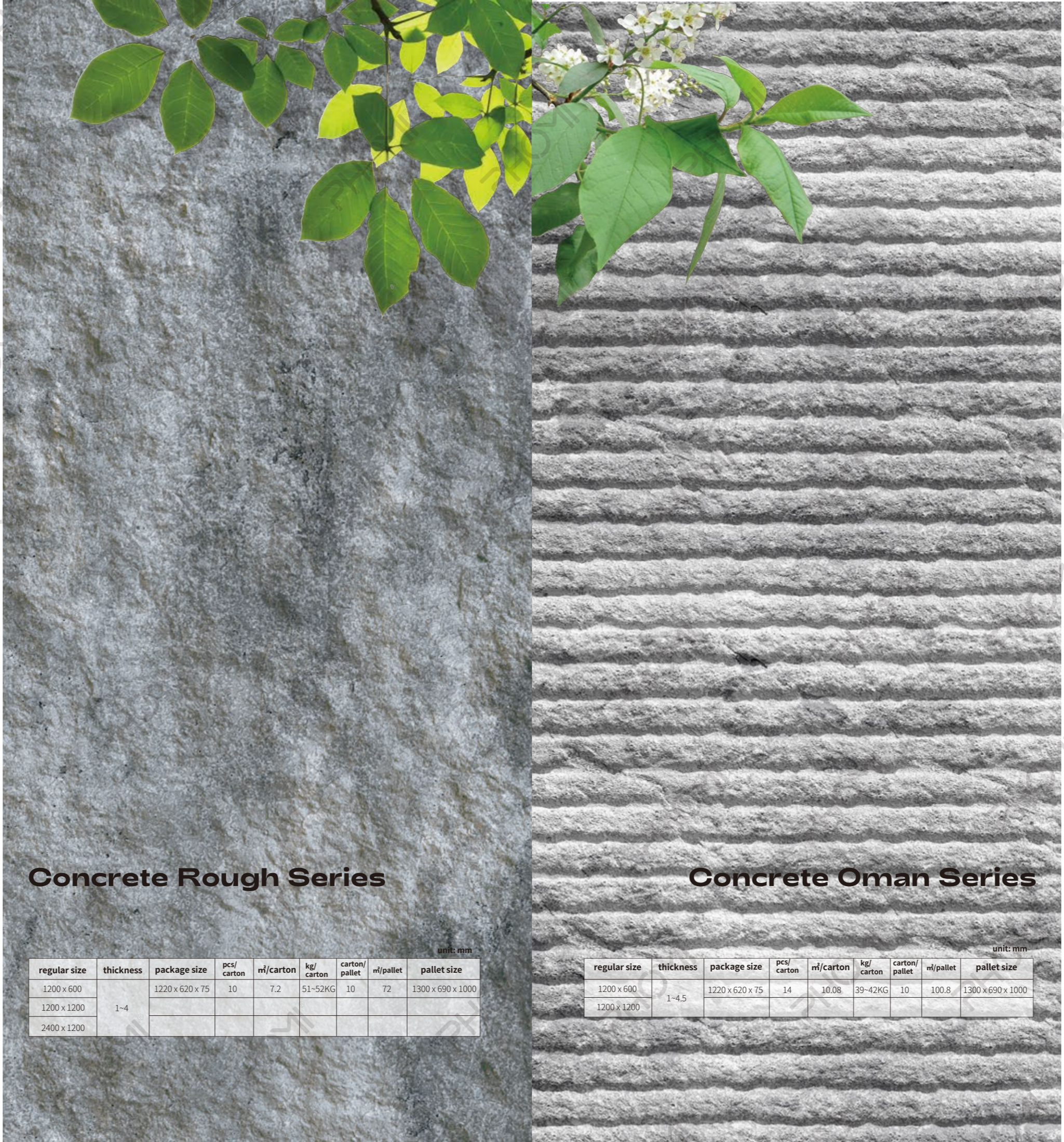
Concrete Rough Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-4	1220 x 620 x 75	10	7.2	51-52KG	10	72	1300 x 690 x 1000
1200 x 1200								
2400 x 1200								

Concrete Oman Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-4.5	1220 x 620 x 75	14	10.08	39-42KG	10	100.8	1300 x 690 x 1000
1200 x 1200								

Concrete Oman Series



# Reducing Deforestation, Saving Earth's Ozone Layer

## econic clay Material Wood Series

(Regular & Function)

### Original Wood Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	unit, mm
1350 x 300	2.5 (±0.5)							pallet size
2700 x 300								
2700 x 1200								

### Original Wood Series



Standard Sample  
200x200mm

See standard color chart  
for more colors



Ridged Wood Series



Ridged Wood Moonlight

☆ Ridged Wood Yoly

Ridged Wood Layered Rock

Ridged Wood Peach

Ridged Wood Caesious

Ridged Wood Sunglow

Ridged Wood Autumn

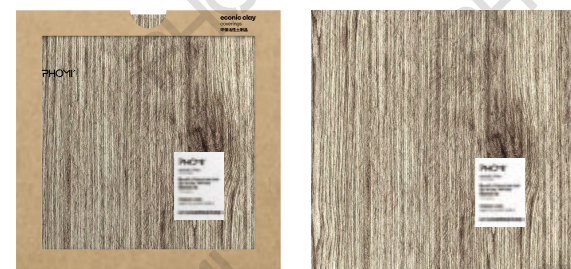
Ridged Wood Light Brown

Ridged Wood Brownish Yellow

☆ Ridged Wood Dark Brown

Ridged Wood Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	3 (±1)	1220 x 620 x 75	14	10.8	39-42KG	10	100.8	1300 x 690 x 1000
1200 x 1200								
2400 x 1200								



