

# GIRGRES

porcelain pavers

20MM   
OUTDOOR  
PORCELAIN TILES



# 20MM OUTDOOR

20MM  —



# INDEX

20MM  OUTDOOR

20MM



5

SIZES

40

SERIES

121

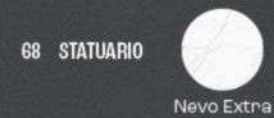
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## CEMENT



## MARBLE



## STONE



## STONE





# INTRODUCTION

ENDURING ELEGANCE:  
TIMELESS BEAUTY,  
SEASON AFTER SEASON



ANTI-SLIP CTE3/R11  
SOFTER TEXTURE



LOW MAINTENANCE,  
HIGH IMPACT:  
A WINNING COMBINATION





RESIDENTIAL  
AND COMMERCIAL



RESIDENCE AREA



GARDENS



STAIRS



TERRACES



WALLS



PATIOS



POOLS

8  
9



PUBLIC AREA



INDUSTRIAL AREAS



OUTDOOR RESTAURANTS



SEASIDE AREAS



PUBLIC OUTDOOR AREAS



PUBLIC POOLS



RESIDENTIAL AREAS





INDOOR AND OUTDOOR



# ADVANTAGES



EASY INSTALATION



SCRATCH RESISTANT



FADE RESISTANT



EASY TO CLEAN



ANTI-SLIP



FROST PROOF



RESISTANT TO SALTS



RESISTANT TO MOSS AND MOLDING



EASY TO REPLACE



RESISTANT TO ACID AND CHEMICALS



ECO FRIENDLY



RESISTANT TO LIGHT TRAFFIC



STAIN RESISTANT



NO SEALING NEEDED



LOW MAINTENANCE COST



RESISTANT TO THERMAL SHOCK



# LAYING INSTALLATION SOLUTIONS



## TRADITIONAL LAYING SYSTEM

### HOW TO INSTALL ON SCREED

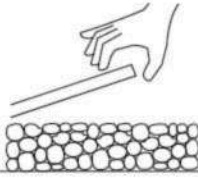
- Dig up and compact the ground
  - Place a layer of crushed stone and gravel.
  - Place the slab including optional steel mesh.
- Install 20MM using an exterior-rated elastic adhesive. Leave a joint of at least 2 mm and foresee the expansion joints.



## SAND LAYING SYSTEM

### INSTALLATION ON SAND CAN BE DONE IN TWO WAYS

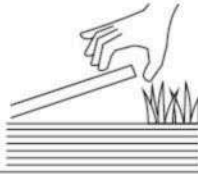
- 1. ON SUBSTRATE, TO IMPROVE STABILITY OVERTIME**
  - Dig 20 cm into the sandy ground. Position and compacta crushed stone or gravel layer (Granulometry 4-8 mm) Add a 2 cm sand layer Dry lay Rio Stone 20MM.
- 2. DIRECT**
  - Level and compact the sand
  - Dry lay Rio Stone 20MM



## GRAVEL LAYING SYSTEM

### 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.

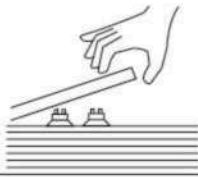


## GRASS LAYING SYSTEM

### INSTALLATION ON GRASS CAN BE ACCOMPLISHED IN TWO WAYS

- 1. 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
- 2. 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.

14  
15



## RAISED LAYING SYSTEM

### 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.





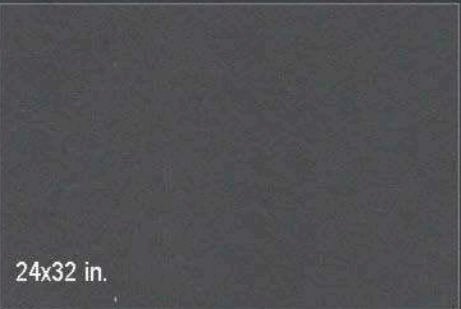
## SIZES



24x24 in.



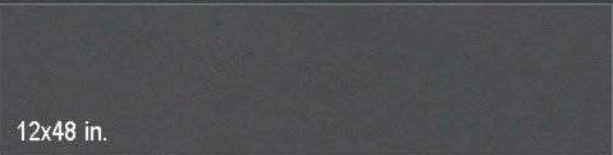
32x32 in.



24x32 in.



24x48 in.



12x48 in.



# Cement *Collection*

In the realm of exterior design, tiles with a seamless nature stand as a testament to the pursuit of visual harmony and uninterrupted beauty. Meticulously crafted to create a continuous and unbroken visual flow across surfaces, these tiles redefine the aesthetics of a space, fostering an atmosphere of elegance and sophistication.

20MM  OUTDOOR PORCELAIN



18  
19

simola.in | piostone.in



# ROCKLAND



Rockland Beige 24x36 in.



## COLORS



Rockland Lgy 24x36 in.



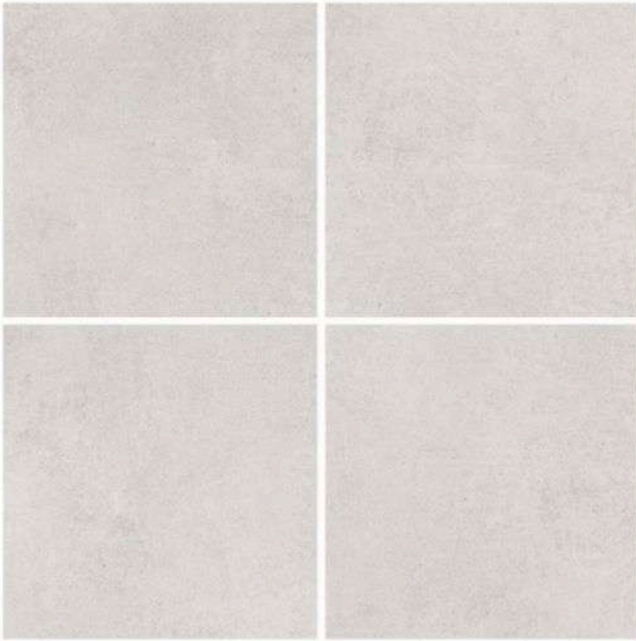
Lgy



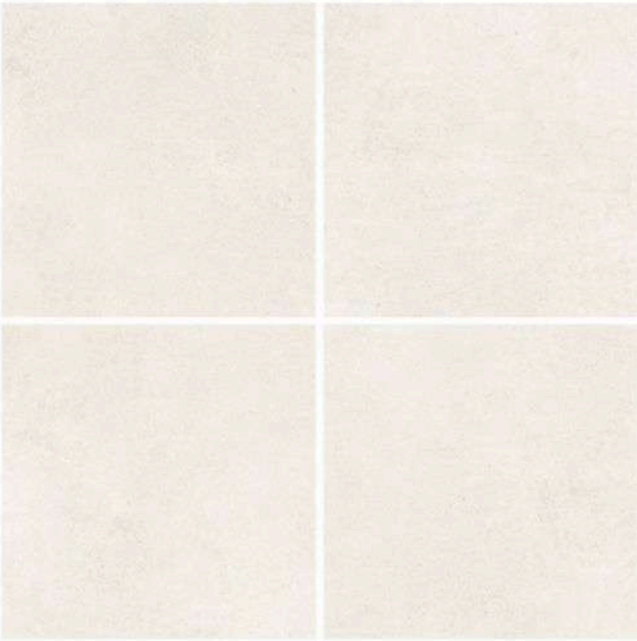


ROCKLAND

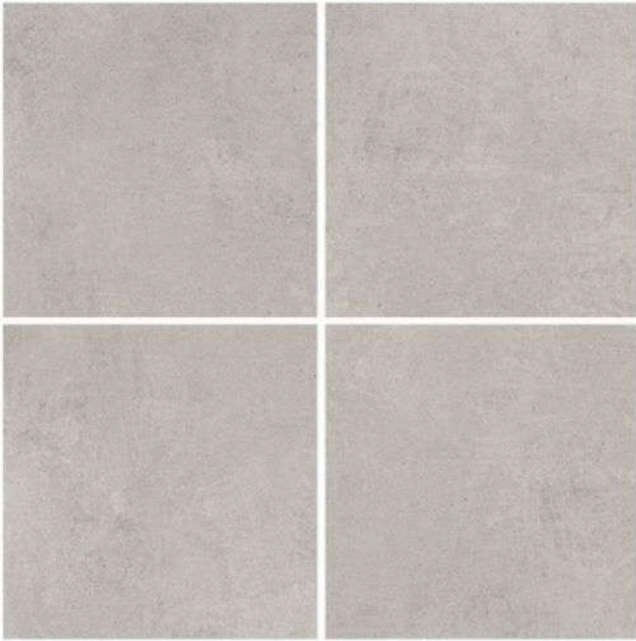
Lgy 24x24 in.



Beige 24x24 in.



Grey 24x24 in.



Rockland Lgy 24x24 in.



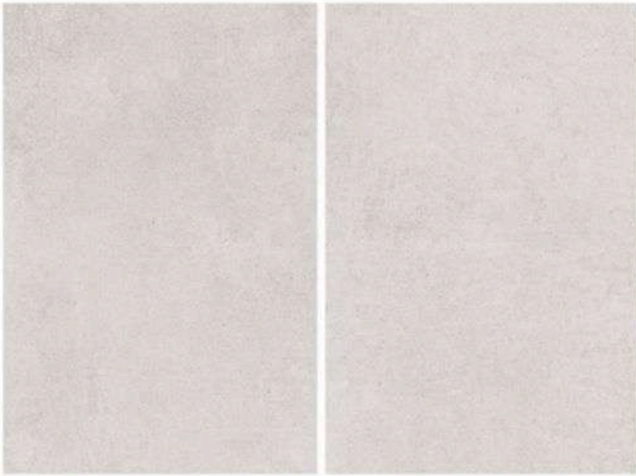
Rockland Grey 24x24 in.



