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Material science
that shapes
the future

econic clay Material

PHOMI HOLDING

econic clay
coverings

# econic clay Material

PHOMI HOLDING

## PHOMI Factory Real View Photos











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econic clay

# 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.




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## 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 econic clay Material Construction Material System Advantages

**PHOMI econic 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 econic clay material technology, adobe molding technology, 3D-TECH manufacturing technology, forming a unique technology matrix of environmental protection econic 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:**
Econic 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 econic clay materials system products, the comprehensive cost savings can be more than 30% compared to the traditional constitution materials supply chain for each procurement.




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# 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 econic 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.



econic clay coverings

# Catalogue

## Classification by shape



**1 Sheet Material**

Fireproof Class A2

Regular size (mm)

2400x1200

1200x800



**2 Membrane Material**

Fireproof Class A2

Regular size (mm)

1200x6000/6600/10000

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)

1200x800x25
600x800x25
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)

2700/3080×1220×6.5/9/11/25
1200×600×6.5/9/11/25

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

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# Long-lasting formaldehyde removal and antibacterial function









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） Ⅰ级 | 标准要求（表1） Ⅱ级 | 检验结果 | 单项结论 | 检验依据 |
|---|---|---|---|---|---|---|---|
| 2 | 抗加菌性能 | 金黄色葡萄球菌（%） | ≥99 | ≥90 | 100 | 符合（Ⅰ） | HG/T 3950-2007（2017）6.4 |
| | | 大肠埃希氏菌（%） | | | 100 | 符合（Ⅰ） | |

| 序号 | 检验项目 | | 标准要求（表2） Ⅰ级 | 标准要求（表2） Ⅱ级 | 检验结果 | 单项结论 | 检验依据 |
|---|---|---|---|---|---|---|---|
| 3 | 抗霉菌性能（级） | 黑曲霉、土曲霉、绳状青霉、球毛壳霉、出芽短梗霉、绿毛壳 | 0 | 1 | 0 | 1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，印盖板镜（放大50倍）下观察未见生长；
1级　极述生长，即用眼可见生长，但生长覆盖面积小于10%；
2级　生长覆盖面积不小于10%。

本报告结束

检验单位地址：北京市朝阳区管庄中国建材院南楼　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 Ⅰ类材料 | 检测结果 | 单项结论 | 检测依据 |
|---|---|---|---|---|---|
| 18. | 甲醛净化性能 | ≥75% | 92.6% | 符合 | JC/T 1074-2008 |
| 19. | 甲醛净化效果持久性 | | 88.8% | 符合 | JC/T 1074-2008 |

（以下空白）

备注：
1、实验用试样尺寸 1m²；密封舱容积：1m³。
2、1m² 涂刷样品质量：0.5kg。
3、实验条件：温度（20±2）℃，相对湿度（50±10）% RH。
4、样品经日光模拟老材料（不开灯，24h）检测。
5、检测地点：管庄。

本报告结束

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

More test reports available on request

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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 $CO_2$. 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.

## 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)



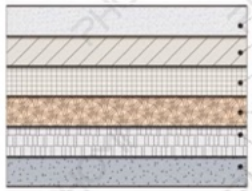
Home / Bathroom spaces (Walls, Floors and Surfaces)

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.

Product Structure



6.Abrasion and stain resistant layer 0.2mm
5.Finishes layer 2mm
4.Anti-cracking layer 0.5mm
3.Graphene heating layer 0.5mm
2.Thermal insulation layer 1-3mm
1.Adhesive layer

Application



Living



Bathroom



Meeting room

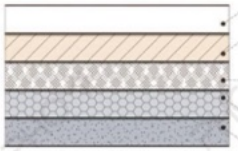
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econic clay

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



5.Anti-stain layer 0.2mm
4.Finishes layer 1mm
3.Anti-cracking layer 0.3mm
2.Thermal insulation layer 2-5mm
1.Adhesive layer

Application



Ultra-thin internal insulation + fireproofing + decoration in one



Ultra-thin external insulation + fireproofing + decoration in one

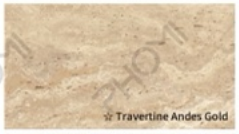

PHOMI
econic clay
Material technology
Integration of 3D-TECH
Traditional stone industry
transformation
econic clay Material
Stone Series
(Regular & Function)

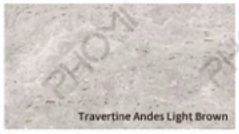
PHOMI®

## Travertine Series


☆ Travertine Andes White


☆ Travertine Andes Yellow


☆ Travertine Andes Gold


Travertine Andes Light Brown


☆ Travertine Andes Red


☆ Travertine Andes Grey

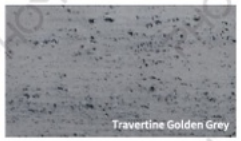

☆ Travertine Cloud White


Travertine Cloud Yellow


☆ Travertine Cloud Grey


Travertine Cloud Orange


☆ Travertine White Gold


Travertine Golden Grey



## Travertine Series

unit: mm

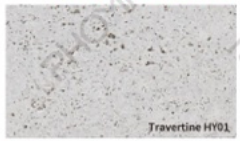
| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 3(±0.5) | 1220 x 626 x 75 | 14 | 10.08 | 52~55KG | 10 | 100.8 | 1300 x 690 x 1000 |
| 1200 x 1200 | | | | | | | | |
| 2400 x 1200 | | 2420 x 1230 x 14 | 4 | 11.52 | 53~58KG | 10 | 115.2 | 2500 x 1300 x 360 |



econic clay coverings

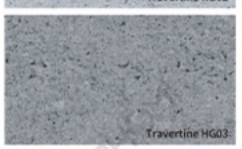
## Travertine Series

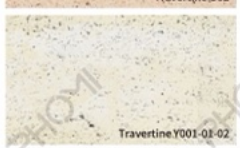

Travertine H001

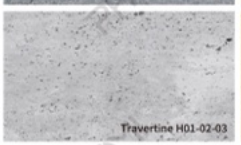

Travertine HY01

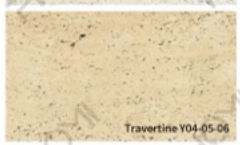

Travertine HB02

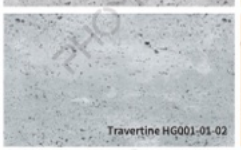

Travertine O02


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









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Material science that shapes the future.

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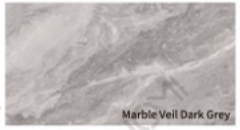
## Marble Series


☆ Marble Veil White


Marble Veil Yellow


☆ Marble Veil Grey


Marble Veil Gold


Marble Veil Dark Grey


Marble Veil Red


☆ Marble Mount Lion White


☆ Marble Mount Lion Yellow


Marble Mount Lion Warm Grey


Marble Mount Lion Reddish Brown


Marble Mount Lion Cool Grey


Marble Mount Lion Dark Brown



## Marble Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/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

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/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 |

econic clay coverings



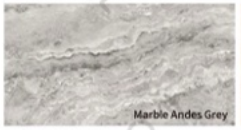
## Marble Series


☆ Marble Andes White


☆ Marble Andes Yellow


Marble Andes Light Brown


☆ Marble Andes Gold


Marble Andes Grey


Marble Andes Red


☆ Marble Cloud White


Marble Cloud Yellow


☆ Marble Cloud Grey


Marble Cloud Orange

Standard Sample
200x200mm

See standard color chart
for more colors



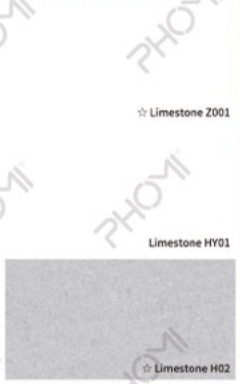




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## Limestone Series


☆ Limestone Z001

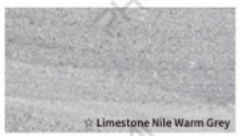

Limestone Y01


Limestone HY01

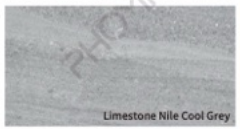

Limestone R01


☆ Limestone H02

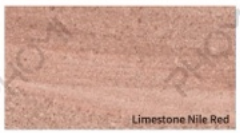

Limestone O01


☆ Limestone Nile Warm Grey


☆ Limestone Nile Light Yellow


Limestone Nile Cool Grey


Limestone Nile Medium Yellow


Limestone Nile Red



## Limestone Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 2.5 (±0.5) | 1220 x 628 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 |