Standard Sample  
200x200mm

See standard color chart  
for more colors

Oman Wood Series



Oman Wood Moonlight

Oman Wood Yoly

Oman Wood Layered Rock

Oman Wood Peach

Oman Wood Caesious

Oman Wood Sunglow

☆ Oman Wood Autumn

Oman Wood Light Brown

Oman Wood Brownish Yellow

☆ Oman Wood Dark Brown

Oman Wood Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	1-4.5	1220 x 620 x 75	14	10.08	39-42KG	10	100.8	1300 x 690 x 1000
1200 x 1200								



Standard Sample  
200x200mm

See standard color chart  
for more colors

Poly Wood Series



Scabbled Wood Series



Poly Wood Series

Scabbled Wood Series



Standard Sample 200x200mm

See standard color chart for more colors

unit: mm								
regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1350 x 300	2.5 (±0.5)	1380 x 620 x 65	42	17.01	68-71KG	10	170.1	1420 x 660 x 1000
2700 x 300								
2700 x 1200								

unit: mm								
regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
900 x 600	2.5 (±0.5)							
1380 x 600								

Standard Sample 200x200mm

See standard color chart for more colors



Material technology,  
integration of ethnic customs

eonic clay Material  
**Weaving Series**

(Regular & Function)

**W Herringbone Series**

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	3(±0.5)	1220 x 620 x 75	16	11.52	40-48KG	10	115.2	1300 x 690 x 1000
1200 x 1200								