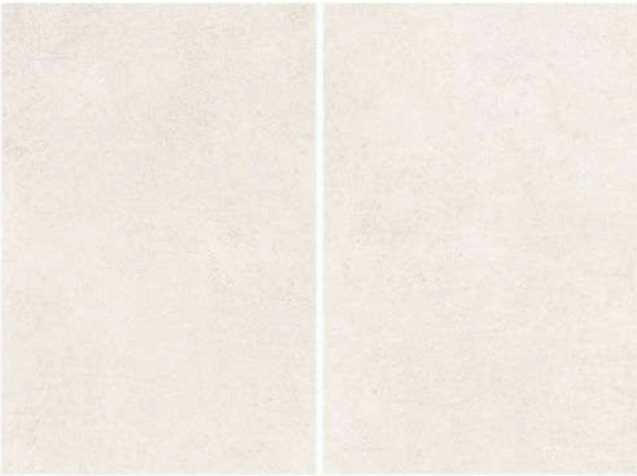


ROCKLAND

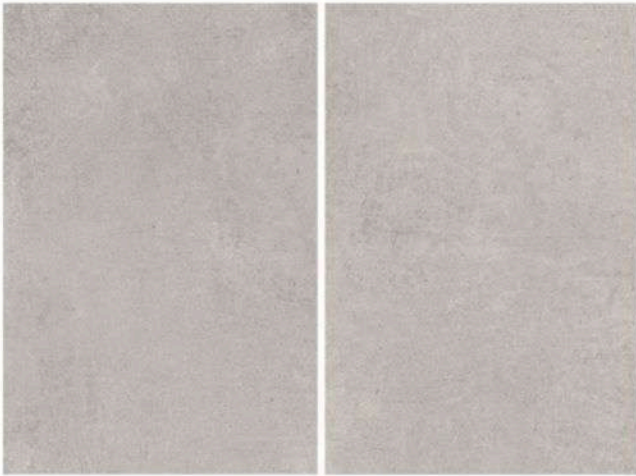
Lgy 24x36 in



Beige 24x36 in



Grey 24x36 in



Rockland Lgy 24x36 in



Rockland Grey 24x36 in





# STATION



Station Bianco 24x36 in.



## COLORS



Station Caffee 24x36 in.



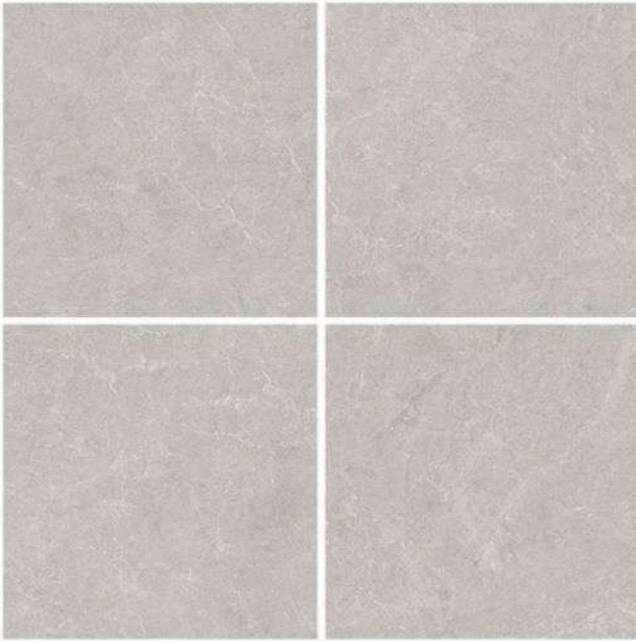
Caffee



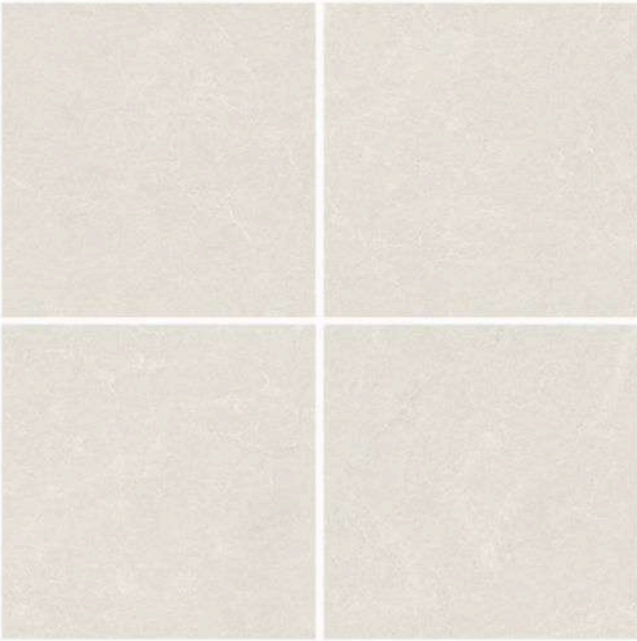


STATION

Grey 24x24 in



Bianco 24x24 in



Caffee 24x24 in



Station Grey 24x24 in



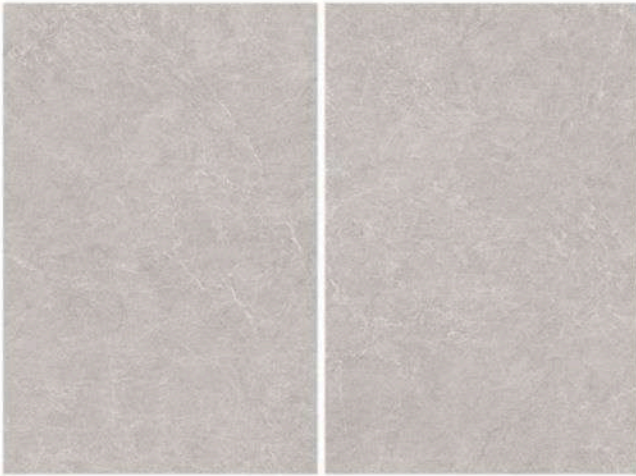
Station Caffee 24x24 in



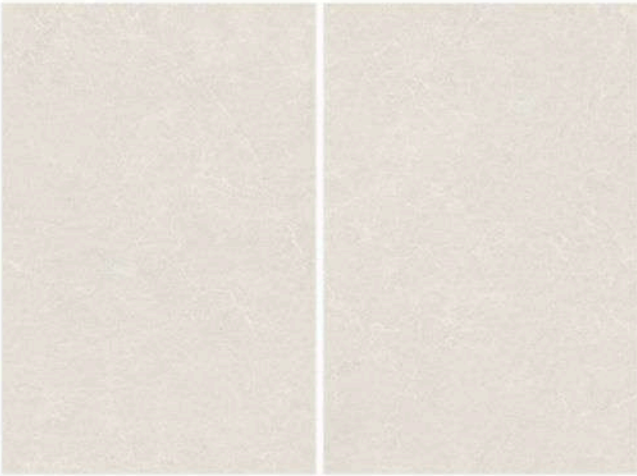


STATION

Grey 24x36 in.



Bianco 24x36 in.



Caffee 24x36 in.



Station Grey 24x36 in.



Station Caffee 24x36 in.





# ADIRA



Adira Caffee 24x36 in.



## COLORS



Adira Beige 24x36 in.



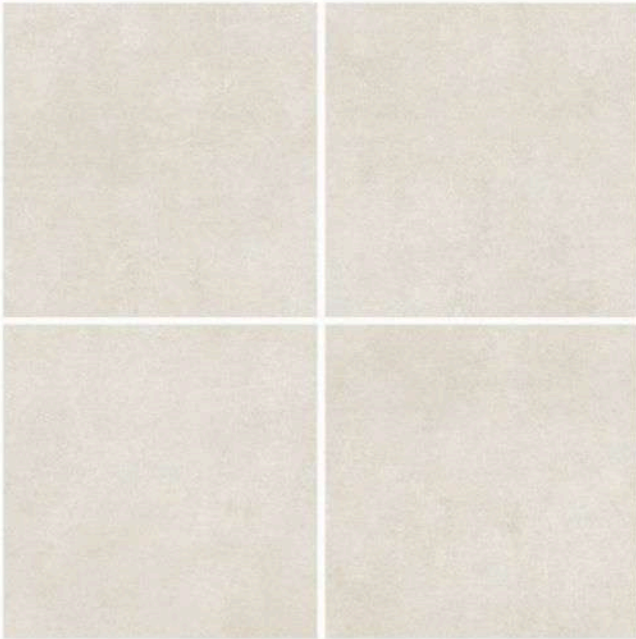
Beige



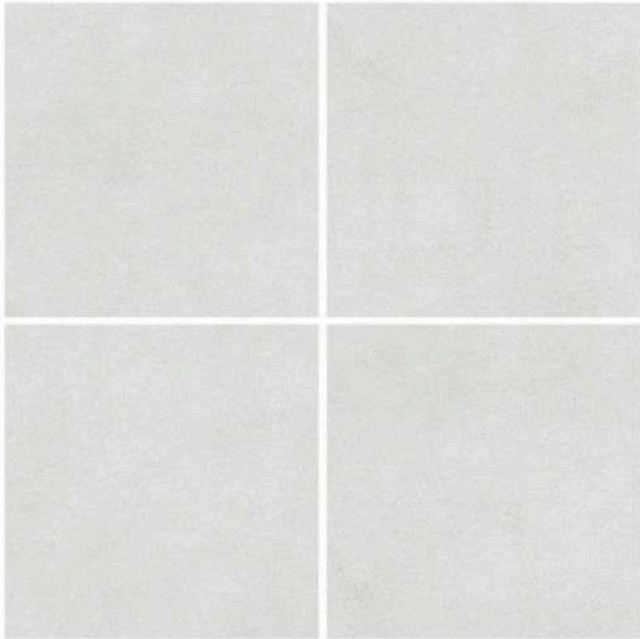


ADIRA

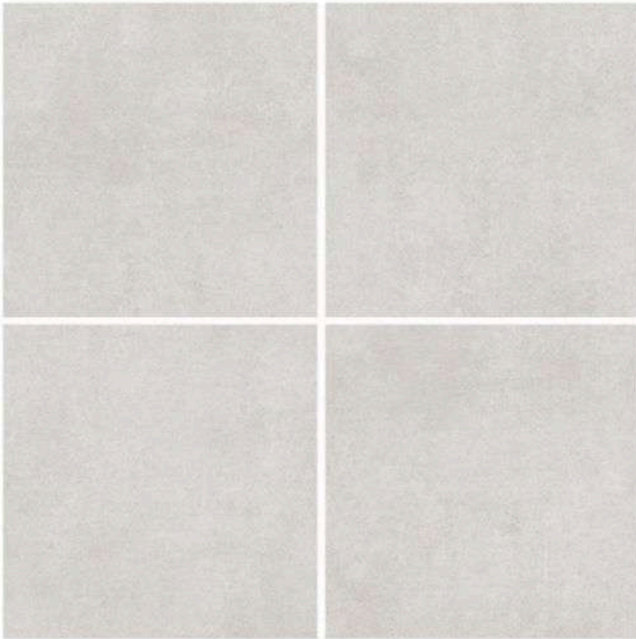
Beige 24x24 in.



