



**20MM**   
**OUTDOOR PORCELAIN**  

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**600X600MM / 600X900MM**

COMES *from* NATURAL RESOURCES



THE IDEAL SOLUTION *for* OUTDOOR LIVING



VARIETY *of* FORMATS

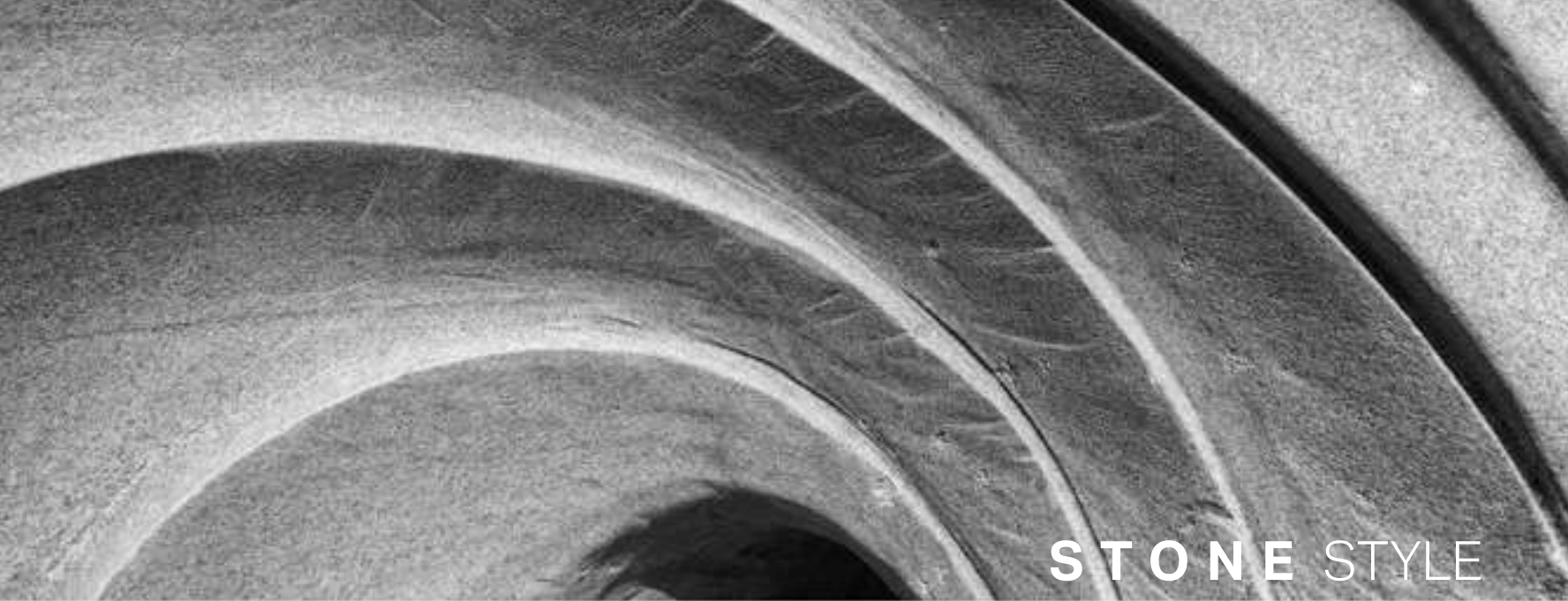
600 x  
600mm

600 x  
900mm

R11 

20MM  
OUTDOOR PORCELAIN

FULL  
COLOR BODY



# STONE STYLE

STYLE PIERRE | STIL STEIN | ESTILO PIEDRA



# CEMENT STYLE

FAÇON CIMENT  
ZEMENT-STIL  
ESTILO CEMENTO



# NATURAL

COLORS & TEXTURE

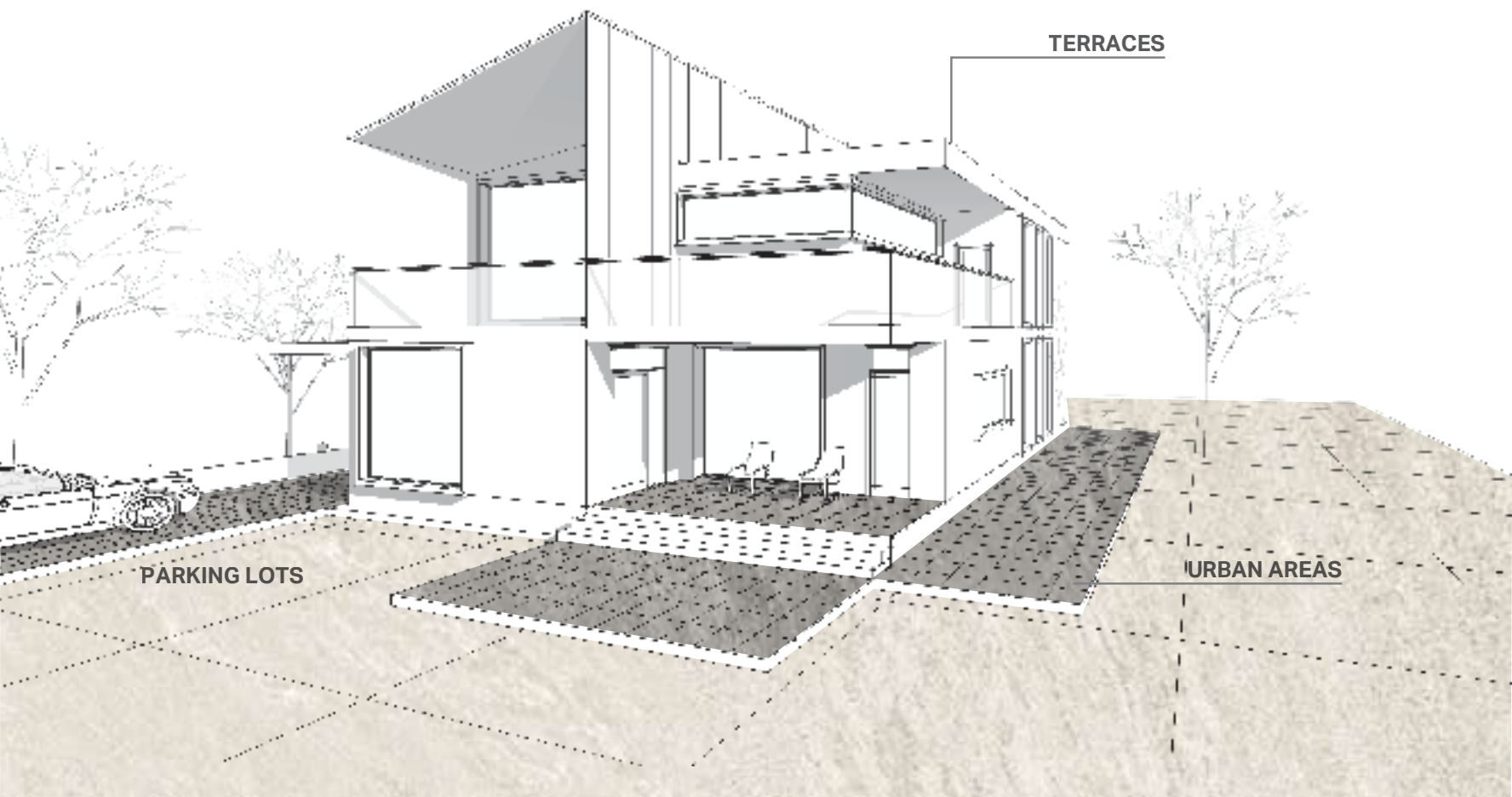


# INDIAN STONE STYLE




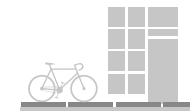


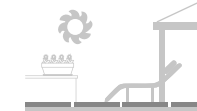

STYLE PIERRE INDIENNE  
INDISCHER STEINSTIL  
ESTILO DE PIEDRA INDIA














# APPLICATION *and* SOLUTIONS



RIOSTONE OUTDOOR PORCELAIN TILES USED IN VARIABLE OUR SURROUNDING AREAS.

 <p><b>GARDENS AND PUBLIC AREA</b> JARDINES Y ÁREA PÚBLICA JARDINS ET ESPACE PUBLIC</p>	 <p><b>INDUSTRIAL AREAS</b> AREAS INDUSTRIALES ZONES INDUSTRIELLES</p>	 <p><b>SEASIDE RESORTS</b> HOTELES COSTEROS STATIONS BALNÉAIRES</p>	 <p><b>URBAN AREAS</b> AREAS URBANAS ZONES URBAINES</p>
 <p><b>SIDEWALK AND PEDESTRIAN AREA</b> ACERA Y ZONA PEATONAL TROTTOIR ET ZONE PIÉTONNE</p>	 <p><b>PARKING LOTS</b> ESTACIONAMIENTOS PLACES DE PARKING</p>	 <p><b>TERRACES</b> GRADAS TERRASSES</p>	 <p><b>POOL SURROUNDING AREA</b> ÁREAS CIRCUNDANTES DE LA PISCINA ENVIRONS DE LA PISCINE</p>

# SYSTEM & SURFACES FEATURES

- |  |   |
|--|---|
|  <p><b>EASY TO INSTALL &amp; REMOVABLE</b><br/>FÁCIL DE INSTALAR Y EXTRAÍBLE<br/>FACILE À INSTALLER ET AMOVIBLE</p>   |  <p><b>EASY TO INSTALL</b><br/>FÁCIL DE INSTALAR<br/>FACILE À INSTALLER</p>                |
|  <p><b>HIGH MECHANICAL RESISTANCE</b><br/>ALTA RESISTENCIA MECÁNICA<br/>HAUTE RÉSISTANCE MÉCANIQUE</p>  |  <p><b>EASY TO CLEAN</b><br/>FÁCIL DE LIMPIAR<br/>FACILE À NETTOYER</p>                    |
|  <p><b>WEAR AND ABRASION RESISTANCE</b><br/>RESISTENCIA AL DESGASTE Y A LA ABRASIÓN<br/>RÉSISTANCE À L'USURE ET À L'ABRASION</p>  |  <p><b>FROST RESISTANCE</b><br/>RESISTENCIA A LAS HELADAS<br/>RÉSISTANCE AU GEL</p>      |
|  <p><b>RESISTANCE TO CHEMICALS</b><br/>RESISTENCIA A LOS PRODUCTOS QUÍMICOS<br/>RÉSISTANCE AUX PRODUITS CHIMIQUES</p>   |  <p><b>ANTI SLIP SURFACE</b><br/>SUPERFICIE ANTIDESLIZANTE<br/>SURFACE ANTIDÉRAPANTE</p> |
|  <p><b>COLOR RESISTANCE TO SUNLIGHT EXPOSURE</b><br/>RESISTENCIA DE COLOR A LA EXPOSICIÓN A LA LUZ SOLAR<br/>RÉSISTANCE DES COULEURS À L'EXPOSITION AU SOLEIL</p>           |  <p><b>STAIN RESISTANT</b><br/>RESISTENTE A LAS MANCHAS<br/>RÉSISTANT AUX TACHES</p>     |
|  <p><b>EXTREMELY HIGH RESISTANCE TO BREAKING LOAD</b><br/>RESISTENCIA EXTREMADAMENTE ALTA A LA CARGA DE ROTURA<br/>RÉSISTANCE EXTRÊMEMENT ÉLEVÉE À LA CHARGE DE RUPTURE</p> |   |

# LAYING *installations* SOLUTIONS



## 1. SAND LAYING SYSTEM

SISTEMA DE COLOCACIÓN DE ARENA  
SYSTÈME DE POSE DE SABLE

## 2. GRAVEL LAYING SYSTEM

SISTEMA DE COLOCACIÓN DE GRAVA  
SYSTÈME DE POSE DE GRAVIER

## 3. GRASS LAYING SYSTEM

SISTEMA DE COLOCACIÓN DE HIERBA  
SYSTÈME DE POSE D'HERBE

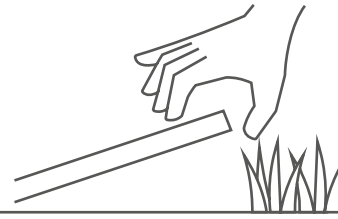
## 4. RAISED LAYING SYASTEM

SISTEMA DE COLOCACIÓN ELEVADA  
SYSTÈME DE POSE SURÉLEVÉ

## 5. TRADITIONAL LAYING SYSTEM

SISTEMA TRADICIONAL DE COLOCACIÓN  
SYSTÈME DE POSE TRADITIONNEL

# GRASS LAYING SYSTEM



R11



20MM  
OUTDOOR PORCELAIN

## SISTEMA DE COLOCACIÓN DE HIERBA SYSTÈME DE POSE DE L'HERBE

The stratigraphy considered is solely indicative of the various types of application: we recommend referring to local regulations in order to achieve a correct installation.

La estratigrafía considerada es únicamente indicativa de los distintos tipos de aplicación: recomendamos consultar las normativas locales para lograr una correcta instalación.

La stratigraphie considérée est uniquement indicative des différents types d'application : nous recommandons de se référer aux réglementations locales afin de réaliser une installation correcte.

## RECOMMENDED APPLICATIONS APLICACIONES RECOMENDADAS APPLICATIONS RECOMMANDÉES

- Private Gardens
- Patios
- Walk ways
- Outdoor paving for business and restaurant
- Street furnishing
- Public parks

- Jardín privado
- patios
- Pasarelas
- Pavimentos exteriores para negocio y restaurante
- Mobiliario urbano
- Parques públicos

- Jardin Privé
- Patios
- Passerelles
- Dallage extérieur pour les entreprises et les restaurant
- Mobilier urbain
- Parcs publics

## LA INSTALACIÓN SOBRE CÉSPED SE PUEDE REALIZAR DE DOS MANERAS

### (A) DIRECTO

- Coloque la baldosa sobre el césped dejando juntas de 4-5 cm de ancho para permitir que crezca el césped.
- El resultado será duradero pero la estabilidad estará sujeta al movimiento del suelo.

### (B) EN LA BASE DE GRAVA

- Retire la hierba en el área debajo de 20 mm
- EXCAVAR 5 cm de profundidad en climas cálidos y secos, o más profundo en climas fríos o húmedos
- Compactar el suelo
- Rellene el área excavada con grava (tamaño 4-8 mm) o compactela con arena.
- Coloque 20mm de Riostone Seco

## INSTALLATION ON GRASS CAN BE ACCOMPLISHED IN TWO WAYS

### (A) DIRECT

- Place the tile on grass leaving 4-5cm wide joints to allow the grass to grow.
- Result will be long lasting but stability will be subject to soil movement.

### (B) ON GRAVEL BASE

- Remove the Grass in the area underneath 20mm
- DIG 5CM deep in warm and dry climate, or deeper in cold or wet climate
- Compact the Soil
- Fill the excavated area with gravel (size 4-8mm) or sand compact it
- Lay 20mm Riostone Dry

## L'INSTALLATION SUR L'HERBE PEUT ÊTRE RÉALISÉE DE DEUX FAÇONS

### (A) DIRECTE

- Placez le carreau sur l'herbe en laissant des joints de 4 à 5 cm de large pour permettre à l'herbe de pousser.
- Le résultat sera durable mais la stabilité sera sujette au mouvement du sol.

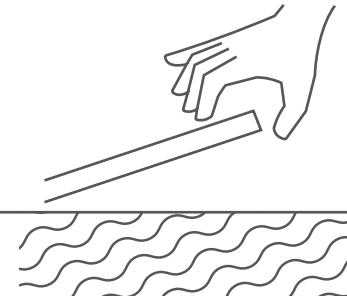
### (B) SUR UNE BASE DE GRAVIER

- Retirez l'herbe dans la zone sous 20 mm
- Creusez 5 cm de profondeur dans un climat chaud et sec, ou plus profondément dans un climat froid ou humide.
- Compactez le sol
- Remplissez la zone excavée avec du gravier (taille 4-8 mm) ou du sable compactez-la
- Poser 20 mm de Riostone à sec





# SAND LAYING SYSTEM



R11



20MM  
OUTDOOR PORCELAIN

## SISTEMA DE COLOCACIÓN DE ARENA SYSTÈME DE POSE DE SABLE

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La estratigrafía considerada es únicamente indicativa de los distintos tipos de aplicación: recomendamos consultar las normativas locales para lograr una correcta instalación.

La stratigraphie considérée est uniquement indicative des différents types d'application : nous recommandons de se référer aux réglementations locales afin de réaliser une installation correcte.

## RECOMMENDED APPLICATIONS APLICACIONES RECOMENDADAS APPLICATIONS RECOMMANDÉES

- Gardens
- Pedestrian access paths and walkways in beach Gardens.

- jardines
- Caminos de acceso peatonal y pasarelas en jardines de playa.

- Jardins
- Chemins d'accès piétons et passerelles dans les jardins de la plage.

## LA INSTALACIÓN EN ARENA SE PUEDE REALIZAR DE DOS FORMAS

### (A) DIRECTAMENTE

- Nivelar y compactar la arena.
- Lado en seco Rio Stone 20MM

### (B) EN EL SUSTRATO. PARA MEJORAR LA ESTABILIDAD EN EL TIEMPO

- Excavar 20 cm en el suelo arenoso.
- Posición y compacta piedra triturada o grava laver (Granulometría 4-8 mm)
- Añadir una capa de arena de 2 cm Dry lav Rio Stone 20MM.

## INSTALLATION ON SAND CAN BE DONE IN TWO WAYS

### (A) DIRECTLY

- Level and compact the sand
- Dry lay Rio Stone 20MM

### (B) ON SUBSTRATE, TO IMPROVE STABILITY OVERTIME

- Dig 20 cm into the sandy ground.
- Position and compacta crushed stone or gravel laver (Granulometry 4-8 mm)
- Add a 2 cm sand layer Dry lav Rio Stone 20MM.

## L'INSTALLATION SUR LE SABLE PEUT SE FAIRE DE DEUX FAÇONS

### (A) DIRECTEMENT

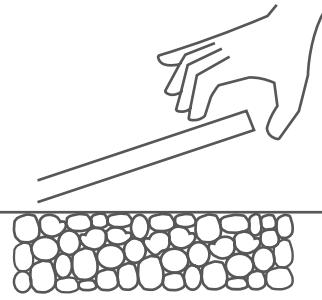
- Nivelar et compacter le sable
- Pose à sec Pierre de Rio 20MM

### (B) SUR LE SUBSTRAT, POUR AMÉLIORER LA STABILITÉ DURÉE

- Creusez 20 cm dans le sol sablonneux.
- Position et compacta pierre concassée ou cuve de gravier (Granulométrie 4-8 mm)
- Ajouter une couche de sable de 2 cm Dry lav Rio Stone 20MM.



# GRAVEL LAYING SYSTEM



R11



20MM  
OUTDOOR PORCELAIN

## SISTEMA DE COLOCACIÓN DE ARENA SYSTÈME DE POSE DE SABLE

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La stratigraphie considérée est uniquement indicative des différents types d'application : nous recommandons de se référer aux réglementations locales afin de réaliser une installation correcte.