**W Herringbone Series**

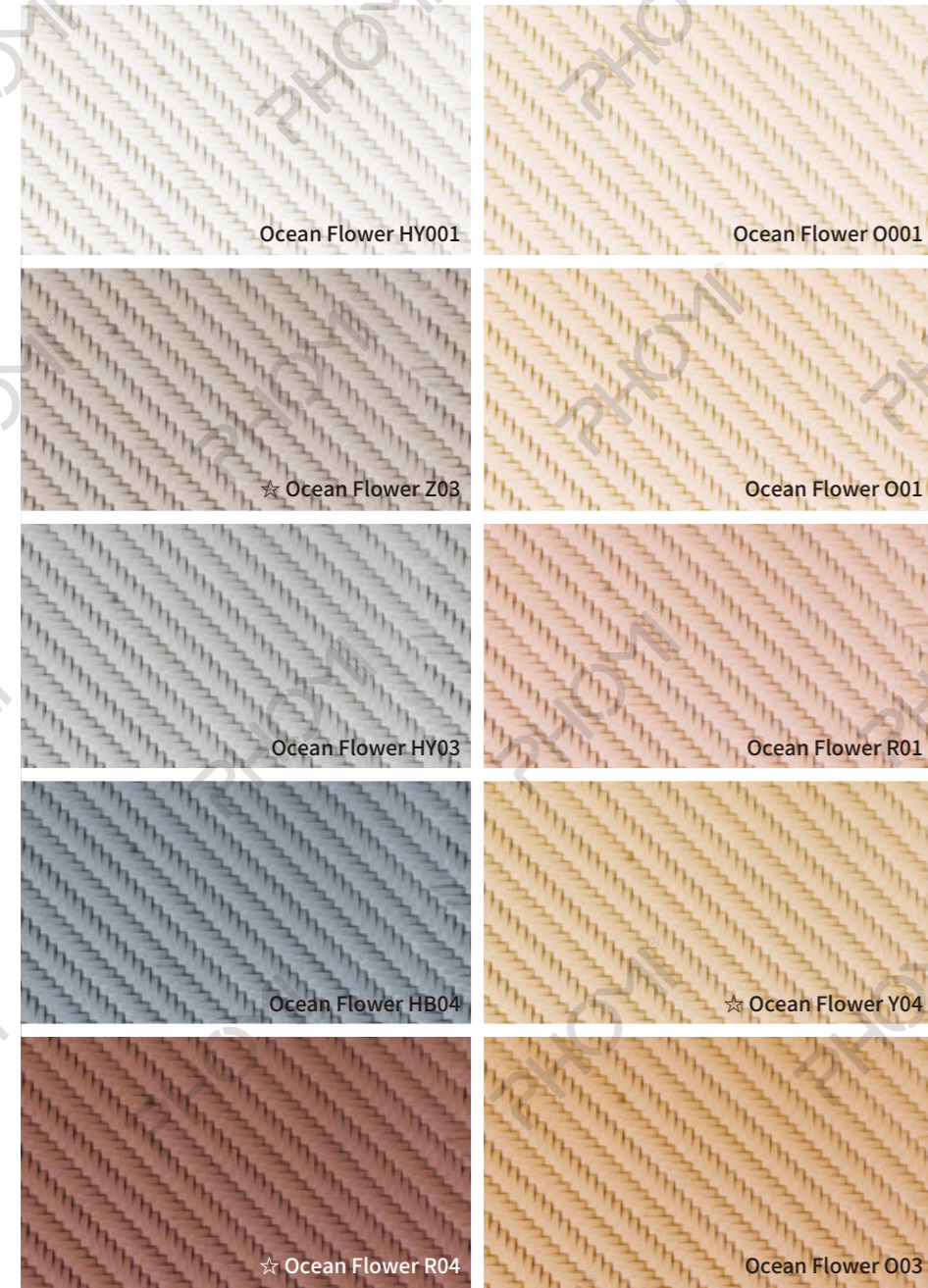


Standard Sample  
200x200mm

See standard color chart  
for more colors



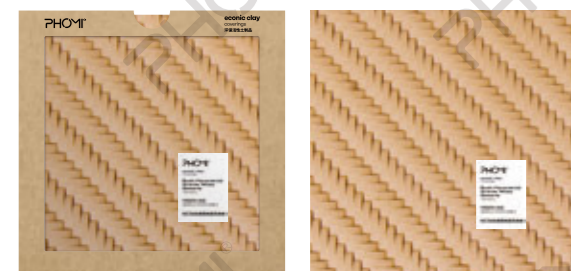
Ocean Flower Weaving Series



Ocean Flower Weaving Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	3(±0.5)	1220 x 620 x 75	16	11.52	40-48KG	10	115.2	1300 x 690 x 1000
1200 x 1200								



Standard Sample 200x200mm

See standard color chart for more colors

W Weaving Series



W Weaving Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
670 x 600	1-4							
1350 x 600								
1350 x 1200								
2700 x 1200								



Standard Sample 200x200mm

See standard color chart for more colors

**The luxury of leather,  
the elegance of earth**

**econic clay Material**  
**Leather Series**

(Regular & Function)

Croco Leather Series



☆ Y01

F001

☆ HB01

H02

HB03

HG02

☆ H05

HB06

Croco Leather Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	2.5 (±0.5)	1220 x 620 x 75	20	14.4	40-48KG	10	144	1300 x 690 x 1000
1200 x 1200								
2400 x 1200								

Standard Sample  
200x200mm

See standard color chart  
for more colors

Fine Cowhide Series



HB001

Y01

F001

☆ Y02

☆ F002

Y04

R001

G001

R01

G01

☆ R04

BG01

Fine Cowhide Series

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
1200 x 600	2.5 (±0.5)	1220 x 620 x 75	20	14.4	40-48KG	10	144	1300 x 690 x 1000
1200 x 1200								
2400 x 1200								