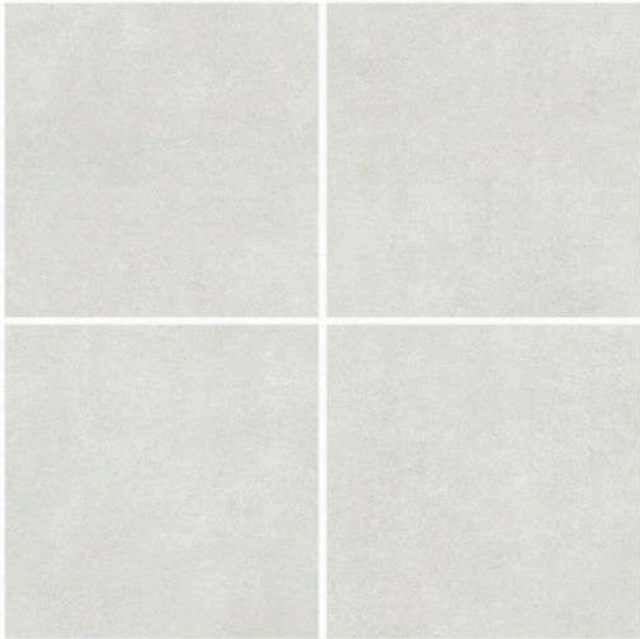
Silver 24x24 in.



Caffee 24x24 in.



Verde 24x24 in.



Adira Beige 24x24 in.



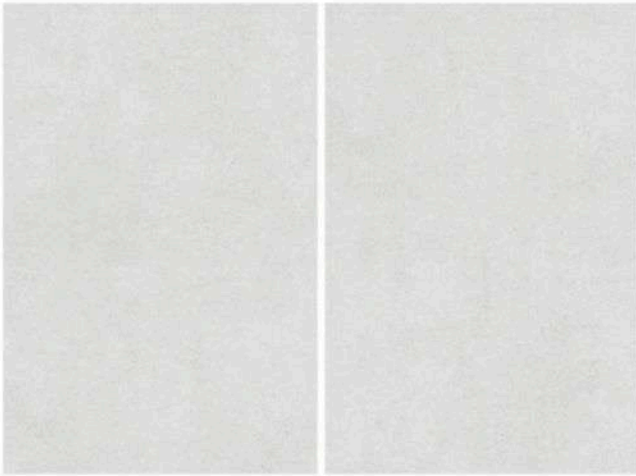
Adira Caffee 24x24 in.



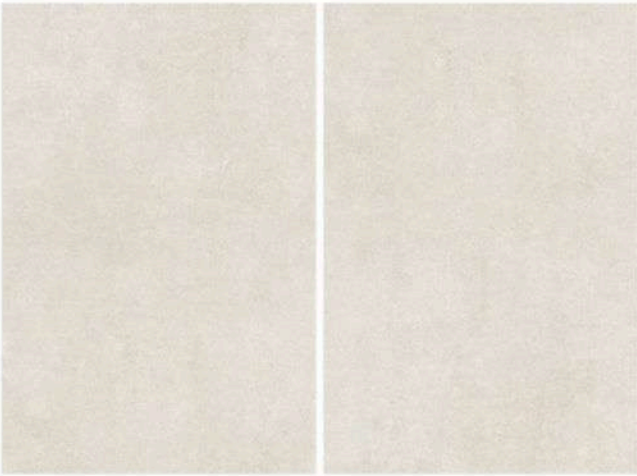


ADIRA

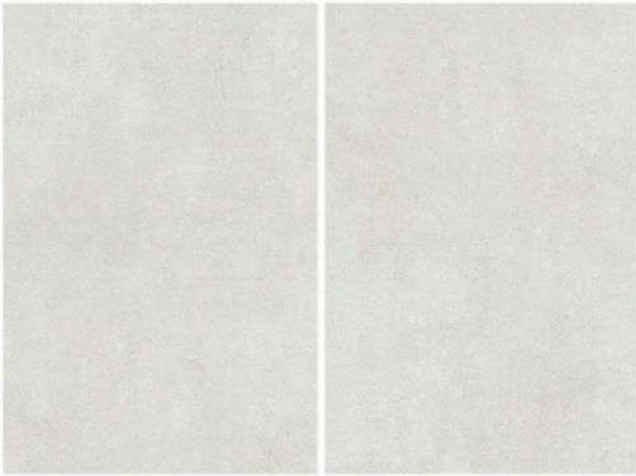
Siver 24x36 in.



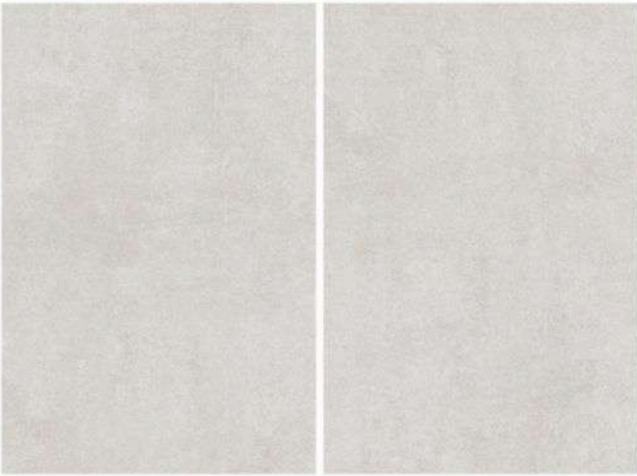
Beige 24x36 in.



Verde 24x36 in.



Caffee 24x36 in.



Adira Silver 24x36 in.



Adira Verde 24x36 in.





# SOULSTONE



Soulstone Ash 24x24 in. / 24x36 in.



## COLORS



Soulstone Grey 24x36 in.



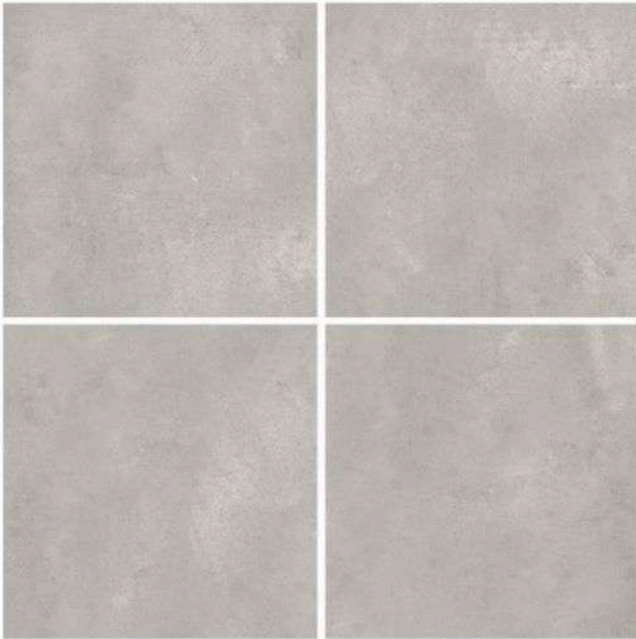
Grey



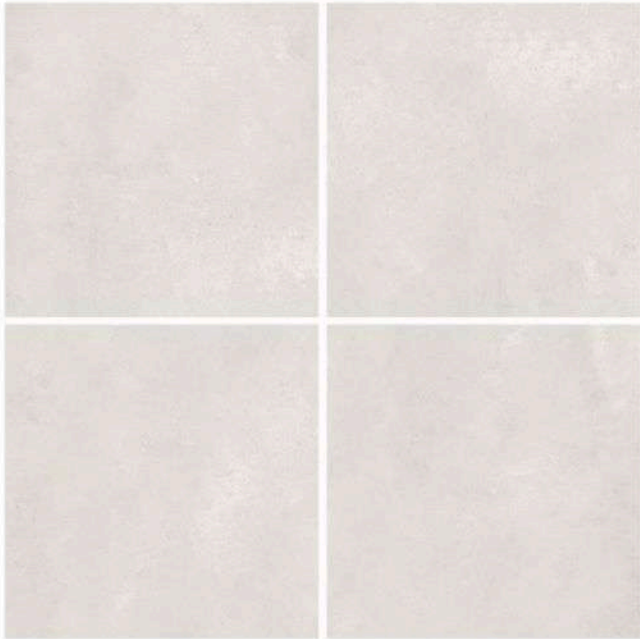


SOULSTONE

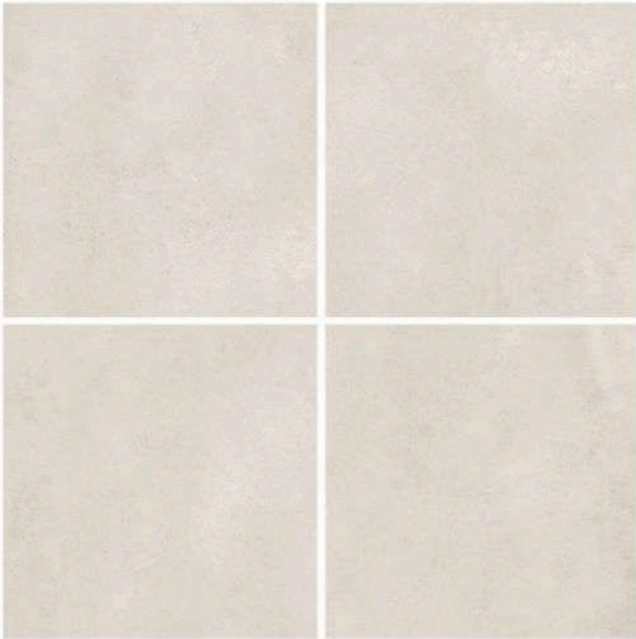
Grey 24x24 in.



Ash 24x24 in.



Beige 24x24 in.



Soulstone Grey 24x24 in.



Soulstone Beige 24x24 in.



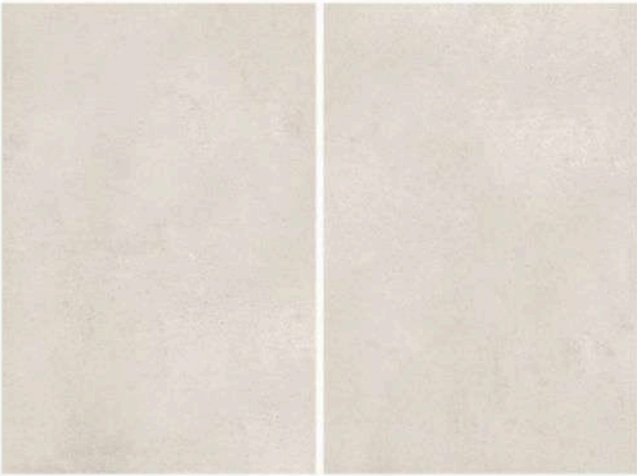


SOULSTONE

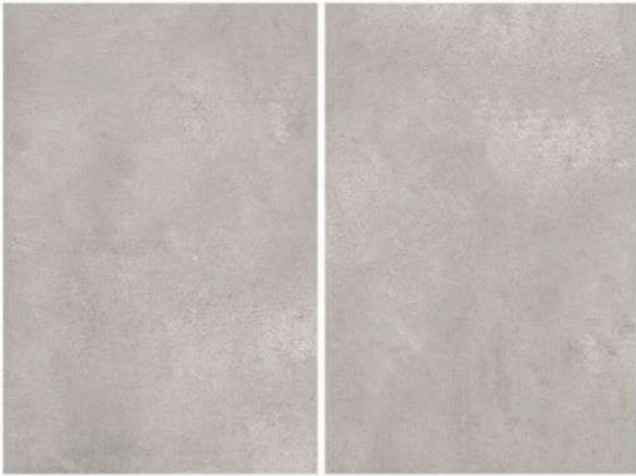
Ash 24x36 in.