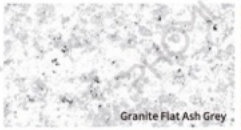


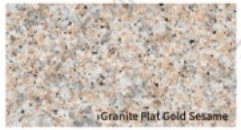
## Granite Flat Series

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/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 |

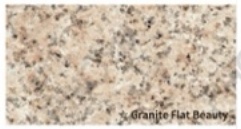
econic clay coverings

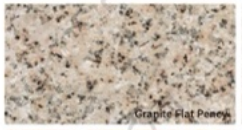
## Granite Flat Series

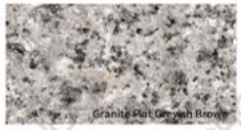

Granite Flat Ash Grey


Granite Flat Gold Sesame

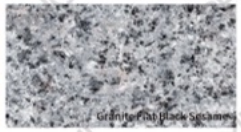

☆ Granite Flat White Sesame

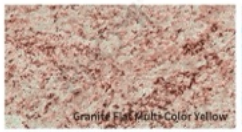

Granite Flat Beauty


Granite Flat Peney

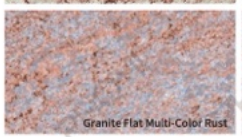

Granite Flat Green Brown


Granite Flat Snow Flake Red


Granite Flat Black Sesame


Granite Flat Multi-Color Yellow


Granite Flat Multi-Color Blue


Granite Flat Multi-Color Rust


Granite Flat Multi-Color Red







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## Polished Stone Series


Polished Stone Spainish White

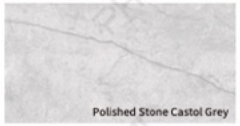

☆ Polished Stone Spainish Beige


☆ Polished Stone Spainish Light Grey


☆ Polished Stone Spainish Light Yellow

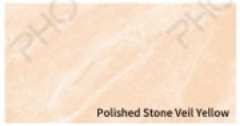

☆ Polished Stone Castol White


Polished Stone Castol Yellow


Polished Stone Castol Grey


Polished Stone Castol Blue


☆ Polished Stone Veil White


Polished Stone Veil Yellow


Polished Stone Veil Dark Brown


Polished Stone Veil Gold



## Polished Stone Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 2.5 (±0.5) | 1220 x 628 x 75 | 20 | 14.4 | 57~58KG | 10 | 144 | 1300 x 690 x 1000 |
| 1200 x 1200 | | | | | | | | |

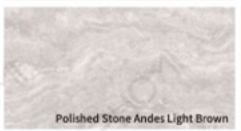




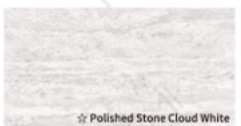
## Polished Stone Series


☆ Polished Stone Andes White


Polished Stone Andes Yellow


Polished Stone Andes Light Brown

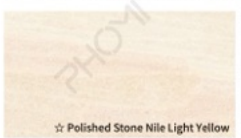

Polished Stone Andes Gold

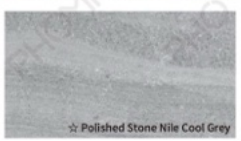

☆ Polished Stone Cloud White


Polished Stone Cloud Yellow


Polished Stone Cloud Grey


☆ Polished Stone Cloud Orange


☆ Polished Stone Nile Light Yellow


☆ Polished Stone Nile Cool Grey

Standard Sample
200x200mm

See standard color chart
for more colors









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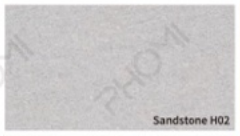
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## Sandstone Series


☆ Sandstone HY001


☆ Sandstone O01


Sandstone H02


Sandstone Y04


☆ Sandstone HY02


Sandstone O03








☆ Sandstone Australia Yellow





Standard Sample
200x200mm

See standard color chart
for more colors



## Sandstone Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 2.5 (±0.5) | 1220 x 628 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 |