## RECOMMENDED APPLICATIONS APLICACIONES RECOMENDADAS APPLICATIONS RECOMMANDÉES

- Private Gardens
- Terraces
- Balconies
- Patios
- Outdoor paving for Businesses and restaurants
- Pedestrian Walkways
- Street furnishing
- Public parks
- Jardines Privados
- Gradas
- Balcones
- patios
- Pavimentos exteriores para Negocios y restauración
- Pasarelas peatonales
- Mobiliario urbano
- Parques públicos

- Jardins privés
- Terrasses
- Balcons
- Patios
- Pavage extérieur pour les entreprises et les restaurants
- Passerelles piétonnes
- Mobilier urbain
- Parcs publics

## HOW TO INSTALL

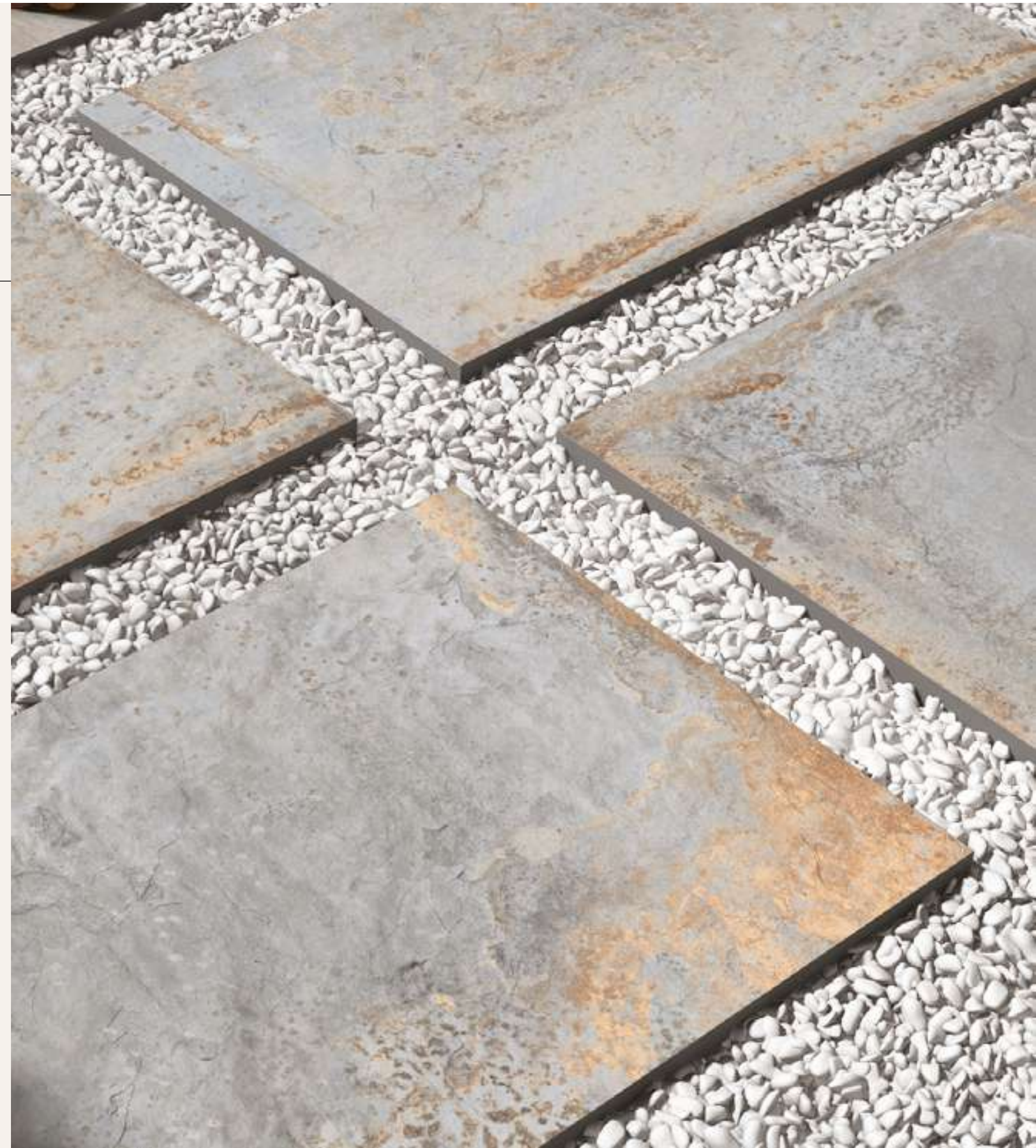
- Dig the soil at least 10 cm deep in warm and dry climate, or deeper in cold or wet climates.
- Compact the soil on the bottom and ensure it is leaning (2%) to avoid water stagnation.
- Optional - place a layer of geotextile.
- Place and compact a layer of crushed stone or gravel (size 4-8 mm).
- Place and compact a layer of fine gravel or sand (size 2-5 mm) to ease the leveling of the surface.
- Ensure the surfaces levelled using a straightedge. A slight slope ( 1%) is recommended to ensure a proper drainage of the floor.
- Lay 20MM RioStone dry leaving joints at least 2 mm wide. Tile spacers can be used to ease installation. Ensure the floor is levelled with a straightedge and use a rubber hammer to correct small differences in height.
- Fill the joints with very thin sand (size 0-3 mm) or polymeric sand.

## CÓMO INSTALAR

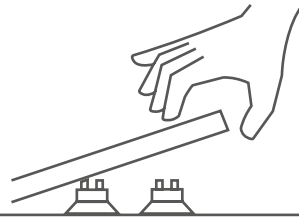
- Excave el suelo al menos 10 cm de profundidad en clima cálido y seco, o más profundo en climas fríos o húmedos. Compacte el suelo en el fondo y asegúrese de que esté inclinado ( 2%) para evitar el estancamiento del agua. Opcional: coloque una capa de geotextil.
- Coloque y compacte una capa de piedra triturada o grava (tamaño 4-8 mm)
- Coloque y compacte una capa de grava fina o arena (tamaño 2-5 mm) para facilitar la nivelación de la superficie.
- Asegúrese de nivelar la superficie con una regla. Se recomienda una ligera pendiente ( 1%) para garantizar un drenaje adecuado del piso.
- Coloque 20 mm de RioStone en seco dejando juntas de al menos 2 mm de ancho. Los separadores de azulejos se pueden usar para facilitar la instalación. Asegúrese de que el piso esté nivelado con una regla y use un martillo de goma para corregir pequeñas diferencias de altura.
- Rellene las juntas con arena muy fina (tamaño 0-3 mm) o arena popolimérica.

## CÓMO INSTALAR

- Creusez le sol à au moins 10 cm de profondeur dans un climat chaud et sec, ou plus profondément dans des climats froids ou humides.
- Compactez le sol sur le fond et assurez-vous qu'il penche ( 2%) pour éviter la stagnation de l'eau.
- Facultatif - placez une couche de géotextile.
- Placer et compacter une couche de pierre concassée ou de gravier (taille 4-8 mm).
- Placer et compacter une couche de gravier fin ou de sable (taille 2-5 mm) pour faciliter le nivellement de la surface.
- Assurez-vous que la surface est nivelée à l'aide d'une règle. Une légère pente ( 1%) est recommandée pour assurer un bon drainage du sol.



# RAISED LAYING SYSTEM



R11



20MM  
OUTDOOR PORCELAIN

## SISTEMA DE COLOCACIÓN ELEVADA SYSTÈME DE POSE SURÉLEVÉ

The stratigraphy considered is solely indicative of the various types of application: we recommend referring to local regulations in order to achieve a correct installation.

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La stratigraphie considérée est uniquement indicative des différents types d'application : nous recommandons de se référer aux réglementations locales afin de réaliser une installation correcte.

## RECOMMENDED APPLICATIONS APLICACIONES RECOMENDADAS APPLICATIONS RECOMMANDÉES

- Balconies.
- Terraces.
- Gazebos.
- Patios.
- Public service facilities.

- Balcones.
- Gradas.
- Gazebos.
- Patios.
- Instalaciones de servicio público.

- Balcons.
- Terrasses.
- Gazebos.
- Patios.
- Installations de service public.

## HOW TO INSTALL

- On terraces or accessible attics, it is possible to build a raised level flooring that still allows rainwater drainage.
- After the slab and its sloping screed are complete, install the water roofing membrane.
- Position the pedestals according to the chosen sizes, if necessary use the slope correctors.
- During the installation, adjust each pedestal to achieve a flat floor.

## CÓMO INSTALAR

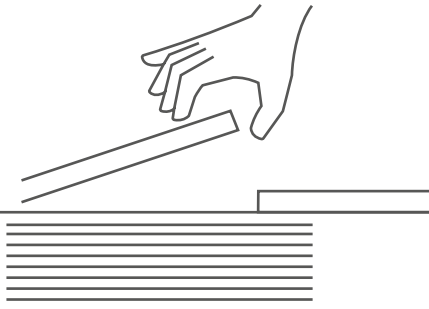
- En terrazas o áticos accesibles, es posible construir un piso sobreelevado que aún permita el drenaje del agua de lluvia.
- Una vez que la losa y su solera inclinada estén completas, instale la membrana impermeable para techos.
- Coloque los pedestales de acuerdo con los tamaños elegidos, si es necesario use los correctores de pendiente.
- Durante la instalación, ajuste cada pedestal para lograr un piso plano.

## COMMENT INSTALLER

- Sur les terrasses ou les combles accessibles, il est possible de construire un plancher surélevé tout en permettant l'évacuation des eaux pluviales.
- Une fois la dalle et sa chape en pente terminées, installez la membrane de couverture d'eau.
- Positionner les plots selon les dimensions choisies, si besoin utiliser les correcteurs de pente.
- Lors de l'installation, ajustez chaque plot pour obtenir un sol plat.



# TRADITIONAL LAYING SYSTEM



R11



20MM  
OUTDOOR PORCELAIN

## SISTEMA TRADICIONAL DE COLOCACIÓN SYSTÈME DE POSE TRADITIONNEL

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La stratigraphie considérée est uniquement indicative des différents types d'application : nous recommandons de se référer aux réglementations locales afin de réaliser une installation correcte.

## RECOMMENDED APPLICATIONS APLICACIONES RECOMENDADAS APPLICATIONS RECOMMANDÉES

- Courtyards.
- Access ramps.
- Garages, car parks.
- Short-stay sites for vehicles.
- Cycle paths.
- Walkways.
- Pavements.
- Arcades/porches.
- Terraces.

- Patios.
- Rampas de acceso.
- Garajes, aparcamientos.
- Parcelas de corta estancia para vehículos.
- Ciclovías.
- Pasarelas.
- Pavimentos.
- Arcadas/porches.
- Terrazas.

- Cours.
- Rampes d'accès.
- Garages, parkings.
- Emplacements de courte durée pour véhicules.
- Pistes cyclables.
- Passerelles.
- Chaussée.
- Arcades/porches.
- Terrasses.

## HOW TO INSTALL ON SCREED

- Dig up and compact the ground
- Place a layer of crushed stone and gravel.
- Place the slab including optional steel mesh.
- Install 20MM using an exterior-rated elastic adhesive.
- Leave a joint of at least 2 mm and foresee the expansion joints.

## COMO INSTALAR EN PANTALLA

- Desenterrar y compactar el suelo.
- Coloque una capa de piedra triturada y grava.
- Colocar la losa incluida la malla de acero opcional.
- Instale 20MM utilizando un adhesivo elástico para exteriores.
- Dejar una junta de al menos 2 mm y prever las juntas de dilatación.

## COMMENT INSTALLER SUR CHAPE

- Creusez et compactez le sol
- Placez une couche de pierre concassée et de gravier.
- Placer la dalle, y compris le treillis métallique en option.
- Installez 20 mm à l'aide d'un adhésif élastique extérieur.
- Laissez un joint d'au moins 2 mm et prévoir les joints de dilatation.



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*-cement*

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STONE

Rio Stone is the perfect combination of brilliant design and highest technical performance. Now create the effect of natural stone in surfaces not imagined before and add to strength and durability to it.