Beige 24x36 in.



Grey 24x36 in.



Soulstone Ash 24x36 in.



Soulstone Grey 24x36 in.





# LIMESTONE



Limestone Ivory 24x36 in.



## COLORS



Limestone Grey 24x36 in.



Grey





LIMESTONE

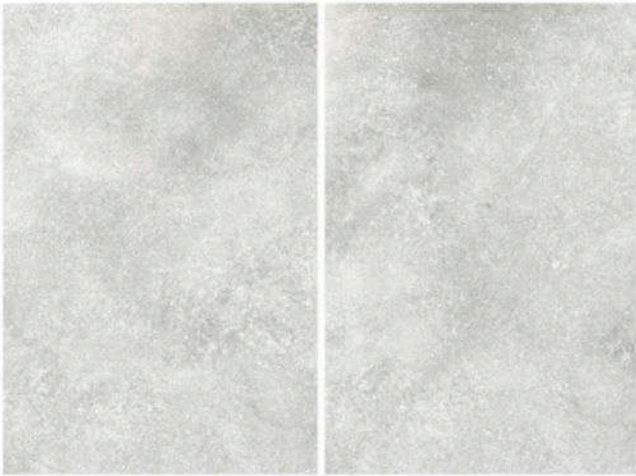
Ivory 24x24 in.



Grey 24x24 in.



Grey 24x36 in.



Ivory 24x36 in.



Limestone Ivory 24x24 in.



Limestone Grey 24x36 in.





# CEMENTINO



Cementino Ash 24x36 in.



## COLORS



Cementino Grey 24x36 in.



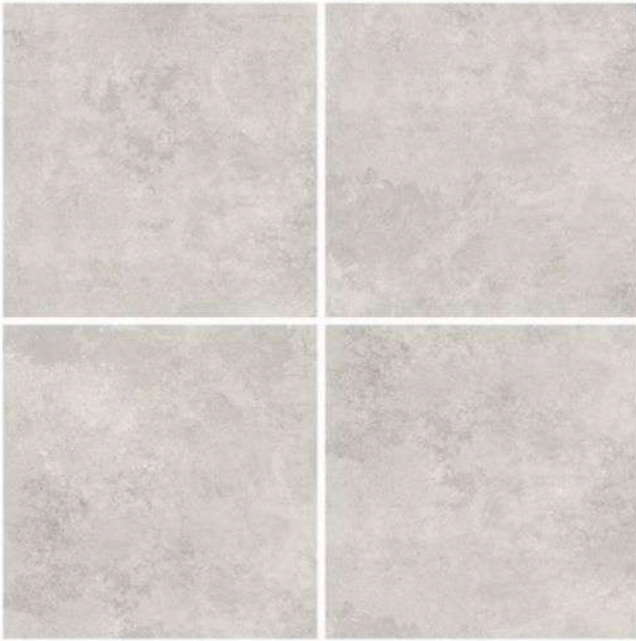
Grey



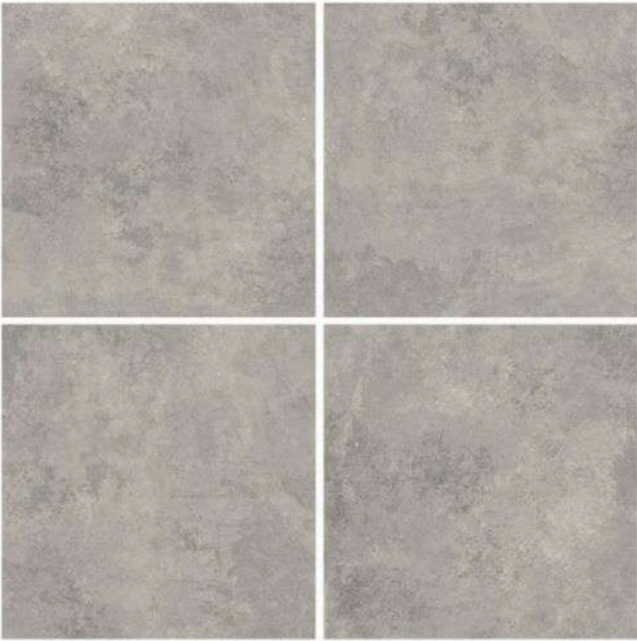


CEMENTINO

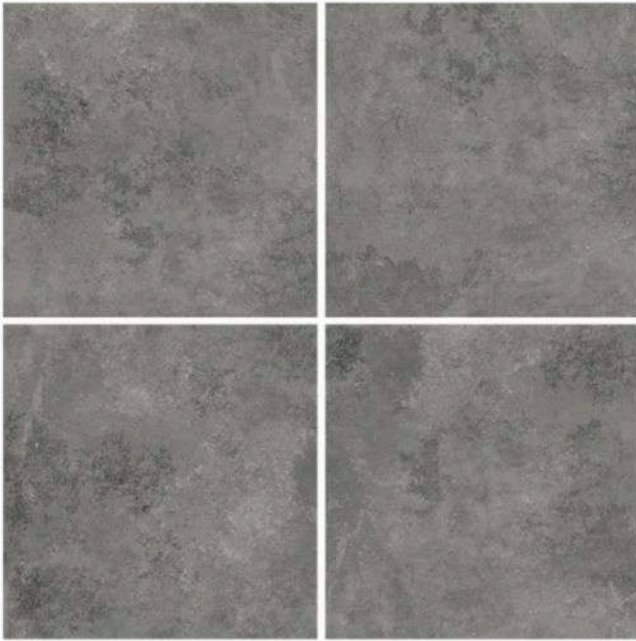
Ash 24x24 in.



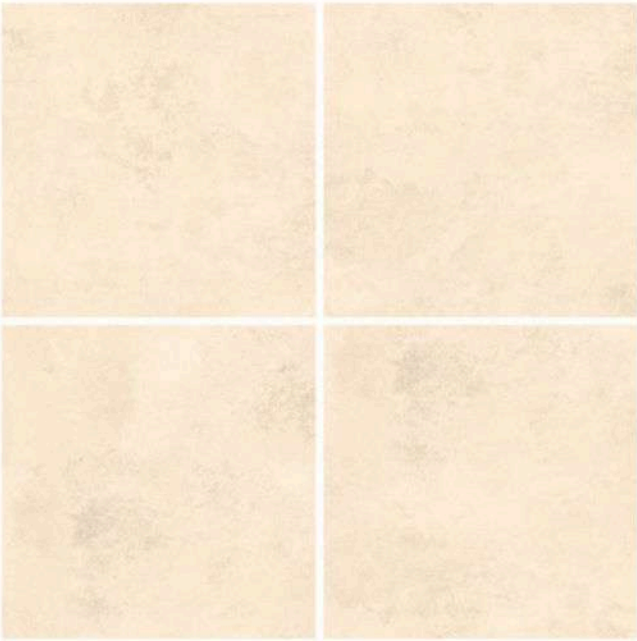
Grey 24x24 in.



Nero 24x24 in.



Beige 24x24 in.



Cementino Ash 24x24 in.



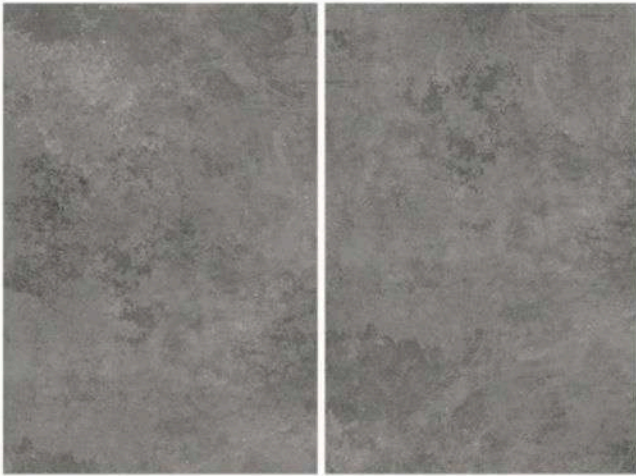
Cementino Nero 24x24 in.



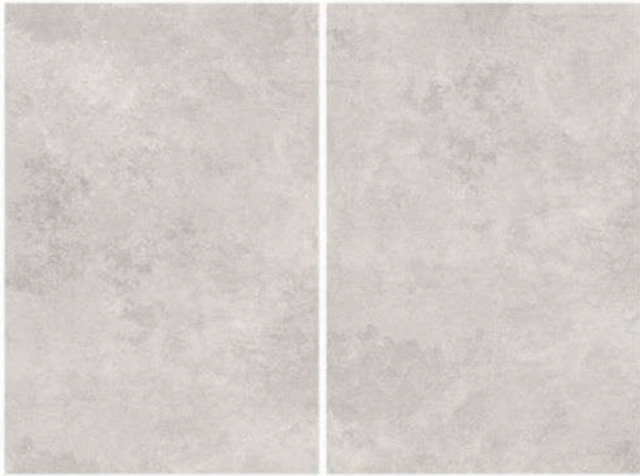


CEMENTINO

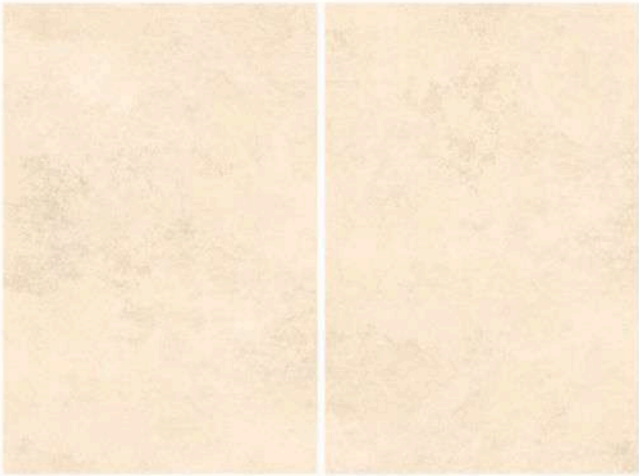
Nero 24x36 in.