econic clay
coverings

## Sandstone Series







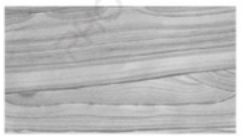

☆ Sandstone Australia Orange

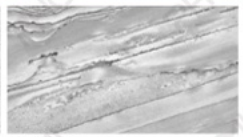


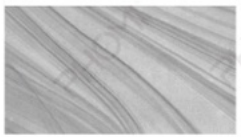


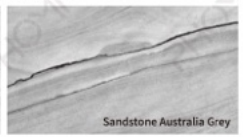



Sandstone Australia Red








Sandstone Australia Grey







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## Oman Linear Stone Series


Oman Linear Stone Nile Light Yellow


Oman Linear Stone Nile Warm Grey


Oman Linear Stone Nile Medium Yellow


Oman Linear Stone Nile Cool Grey


☆ Oman Linear Stone Nile Red


☆ Oman Linear Stone Nile Dark Grey


☆ Oman Linear Stone Andes White


Oman Linear Stone Andes Yellow

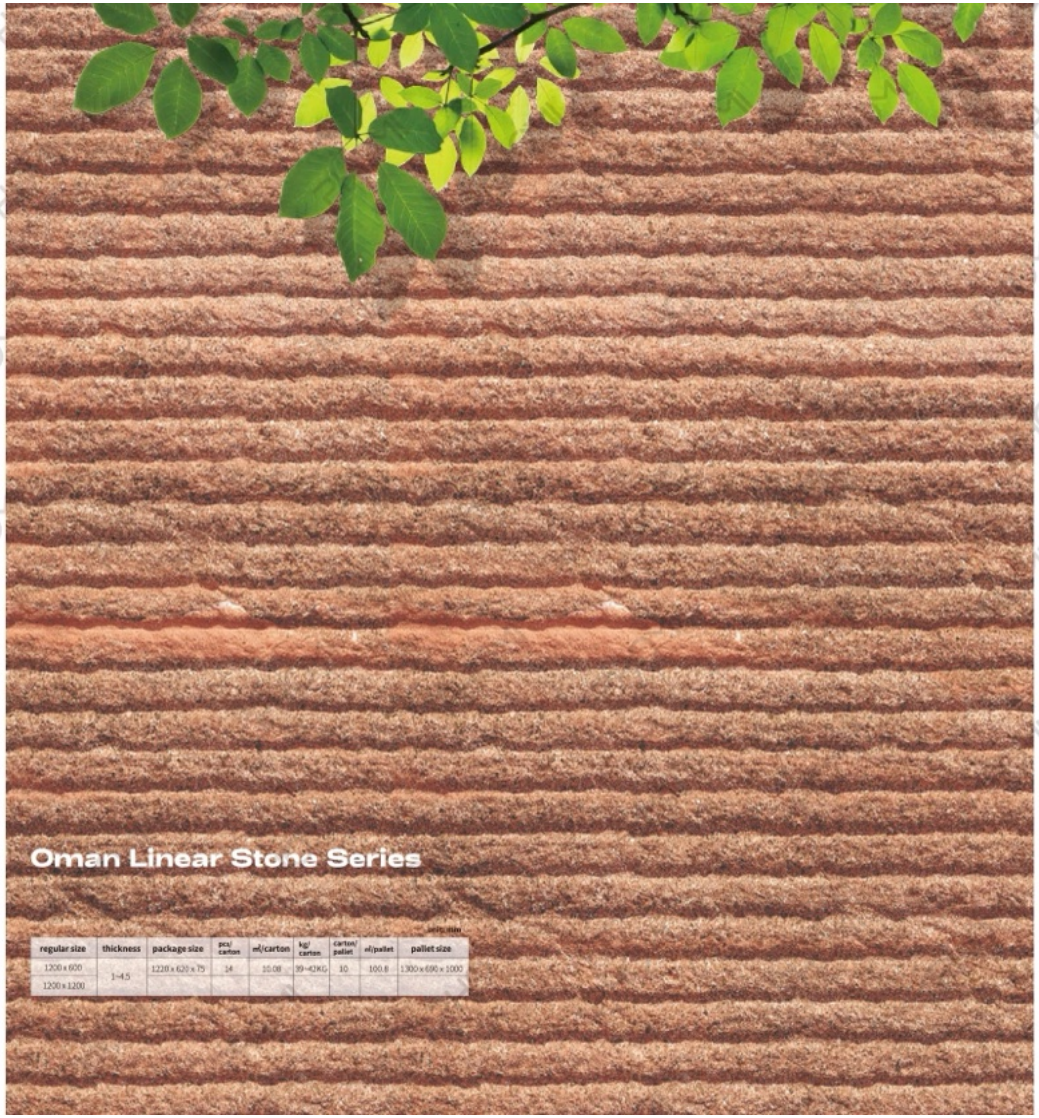

Oman Linear Stone Andes Gold


☆ Oman Linear Stone Andes Light Brown


Oman Linear Stone Andes Red


Oman Linear Stone Andes Grey





## Oman Linear Stone Series

| regular size | thickness | package size | pcs/carton | ㎡/carton | kg/carton | carton/pallet | ㎡/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 1~4.5 | 1220 x 620 x 75 | 14 | 10.08 | 39~42KG | 10 | 100.8 | 1300 x 600 x 1000 |
| 1200 x 1200 | | | | | | | | |

unit: mm



## Oman Linear Stone Series


☆ Oman Linear Stone Ash Grey


☆ Oman Linear Stone Gold Sesame


Oman Linear Stone White Sesame


Oman Linear Stone Beauty


Oman Linear Stone Pency


Oman Linear Stone Greyish Brown

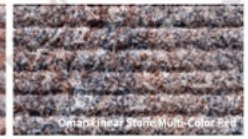

Oman Linear Stone Snow Flake Red


Oman Linear Stone Black Sesame


Oman Linear Stone Multi-Color Yellow


Oman Linear Stone Multi-Color Blue


Oman Linear Stone Multi-Color Rust


Oman Linear Stone Multi-Color Grey



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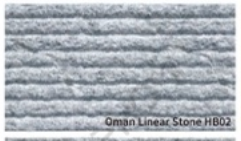
## Oman Linear Stone Series


☆ Oman Linear Stone HY001


Oman Linear Stone O01


☆ Oman Linear Stone H02


Oman Linear Stone Y03


Oman Linear Stone HB02


Oman Linear Stone Y04


Oman Linear Stone HG03


Oman Linear Stone Z03


Oman Linear Stone H04


Oman Linear Stone HY03





Standard Sample
200x200mm

See standard color chart
for more colors





## Oman Linear Stone Series

unit: mm

| regular size | thickness | package size | pcs/carton | m²/carton | kg/carton | carton/pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 1~4.5 | 1220 x 628 x 75 | 14 | 10.08 | 39+42KG | 20 | 100.8 | 1300 x 630 x 1000 |
| 1200 x 1200 | | | | | | | | |



## Oman Linear Stone Series








☆ Oman Linear Stone Australia Orange



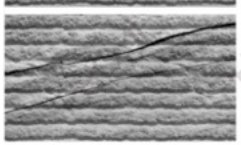





☆ Oman Linear Stone Australia Red








☆ Oman Linear Stone Australia Grey





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## Stone Ridged Series


☆ Stone Ridged Cloud White


☆ Stone Ridged Cloud Yellow

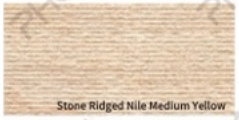

Stone Ridged Cloud Grey


Stone Ridged Cloud Orange


Stone Ridged Nile Warm Grey


Stone Ridged Nile Light Brown


Stone Ridged Nile Cool Grey


Stone Ridged Nile Medium Yellow

☆ Stone Ridged Nile Dark Grey


☆ Stone Ridged Nile Red





Standard Sample
200x200mm

See standard color chart
for more colors





## Stone Ridged Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 3 (±1) | 1220 x 620 x 75 | 14 | 10.8 | 39~42KG | 10 | 100.8 | 1300 x 630 x 1000 |
| 1200 x 1200 | | | | | | | | |
| 2400 x 1200 | | 2420 x 1230 x 14 | 4 | 11.52 | 53~58KG | 10 | 115.2 | 2500 x 1300 x 1000 |

econic clay
coverings



## Stone Ridged Series


Stone Ridged Ash Grey


Stone Ridged Gold Sesame


☆ Stone Ridged White Sesame

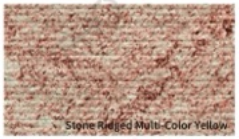

Stone Ridged Beauty

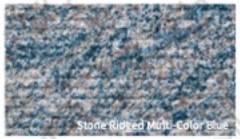

Stone Ridged Pency

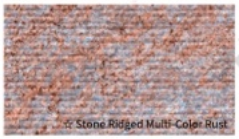

Stone Ridged Greyish Brown

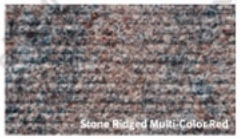

Stone Ridged Snow Flake Red


Stone Ridged Black Sesame


Stone Ridged Multi-Color Yellow


Stone Ridged Multi-Color Blue


☆ Stone Ridged Multi-Color Rust

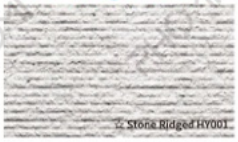

Stone Ridged Multi-Color Red



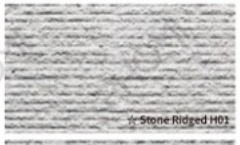
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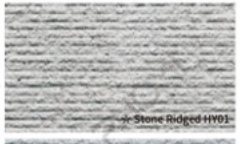
## Stone Ridged Series

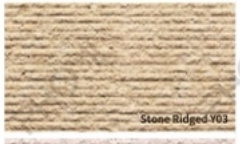

☆ Stone Ridged HY001

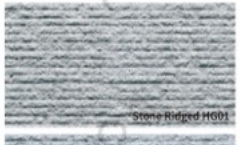

Stone Ridged Y01

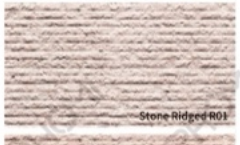

☆ Stone Ridged H01


Stone Ridged O01


☆ Stone Ridged HY01


Stone Ridged Y03


Stone Ridged HG01


Stone Ridged R01


Stone Ridged HB02


Stone Ridged R03


Stone Ridged GB01


Stone Ridged Z01





## Stone Ridged Series

unit: mm

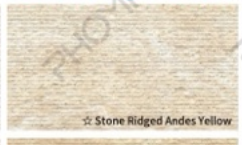
| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 3 (±1) | 1220 x 620 x 75 | 14 | 10.8 | 39-42KG | 10 | 100.8 | 1300 x 690 x 1000 |
| 1200 x 1200 | | | | | | | | |
| 2400 x 1200 | | 2420 x 1230 x 14 | 4 | 11.52 | 55-58KG | 10 | 115.2 | 2500 x 1300 x 350 |

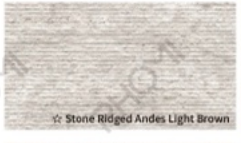
econic clay coverings



## Stone Ridged Series


☆ Stone Ridged Andes White


☆ Stone Ridged Andes Yellow

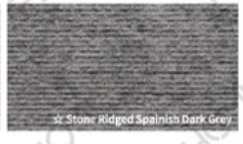

☆ Stone Ridged Andes Light Brown


Stone Ridged Andes Gold


Stone Ridged Spainish Yellow


Stone Ridged Spainish Beige


Stone Ridged Spainish Light Brown


☆ Stone Ridged Spainish Dark Grey

Standard Sample
200x200mm

See standard color chart
for more colors







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## Chiseled Stone Series


☆ Chiseled Stone Andes White


Chiseled Stone Andes Yellow


Chiseled Stone Andes Light Brown


☆ Chiseled Stone Andes Gold


☆ Chiseled Stone Cloud White


Chiseled Stone Cloud Yellow


Chiseled Stone Cloud Grey


☆ Chiseled Stone Cloud Orange


☆ Chiseled Stone Spainish Beige


Chiseled Stone Spainish Yellow


Chiseled Stone Spainish Light Brown


☆ Chiseled Stone Spainish Light Grey





## Chiseled Stone Series

| regular size | thickness | package size | pcs/ carton | ㎡/carton | kg/ carton | carton/ pallet | ㎡/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200×600 | 1-4.5 | 1220×620×75 | 7 | 5.04 | 19-42KG | 10 | 50.4 | 1300×1000×1000 |
| 1200×1200 | | | | | | | | |
| 2400×1200 | | | | | | | | |