ICARUS GREY RANDOM



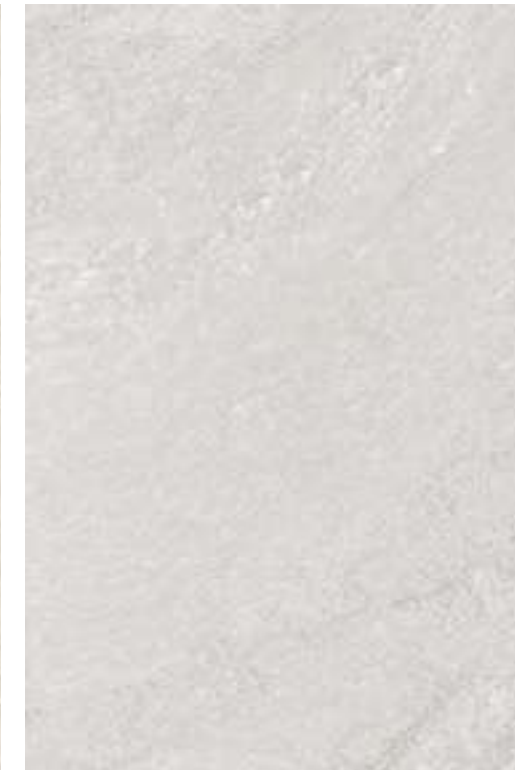
ICARUS

ICARUS BEIGE



600X900MM

ICARUS SILVER



600X900MM

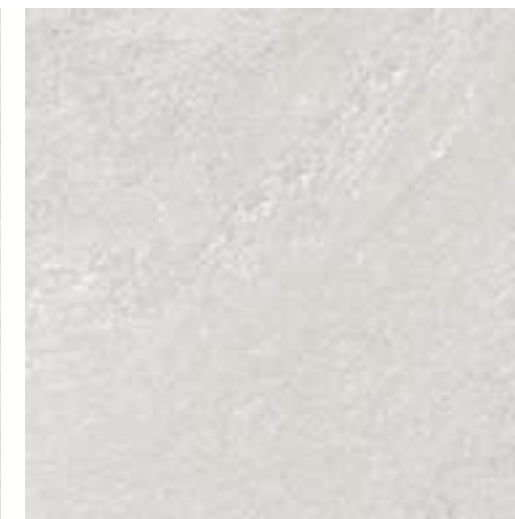
ICARUS GREY



600X900MM



600X600MM



600X600MM



600X600MM

TRAVERTINO RAPULANO SILVER



TRAVERTINO RAPULANO SILVER



TRAVERTINO RAPULANO CREMA





TRAVERTINO RAPULANO GOLD

TRAVERTINO RAPULANO CREMA RANDOM



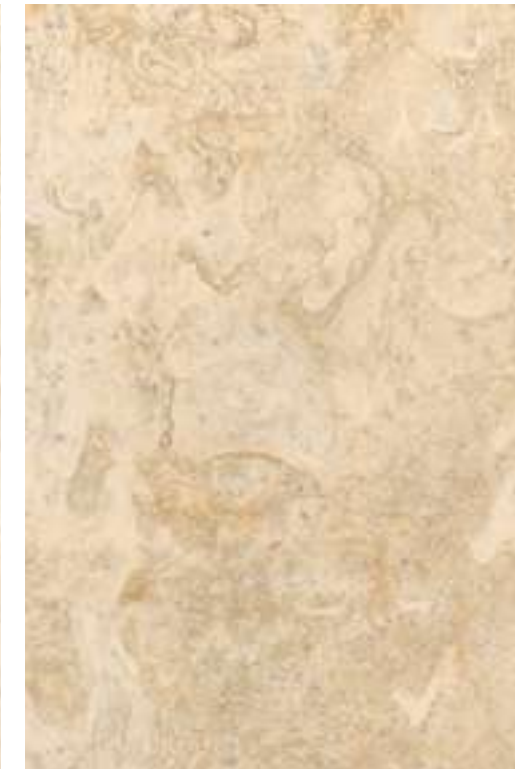
TRAVERTINO RAPULANO

TRAVERTINO  
RAPULANO CREMA



600X900MM

TRAVERTINO  
RAPULANO GOLD



600X900MM

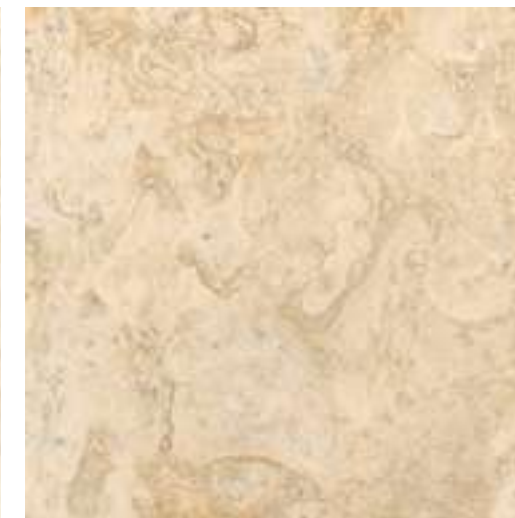
TRAVERTINO  
RAPULANO SILVER



600X900MM



600X600MM



600X600MM



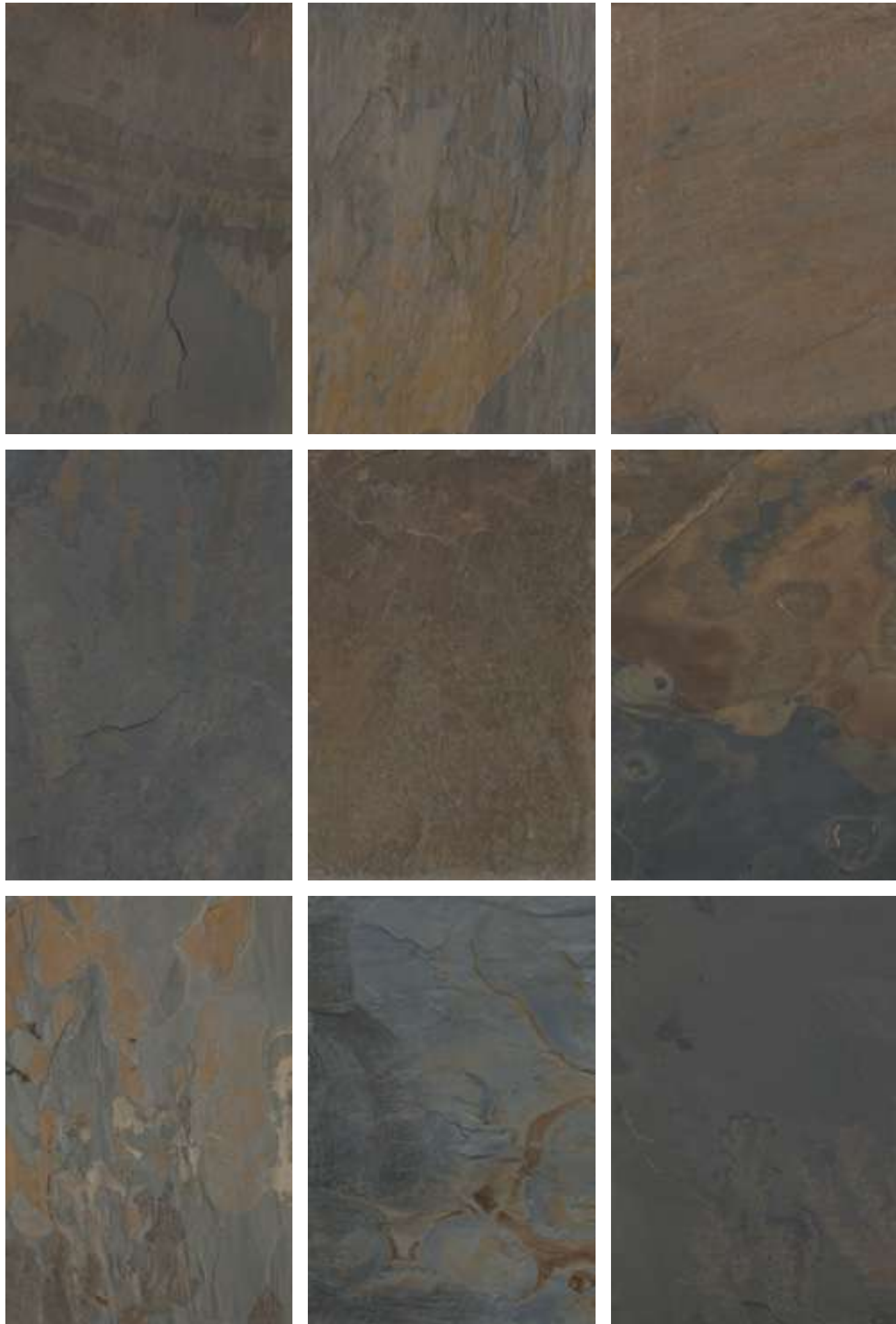
600X600MM

CALIFORNIA GOLD





CALIFONIA GOLD RANDOM



CALIFONIA GOLD

CALIFONIA GOLD



600X900MM



600X600MM



HAZZEL STONE ASH



HAZZEL STONE ASH







HAZZEL STONE

HAZZEL STONE CREMA



HAZZEL STONE CREMA



600X900MM

HAZZEL STONE BEIGE



600X900MM

HAZZEL STONE ASH



600X900MM



600X600MM



600X600MM



600X600MM

SAND ROCK SILVER



SAND ROCK BEIGE

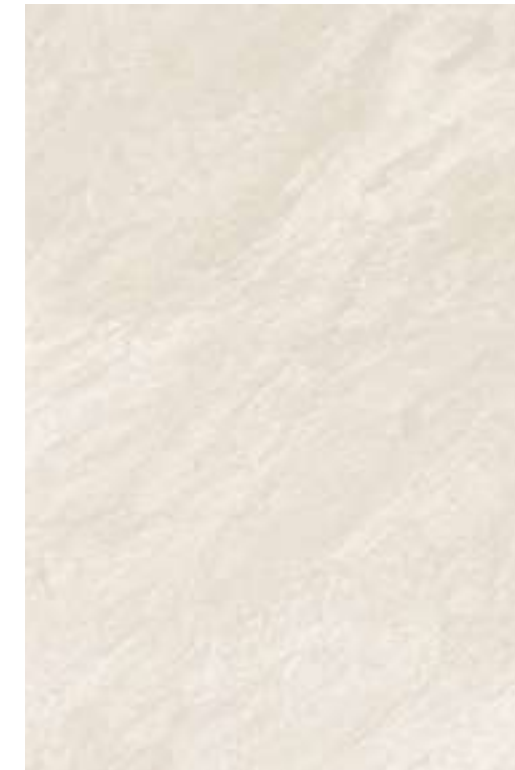


SAND ROCK

SAND ROCK SILVER RANDOM



SAND ROCK BEIGE

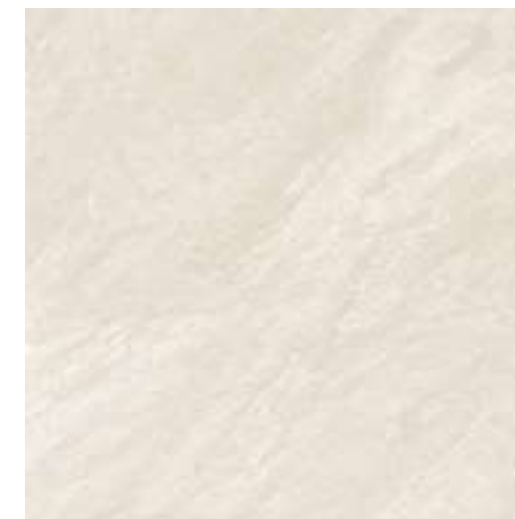


600X900MM

SAND ROCK SILVER



600X900MM



600X600MM



600X600MM

QUARTZ GREY

QUARTZ GREY





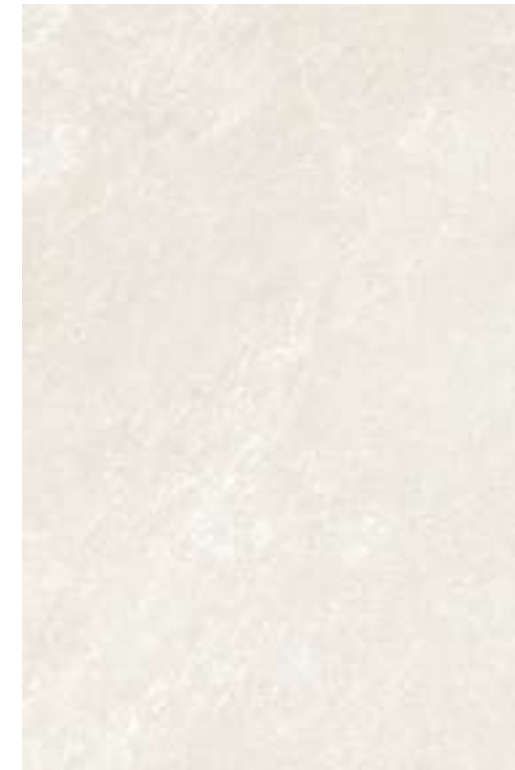




QUARTZ WHITE

QUARTZ

QUARTZ WHITE



600X900MM

QUARTZ GREY



600X900MM

QUARTZ NERO



600X900MM



600X600MM



600X600MM



600X600MM

COUNTRY LGY

COUNTRY LGY



COUNTRY GRIS RANDOM



COUNTRY

COUNTRY LGY

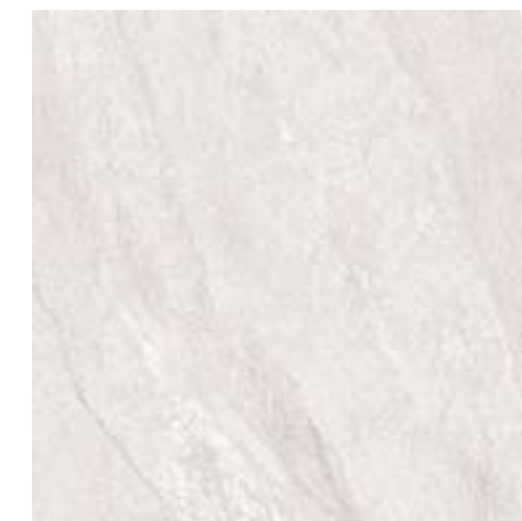


600X900MM

COUNTRY GRIS



600X900MM



600X600MM



600X600MM

COUNTRY CREMA RANDOM

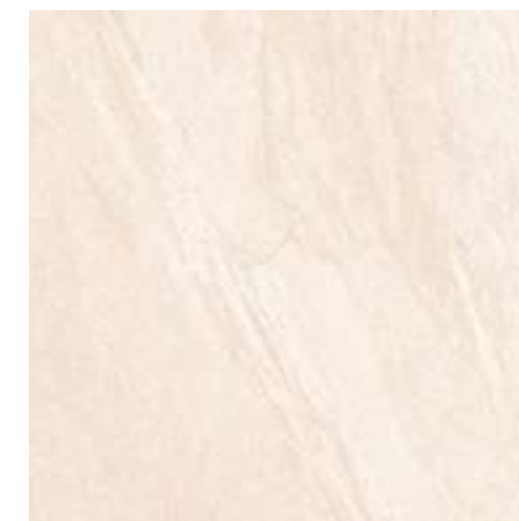


COUNTRY

COUNTRY CREMA



600X900MM



600X600MM

COUNTRY ANTHRACITE



600X900MM



600X600MM

CONCORD GREY



CONCORD STEEL



CONCORD STEEL RANDOM



CONCORD

CONCORD GRIS



600X900MM

CONCORD STEEL



600X900MM



600X600MM



600X600MM





CONCORD GRIS

CONCORD IVORY

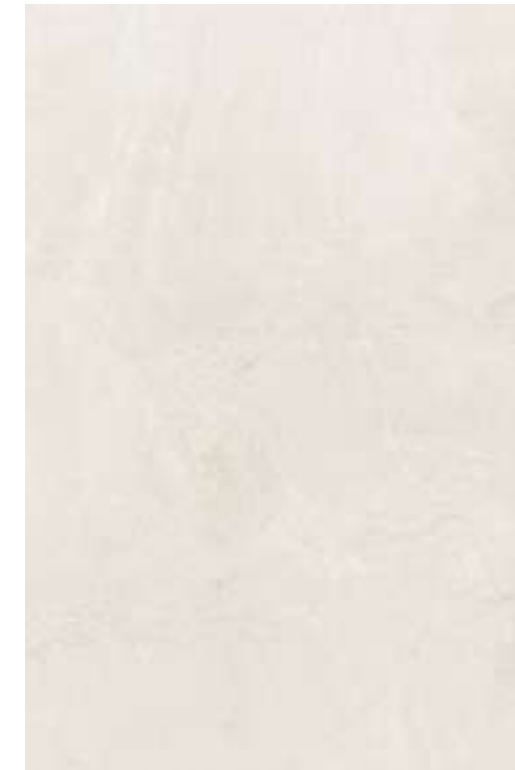


CONCORD IVORY RANDOM



CONCORD

CONCORD IVORY

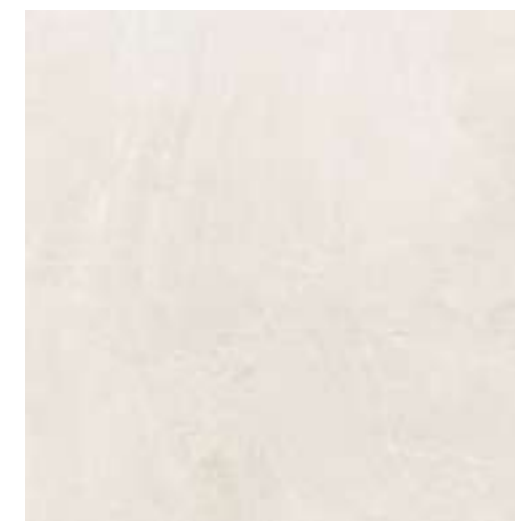


600X900MM

CONCORD GREY



600X900MM



600X600MM



600X600MM

GOLD QUARTZ



GOLD QUARTZ

GOLD QUARTZ RANDOM



GOLD QUARTZ



600X900MM



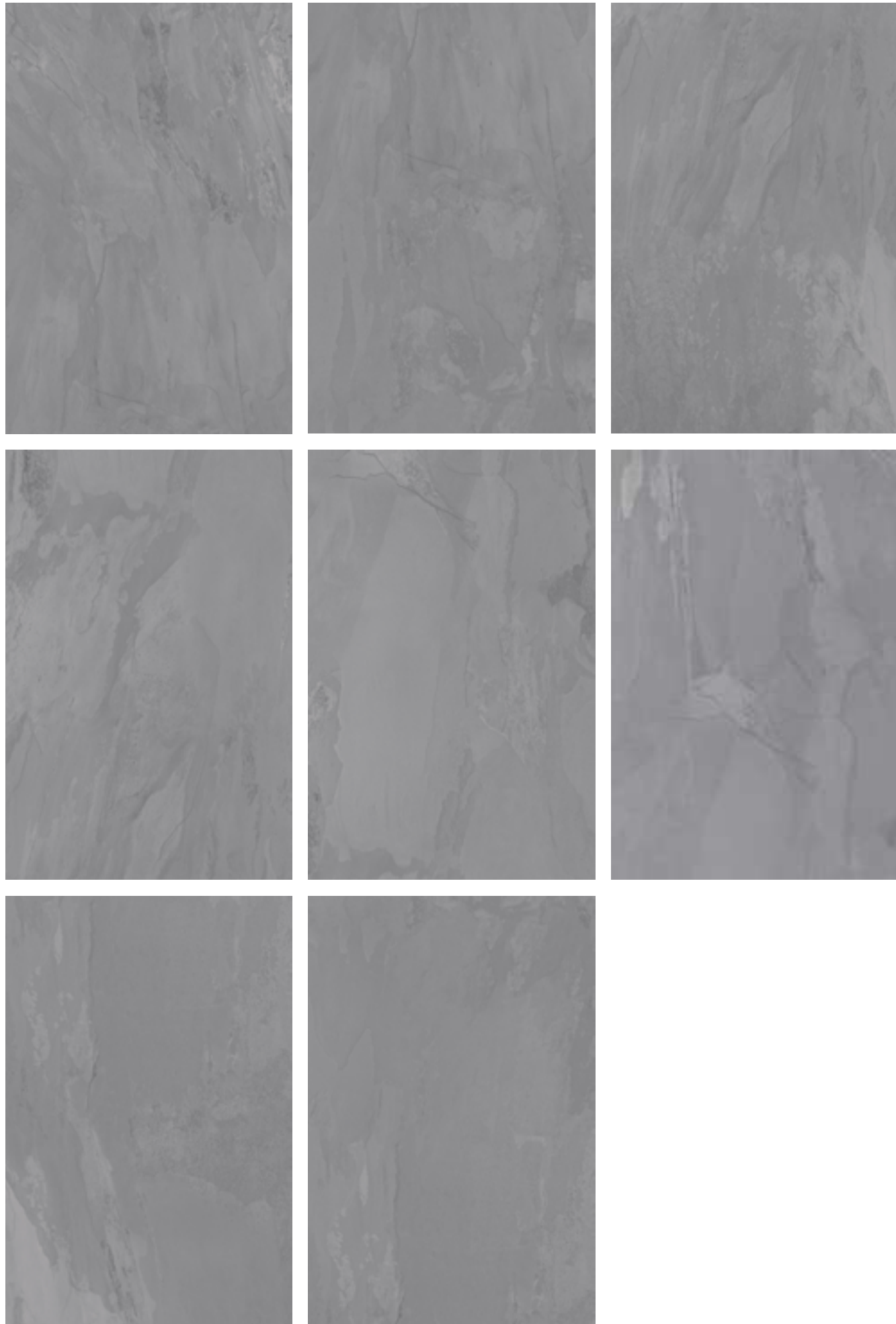
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SLATE STONE STEEL





SLATE STONE GREY RANDOM

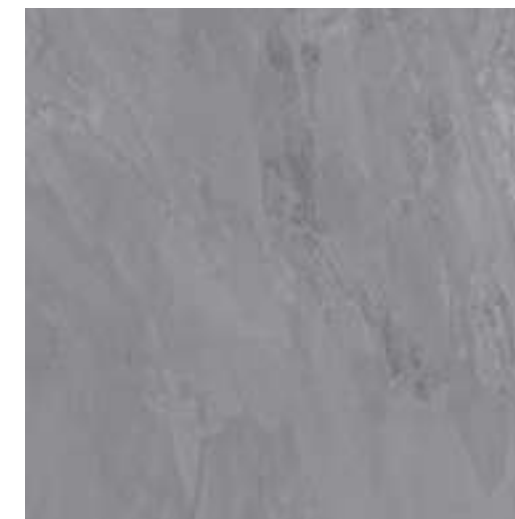


SLATE STONE

SLATE STONE GREY

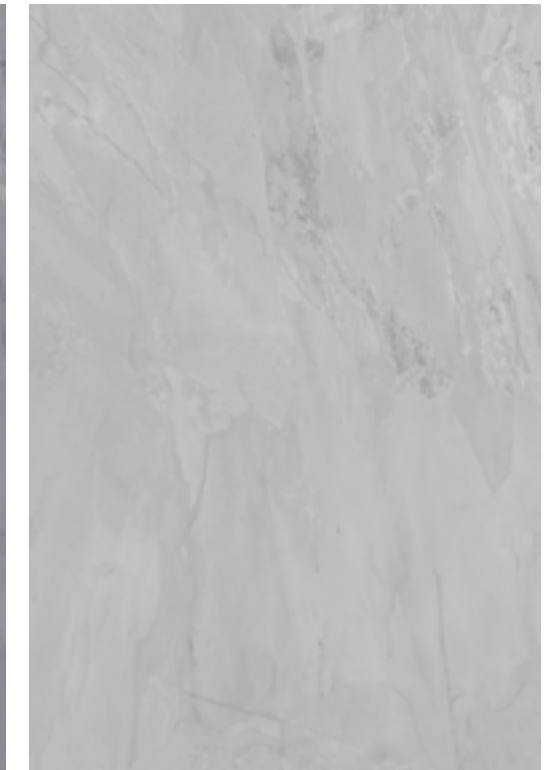


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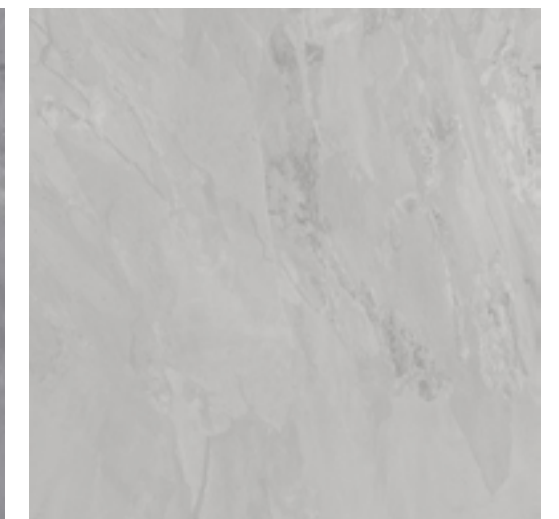