Ash 24x36 in.



Beige 24x36 in.



Grey 24x36 in.



Cementino Nero 24x36 in.



Cementino Beige 24x36 in.





# AREZZO



Arezzo Lgy 24x24 in.



## COLORS



Arezzo Dgy 24x36 in.



Dgy

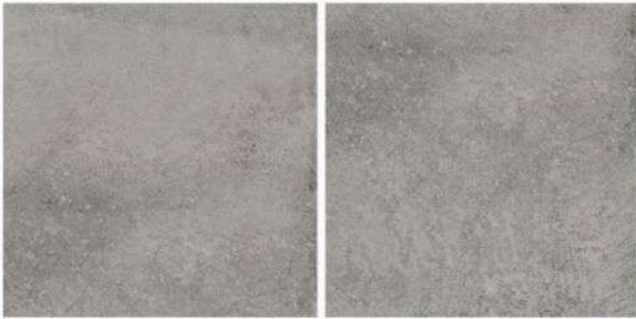


20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



AREZZO

Dgy 24x24 in.



Lgy 24x24 in.



Lgy 24x36 in.



Dgy 24x36 in.



Arezzo Dgy 24x24 in.



Arezzo Lgy 24x36 in.





# AOSTA



Aosta Grey 24x36 in.

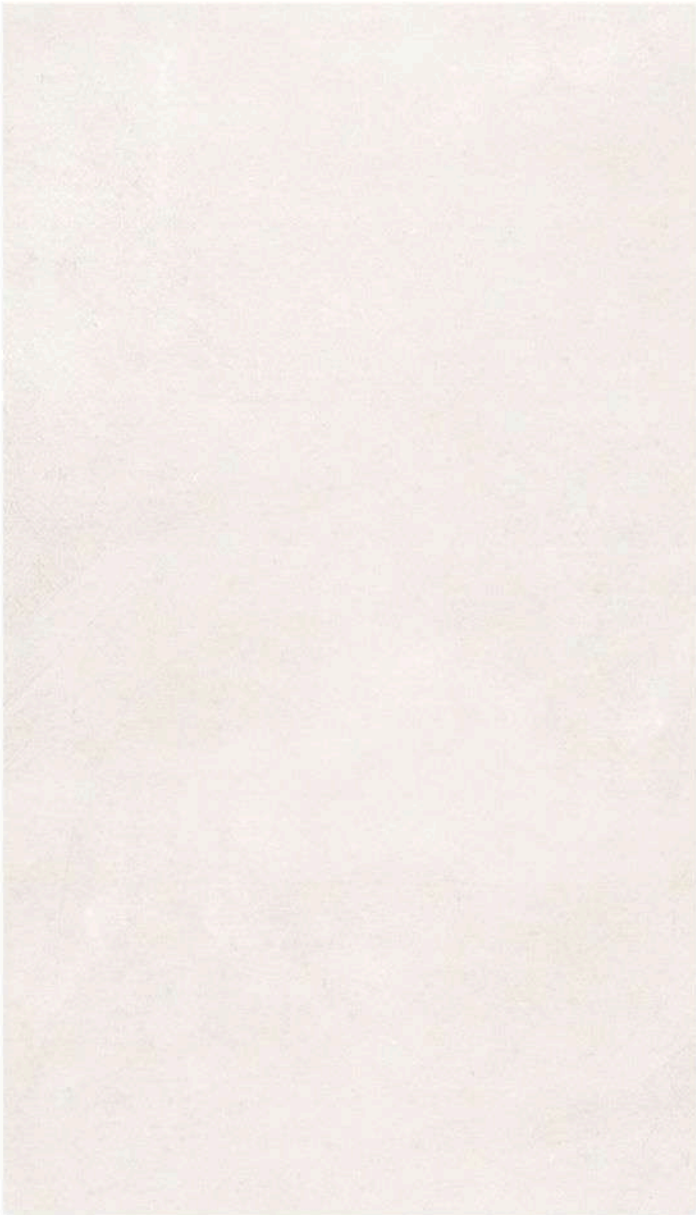


## COLORS



Aosta White 24x36 in.

White

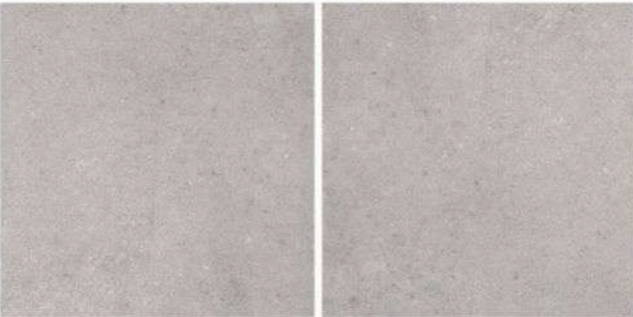


20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.

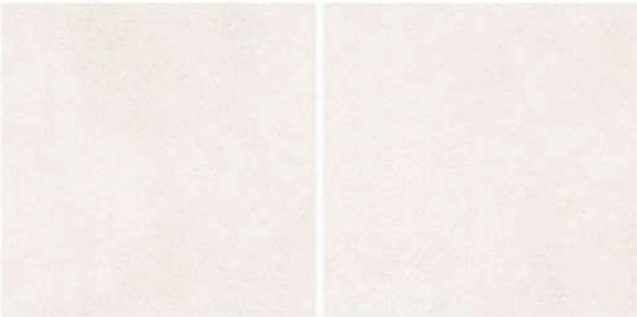


AOSTA

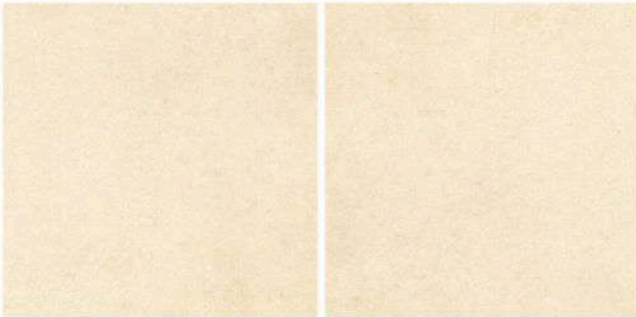
Aosta Grey 24x24 in.



Aosta White 24x24 in.



Aosta Crema 24x24 in.



Aosta Grey 24x24 in.



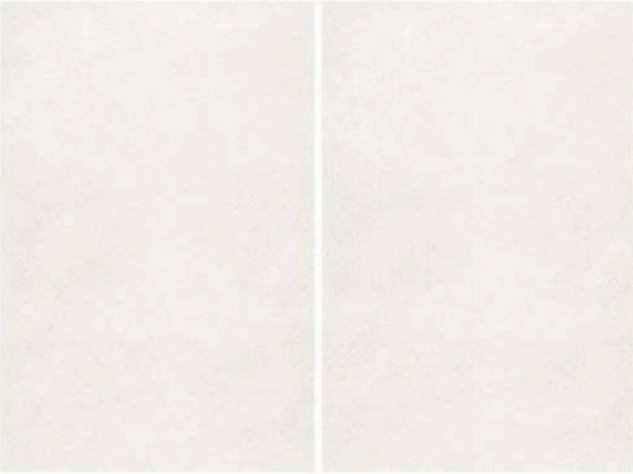
Aosta Crema 24x24 in.



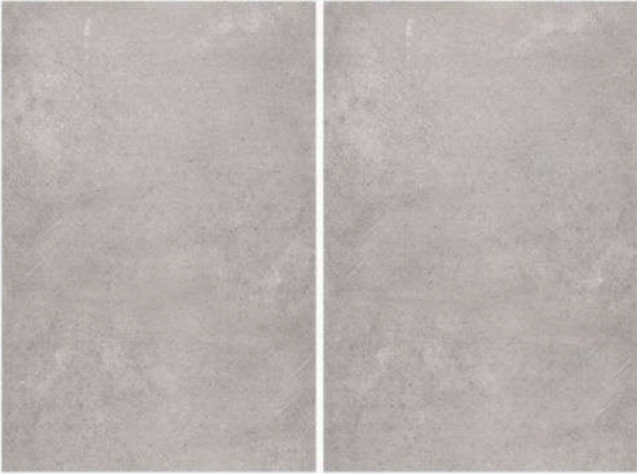


AOSTA

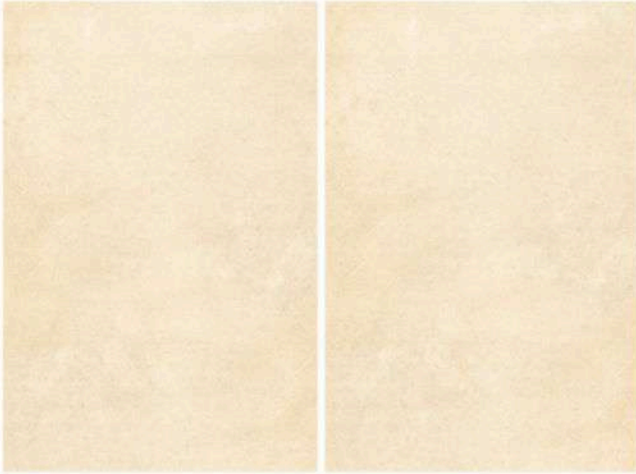
White 24x36 in.



Grey 24x36 in.



Crema 24x36 in.



Aosta White 24x36 in.



Aosta Crema 24x36 in.





# Marble *Collection*

Marble, renowned for its timeless beauty and unrivaled elegance, has long been revered as a symbol of opulence and sophistication. As a flooring material, marble transcends trends, imparting a sense of luxury and grandeur to spaces.

20MM  OUTDOOR PORCELAIN





# STATUARIO



Statuario Nevo Extra 24x36 in.



## COLORS



Statuario Nevo Extra 24x36 in.



Nevo Extra



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



STATUARIO

Nevo Extra 24x24 in.



Nevo Extra 24x36 in.



Statuario Nevo Extra 24x36 in.





# ROYAL CARRARA



Royal Carrara 24x24 in.



## COLORS



Royal Carrara 24x36 in.



Carrara



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



ROYAL

Royal Carrara 24x24 in.



Royal Carrara 24x36 in.



Royal Carrara 24x24 in.





# Stone *Collection*

In the world of design, the aesthetic value of stone transcends mere functionality. Renowned for its timeless elegance, stone stands as a testament to the artistry of nature, captivating the senses and transforming spaces into breathtaking masterpieces.