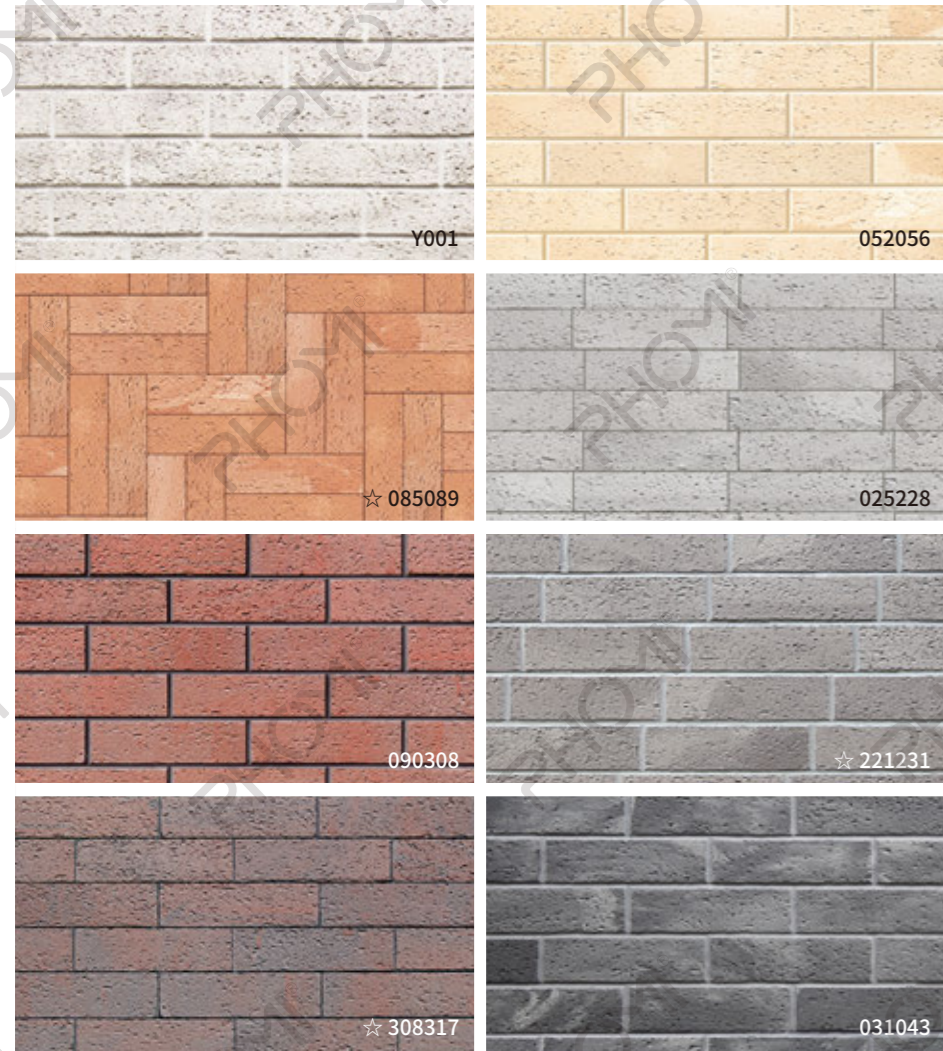
unit: mm

**Collection the  
global facing brick varieties,  
the achievement of brick and  
tile construction for a lifetime**

**eonic clay Material  
Facing Brick Series**

(Regular & Function)

R Facing Brick Series



Corner Brick  
Customize



Standard Sample 430x387mm



Piece Sample 222x63mm

R Facing Brick Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>3</sup> /carton	kg/ carton	carton/ pallet	m <sup>3</sup> /pallet	pallet size
222 x 63	2.5(±1)	460 x 260 x 160	280	3.91	18~20KG	40	156.6	1150 x 1000 x 1000



A Facing Brick Series

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>3</sup> /carton	kg/ carton	carton/ pallet	m <sup>3</sup> /pallet	pallet size
240 x 60	2.5(±1)	460 x 260 x 160	400	5.76	25~27KG	40	230.4	1100 x 1000 x 1000



Corner Brick  
Customize



Standard Sample 430x387mm



Piece Sample 240x60mm

A Facing Brick Series





**K Facing Brick Series**



Corner Brick  
Customize



Standard Sample 430x387mm



Piece Sample 225x60mm

**K Facing Brick Series**

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
225 x 60	1~4	460 x 260 x 160	240	3.24	18~20KG	40	129.6	1100 x 1000 x 1000

**G Facing Brick Series**

unit: mm

regular size	thickness	package size	pcs/ carton	m <sup>2</sup> /carton	kg/ carton	carton/ pallet	m <sup>2</sup> /pallet	pallet size
230 x 59	2.5(±1)	460 x 260 x 160	380	5.16	23~25KG	40	206.26	1100 x 1050 x 1030



Piece Sample 230x59mm



Standard Sample 430x387mm

**G Facing Brick Series**



Corner Brick  
Customize

## Econic Clay Material Construction Material System Accessories Series

### Special Adhesive



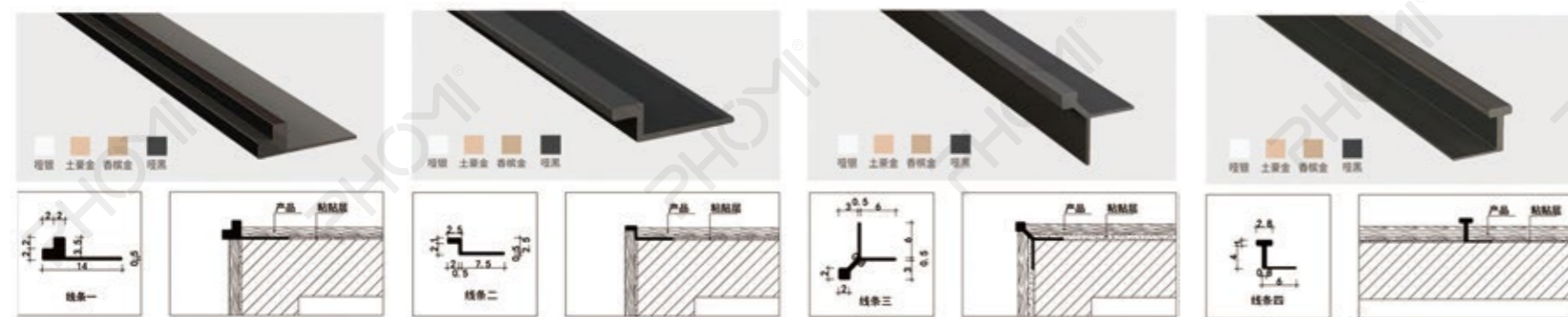
Two-component adhesive (for external and interior walls)

### Inorganic Color Pigments



white medium yellow vermilion red iron black

### Metal Fittings (not required)



metal edge trim Z-shape metal edge trim Y-shape metal edge trim plain joint metal edge trim



# economic clay Material Coatings

The earth fragrance is  
more emotional

## ECONIC CLAY MATERIAL ECO-MUD PAINT

Econic Clay Coverings Eco-Mud Paint includes water-based eco-mud paint and powder eco-mud paint. The ultra-fine mineral mud powder contained in it has a large specific surface area and can adsorb harmful organic components such as formaldehyde, benzene, and bacteria. PHOMI No. 1 formaldehyde removal powder is a high-tech product funded by the National 863 Program, the National Torch Program, the National Innovation Fund, and the Key New Product Program. It is a non-toxic inorganic antibacterial aldehyde remover, with needle-shaped active center and cutting-edge effect. It does not need to be activated by ultraviolet light like ordinary nano-photocatalyst, but through the activation of mixed valence ions, it can repeatedly generate and release active oxygen, thereby decomposing the small organic molecules such as formaldehyde and benzene adsorbed by the ultrafine mineral mud into water and CO<sub>2</sub>. eco-mud paint can last for decades. It decomposes formaldehyde, benzene and other harmful gases day and night and, kills bacteria, and truly protects the health of your family.