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SLATE STONE STEEL

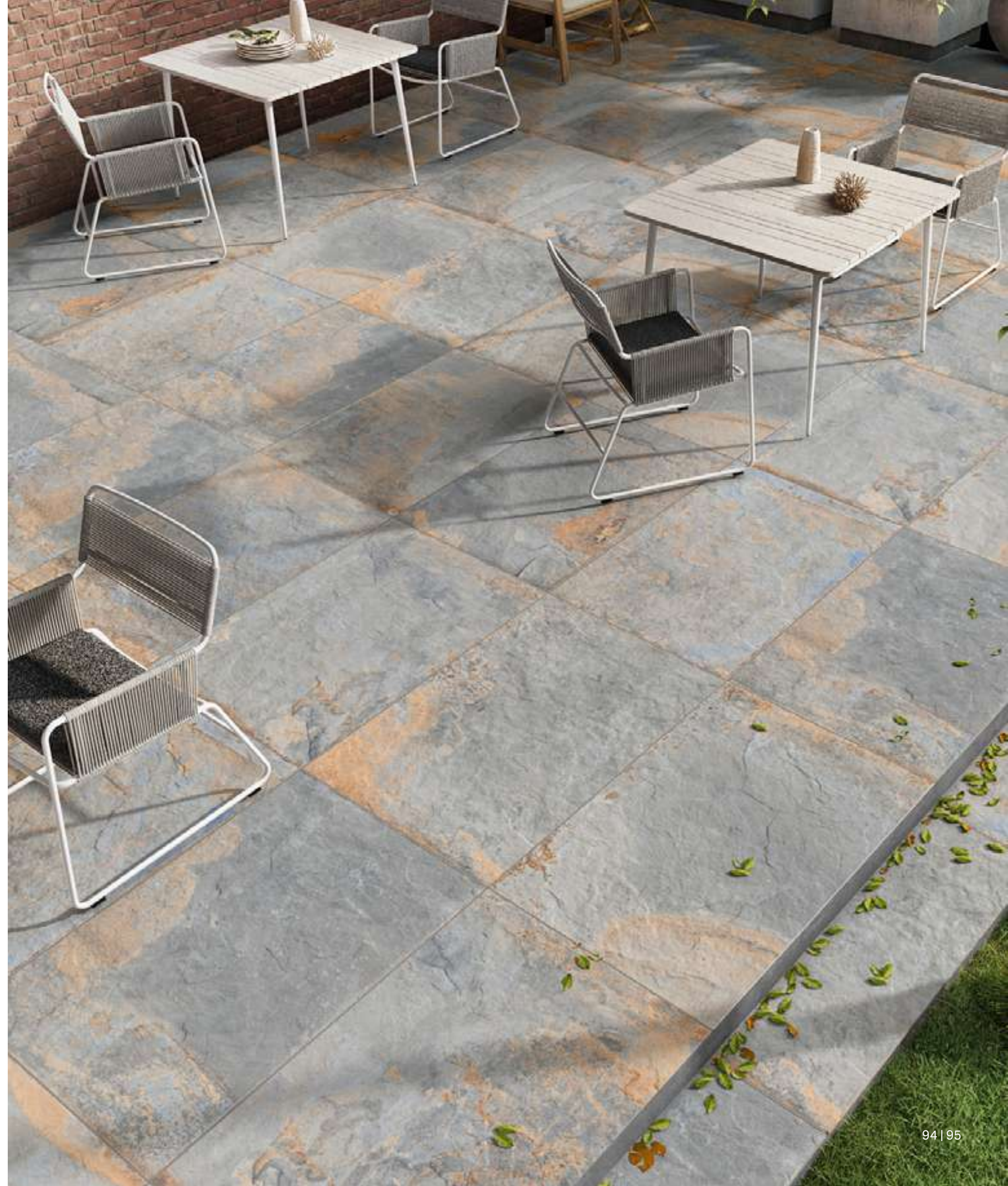


600X900MM



600X600MM

VIATAMGOLD ASH





VIATAMGOLD AZUL RANDOM



VIATAMGOLD

VIATAMGOLD ASH



600X900MM

VIATAMGOLD AZUL



600X900MM

VIATAMGOLD BLACK



600X900MM



600X600MM



600X600MM



600X600MM

MIST GREY



MIST GREY

MIST GREY RANDOM



MIST GREY



600X900MM



600X600MM

COTTO BEIGE





COTTO ASH

COTTO

COTTO BEIGE



600X900MM

COTTO CREMA



600X900MM

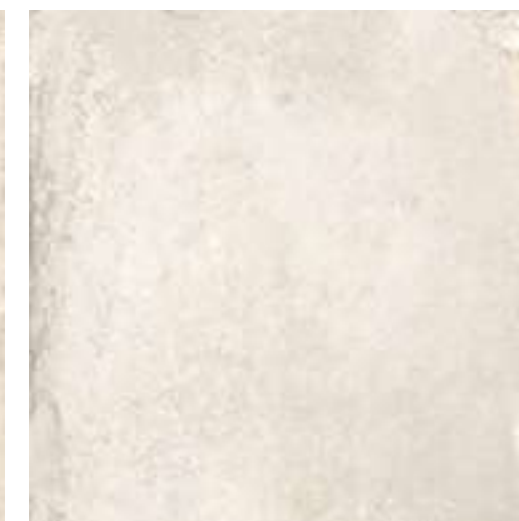
COTTO ASH



600X900MM



600X600MM



600X600MM



600X600MM

PACIFIC BROWN



PACIFIC BROWN



PACIFIC BROWN

PACIFIC BROWN



600X900MM



600X600MM





BRAZILIAN BLACK

BRAZILIAN GREY





BRAZILIAN BLACK

BRAZILIAN GREY



BRAZILIAN GREY RANDOM



BRAZILIAN

BRAZILIAN GREY



600X900MM

BRAZILIAN BLACK



600X900MM



600X600MM



600X600MM

ESPIRIT GREY



ESPIRIT

ESPIRIT GREY RANDOM



ESPIRIT BEIGE

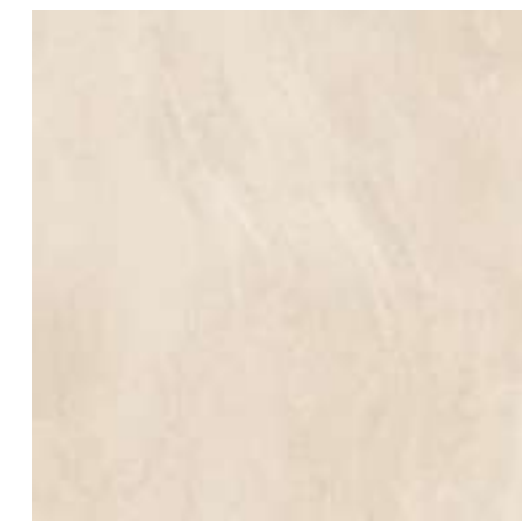


600X900MM

ESPIRIT GREY



600X900MM



600X600MM



600X600MM

ESPIRIT NERO



ESPIRIT TAN RANDOM



ESPIRIT TAN



600X900MM

ESPIRIT NERO



600X900MM



600X600MM



600X600MM





BASALT



BASALT GREY



600X900MM

BASALT NATURAL



600X900MM



600X600MM

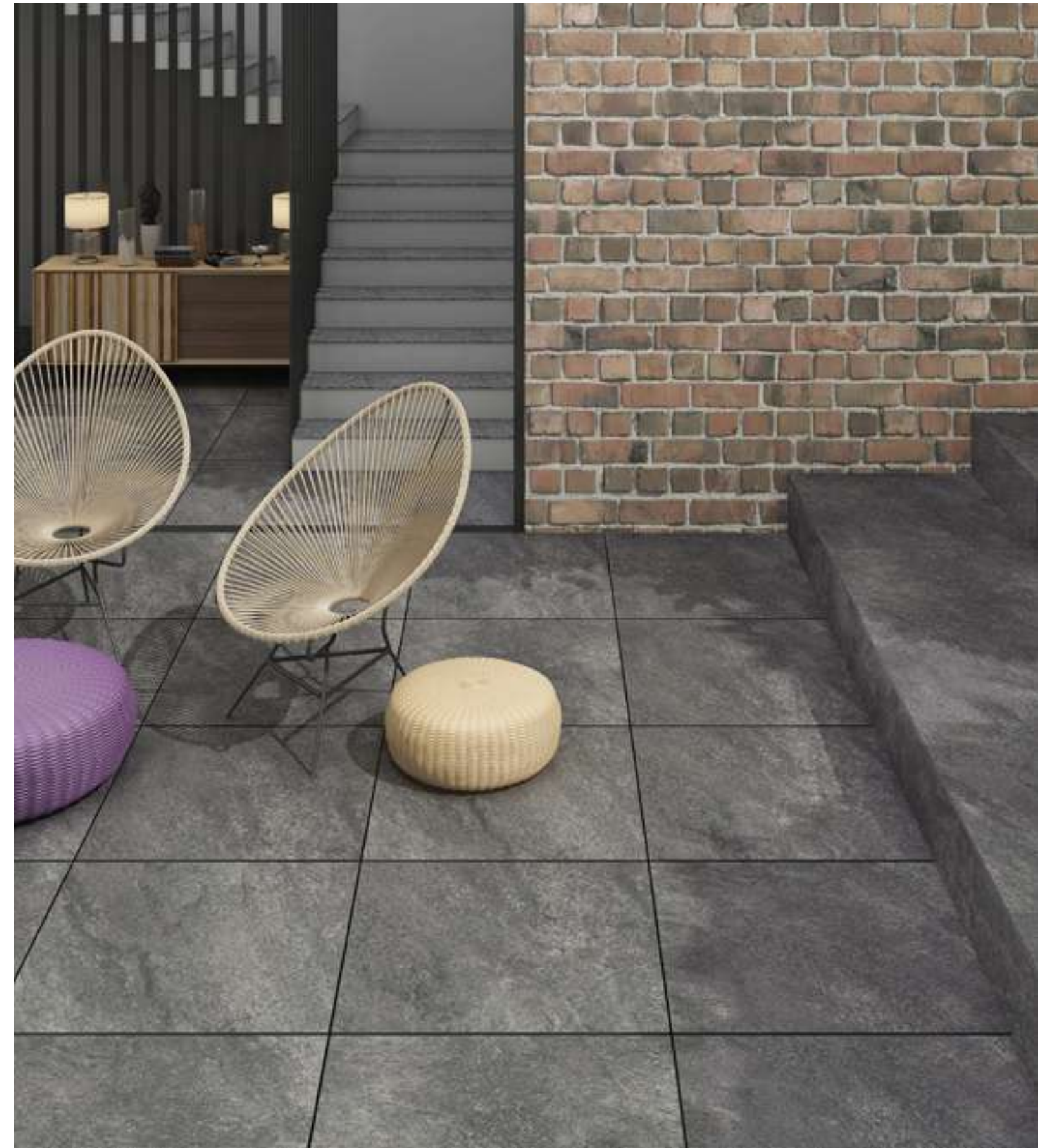


600X600MM



HAMMER STONE GREY

HAMMER STONE BEIGE



HAMMER STONE NERO

HAMMER STONE

HAMMER STONE BEIGE



600X900MM

HAMMER STONE MOCA



600X900MM



600X600MM



600X600MM

HAMMER STONE GREY



600X900MM

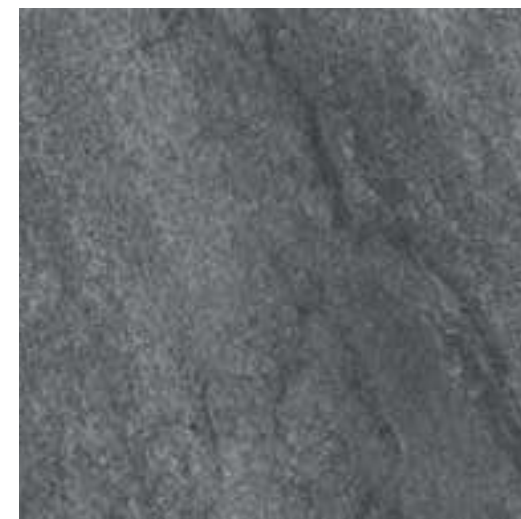
HAMMER STONE NERO



600X900MM



600X600MM



600X600MM

MAYSTONE CREMA



MAYSTONE CREMA

MAYSTONE GREY



MAYSTONE

MAYSTONE GREY RANDOM



MAYSTONE CREMA



600X900MM

MAYSTONE GREY



600X900MM



600X600MM



600X600MM