20MM  OUTDOOR PORCELAIN





# KANDLA GREY



Kandala Grey Mix



## FINISHES



Kandala Grey 24x36 in.



Grey



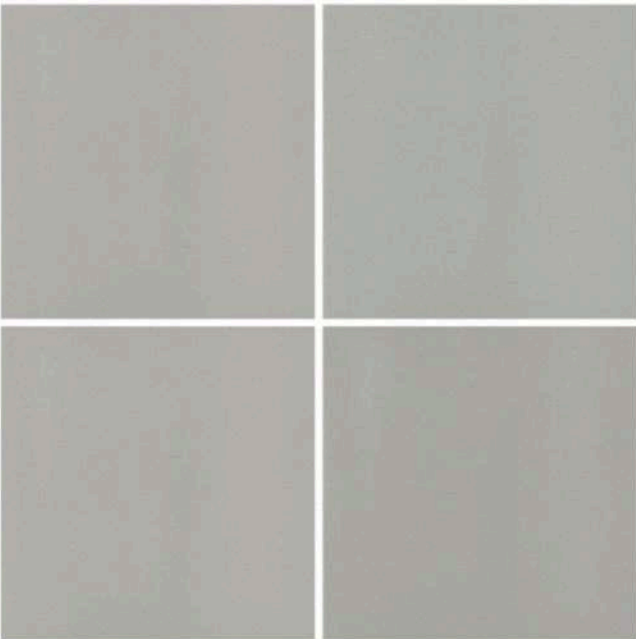


KANDLA GREY

Grey 24x24 in.



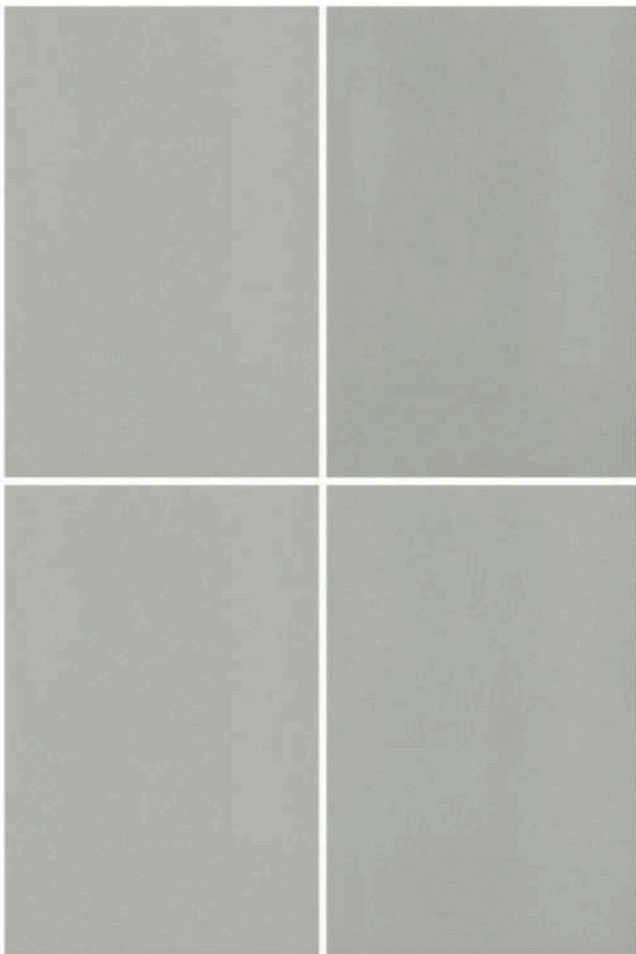
Grey Swan 24x24 in.



Grey 24x36 in.



Grey Swan 24x36 in.



Kandla Grey Swan Mix





# RAJ GREEN



Raj Green 24x36 in.



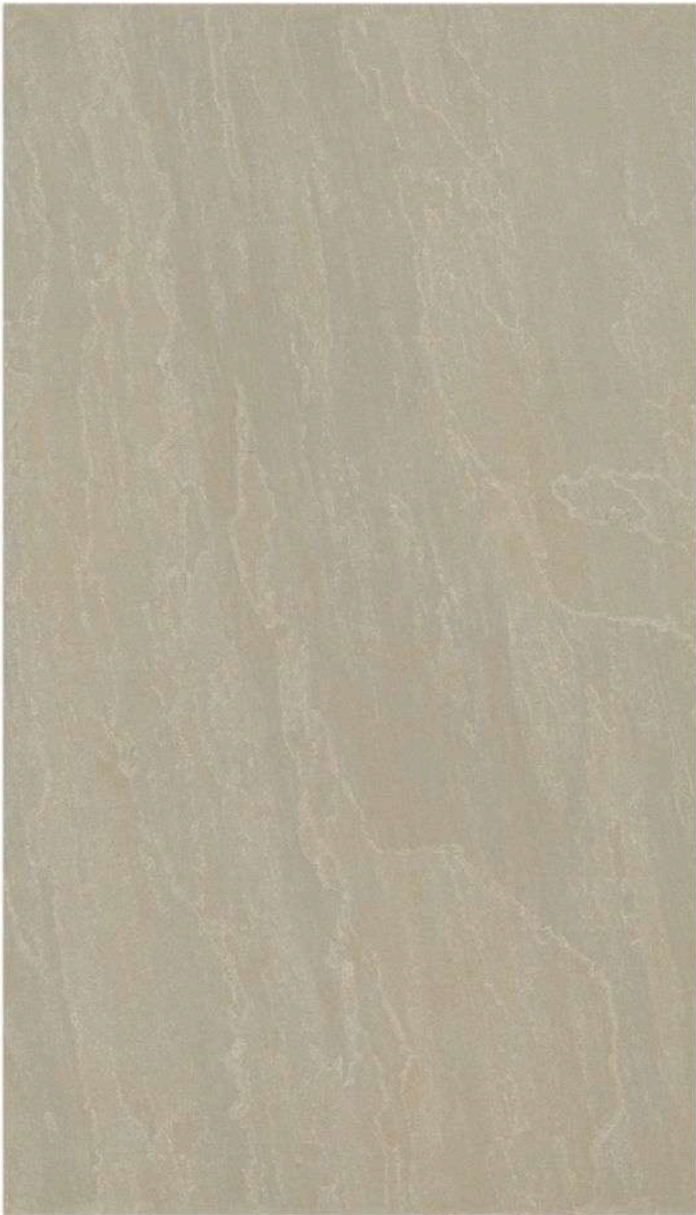
## FINISHES



Raj Green Swan Mix 24x36 in.



Raj Green



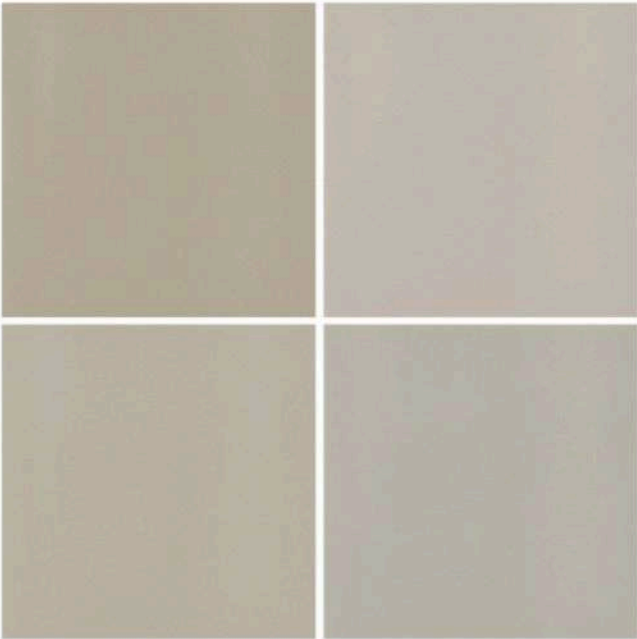


RAJ GREEN

Raj Green 24x24 in.



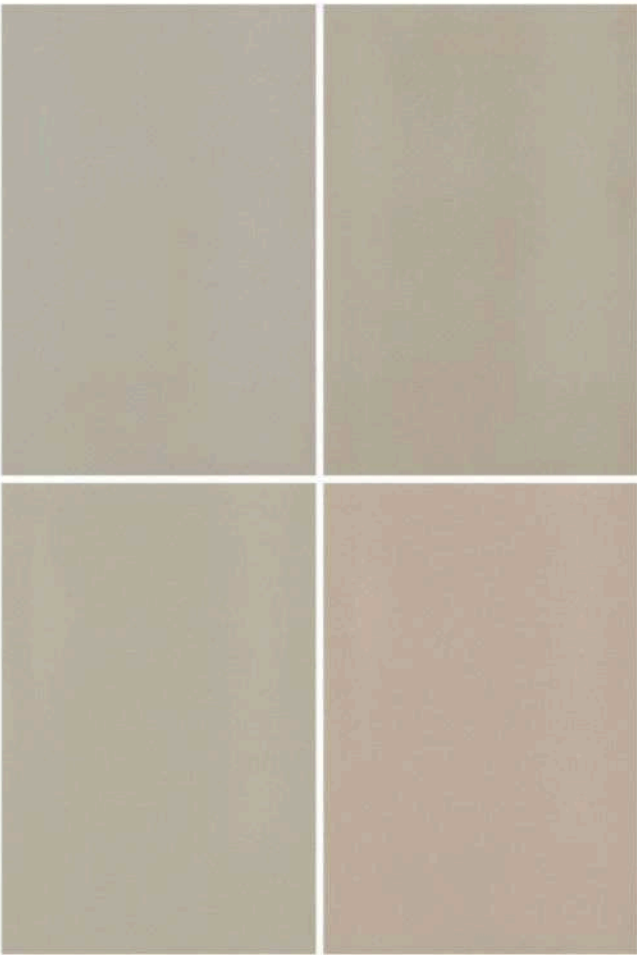
Raj Green Swan 24x24 in.



Raj Green 24x36 in.



Raj Green Swan 24x36 in.



Raj Green Swan Mix





# RAPULANO



Rapulano Mix Tan 24x36 in.



## COLORS



Rapulano Mix Nero 24x36 in.



Mix Nero



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.