econic clay coverings

Chiseled Stone Series


Chiseled Stone Ash Grey

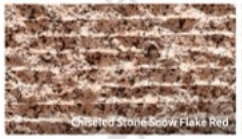

Chiseled Stone Gold Sesame


☆ Chiseled Stone White Sesame


Chiseled Stone Beauty


Chiseled Stone Pency


Chiseled Stone Greyish Brown

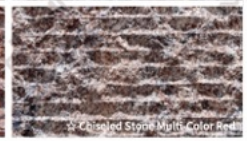

Chiseled Stone Snow Flake Red


☆ Chiseled Stone Black Sesame


Chiseled Stone Multi-Color Yellow


☆ Chiseled Stone Multi-Color Blue


Chiseled Stone Multi-Color Rust


☆ Chiseled Stone Multi-Color Red



STONE SERIES

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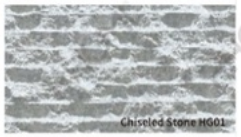
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## Chiseled Stone Series

























Standard Sample
200x200mm

See standard color chart
for more colors






unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/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

















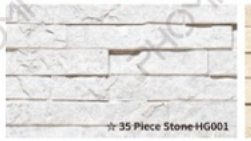





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## 35 Piece Stone Series


☆ 35 Piece Stone HG001


35 Piece Stone Y01


35 Piece Stone H01


35 Piece Stone Y03


35 Piece Stone HG01


35 Piece Stone O02


35 Piece Stone HY02


35 Piece Stone Q03


35 Piece Stone HG03


35 Piece Stone R03


☆ 35 Piece Stone H03


35 Piece Stone F02






| regular size | thickness | package size | pcs/ carton | ㎡/carton | kg/ carton | carton/ pallet | ㎡/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200×600 | 1~5 natural unevenness | | | | | | | |



## 35 Piece Stone Series


35 Piece Stone Ash Grey


35 Piece Stone Gold Sesame


35 Piece Stone White Sesame


35 Piece Stone Beauty


35 Piece Stone Pency


35 Piece Stone Greyish Brown


35 Piece Stone Snow Flake Red


35 Piece Stone Black Sesame


35 Piece Stone Multi-Color Yellow


35 Piece Stone Multi-Color Blue


☆ 35 Piece Stone Multi-Color Rust


35 Piece Stone Multi Color Red

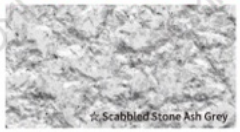




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## Scabbled Stone Series











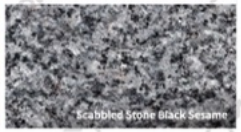






























| regular size | thickness | package size | pcs/ carton | ㎡/carton | kg/ carton | carton/ pallet | ㎡/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 900 x 600 | 1.4 | | | | | | | |
| 1380 x 600 | | | | | | | | |

| regular size | thickness | package size | pcs/ carton | ㎡/carton | kg/ carton | carton/ pallet | ㎡/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 900 x 600 | 2.0 (±0.5) | | | | | | | |
| 1380 x 600 | | | | | | | | |

econic clay coverings

## Bush Hammered Series

















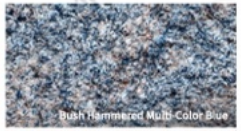


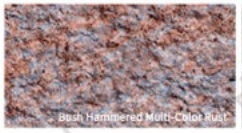


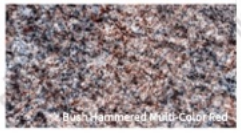






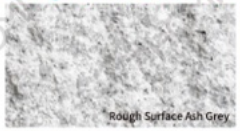



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## Rough Surface Series


Rough Surface Ash Grey


Rough Surface Gold Sesame


☆ Rough Surface White Sesame


☆ Rough Surface Beauty


Rough Surface Pency

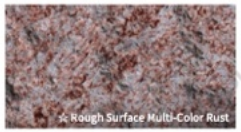

Rough Surface Greyish Brown


Rough Surface Snow Flake Red


Rough Surface Black Sesame


Rough Surface Multi-Color Yellow


☆ Rough Surface Multi-Color Blue


☆ Rough Surface Multi-Color Rust


Rough Surface Multi-Color Red





## Rough Surface Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/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 | m²/carton | kg/ carton | carton/ pallet | m²/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 | | | | | | | | |

econic clay coverings

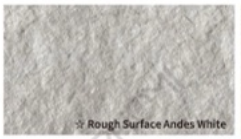
## Rough Surface Series


☆ Rough Surface Veil White

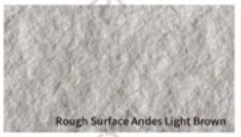

☆ Rough Surface Veil Gold


Rough Surface Veil Light Grey

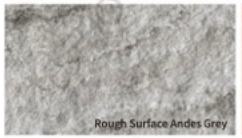

Rough Surface Veil Dark Grey


☆ Rough Surface Andes White


Rough Surface Andes Yellow


Rough Surface Andes Light Brown


Rough Surface Andes Gold


Rough Surface Andes Grey


☆ Rough Surface Andes Red

Standard Sample
200x200mm

See standard color chart for more colors





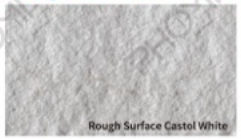


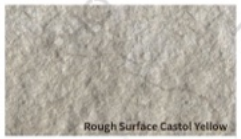


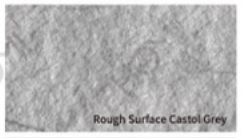
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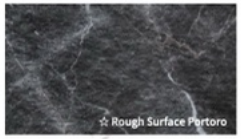
## Rough Surface Series

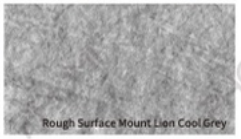

Rough Surface Castol White


Rough Surface Castol Yellow


Rough Surface Castol Grey


☆ Rough Surface Castol Blue


☆ Rough Surface Portoro


Rough Surface Mount Lion Cool Grey


Rough Surface Nile Warm Grey


Rough Surface Nile Light Brown


Rough Surface Nile Cool Grey


Rough Surface Nile Medium Yellow


☆ Rough Surface Nile Dark Grey


☆ Rough Surface Nile Red



## Rough Surface Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 3~4 | 1220 x 620 x 75 | 10 | 7.2 | 51~52KG | 10 | 72 | 1300 x 690 x 1000 |
| 1200 x 1200 | | | | | | | | |
| 2400 x 1200 | | | | | | | | |







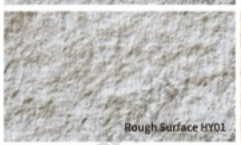
## Rough Surface Series


☆ Rough Surface HY001


Rough Surface Y01


Rough Surface H02


Rough Surface O01


Rough Surface HY01


Rough Surface Y03


Rough Surface HB02


Rough Surface R03


Rough Surface HB03


Rough Surface HG02


☆ Rough Surface HG03


Rough Surface F02



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## Infiniti Series


Infiniti Ash Grey


☆ Infiniti Gold Sesame


Infiniti White Sesame


Infiniti Beauty


Infiniti Peony


Infiniti Greyish Brown


Infiniti Snow Flake Red


Infiniti Black Sesame


Infiniti Multi-Color Yellow


Infiniti Multi-Color Blue


☆ Infiniti Multi-Color Rust


Infiniti Multi-Color Red





## Infiniti Series

unit: mm

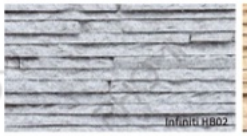
| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 300 | 6~8 natural unevenness | | | | | | | |
| 1200 x 600 | | | | | | | | |

econic clay coverings

## Infiniti Series


☆ Infiniti HY001


Infiniti 001


Infiniti HB02

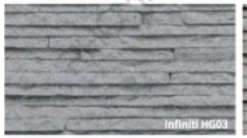

Infiniti Y03

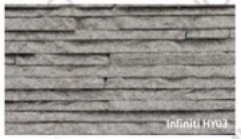

Infiniti H02


Infiniti Y04


☆ Infiniti H03


Infiniti Z03


Infiniti HG03


Infiniti HY03





Standard Sample
200x200mm

See standard color chart
for more colors





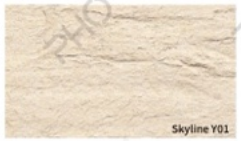
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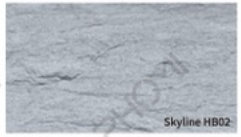
## Skyline Series