NATURAL SLATE





NATURAL SLATE



NATURAL SLATE

NATURAL SLATE RANDOM



NATURAL SLATE



600X900MM



600X600MM

ECOPAV NATURAL



ECOPAV NATURAL

ECOPAV NATURAL RANDOM



ECOPAV NATURAL



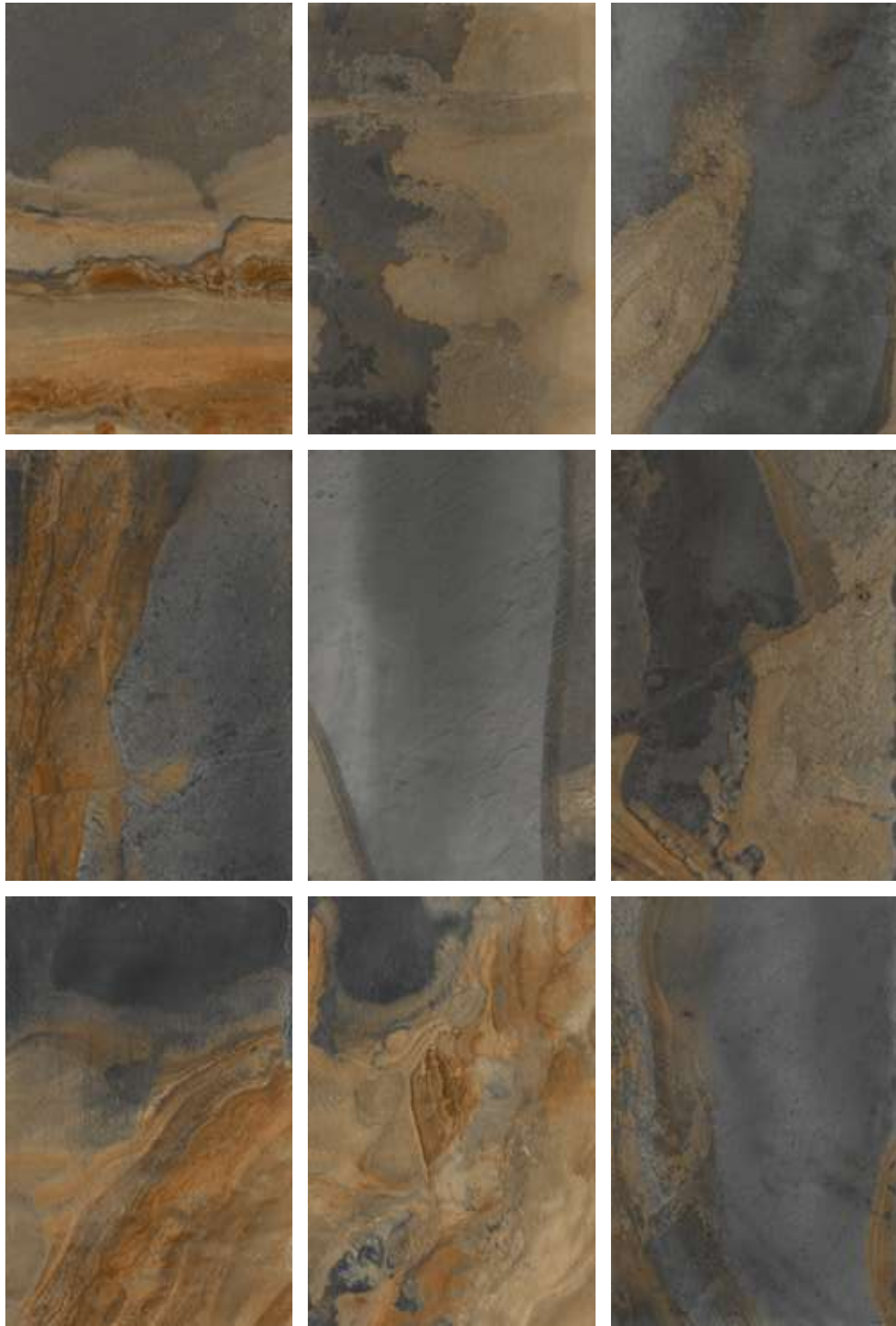
600X900MM



600X600MM



SLATE IMPERIO RANDOM



SLATE IMPERIO

SLATE IMPERIO



600X900MM



600X600MM

EARTHEN GREY



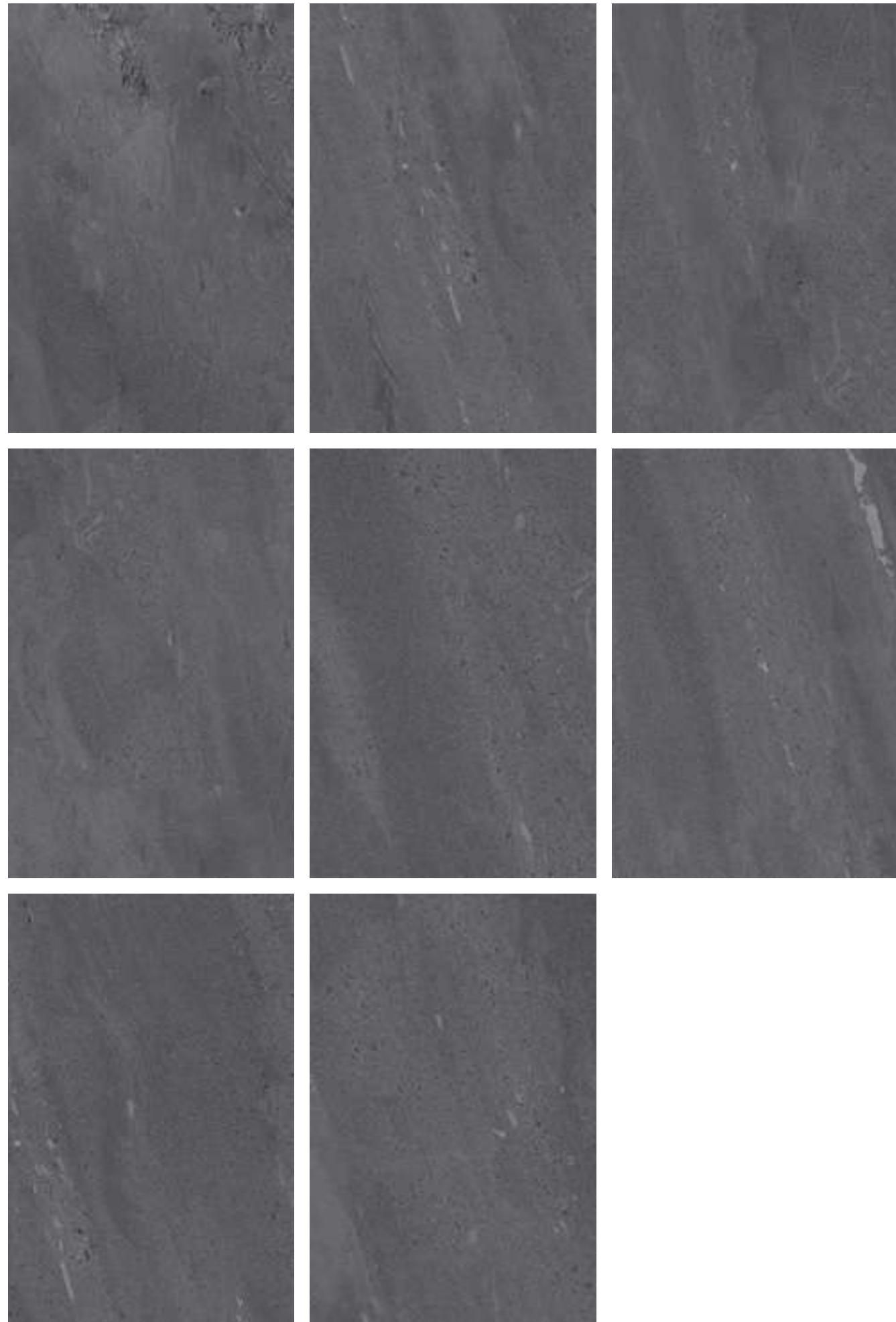


EARTHEN BEIGE





EARTHEN NERO RANDOM



EARTHEN

EARTHEN GREY



600X900MM

EARTHEN BEIGE



600X900MM

EARTHEN NERO



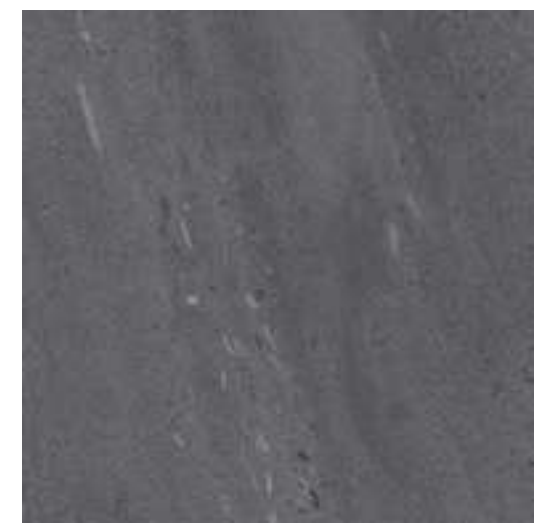
600X900MM



600X600MM



600X600MM



600X600MM

COBBLE STONE ASH

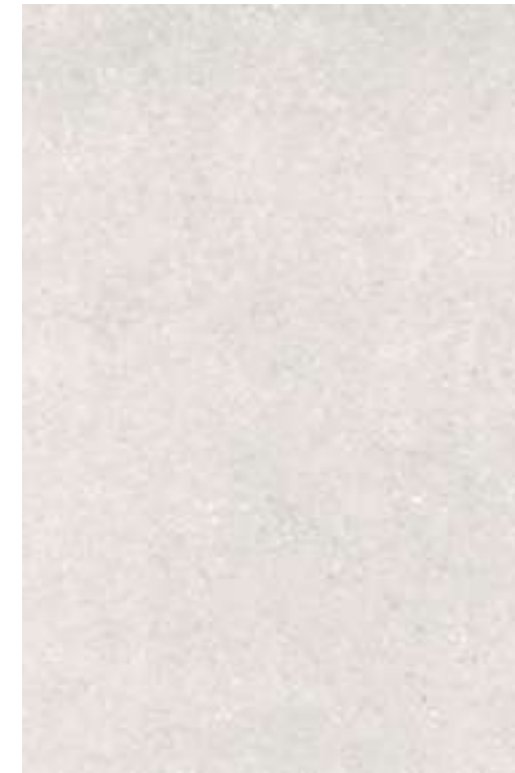


COBBLE STONE



COBBLE STONE GREY

COBBLE STONE ASH



600X900MM

COBBLE STONE GREY

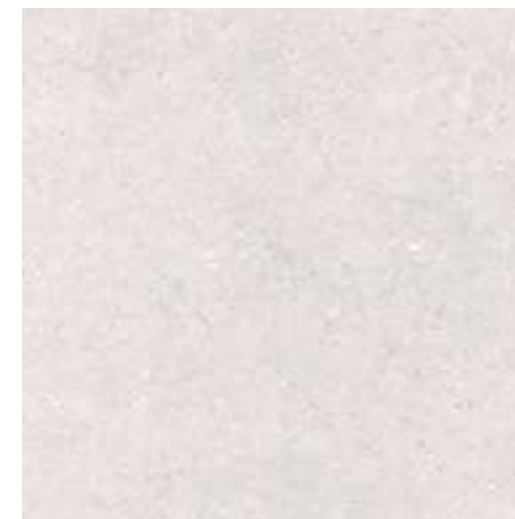


600X900MM

COBBLE STONE NERO



600X900MM



600X600MM



600X600MM



600X600MM

BLUE STONE NATURAL





BLUE STONE

BLUE STONE GRIS

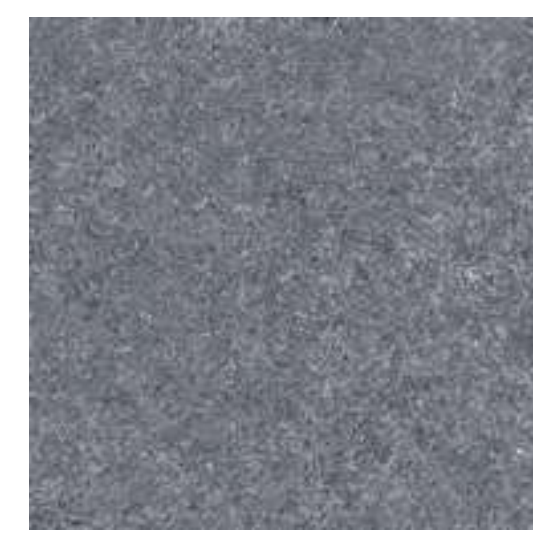


600X900MM

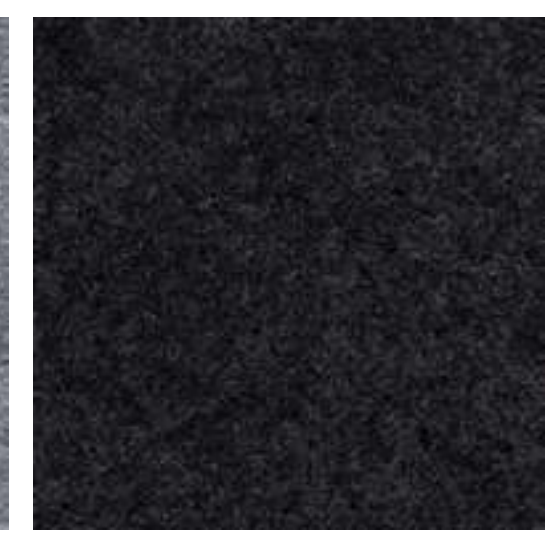
BLUE STONE NATURAL



600X900MM



600X600MM



600X600MM

QUARTZITE NATURAL





QUARTZITE NATURAL RANDOM



QUARTZITE

QUARTZITE CREMA

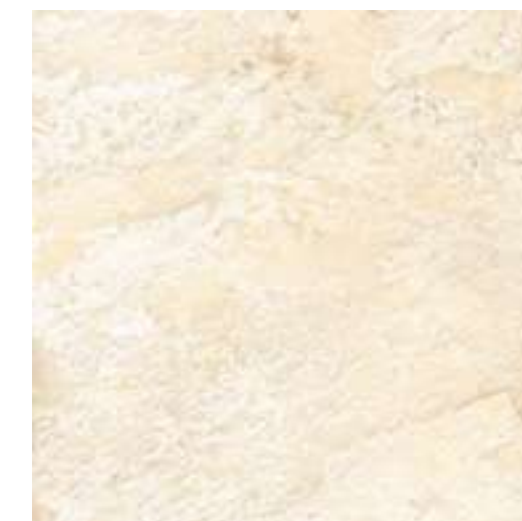


600X900MM

QUARTZITE NATURAL



600X900MM



600X600MM



600X600MM





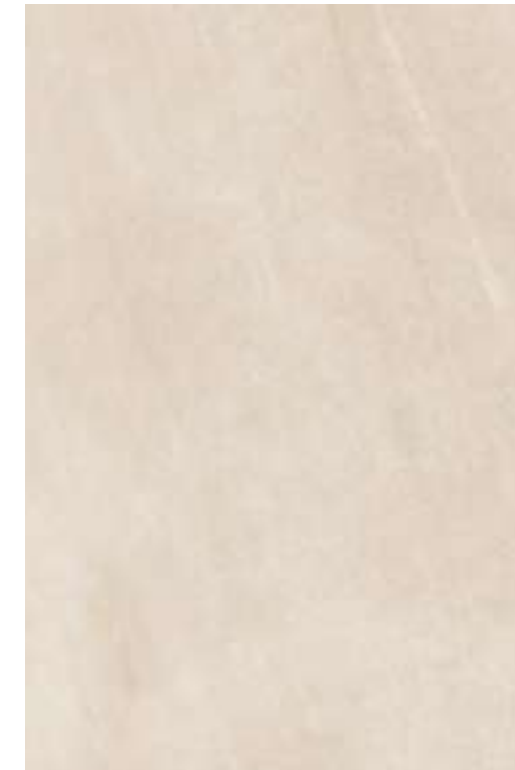


GRAVE STONE BEIGE RANDOM



GRAVE STONE

GRAVE STONE BEIGE

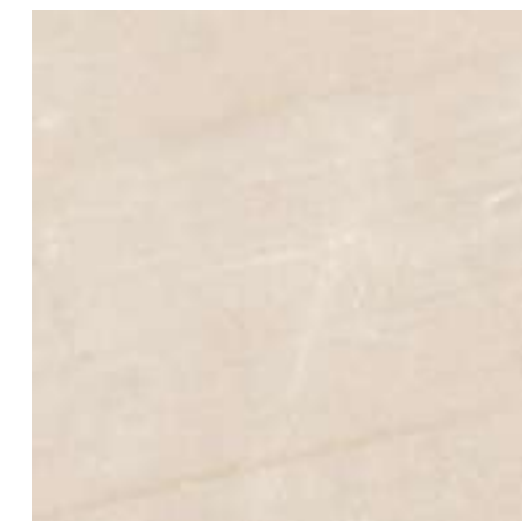


600X900MM

GRAVE STONE GREY



600X900MM



600X600MM



600X600MM



ROUGH BRUNO

ROUGH BRUNO RANDOM



ROUGH BRUNO



600X900MM



600X600MM

BESIDE GREY



BESIDE GREY

BESIDE GREY RANDOM



BESIDE GREY



600X900MM



600X600MM

MONOLITH ASH

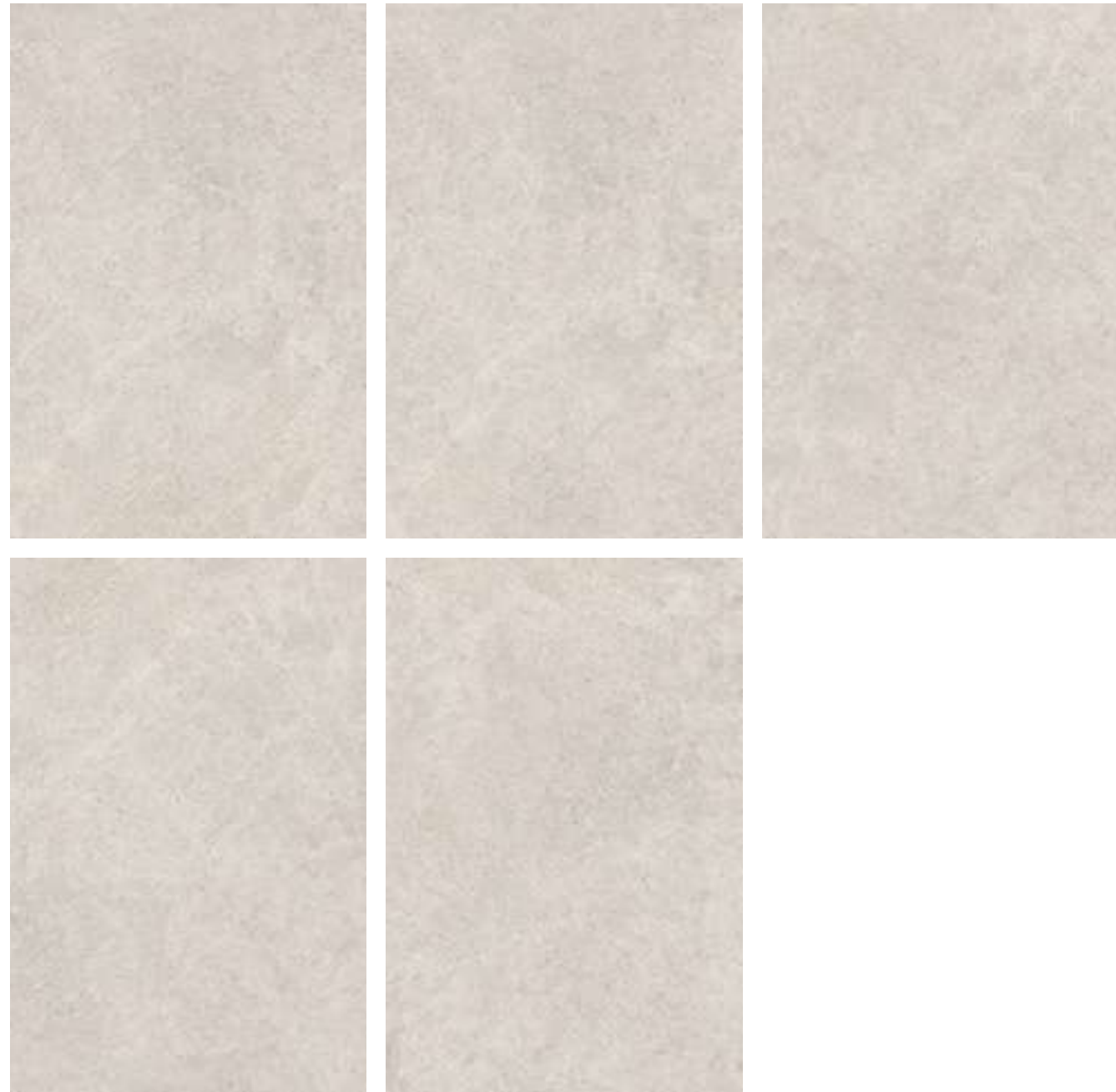




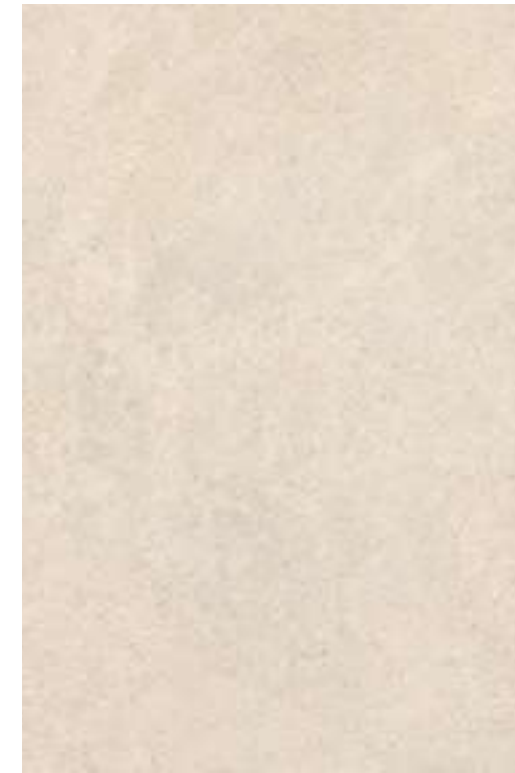