MAIN COMPONENTS



## ECONIC CLAY MATERIAL ECO-MUD PAINT PRODUCT PERFORMANCE



**NO NEED TO PHOTOCATALYSIS**

Long-term decomposition of harmful gases such as formaldehyde and benzene.



**ANTI-BACTERIA**

Inhibit the reproduction of bacteria and molds such as Escherichia coli and Salmonella, and take good care of the health of children.



**FIRM WITHOUT POWDER**

High surface strength without dropping powder.



**HUMIDITY CONTROL AND MOISTURE PROOF**

Absorb moisture in the humid environment, release moisture in the dry environment, without "tears" in wet season.



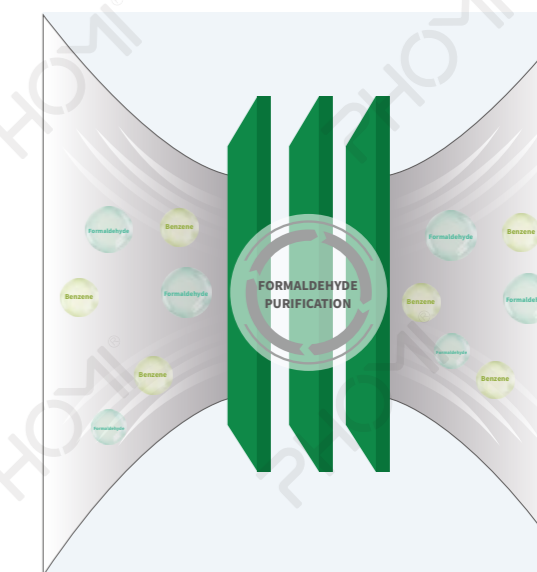
**SOUND INSULATION AND NOISE REDUCTION**

The unique micro-porous and honeycomb structure of the CBC Eco-Mud Paint can absorb the internal volume and effectively block the external volume, which has a certain sound insulation and noise reduction effect.



**FORMALDEHYDE PURIFICATION**

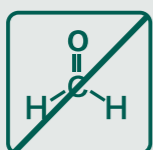
Effect duration 87.2%



## CBC® WATER-BASED ECO-MUD PAINT



Anti-Bacteria



Green Aldehyde Removal



Move-in Immediately after Painting

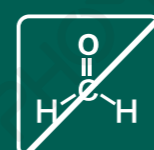


Moisture Absorption & Breathable

## CBC® POWDER ECO-MUD PAINT



Anti-Bacteria



Green Aldehyde Removal



Move-in Immediately after Painting



Moisture Absorption & Breathable

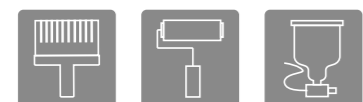
### MAIN COMPONENTS

Mineral mud, formaldehyde removal powder, water-based environmentally friendly emulsion, titanium dioxide, calcium carbonate, etc.

### APPLICATION DETAILS

- This product is suitable for indoor concrete, lime, masonry and gypsum board walls.
- New wall:
  - The wall must be sufficiently dry (base layer moisture content <10%).
  - Remove surface dust, repair gaps or wall defects, and ensure that the wall is flat and free of unevenness and cracks.
  - Repaint a wall:
    - Remove all the unstable paint film and loose floating material with a spatula, grind the wall flat, clean and dry thoroughly.
    - Rinse the moldy wall with a high-pressure water gun, and wash it with fungicides and water, and wait for it to dry before construction.
  - Apparent condition: Ensure that the surface is dry, with the moisture content within 10%, and the PH value close to neutral.

### CONSTRUCTION METHOD



Brush painting    Roller painting    Spray painting

### CONSTRUCTION CONSIDERATIONS

- During construction, the paint should be stirred well and evenly, and construction gap should be tightly covered barrel cover to prevent crust;
- Short-hair roller is recommended in roller painting, and apply twice (subject to the base cover);
- When using an airless sprayer, it is recommended to apply twice (subject to the base cover);
- Do not apply when the temperature is lower than 5°C and the relative humidity is higher than 85%.

### Dilution rate

It can be diluted with water, and the proportion of water is 10%-20%.

### Repainting time

Repainting conditions: temperature 25°C, humidity 50%  
Surface drying time: 60 min

Hard drying time: 2 hours

Repainting time: above 2 hours (properly extend the recoating time in winter)

### Storage conditions

- Store in a cool and dry place.
- Avoid storage below 0°C, prevent frost and sunlight.
- Keep container tightly closed.

### MAIN COMPONENTS

Mineral mud, formaldehyde removal powder, titanium dioxide, and calcium carbonate, etc.