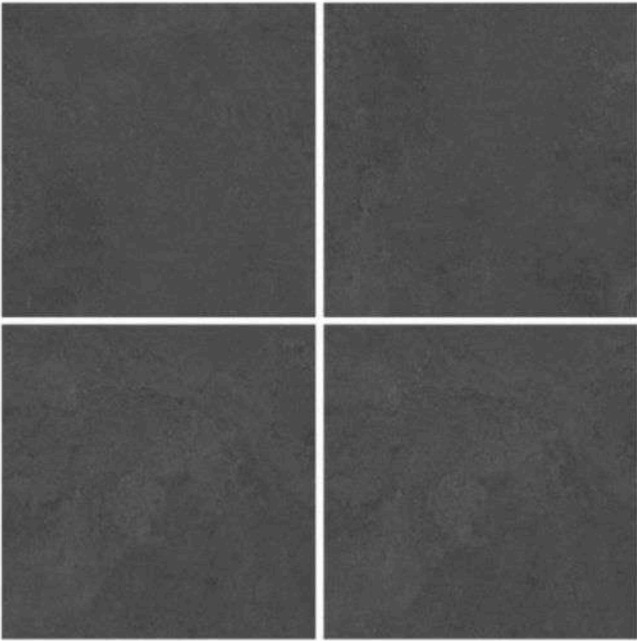


RAPULANO

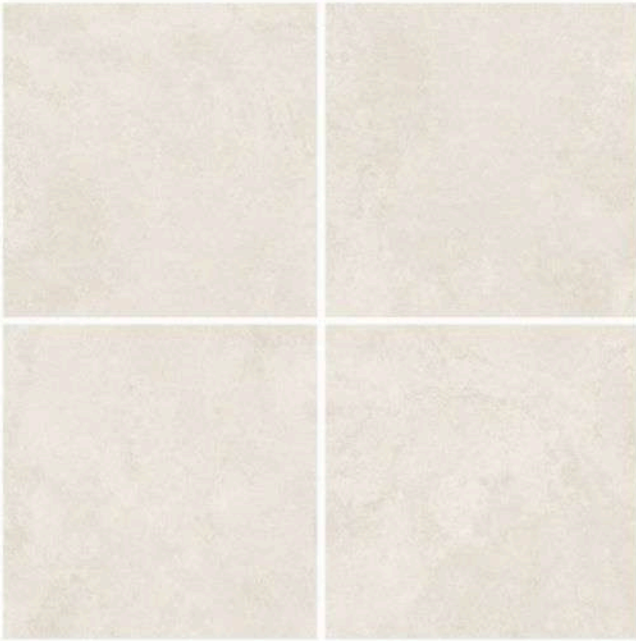
Mix Tan 24x24 in.



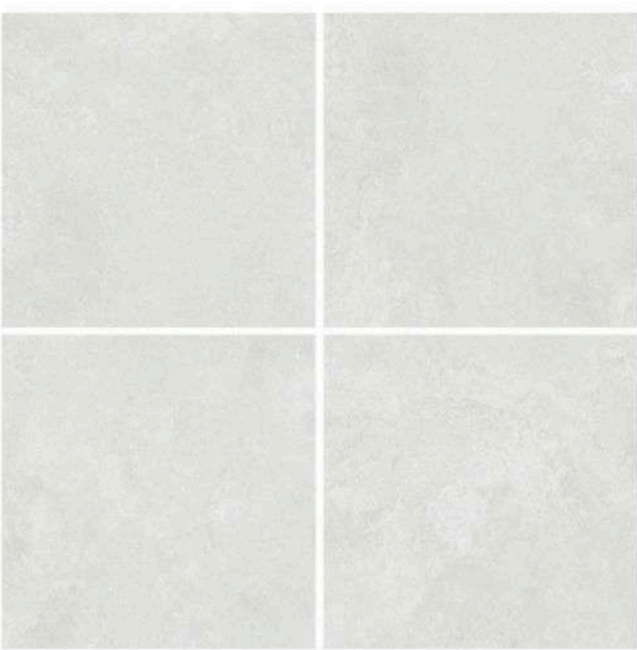
Mix Nero 24x24 in.



Mix Beige 24x24 in.



Mix Bianco 24x24 in.



Rapulano Mix Tan 24x24 in.



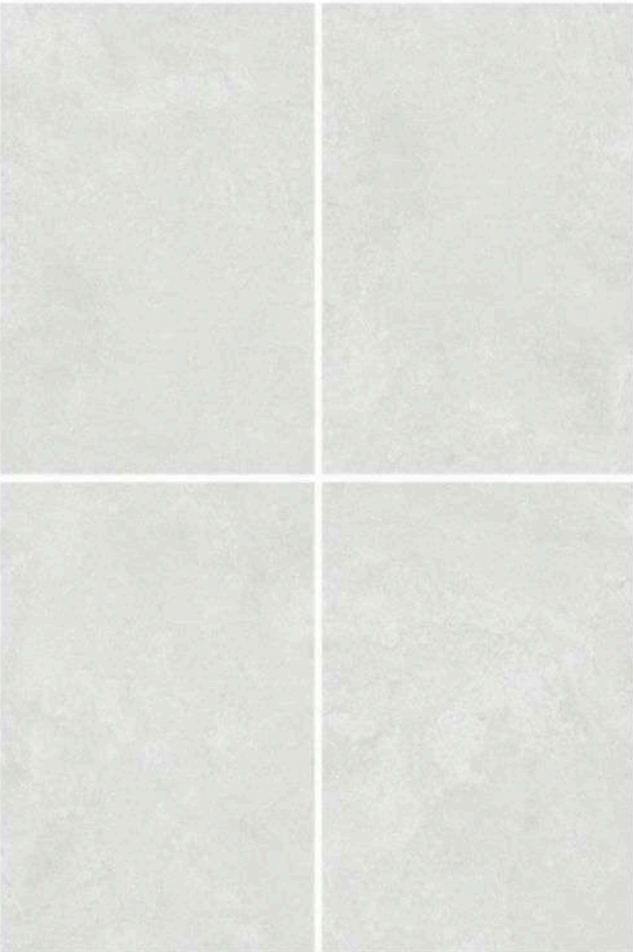
Rapulano Mix Beige 24x24 in.





RAPULANO

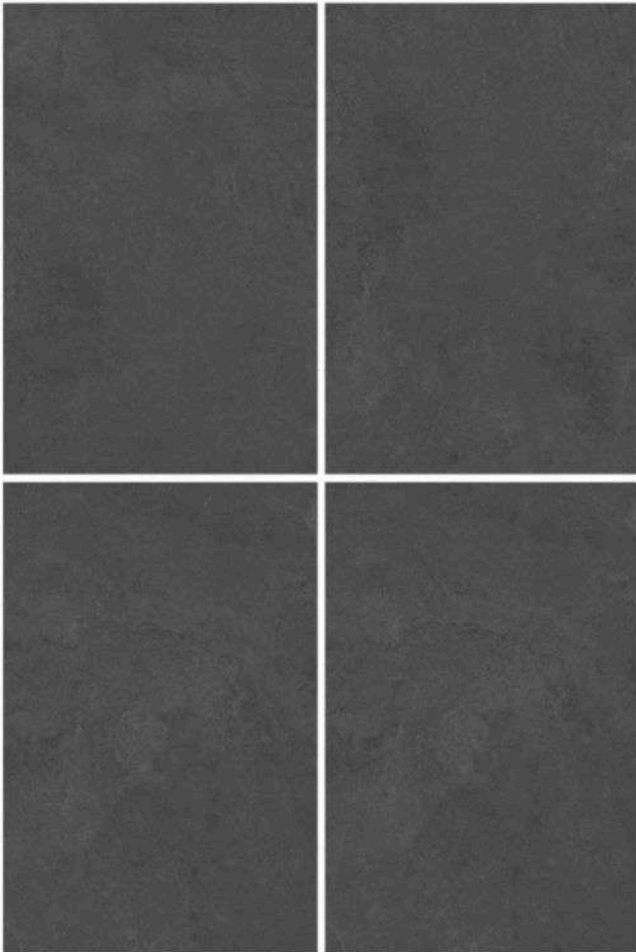
Mix Bianco 24x36 in.



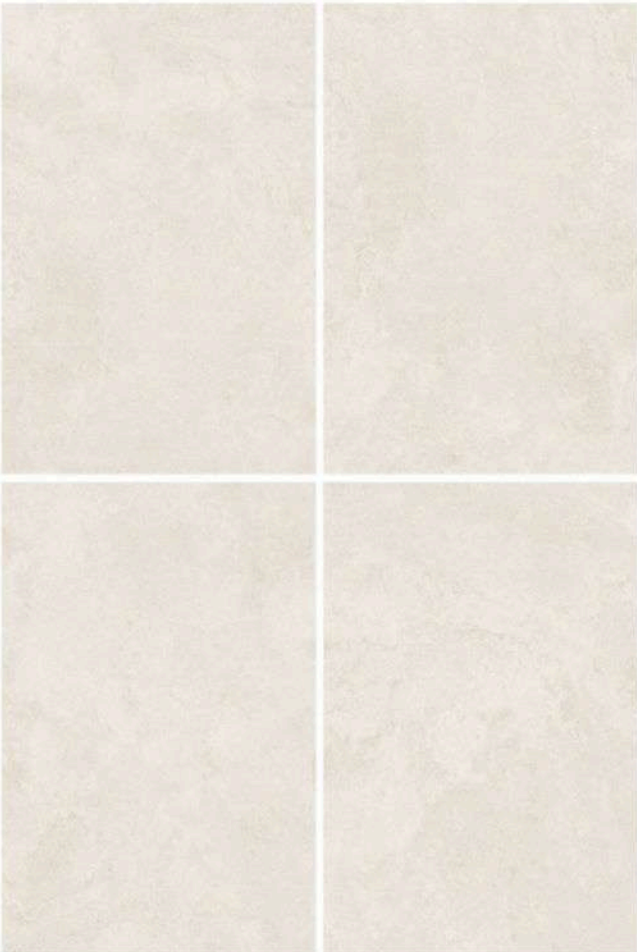
Mix Tan 24x36 in.



Mix Nero 24x36 in.



Mix Beige 24x36 in.



Rapulano Mix Bianco 24x36 in.



Rapulano Mix Nero 24x36 in.





# REXTRON



Rextron Caffee 24x36 in.



## COLORS



Rextron Silver 24x36 in.