MONOLITH

MONOLITH ASH RANDOM

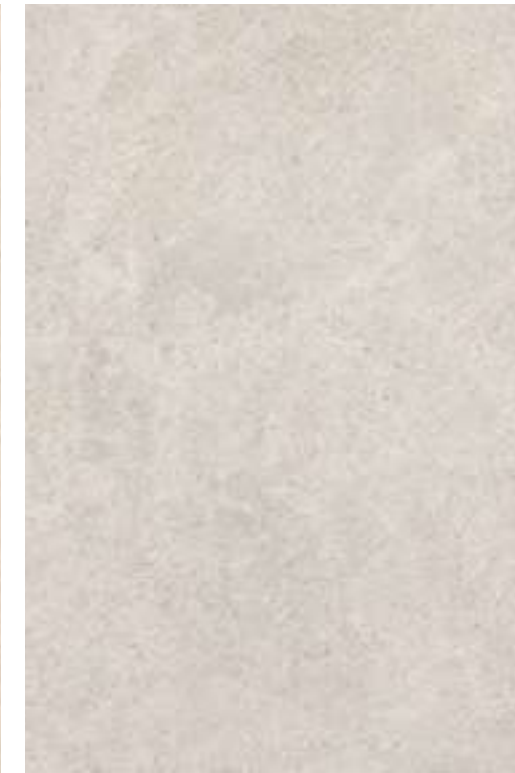


MONOLITH CREMA



600X900MM

MONOLITH ASH

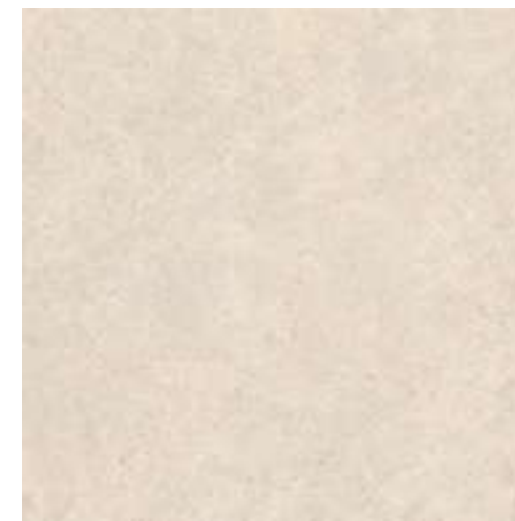


600X900MM

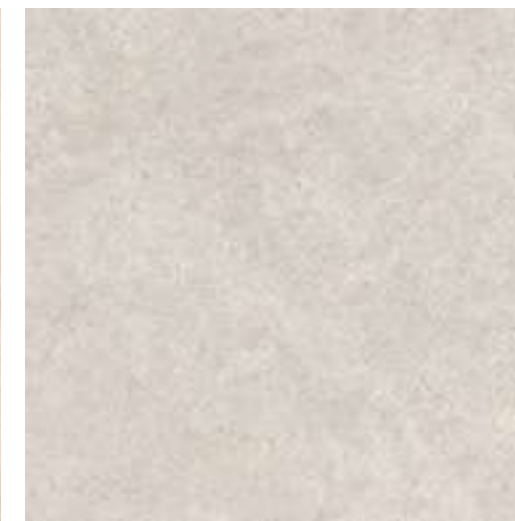
MONOLITH NERO



600X900MM



600X600MM



600X600MM



600X600MM

NOOR LGY





NOOR

NOOR CREMA RANDOM

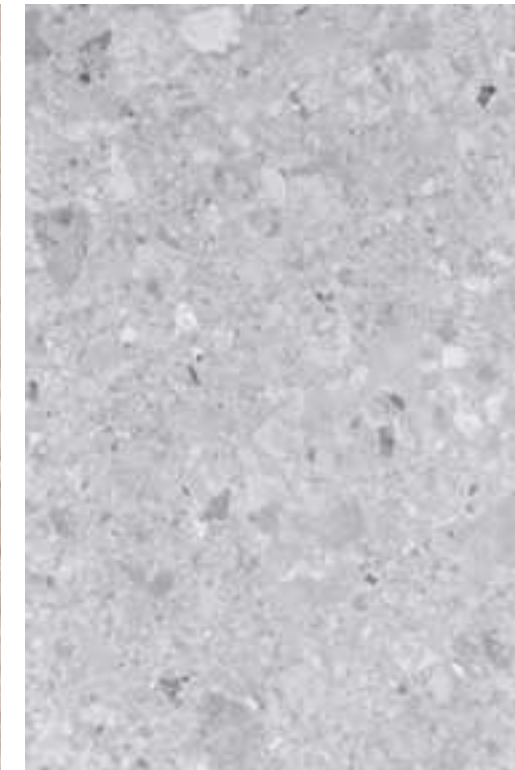


NOOR CREMA



600X900MM

NOOR LGY



600X900MM

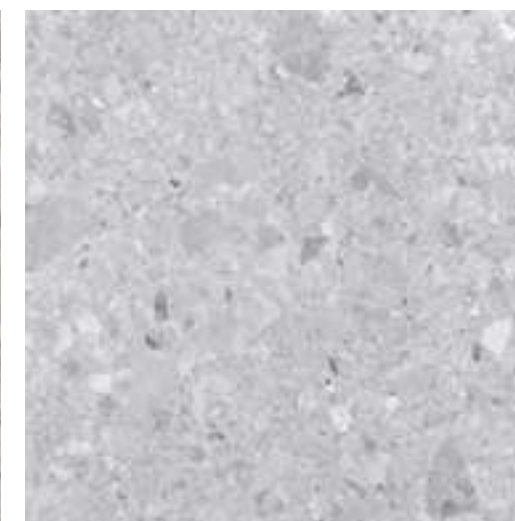
NOOR GRIGIO



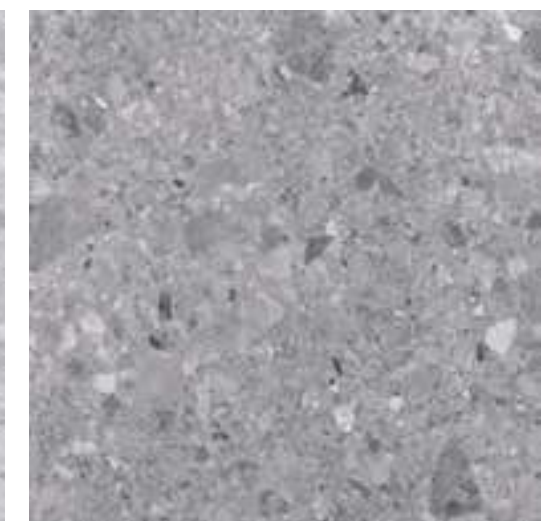
600X900MM



600X600MM



600X600MM



600X600MM

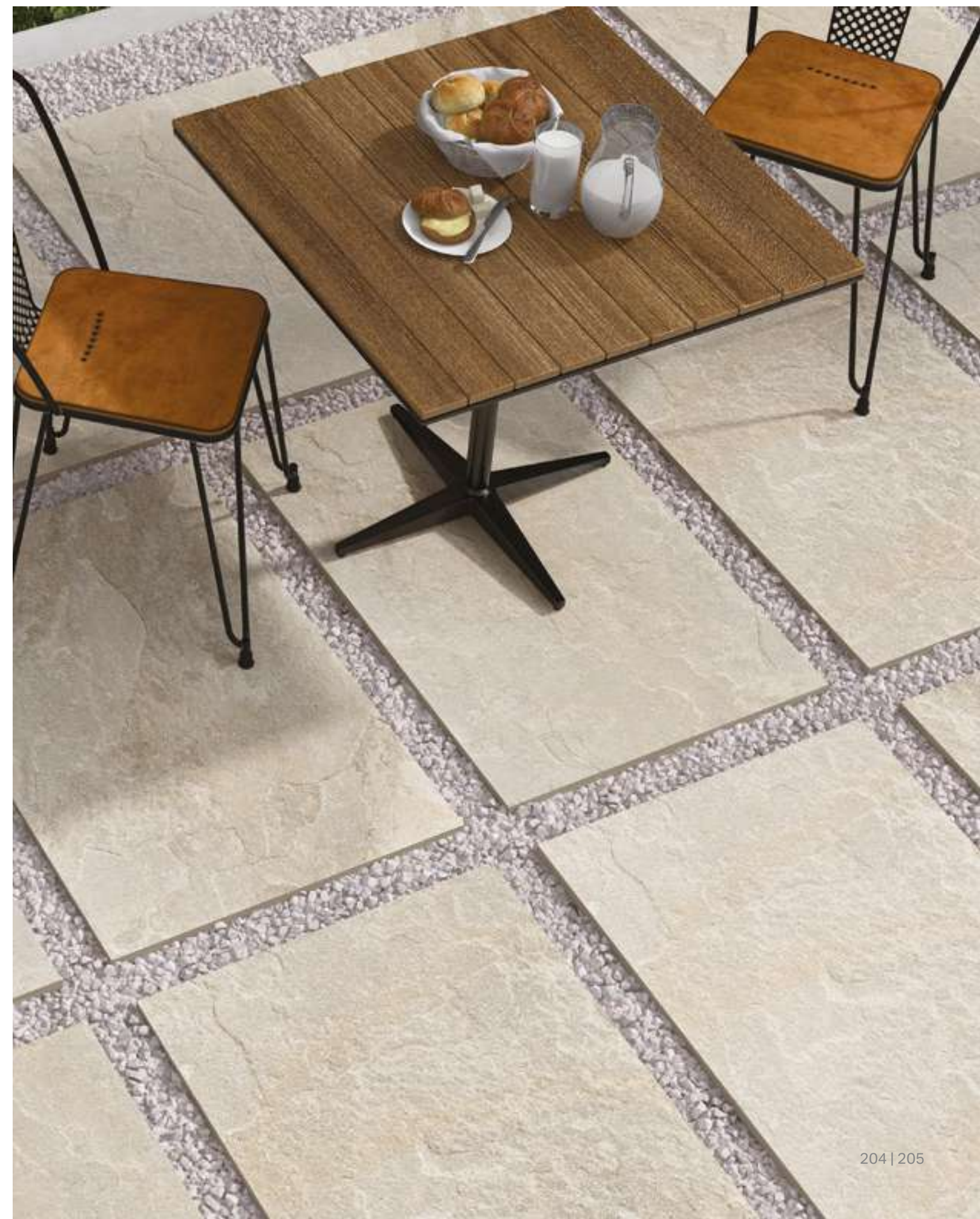
OYSTER SILVER





OYSTER BIANCO

OYSTER BEIGE



OYSTER BEIGE RANDOM



OYSTER

OYSTER BEIGE



600X900MM

OYSTER BIANCO



600X900MM



600X600MM



600X600MM



OYSTER SILVER RANDOM



OYSTER

OYSTER SILVER



600X900MM

OYSTER NERO



600X900MM



600X600MM

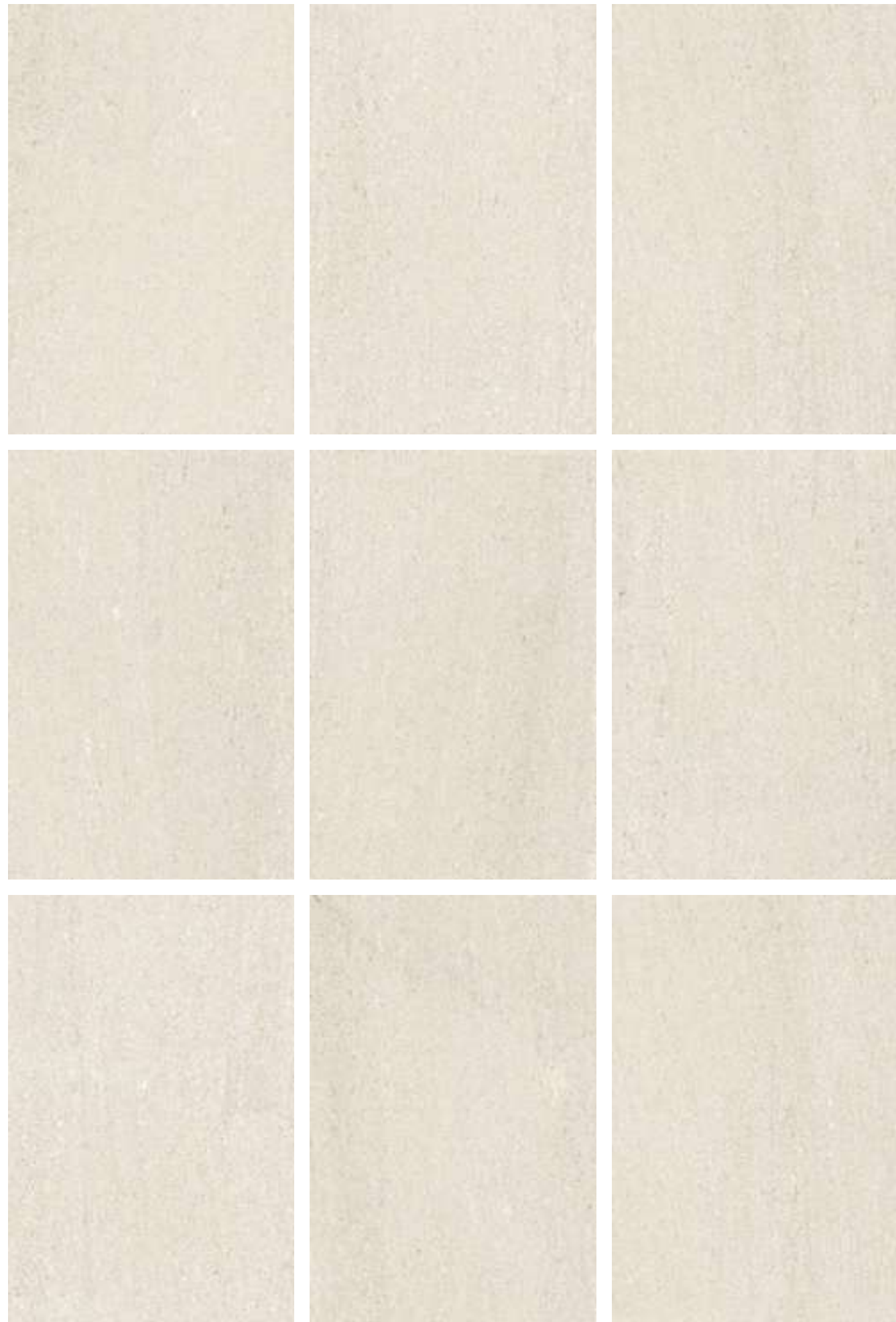


600X600MM

REVOKE GREY



REVOKE BEIGE RANDOM



REVOKE

REVOKE BEIGE

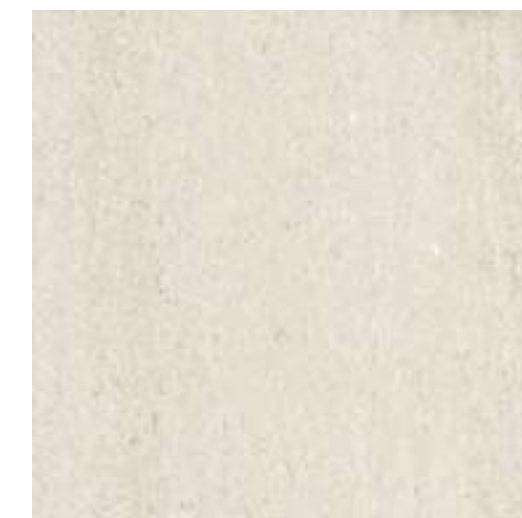


600X900MM

REVOKE GREY



600X900MM



600X600MM



600X600MM

I N D I A N S T O N E

KANDLA GREY

FOSSIL MINT

RAINBOW

SAGAR BLACK



KANDLA GREY



KANDLA GREY RANDOM



INDIAN STONE

KANDLA GREY



600X900MM



600X600MM





FOSSIL MINT RANDOM



INDIAN STONE

FOSSIL MINT

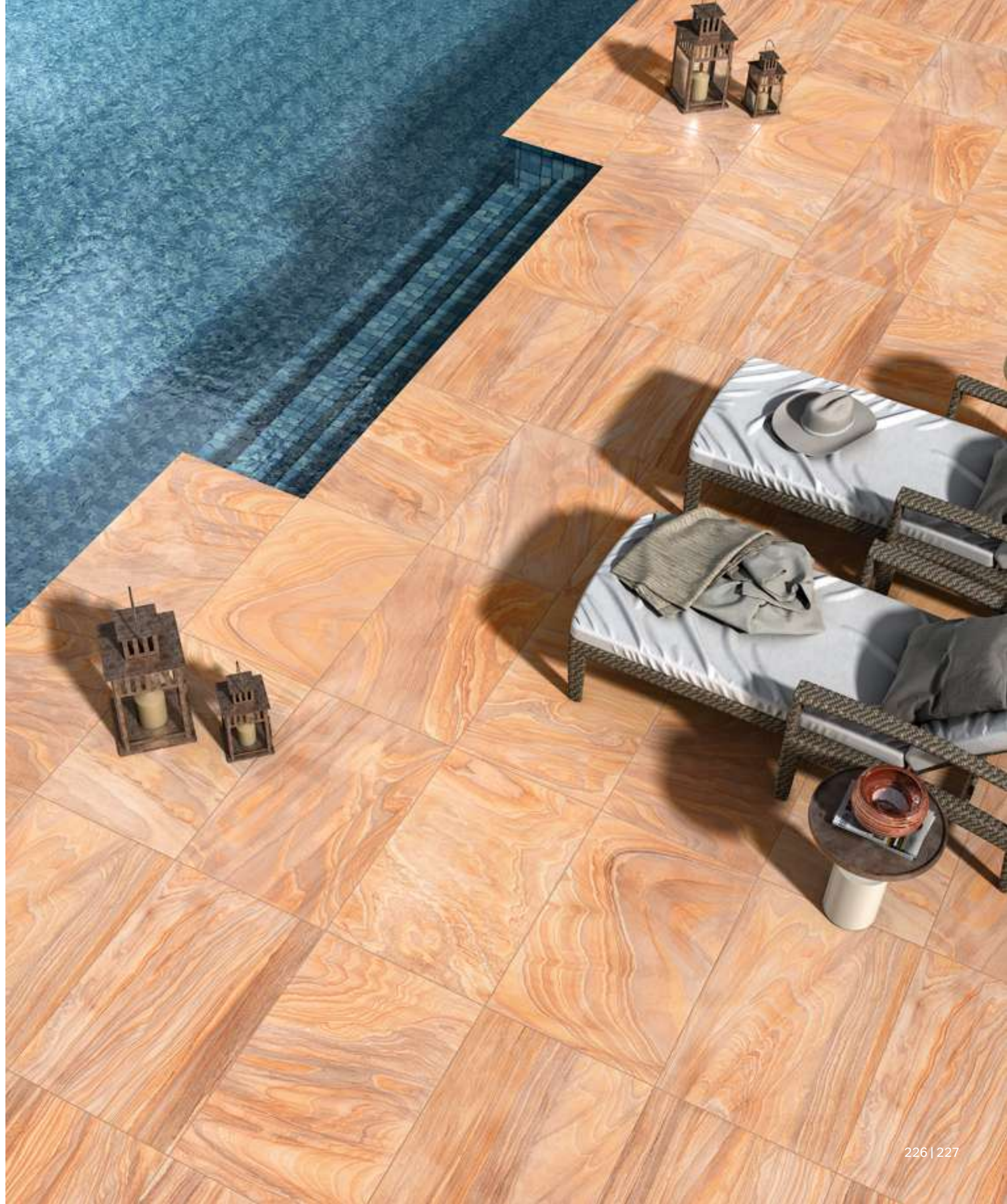


600X900MM



600X600MM

RAINBOW



RAINBOW RANDOM



INDIAN STONE

RAINBOW



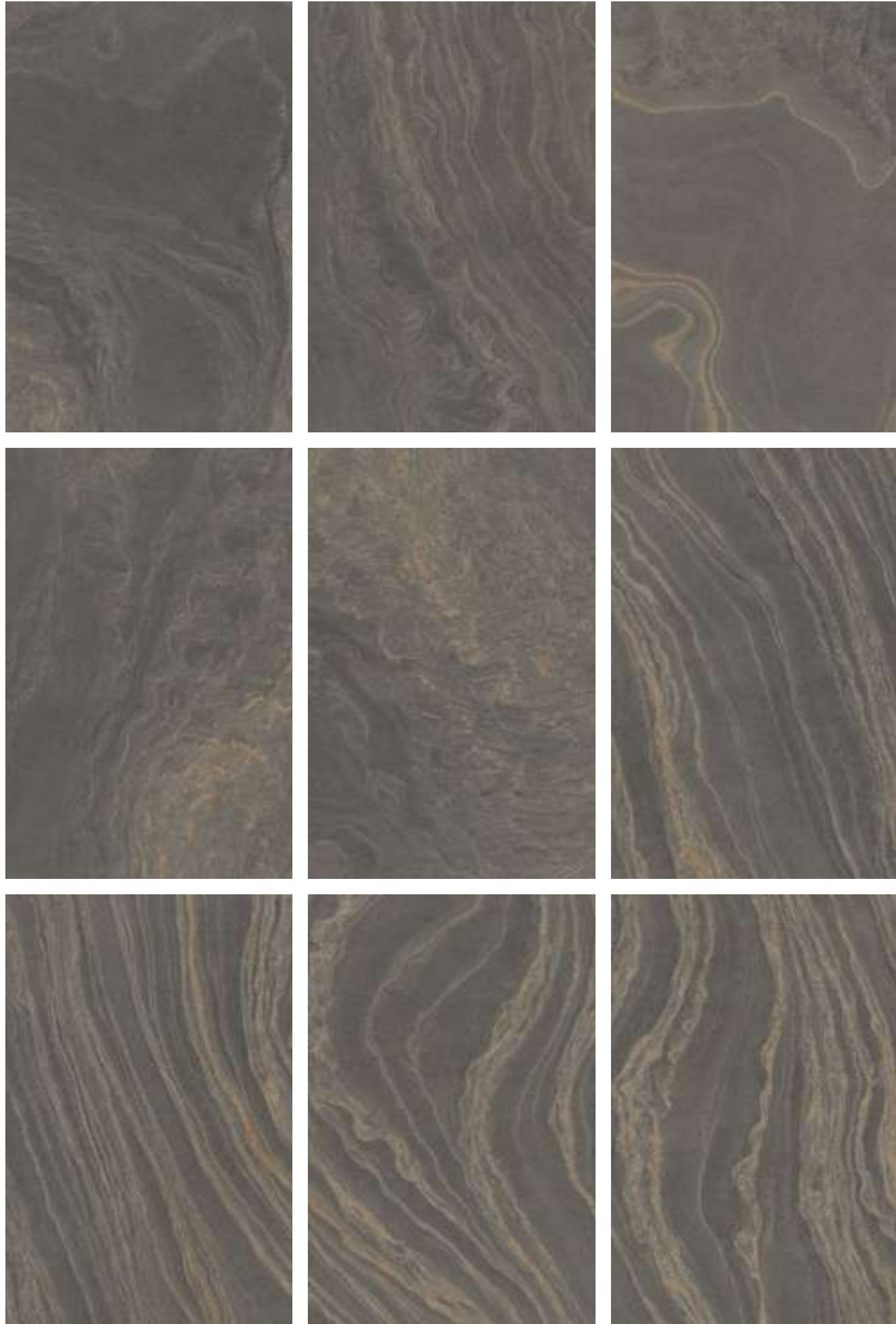
600X900MM



600X600MM



SAGAR BLACK RANDOM



INDIAN STONE

SAGAR BLACK



600X900MM



600X600MM



With Rio Stone, attain the impossible on any surface. Get the effect of a cement surface even on curved areas that too without the disadvantages of cement like surface cracking, discolouring or water seepage.