☆ Skyline HY001

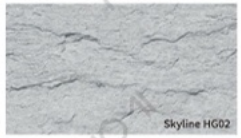

Skyline Y01


Skyline HY01

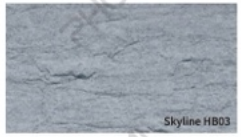

Skyline O01

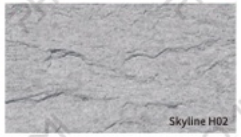

Skyline HB02

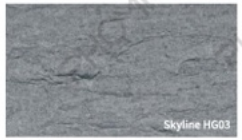

Skyline Y03

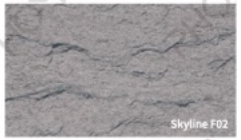

Skyline HG02


Skyline R03


Skyline HB03


Skyline H02


Skyline HG03


Skyline F02





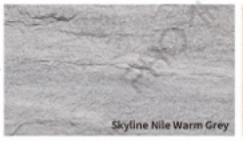
## Skyline Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | ㎡/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 | | | | | | | | |



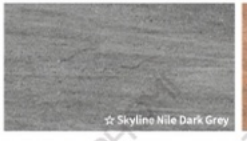
## Skyline Series


Skyline Nile Warm Grey

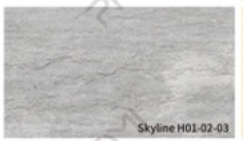

☆ Skyline Nile Light Yellow


Skyline Nile Cool Grey


Skyline Nile Medium Yellow

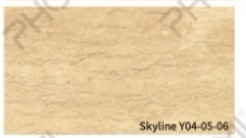

☆ Skyline Nile Dark Grey

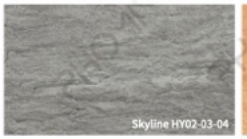

☆ Skyline Nile Red


Skyline H01-02-03


☆ Skyline Y001-01-02


Skyline HG001-01-02


Skyline Y04-05-06


Skyline HY02-03-04


☆ Skyline O02-03-04





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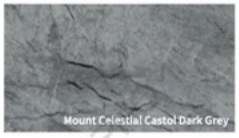
## Mount Celestial Series

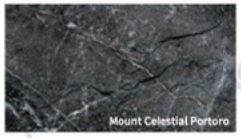

☆ Mount Celestial Castol White


Mount Celestial Castol Yellow


Mount Celestial Castol Grey


☆ Mount Celestial Castol Blue


Mount Celestial Castol Dark Grey


Mount Celestial Portoro



## Mount Celestial Series



## Mount Celestial Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/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 | | | | | | | | |



econic clay coverings



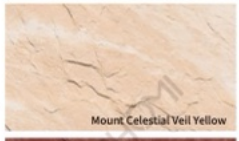
## Mount Celestial Series


☆ Mount Celestial Veil White


Mount Celestial Mount Lion Warm Grey


Mount Celestial Veil Grey


☆ Mount Celestial Mount Lion Cool Grey


Mount Celestial Veil Yellow


Mount Celestial Mount Lion Yellow


☆ Mount Celestial Veil Red


Mount Celestial Mount Lion Reddish Brown


☆ Mount Celestial Veil Dark Grey


Mount Celestial Mount Lion Dark Brown

Standard Sample
200x200mm

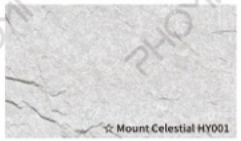
See standard color chart
for more colors





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## Mount Celestial Series











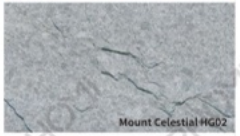








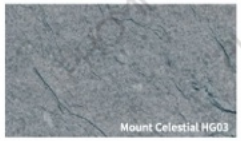



















unit:mm

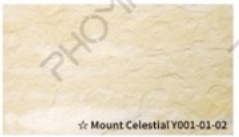
| regular size | thickness | package size | pcs/ carton | ㎡/carton | kg/ carton | carton/ pallet | ㎡/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 1~3 natural unevenness | 1220 x 620 x 75 | 18 | 12.96 | 52KG | 10 | 129.6 | 1250 x 650 x 1000 |
| 1200 x 1200 | | | | | | | | |
| 2400 x 1200 | | | | | | | | |

Mount Celestial Series

econic clay coverings

Mount Celestial Series

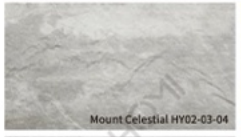




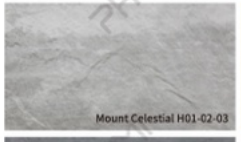




















Standard Sample
200x200mm

See standard color chart for more colors






PHOMI
econic clay
CONCRETE SERIES
Reducing cement usage,
contributing to carbon neutrality
econic clay Material
Polish Concrete Wall
(Regular & Function)
CONCRETE SERIES