### INSTRUCTIONS

- Add an appropriate volume of water to the mixing container (Pour in 80% of the construction water volume, and the remaining 20% will be used for adjustment);
- Add the powder eco-mud paint to the mixing container slowly in proportion (see the reference proportion);
- Stir with a small high-speed mixer, first stir at high speed for 10 minutes, stay for 5 minutes, and then stir for 2-3 minutes to make the inside of the material fully wet;
- After mixing, the construction can be carried out according to different modeling processes, and the first time is taken as the first coat;
- After 70% to 80% dry, a second thick coat for modeling;
- Polishing.

Warm prompt: In cold weather, it is recommended to stir with warm water and extend the stirring time.

### CONSTRUCTION METHOD



Brush painting    Roller painting    Spray painting    Puttying

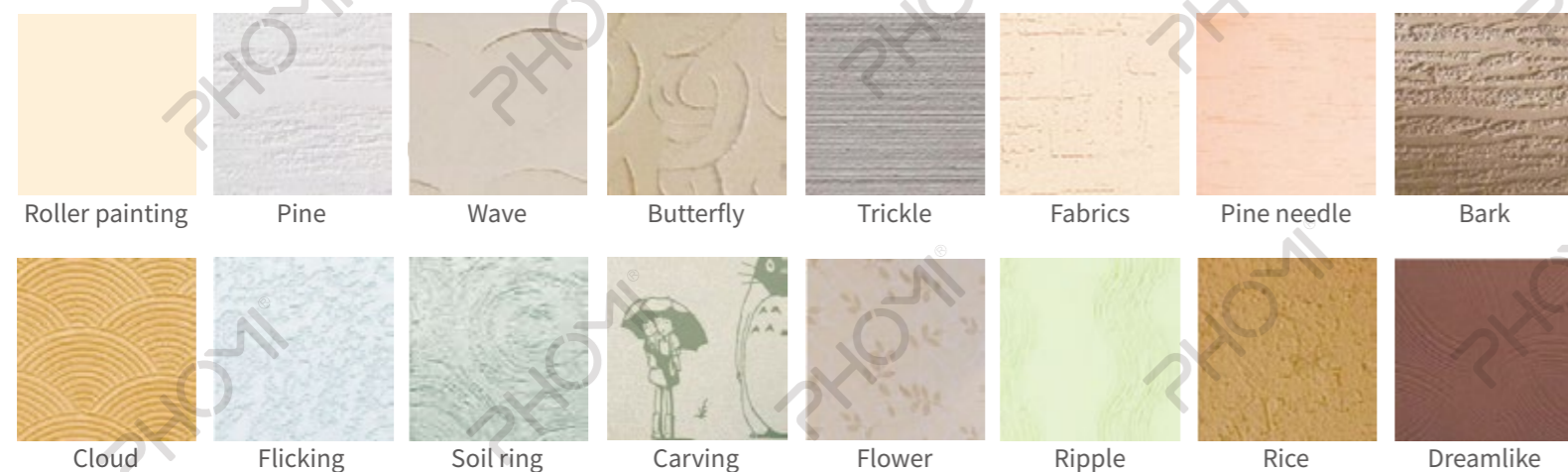
### REFERENCE PROPORTION

- Roller painting: mix with water to make into a fluid state with the ratio of power and water of 1:1-1.2
- Flicking painting: mix with water to form a pasty state, with the ratio of power and water of 1:0.8
- Manual texture (fine/medium/coarse sand), with the ratio of power and water of 1:0.5

### Notes

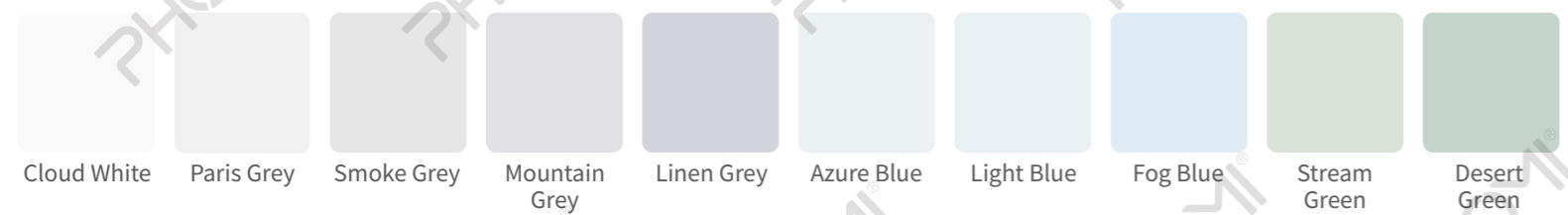
- Do not mix with other building materials;
- Pay attention to waterproof and moisture-proof during storage, and avoid placing it directly in a humid environment;
- Do not eat this product, and avoid getting into eyes;
- Keep a safe distance from children.