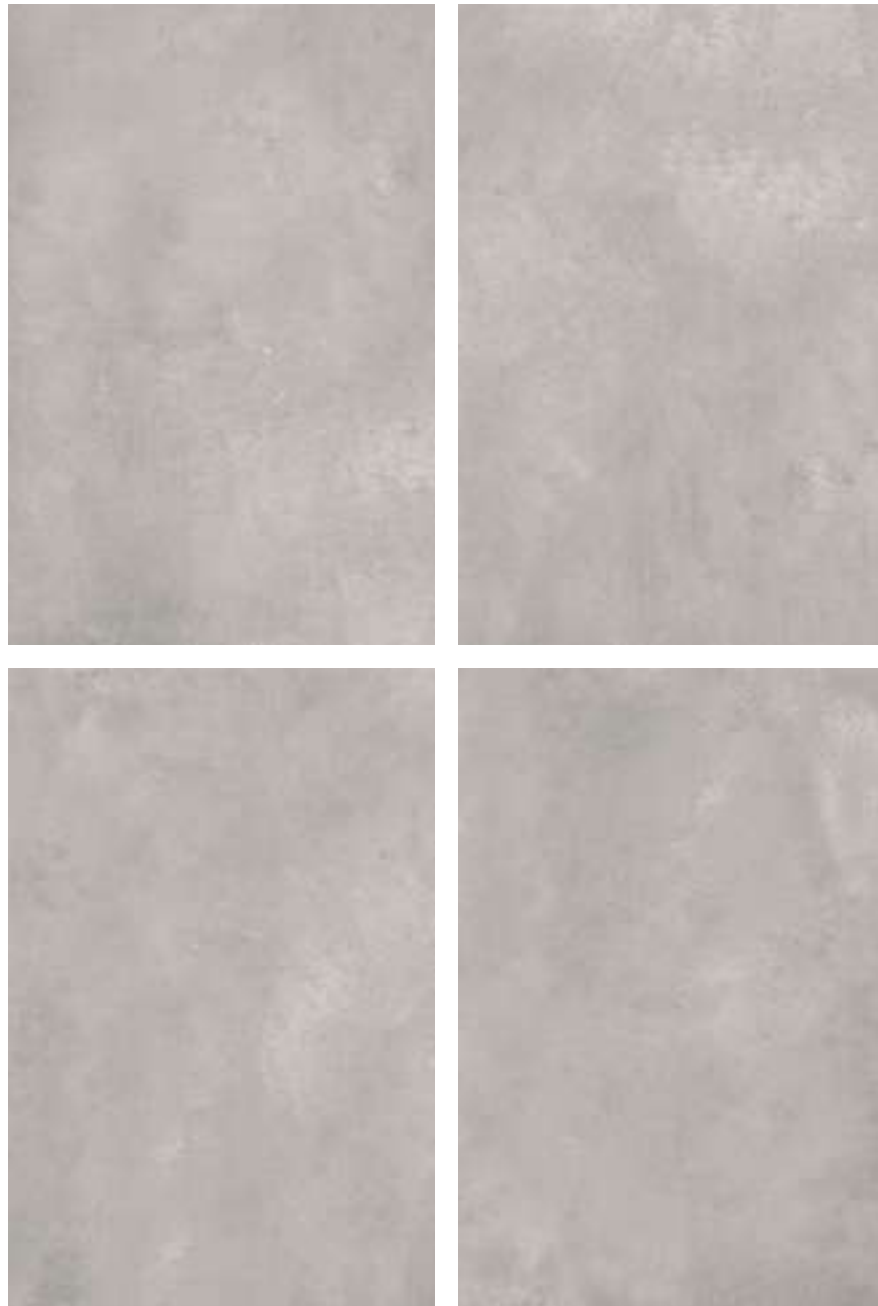


SOUL STONE GREY



SOUL STONE

SOUL STONE GREY RANDOM



SOUL STONE BEIGE



600X900MM

SOUL STONE ASH



600X900MM

SOUL STONE GREY



600X900MM



600X600MM



600X600MM



600X600MM



AREZZO DGY



AREZZO

AREZZO LGY



600X900MM

AREZZO DGY



600X900MM



600X600MM



600X600MM

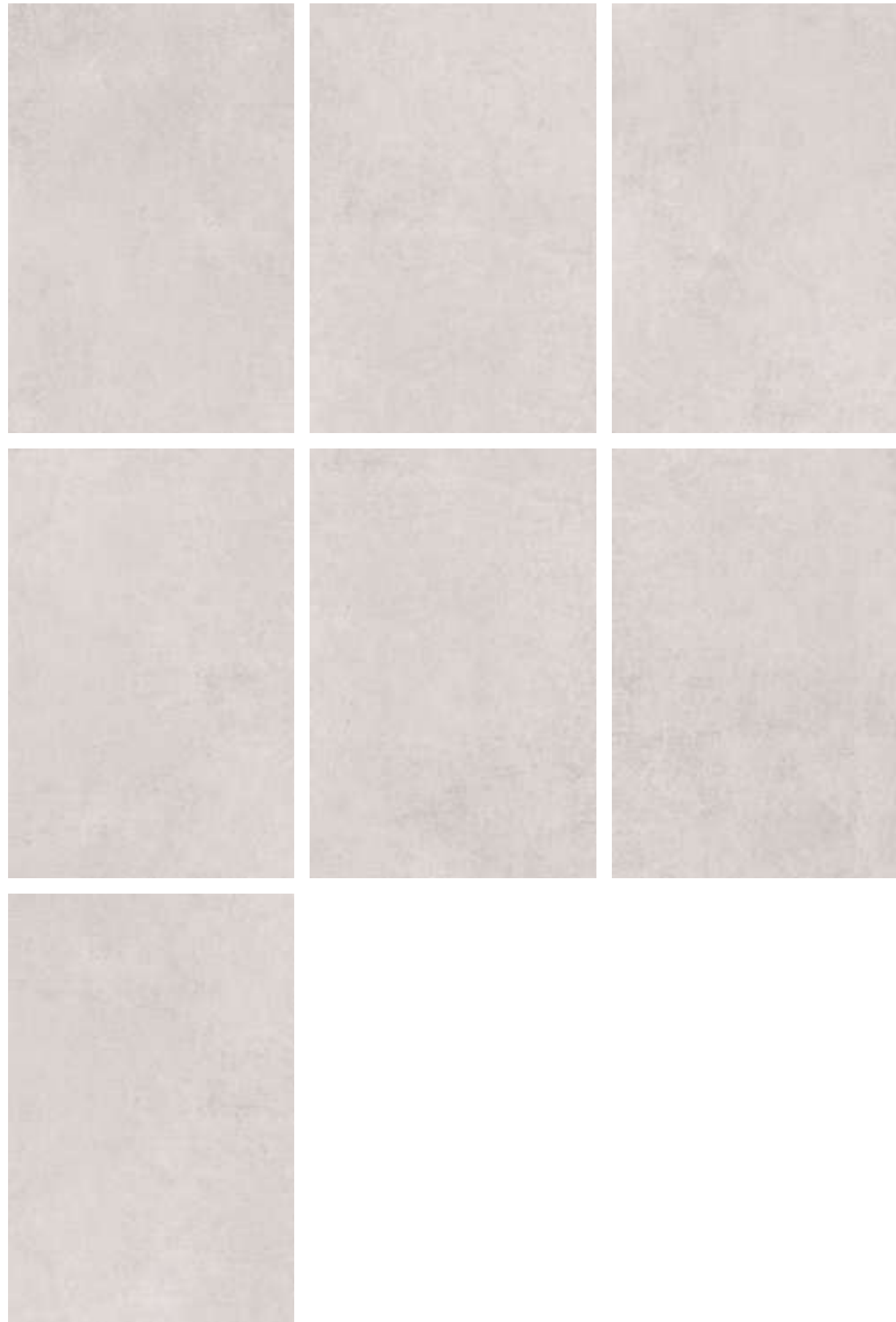


ROCKLAND LGY



ROCKLAND GREY

ROCKLAND LGY RANDOM



ROCKLAND

ROCKLAND BEIGE



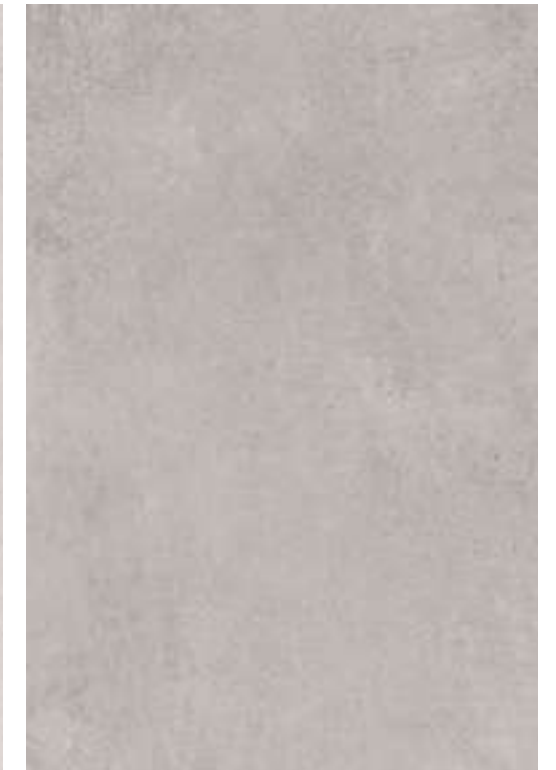
600X900MM

ROCKLAND LGY



600X900MM

ROCKLAND GREY



600X900MM



600X600MM



600X600MM



600X600MM

ASCOT GREY





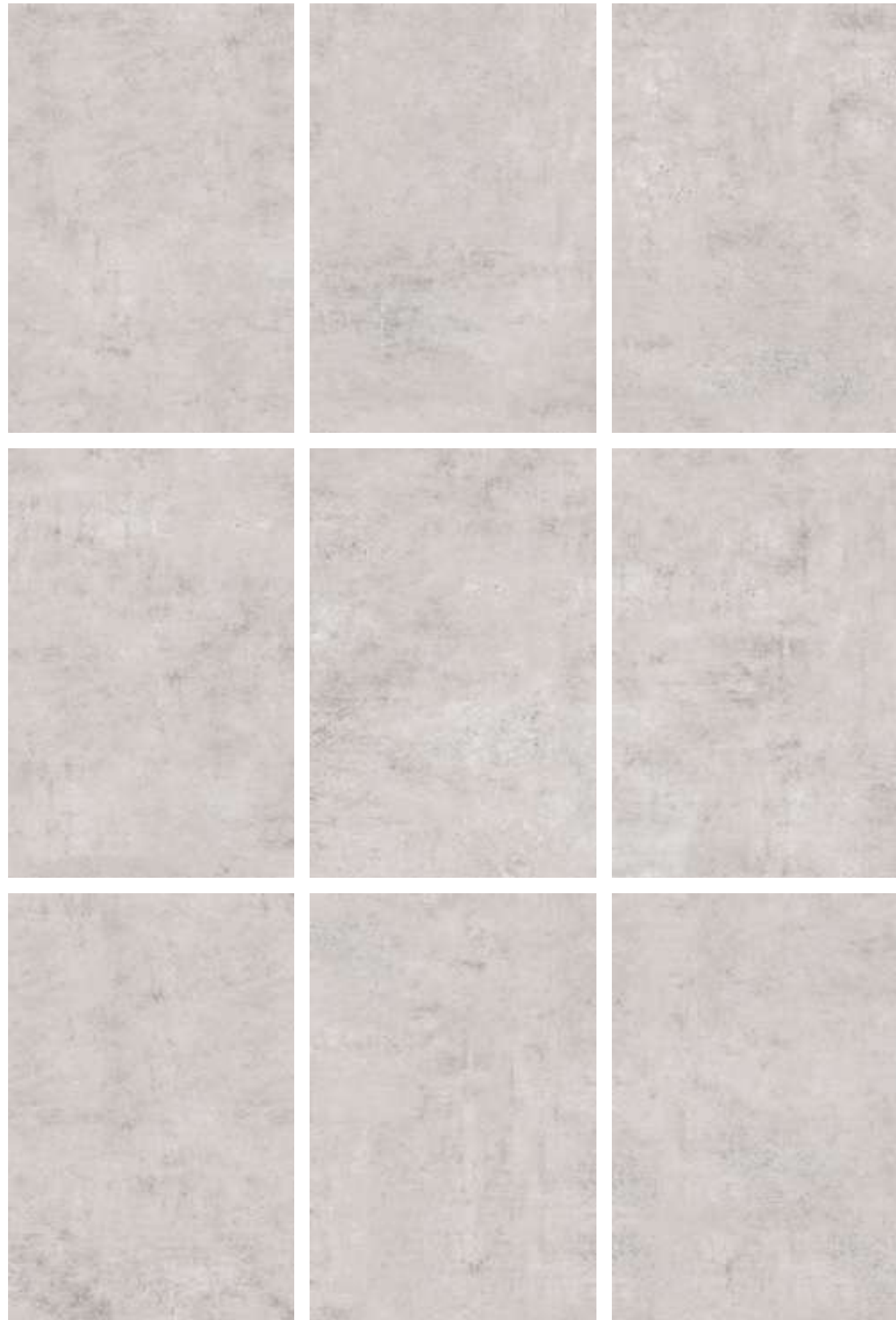


ASCOT LIGHT GREY

ASCOT WHITE



ASCOT WHITE RANDOM



ASCOT

ASCOT WHITE



600X900MM

ASCOT LIGHT GREY



600X900MM

ASCOT GREY



600X900MM



600X600MM



600X600MM



600X600MM

AOSTA GREY





AOSTA WHITE

AOSTA

AOSTA CREMA



600X900MM

AOSTA WHITE



600X900MM

AOSTA GREY



600X900MM



600X600MM



600X600MM



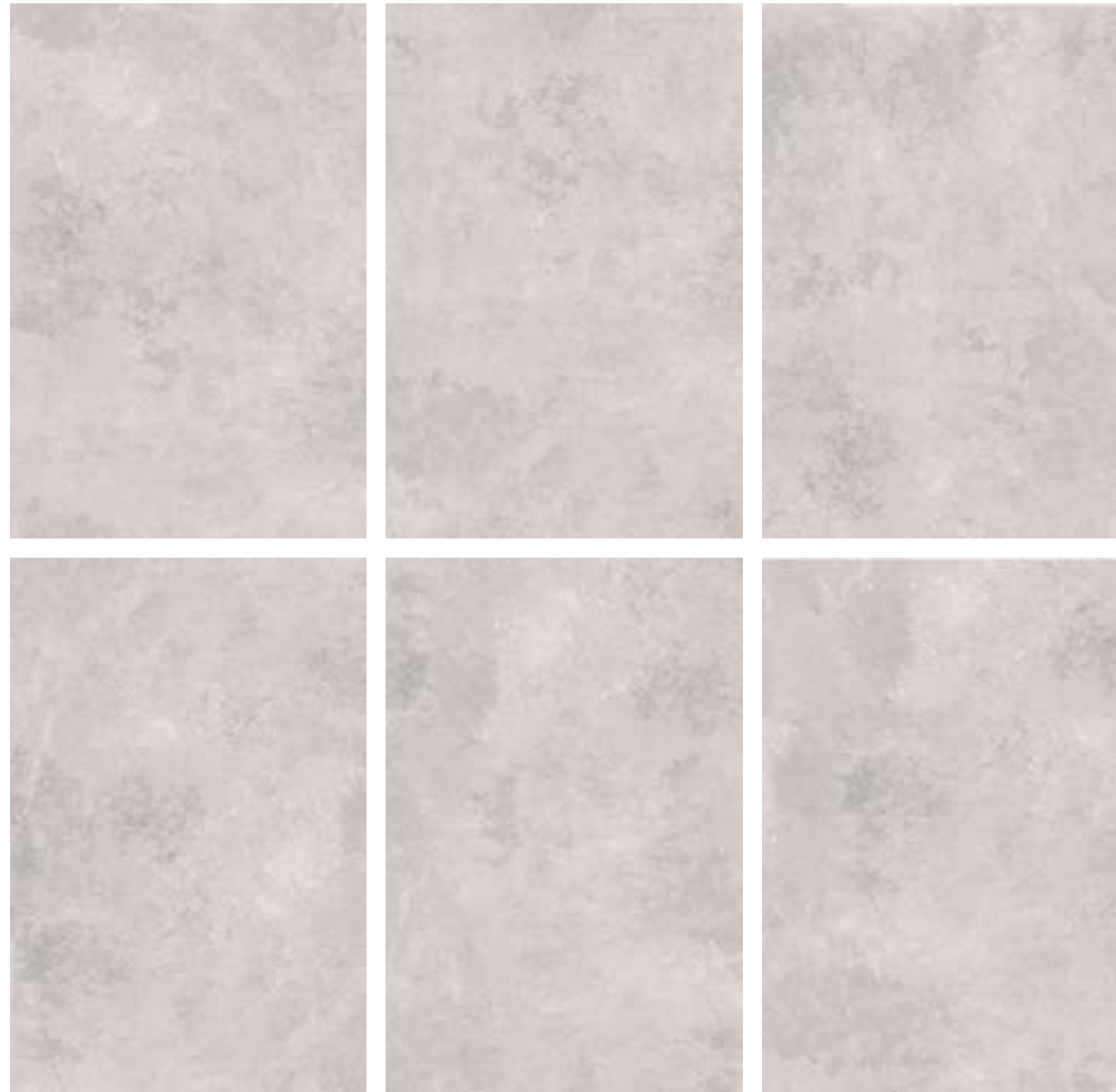
600X600MM

CEMENTINO ASH

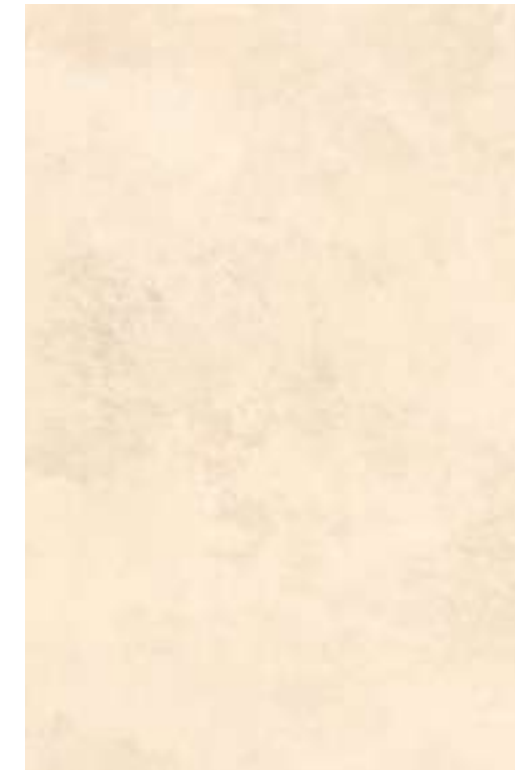


CEMENTINO

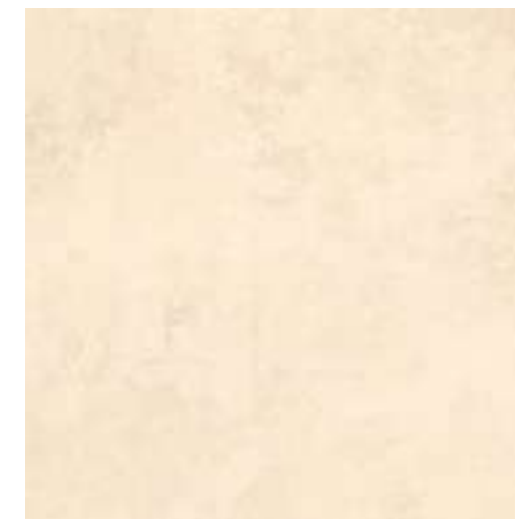
CEMENTINO ASH RANDOM



CEMENTINO BEIGE



600X900MM



600X600MM

CEMENTINO ASH



600X900MM



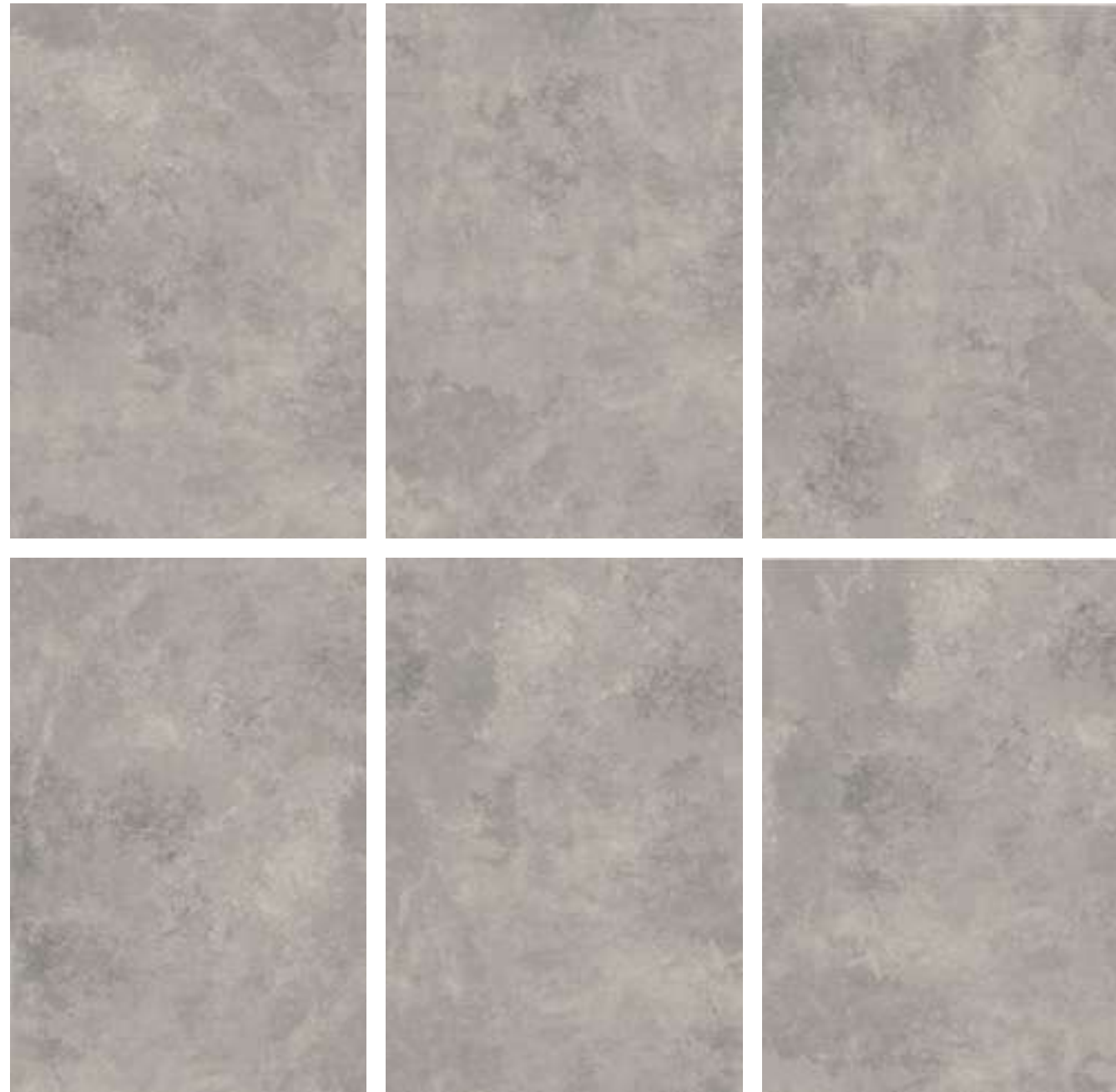
600X600MM



CEMENTINO GREY

CEMENTINO

CEMENTINO GREY RANDOM



CEMENTINO GREY



600X900MM

CEMENTINO NERO



600X900MM



600X600MM



600X600MM



LIME STONE GREY





LIME STONE IVORY

LIME STONE

LIME STONE IVORY



600X900MM

LIME STONE GREY



600X900MM



600X600MM



600X600MM



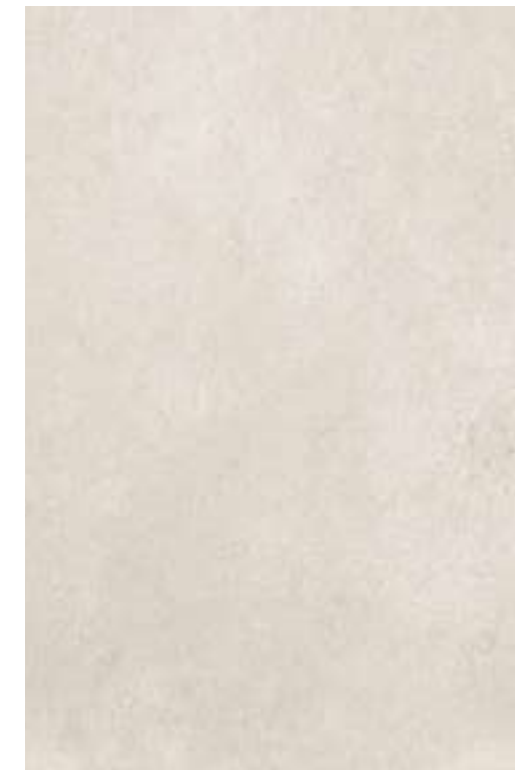
CEMENTRUM GREY



CEMENTRUM BEIGE

CEMENTRUM

CEMENTRUM BEIGE



600X900MM

CEMENTRUM GREY



600X900MM



600X600MM



600X600MM

BRONTE TAUPE

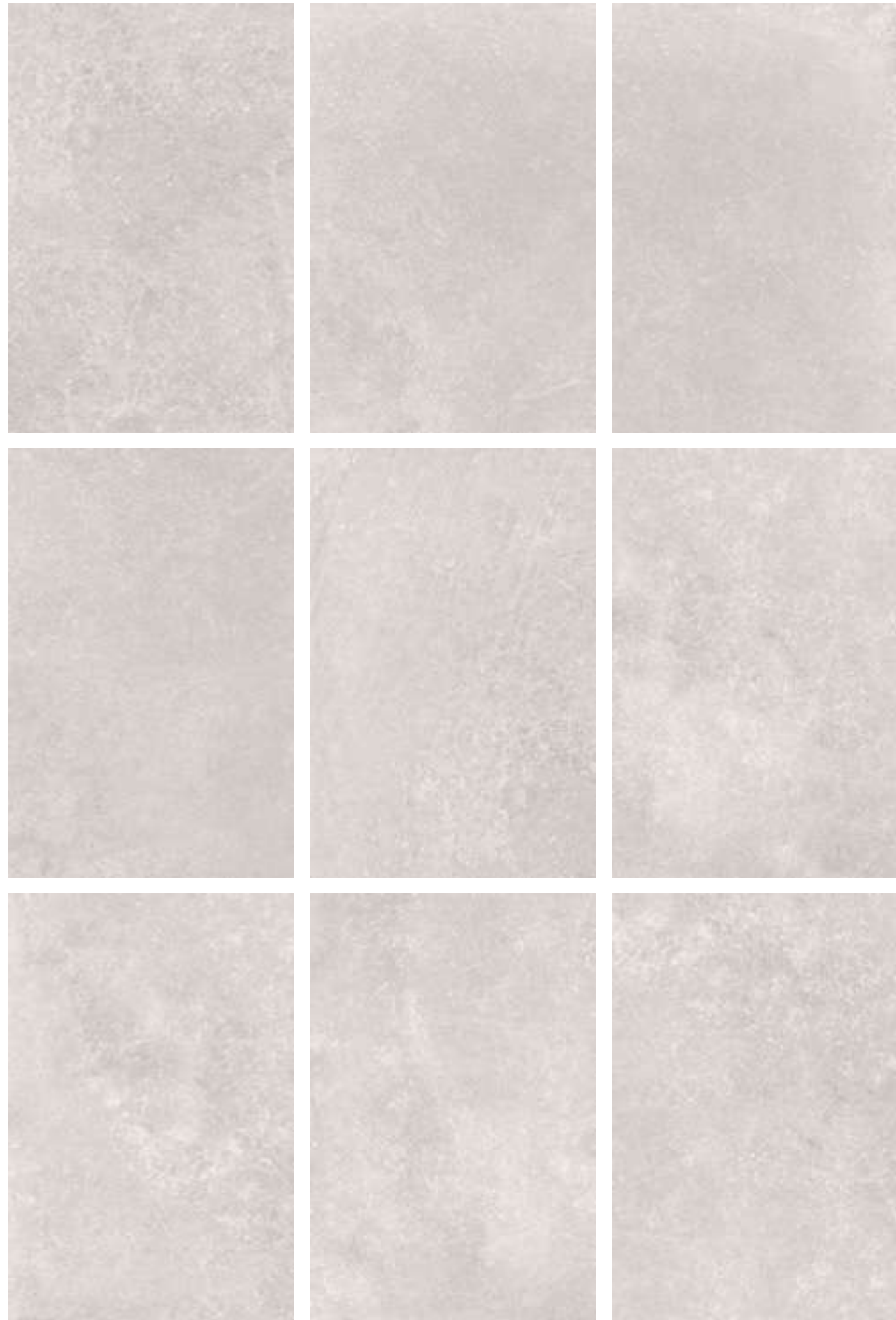
BRONTE TAUPE







BRONTE CREMA RANDOM



BRONTE

BRONTE CREMA



600X900MM

BRONTE TAUPE



600X900MM

BRONTE GREY



600X900MM



600X600MM



600X600MM



600X600MM



# TECHNICAL CHARACTERISTICS

Sr. No:	TEST CONDUCTED	TEST RESULT	TEST REQUIREMENTS AS PER IS 15622 : 2006	REMARK
1	Water absorption (% by mass)	Average : 0.17	-	Based on the results of water absorption the tested tiles conformed to Gr. B Ib (0.08% ≤ 3%) of IS 15622 : 2006, Further test results were delivered as per requirements of Gr. B Ib
2	Modulus Of Rupture (MOR) N/mm <sup>2</sup> Span Length = 580 mm Average thickness of the tiles measured = 19.81 mm	Average : 39.0 N/MM <sup>2</sup>	(Gr. B Ia) Average 38 N/mm <sup>2</sup> Individual 35 N/mm <sup>2</sup> Minimum	Passed the test
3	Breaking Strength (N) Span Length = 580 mm Average thickness of the tiles measured = 19.81 mm	Average : 8090.0 N	(Gr. B Ia) For thickness > 7.5 mm 1200 N minimum	Passed the test
4	Scratch Hardness Surface (Mohs' scale)	No. 7	(Gr. B Ia) For commercial application 6 minimum, Home application 5 minimum	Passed the test
5	Thermal Shock Resistance	None of the tiles as tested showed any defects on surface at the end of the 10th cycle.	(Gr. B Ia) Tiles specimens should not show any visible defect when subjected to thermal shock resistance test as per test method IS 13630 : 2006 (Part 5) with immersion	Passed the test
6	Bulk Density (gm/cc)	Average : 2.302	IS 13630 (Part 2) : 2006	
7	Co-efficient of Thermal Expansion from ambient Temperature to 100oC	L = 4.4956 (10 <sup>6</sup> K <sup>-1</sup> ) B = 4.6883 (10 <sup>9</sup> K <sup>-1</sup> )	-	Passed the test