## Polish Concrete Wall Series


Polish Concrete Wall HY001-01-02


Polish Concrete Wall HB02-03-04


Polish Concrete Wall O001-01-02

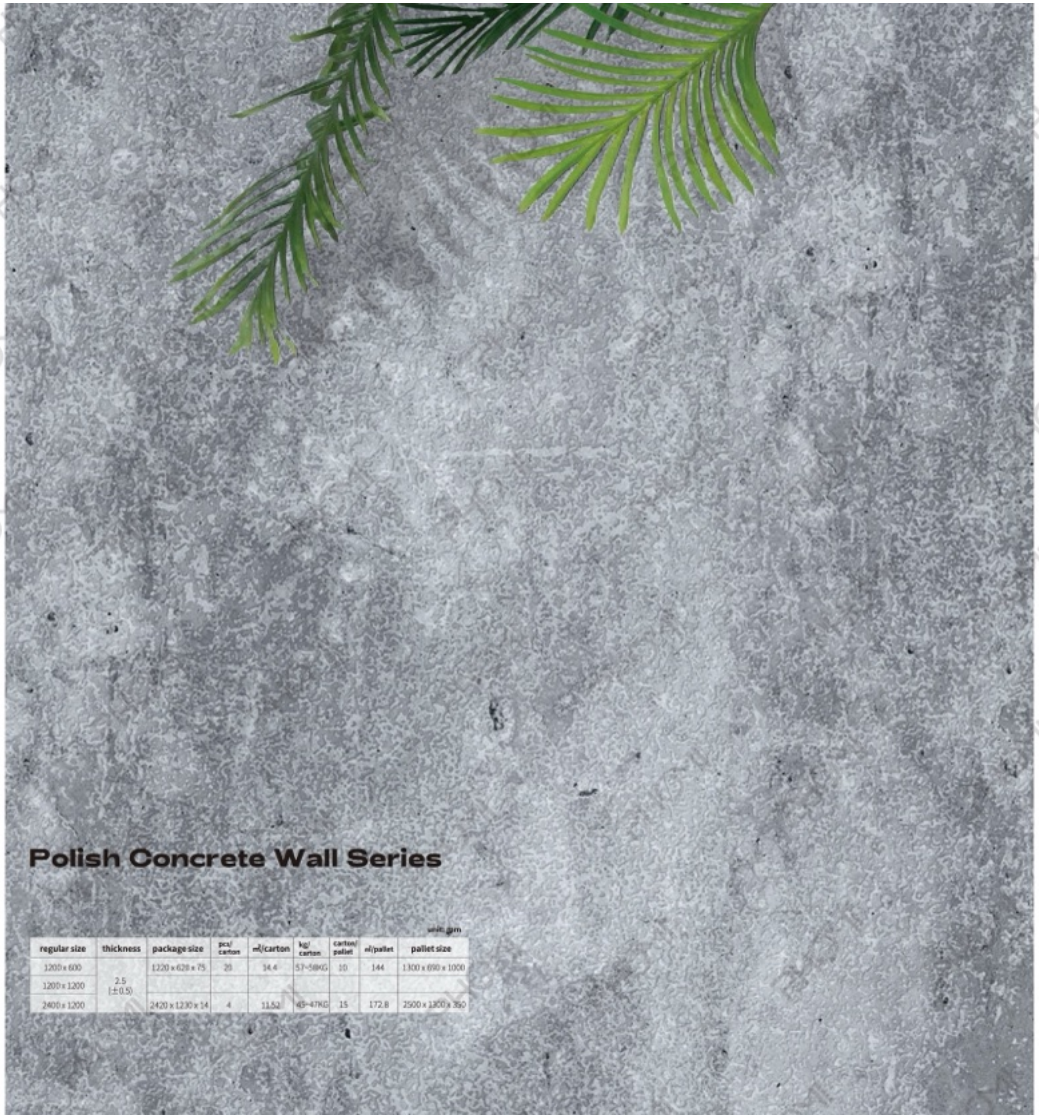

Polish Concrete Wall HG02-03-04


☆ Polish Concrete Wall O04-05-06


Polish Concrete Wall H04-05-06



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## Polish Concrete Wall Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 2.5 (±0.5) | 1220 x 628 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 |





## Polish Concrete Wall Series


Polish Concrete Wall Great Desert


Polish Concrete Wall Greyish Desert


☆ Polish Concrete Wall Cloud


Polish Concrete Wall Fog


☆ Polish Concrete Wall Medium Grey


Polish Concrete Wall Dark Brown

Standard Sample
200x200mm

See standard color chart for more colors







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# Rammed Earth Wall Series

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 2.5 (±1) | 1220 x 620 x 75 | 20 | 144 | 40~48KG | 10 | 144 | 1300 x 670 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 |

econic clay coverings

## Rammed Earth Wall Series


☆ Rammed Earth Wall HY001


Rammed Earth Wall Y02


Rammed Earth Wall Light Grey


Rammed Earth Wall Yellow


☆ Rammed Earth Wall Medium Grey


☆ Rammed Earth Wall Red

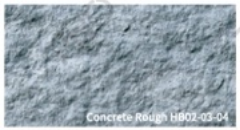

Rammed Earth Wall Yellow Grey


Rammed Earth Wall Brownish Red


Standard Sample
600x300mm

## Concrete Rough Series


Concrete Rough HY001-01-02


Concrete Rough HB02-03-04


Concrete Rough O001-01-02


Concrete Rough HG02-03-04


Concrete Rough O04-05-06


Concrete Rough H04-05-06


Concrete Rough Great Desert


Concrete Rough Greyish Desert


☆ Concrete Rough Cloud


Concrete Rough Fog


Concrete Rough Medium Grey

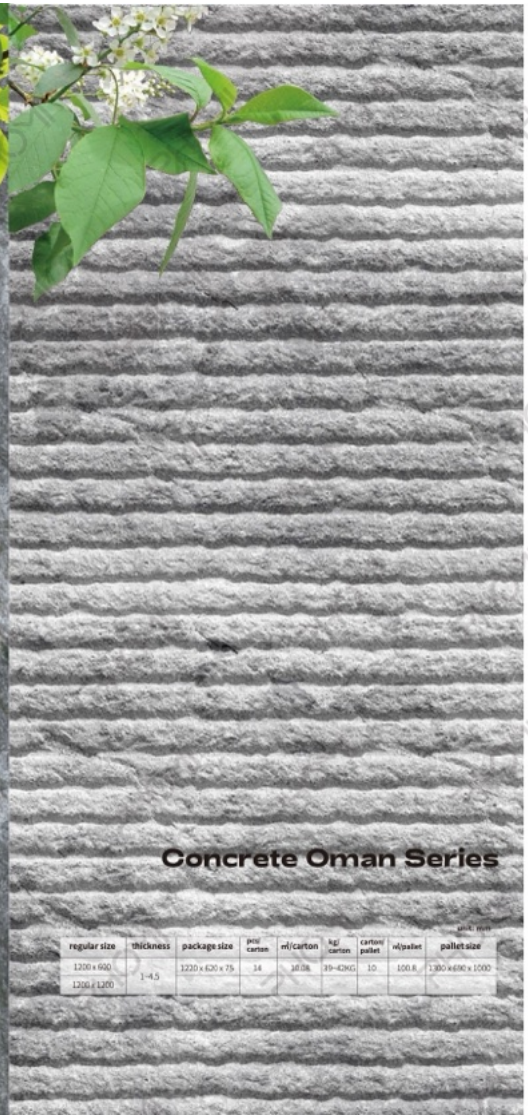

☆ Concrete Rough Dark Brown



## Concrete Rough Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 1~4 | 1220 x 628 x 75 | 10 | 7.2 | 51~52KG | 10 | 72 | 1300 x 630 x 1000 |
| 1200 x 1200 | | | | | | | | |
| 2400 x 1200 | | | | | | | | |



## Concrete Oman Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/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


Concrete Oman HY001-01-02


Concrete Oman HB02-03-04


Concrete Oman O001-01-02


Concrete Oman HG02-03-04


Concrete Oman O04-05-06


Concrete Oman H04-05-06


Concrete Oman Great Desert


Concrete Oman Greyish Desert


☆ Concrete Oman Cloud


Concrete Oman Fog


Concrete Oman Medium Grey


☆ Concrete Oman Dark Brown

PHOMI
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# Reducing Deforestation, Saving Earth's Ozone Layer

# econic clay Material
# Wood Series

(Regular & Function)

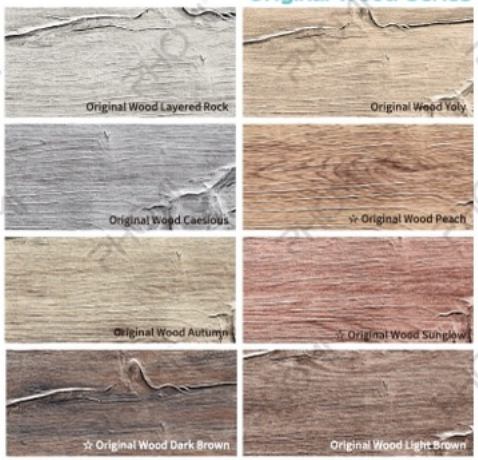


## Original Wood Series

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1350 x 300 | 2.5 (±0.5) | | | | | | | |
| 2700 x 300 | | | | | | | | |
| 2700 x 1200 | | | | | | | | |



## Original Wood Series




Standard Sample
200x200mm

See standard color chart for more colors







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## Ridged Wood Series



































Standard Sample
200x200mm

See standard color chart
for more colors






| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/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 | | | | | | | | |




| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 3-4.5 | 1220 x 620 x 75 | 14 | 10.08 | 39-42KG | 10 | 100.8 | 1300 x 690 x 1000 |
| 1200 x 1200 | | | | | | | | |

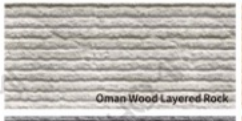


## Oman Wood Series































Standard Sample
200x200mm

See standard color chart
for more colors









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## Poly Wood Series


Poly Wood Moonlight


Poly Wood Yoly


Poly Wood Peach


Poly Wood Orange


Poly Wood Caesious


☆ Poly Wood Sunglow


☆ Poly Wood Autumn


Poly Wood Light Brown


☆ Poly Wood Brownish Yellow


☆ Poly Wood Dark Brown





Standard Sample
200x200mm

See standard color chart
for more colors



Material science that shapes the future.