Eco-Mud Paint Texture Effect

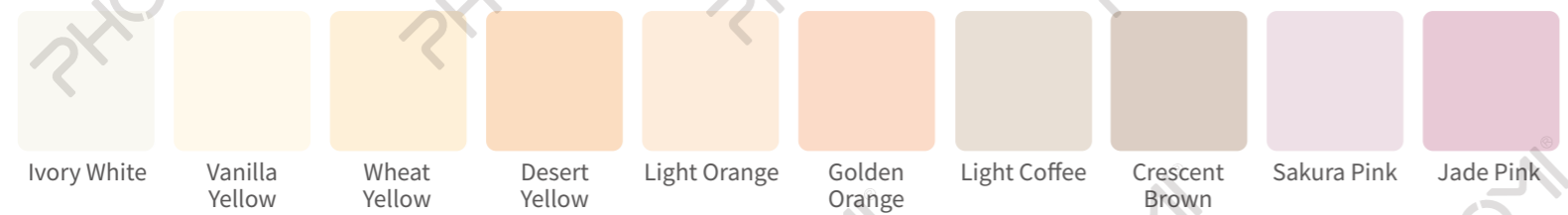


Eco-Mud Paint Colors

Quiet & Elegant



Quiet & Elegant



Happy Childhood



Fragrant



# economic clay Material Sports Flooring

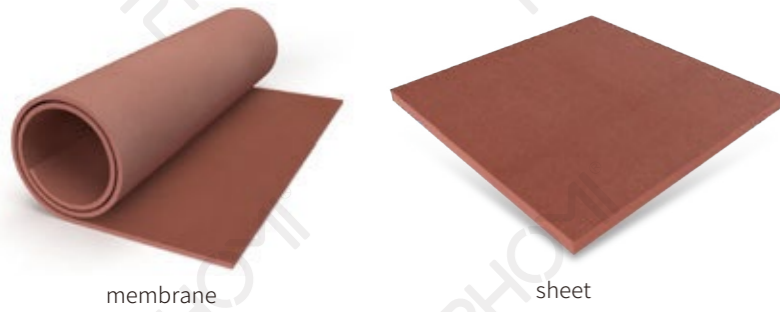
(runways, walkways, multi-purpose floors)

**durable, non-toxic,  
odourless and renewable**

**econic clay Elastic Materials**  
**Prefabricated / cast-in-place**  
**runways, walkways, multi-purpose floors**

This is a double-layer integrated structure of econic clay composite prefabricated or cast-in-place runway, walkway, multi-purpose membrane or sheet. It has excellent performance that tensile strength, elongation at break, ageing resistant, non-discoloured, spike resistant, abrasion resistant and stretch resistant. The product is not only durable but will help to increase human speed to unprecedented levels. It is eco-friendly while meeting the various physical performance indicators of sports fields.

**Prefabricated**



	product size	thickness
membrane	15-20m x 1.22m	5mm / 8mm / 13mm
sheet	600 x 600 mm / 1200 x 1200 mm	5mm / 8mm / 13mm

**cast-in-place**



**Color**

HB02	O02
HB03	O03
HB04	O04
G03	R02
GB01	R03
B03	R04

Note: The texture and colour of the surface can be customized according to the econic clay material colour card.

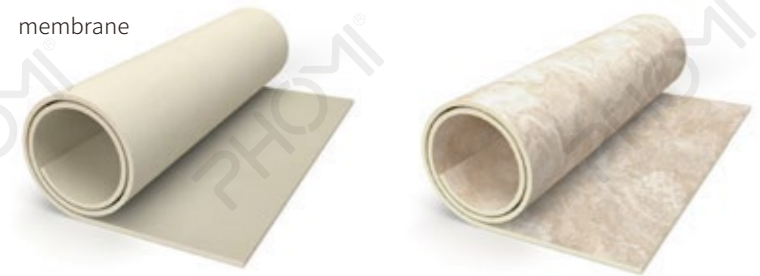


econic clay Elastic Materials  
Elastic flooring for bathrooms

**Comfortable footing and superb slip resistance**

It has a variety of textures such as leather, wood and stone, and available in sheet or membrane, and also has a comfortable, blanket-like feel to the feet.

membrane



sheet



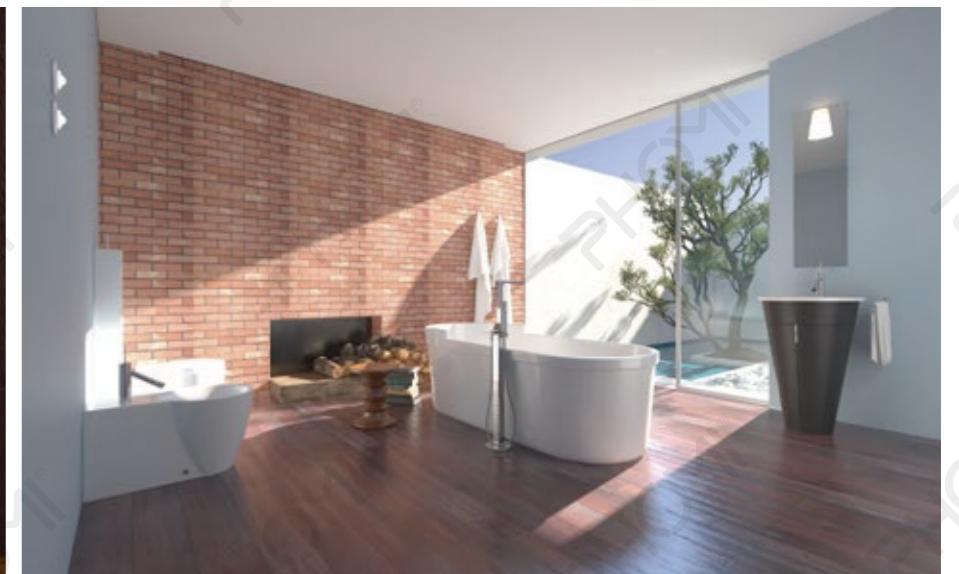
	product size	thickness
membrane	3-6m x 1.22m	3mm / 6mm
sheet	1200x1200 / 1200x600 / 600x600 / 600x300 / 300x300 mm	3mm / 6mm

Note: The texture and colour of the surface can be customized according to the econic clay material colour card.