8	Straightness of Sides (facial sides) The maximum deviation from straightness in percent related to the corresponding work sizes	± 0.05 % (Max) ± 0.08 % (Max)	(Gr. B Ia) S > 410 cm <sup>2</sup> ± 0.1 %	Passed the test
9	Rectangularity The maximum deviation from straightness in percent related to the corresponding work sizes	± 0.10 % (Max) ± 0.10 % (Max)	± 0.1 %	Passed the test
10	Surface Flatness The maximum deviation from flatness in percent (a) Centre of curvature related to diagonal calculated from work size. (b) Edge of curvature related to the corresponding work size (c) Warpage related to the diagonal calculated from the Work Size	± 0.17 % (Max) + 0.10 % (Max) ± 0.14 % (Max) ± 0.09 % (Max) ± 0.06 % (Max)	± 0.2 % ± 0.2 % ± 0.2 %	Passed the test Passed the test Passed the test
11	Chemical resistance  Five test specimens were treated with following solns. (a) Centre of curvature related to diagonal calculated from work size. (b) Edge of curvature related to the corresponding work size (c) Warpage related to the diagonal calculated from the Work Size  Five test specimens were treated with following solns. <b>1. Household Chemicals</b> a) Ammonium Chloride soln. (100 gm/l) b) Standard cleaning Agent soln., (as per procedure) <b>2. Swimming pool salts</b> a) Sodium Hypochlorite Soln. (20 mg / l) b) Copper Sulphate Soln. (20 mg / l) <b>3. Acids</b> a) Hydrochloric acid Soln. 3 % (v/v) b) Citric acid Soln. (200 mg / l) <b>4. Alkali</b> Potassium hydroxide soln., (200 mg / l)	± 0.17 % (Max) ± 0.10 % (Max) ± 0.14 % (Max) ± 0.09 % (Max) ± 0.06 % (Max)  No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	± 0.2 % ± 0.2 % ± 0.2 %  " Class - AA " min. " Class - AA " min. " Class - AA " min. " Class - AA " min.  Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA"	Passed the test Passed the test Passed the test  Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA" Conformed to "Class-AA"

Sr. No:	TEST CONDUCTED	TEST RESULT	TEST REQUIREMENTS AS PER IS 15622 : 2006	REMARK
12	Skid Resistance / Surface Slip Resistance  (a) Condi Tile Surface was cleaned thoroughly be wet cloth followed by dry cloth and ensured that the surface is completely clean and dryt the  b) Direction of Test 1) Parallel to sides (4 Measurements)  2) Diagonal to sides (4 Measurements)	Coefficient of friction μ 1) 0.83 2) 0.78 3) 0.77 4) 0.79  5) 0.76 6) 0.75 7) 0.76 8) 0.76	As per ISO 10545 Part - 17	-
13	Moisture expansion in(mm / mtr.)	0.00	-	Passed the test
14	Skid Resistance/ Surface Slip Resistance BS EN Standard specification EN:14411 :2016 ( Group Bla)		R-11	R-11

## PACKING DETAILS (OUTDOOR)

SIZE	WEIGHT / BOX (KG)	PCS / BOX	BOXES / PALLATE	PALLATE / CTN	BOXES / CTN	MT2 / BOX	MT2 / PALLATE	MT2 / CTN	WEIGHT / CTN (KG)
600X900mm (20mm)	23.75	1	42	27	1134	0.54	22.68	612.36	27750
600x600mm (20mm)	32	2	32	26	832	0.72	23.04	599.04	27404

## PACKING DETAILS (PATIOPACK)

SIZE	PCS/ CRAT	MT2/ PCS	MT2/ CRAT (EACH SIZE)	MT <sup>2</sup> / CRAT	CRAT / CTN	MT2/ CTN	WEIGHT / CTN (Kg)
600X900mm (20mm)	13	0.54	7.02	14.85	40	594	27750
600x600mm (20mm)	13	0.36	4.68				
600x296mm (20mm)	13	0.18	2.34				
296x296mm (20mm)	9	0.09	0.81				

BOX DESIGN	STANDARD SAFEDA PALLATE	FUMIGATION STAMP
 <p>600x600mm</p>	  <p>1193.80x749.30mm</p>	 <p>IN-533 MB</p>
 <p>600x900mm</p>	  <p>1003.30x749.30mm</p>	 <p>IN-533 MB</p>