## Poly Wood Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/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 | | | | | | | | |



## Scabbled Wood Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 900 x 600 | 2.5 (±0.5) | | | | | | | |
| 1380 x 620 | | | | | | | | |

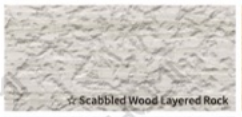




## Scabbled Wood Series


Scabbled Wood Moonlight


Scabbled Wood Yoly


☆ Scabbled Wood Layered Rock

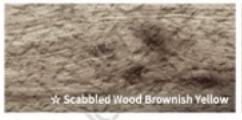

Scabbled Wood Peach


Scabbled Wood Caesious


Scabbled Wood Sunglow


Scabbled Wood Autumn


Scabbled Wood Light Brown


☆ Scabbled Wood Brownish Yellow


☆ Scabbled Wood Dark Brown

Standard Sample
200x200mm

See standard color chart
for more colors







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WEAVING SERIES

# Material technology, integration of ethnic customs

## econic clay Material
# Weaving Series

(Regular & Function)



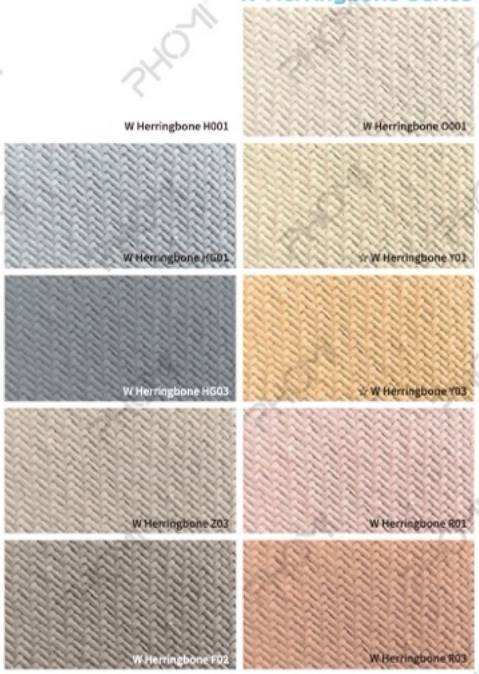
## W Herringbone Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600 | 9(±0.5) | 1220 x 620 x 75 | 16 | ≈ 11.62 | 40~48KG | 10 | 115.2 | 1300 x 600 x 1000 |
| 1200 x 1200 | | | | | | | | |

econic clay
coverings

## W Herringbone Series




Standard Sample
200x200mm

See standard color chart for more colors





WEAVING SERIES

Material science that shapes the future.

## Ocean Flower Weaving Series








Standard Sample
200x200mm

See standard color chart
for more colors





## Ocean Flower Weaving Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 1200 x 600<br>1200 x 1200 | 3(±0.5) | 1220 x 620 x 75 | 16 | 11.52 | 40~48KG | 10 | 115.2 | 1300 x 690 x 1000 |



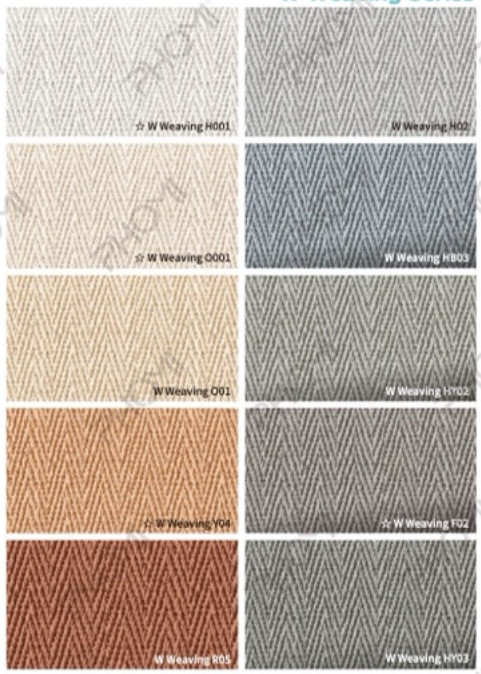
## W Weaving Series

unit: mm

| regular size | thickness | package size | pcs/ carton | m²/carton | kg/ carton | carton/ pallet | m²/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 670 x 600<br>1350 x 600<br>1350 x 1200<br>2700 x 1200 | 1-4 | | | | | | | |



## W Weaving Series




Standard Sample
200x200mm

See standard color chart
for more colors









PHOMI


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The luxury of leather,
the elegance of earth
econic clay Material
Leather Series
(Regular & Function)
LEATHER SERIES
LEATHER SERIES

PHOMI®

## Croco Leather Series



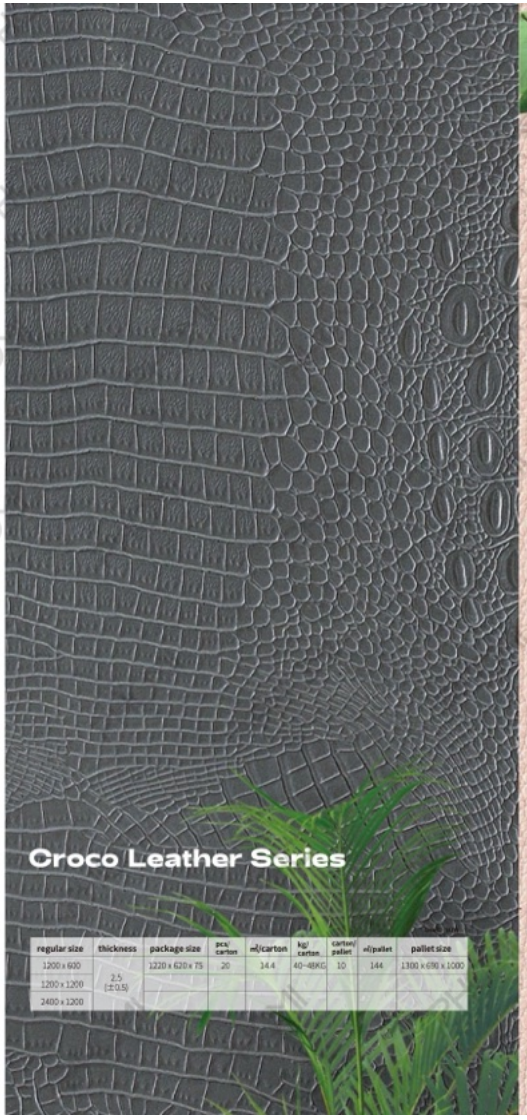



Standard Sample
200x200mm

See standard color chart
for more colors



Material science that shapes the future.




| regular size | thickness | package size | pcs/ carton | ㎡/carton | kg/ carton | carton/ pallet | ㎡/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

| regular size | thickness | package size | pcs/ carton | ㎡/carton | kg/ carton | carton/ pallet | ㎡/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 | | | | | | | | |

econic clay
coverings

## Fine Cowhide Series






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econic clay
Collection the
global facing brick varieties,
the achievement of brick and
tile construction for a lifetime
econic clay Material
Facing Brick Series
(Regular & Function)
BRICK SERIES
BRICK SERIES

PHOMI®

## 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 | m²/carton | kg/ carton | carton/ pallet | m²/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 | m²/carton | kg/ carton | carton/ pallet | m²/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 |