**Comfortable footing  
and superb slip resistance**

Application



## Performance Comparison Between Econic Clay Material and Traditional Building Decorative Materials

No./ Performance	Econic Clay Material	Ceramic Slab	Wall Cloth	Natural Stone	Coating				Wood Veneer		PVC Panel		
					Emulsion Paint	Diatom Mud	Mud Paint	Inorganic painting	Wood Veneer	Artificial Wood Veneer			
1	<b>Fire Sately</b>	A Class	A Class	C Class	A Class	C Class	A Class	A Class	B Class	C Class	C Class	B Class	
2	<b>Environmental Friendliness</b>	<b>Application</b>	Excellent, UL certificate	Good, Environmental Labeling	Depends on quality. VOCs are typically above safe figures level	Depends on quality. Some varieties are radioactive	Poor VOCs are typically above safe figures level	Good No VOC release	Good No VOC release	Depends on quality	Depends on quality	Poor VOCs are typically above safe figures level	Depends on quality. VOCs are typically above safe figures level
		<b>Production process</b>	3R* principles matched Low Energy Consumption Zero Emission Zero Pollution Renewable	Fails to match 3R* principles High Energy Consumption High Emission High Pollution Non-renewable	Depends on quality	Fails to match 3R* principles High Energy Consumption High Emission High Pollution Non-renewable	Depends on quality	Fails to match 3R* principles Destroy Nature Non-renewable	3R* principles matched Low Energy Consumption Zero Emission Zero Pollution	Depends on quality	Fails to match 3R* principles Destroy Nature Non-renewable	Fails to match 3R* principles High Energy Consumption High Emission Non-renewable	Fails to match 3R principles High Energy Consumption Non-renewable
3	<b>Moisture Absorption and Dampproof capacity</b>	Excellent in moisture proofing. Keeps structure dry in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	Excellent in moisture proofing. Keeps structure dry in wet conditions	Excellent in moisture proofing. Keeps structure dry in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	Non-moisture proof Condensation in wet conditions	
4	<b>Moldproof</b>	Good	Good	Poor	Good	Poor	Varies in quality	Good	Varies in quality	Poor	Good	Good	
5	<b>Breathability</b>	Excellent	Poor	Poor	Excellent	Poor	Excellent	Excellent	Good	Excellent	Poor	Poor	
6	<b>Air-cleaning capacity</b>	Able to absorb and decompose formaldehyde and odor due to its catalytic UV feature.	Unable to absorb formaldehyde. Some are able to decompose formaldehyde on the surface	No	No	No	Able to absorb and decompose formaldehyde and odor	Able to absorb and decompose formaldehyde and odor	No	No	No	No	
7	<b>Durability</b>	Durable No edge lifting Fastness Moldproof No emptying swell**	Durable No edge lifting Fastness Emptying swell**	Not durable, remains shape for 1-2 years Color fading Easy to mildew	Durable No edge lifting Fastness Emptying swell**	Not durable Fades fast, especially dark colors Easy to mildew	Not durable No peeling Softening with water Powdering	Durable No peeling Fastness Moldproof Remains hard effected by water	Durable Fastness Moldproof Remains hard effected by water	Not durable Easy to mildew	Not durable Easy to deform Edge lifting Color shading	Durable No edge lifting Moldproof No emptying swell	
8	<b>Salt Spray Resistance</b>	Good	Good	Good	Good	Poor	Poor	Good	Good	Poor	Poor	Good	
9	<b>Application/construction method complexity</b>	Simple, No anchoring required	Complex	Simple	Complex	Simple	Complex	Situation Depends	Complex	Simple	Simple	Simple	

\* 3R principles refer to reducing, reusing and recycling.

\*\* Emptying Swell refers to an effect caused by a high air pressure created in the cavity under the low/none-air permeable cladding that causes its detachment from the surface.



## Econic Clay Material have passed the inspection and certification of these international authorities

1. UL: American Conference of Governmental Industrial
2. EU CE certification and Class A fireproof certification
3. Russia (GoST) standard certification
4. Polish Conference of Governmental Industrial
5. TPAT Customs-Trade Partnership
6. 2014/90/EU MED 96/98/ECe 2014/
7. Czech Republic fire safety A Class
8. Russia fire safety A Class
9. Malaysia fire safety A class
10. Singapore Greenable Green certification
11. Korea Green Building Material certification
12. UNIEN ISO 14021: Products contain at least 40 percent recyclable material before consumption
13. China certification and Class A fireproof certification
14. UNIEN ISO9001 National Quality Management System certification
15. China National Safety Standardization Production Certificate
16. China National Occupational Safety and Health Management System Administration
17. CCEP(China Certification for Environmental Products)
18. China 3-star Greenable Green certification