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coverings

## A Facing Brick Series



















Corner Brick
Customize


Piece Sample 240x60mm


Standard Sample 430x387mm

PHOMI®

## K Facing Brick Series

















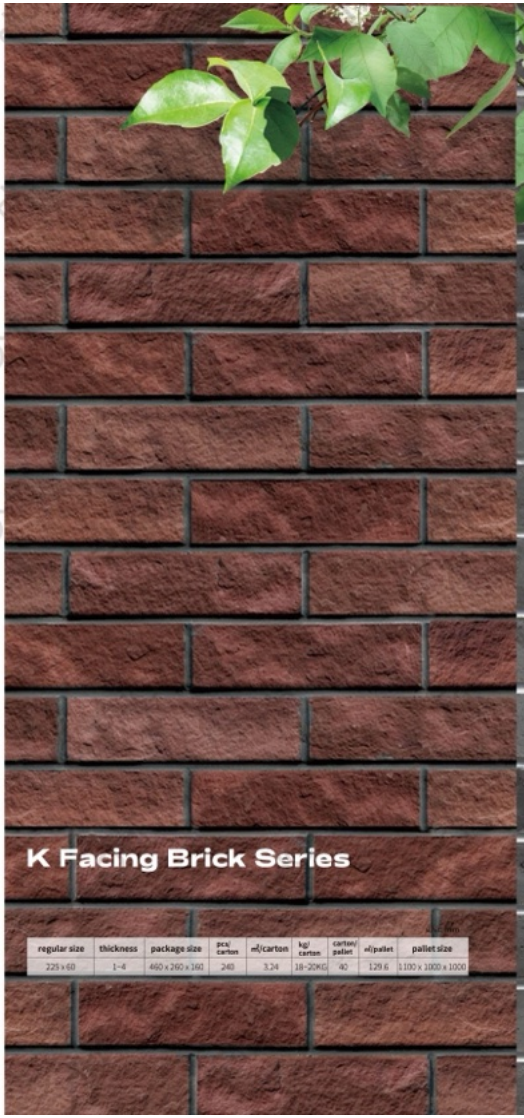


Corner Brick
Customize


Standard Sample 430x387mm

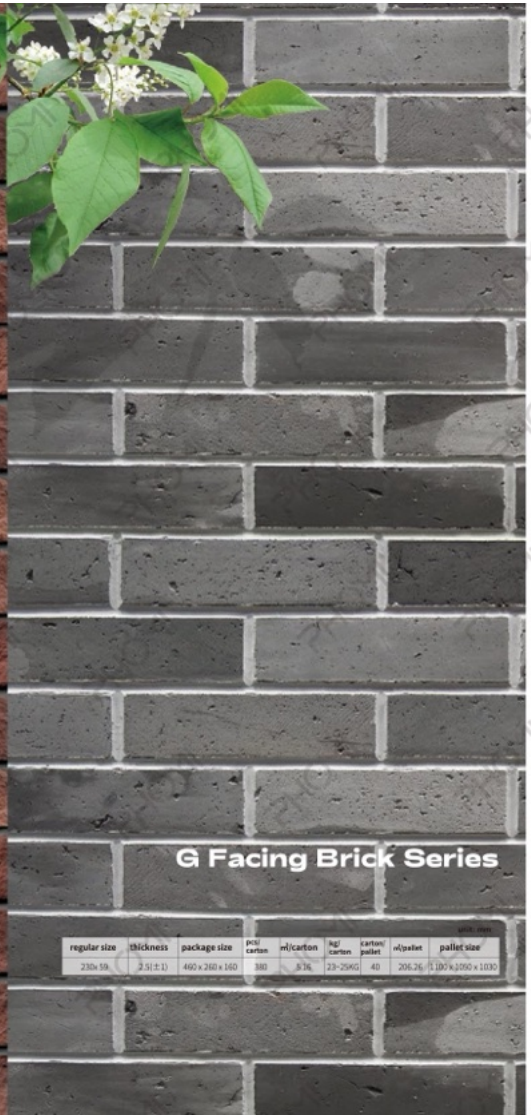

Piece Sample 225x60mm






unit: mm

| regular size | thickness | package size | pcs/ carton | ㎡/carton | kg/ carton | carton/ pallet | ㎡/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 225×60 | 1~4 | 460 x 260 x 160 | 240 | 3.24 | 18~20KG | 40 | 129.6 | 1100 x 1000 x 1000 |




unit: mm

| regular size | thickness | package size | pcs/ carton | ㎡/carton | kg/ carton | carton/ pallet | ㎡/pallet | pallet size |
|---|---|---|---|---|---|---|---|---|
| 230x 59 | 2.5(±1) | 460 x 260 x 160 | 380 | 5.16 | 23~25KG | 40 | 206.26 | 1100 x 1050 x 1030 |

econic clay
coverings

## G Facing Brick Series













Corner Brick
Customize


Piece Sample 230x59mm


Standard Sample 430x387mm



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BRICK SERIES

# Econic Clay Material Construction Material System
## Accessories Series

### Special Adhesive



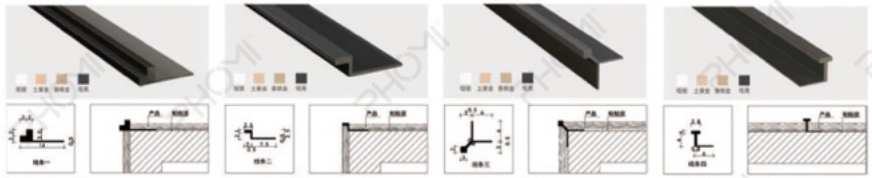

Two-component adhesive (for external and Interior walls)

### 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





PHOMI®

econic clay Material

# Coatings




COATINGS

COATINGS

# 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 CO2. 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%







COATINGS

CBC®

# WATER-BASED 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**

1. This product is suitable for indoor concrete, lime, masonry and gypsum board walls.
2. New wall:
1) The wall must be sufficiently dry (base layer moisture content <10%).
2) Remove surface dust, repair gaps or wall defects, and ensure that the wall is flat and free of unevenness and cracks.
3. Repaint a wall:
1) Remove all the unstable paint film and loose floating material with a spatula, grind the wall flat, clean and dry thoroughly.
2) 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.
4. 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**

1. During construction, the paint should be stirred well and evenly, and construction gap should be tightly covered barrel cover to prevent crust;
2. Short-hair roller is recommended in roller painting, and apply twice (subject to the base cover);
3. When using an airless sprayer, it is recommended to apply twice (subject to the base cover);
4. 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**

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





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, titanium dioxide, and calcium carbonate, etc.

**INSTRUCTIONS**

1. 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);
2. Add the powder eco-mud paint to the mixing container slowly in proportion (see the reference proportion);
3. 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;
4. After mixing, the construction can be carried out according to different modeling processes, and the first time is taken as the first coat;
5. After 70% to 80% dry, a second thick coat for modeling;
6. 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**

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

**Notes**

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




COATINGS

## Eco-Mud Paint Texture Effect

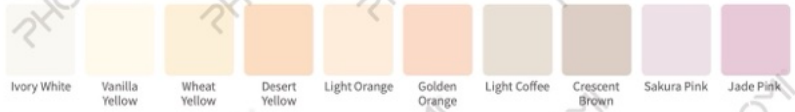



## Eco-Mud Paint Colors

### Quiet & Elegant




### Quiet & Elegant




### Happy Childhood




### Fragrant














PHOMI®

econic clay Material

# Sports Flooring

(runways, walkways, multi-purpose floors)




SPORTS FLOORING

SPORTS FLOORING

PHOMI®

## 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



membrane



sheet

| | 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



Water-based silicone emulsions

+



environmental elastic particles

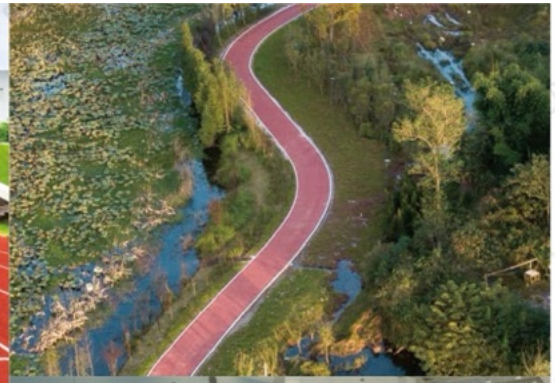
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econic clay coverings

### Color




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

PHOMI®

## 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.










## 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 | Fire Sately | | A Class | A Class | C Class | A Class | C Class | A Class | A Class | B Class | C Class | C Class | B Class |
| 2 | Environmental Friendliness | Application | Excellent, UL certificate | Good, Environmental Labelling | 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 |
| | | Production process | 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 Noture Non-renewable | 3R* principles matched Low Energy Consumption Zero Emission Zero Pollution | Depends on quality | Fails to match 3R* principles Destroy Noture 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 | Moisture Absorption and Dampproof capacity | | 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 | Moldproof | | Good | Good | Poor | Good | Poor | Varies in quality | Good | Varies in quality | Poor | Good | Good |
| 5 | Breathability | | Excellent | Poor | Poor | Excellent | Poor | Excellent | Excellent | Good | Excellent | Poor | Poor |
| 6 | Air-cleaning capacity | | 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 | Durability | | 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 rots Easy to mildew | Not durable Easy to deform Edge lifting Color shading | Durable No edge lifting Moldproof No emptying swell |
| 8 | Salt Spray Resistance | | Good | Good | Good | Good | Poor | Poor | Good | Good | Poor | Poor | Good |
| 9 | Application/ construction method complexity | | 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.



PHOMI®

## 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 Greenlable 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 Greenlable Green certification