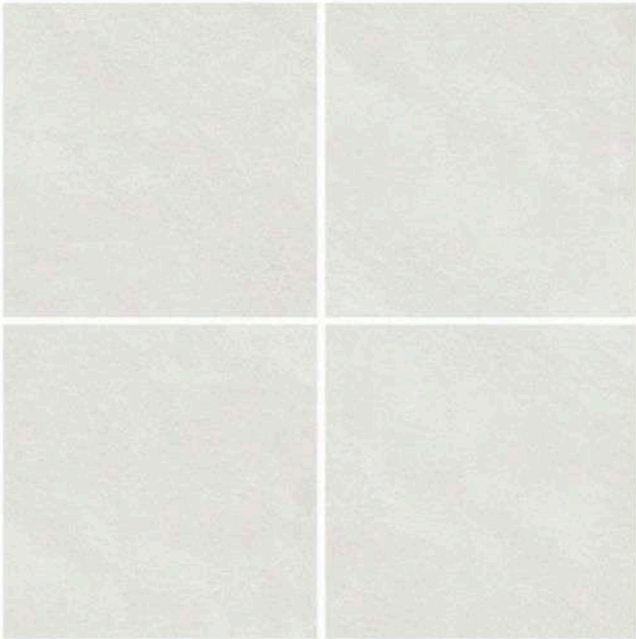
Silver





REXTRON

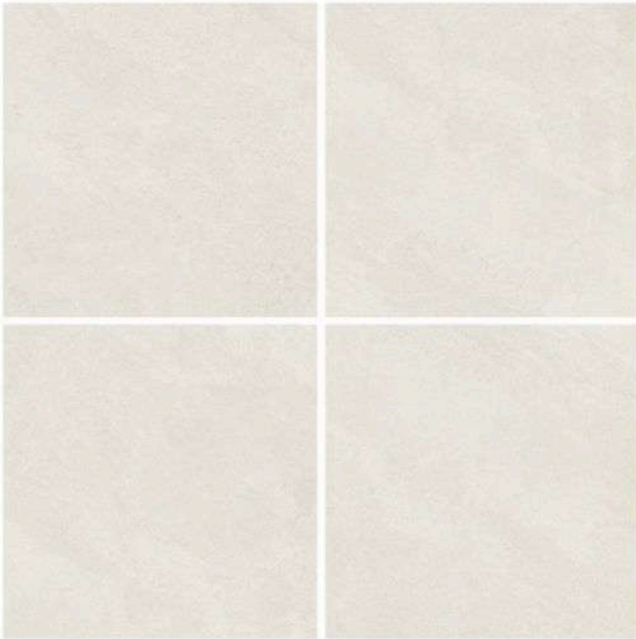
Silver 24x24 in.



Caffee 24x24 in.



Beige 24x24 in.



Rextron Silver 24x24 in.

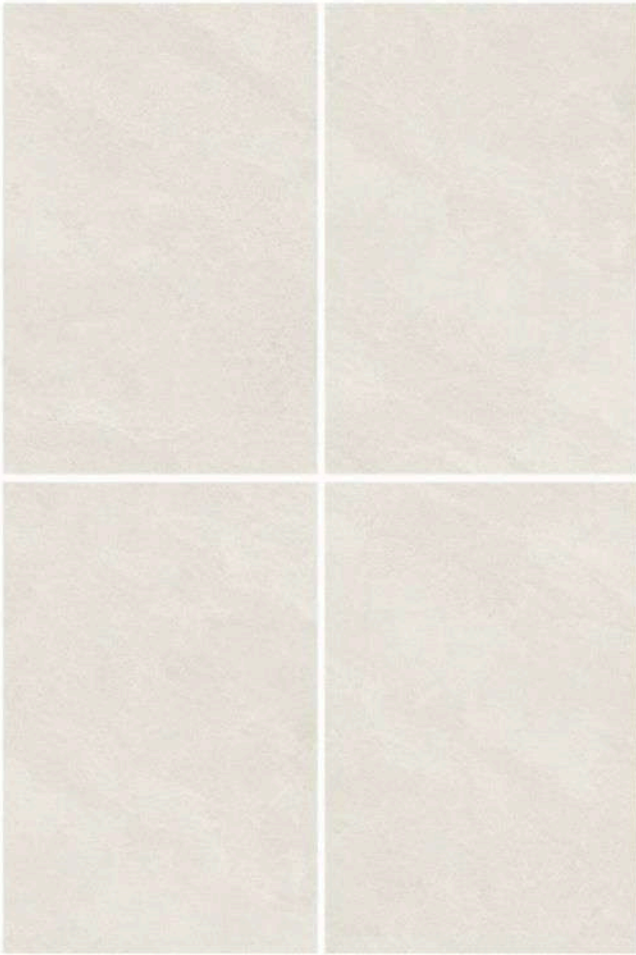


Rextron Beige 24x24 in.

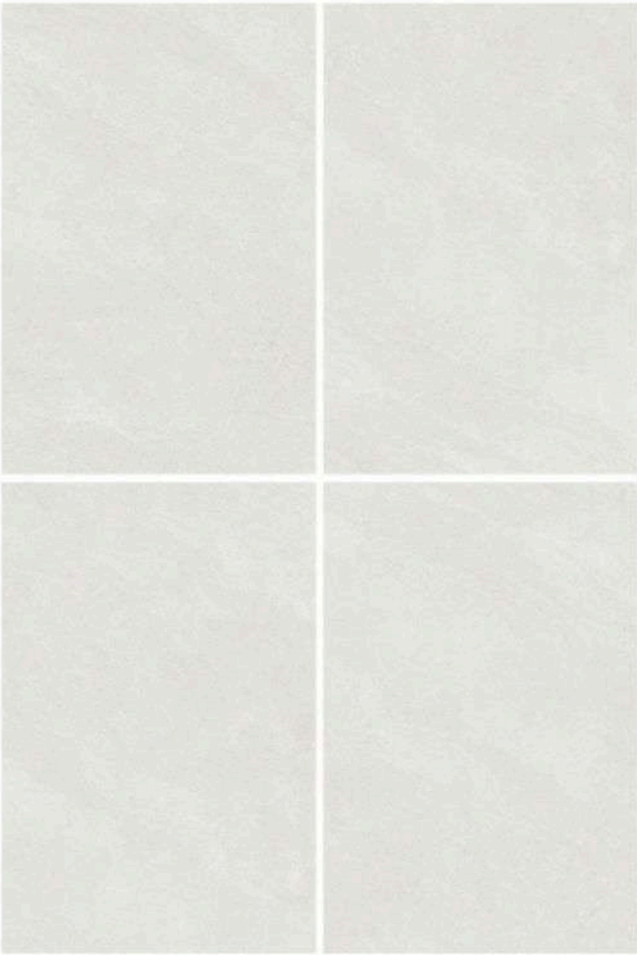




Beige 24x36 in.



Silver 24x36 in.



Caffee 24x36 in.



Rextron Beige 24x36 in.



Rextron Caffee 24x36 in.





# SANDROCK



Sandrock Nero 24x24 in.



## COLORS



Sandrock Beige 24x36 in.

Beige





SANDROCK

Silver 24x24 in.



Nero 24x24 in.



Beige 24x24 in.



Sandrock Silver 24x24 in.



Sandrock Beige 24x24 in.





SANDROCK

Silver 24x36 in.



Nero 24x36 in.



Beige 24x36 in.



Sandrock Silver 24x36 in.



Sandrock Beige 24x36 in.





# TRAVINO



Travino White 24x36 in.



## COLORS



Travino Caffee 24x36 in.



Caffee





TRAVINO

White 24x24 in.



Bianco 24x24 in.



Caffee 24x24 in.



Travino White 24x24 in.



Travino Caffee 24x24 in.



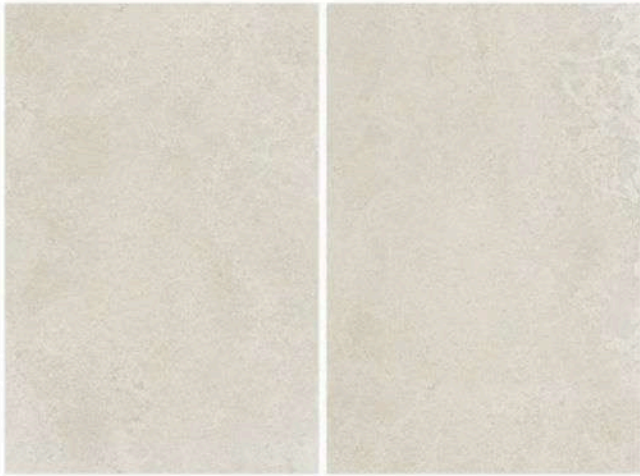


TRAVINO

Bianco 24x36 in.



White 24x36 in.



Caffee 24x36 in.



Travino Bianco 24x36 in.



Travino Caffee 24x36 in.





# ROUGH BRUNO



Rough Bruno 24x36 in.



## COLORS



Rough Bruno 24x36 in.



Rough Bruno

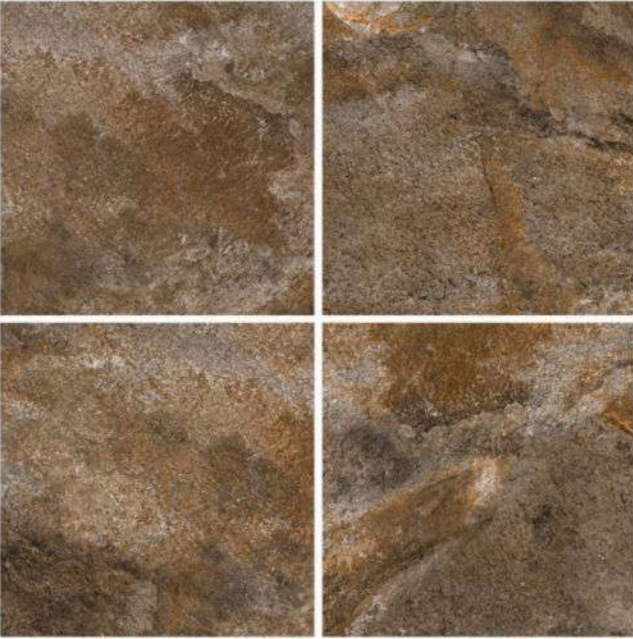


20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



ROUGH BRUNO

Rough Bruno 24x24 in.



Rough Bruno 24x24 in.



Rough Bruno 24x24 in.





# COUNTY



County Lgy 24x36 in.



## COLORS



County Crema 24x36 in.



Crema





COUNTY

Lgy 24x24 in.



Gris 24x24 in.



Crema 24x24 in.



Anthracite 24x24 in.



County Lgy 24x24 in.



County Crema 24x24 in.





Ivory 24x24 in.



Ivory 24x36 in.



County Ivory 24x36 in.





COUNTY

Lgy 24x36 in.



Crema 24x36 in.



Gris 24x36 in.



Anthracite 24x36 in.



County Lgy 24x36 in.



County Gris 24x36 in.





# OYSTER



Oyster Silver 24x36 in.



## COLORS



Oyster Beige 24x36 in.



Beige



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



OYSTER

Bianco 24x24 in.



Silver 24x24 in.



Nero 24x24 in.



Beige 24x24 in.



Oyster Bianco 24x24 in.



Oyster Nero 24x24 in.





OYSTER

Silver 24x36 in.



Nero 24x36 in.



Bianco 24x36 in.



Beige 24x36 in.



Oyster Silver 24x36 in.



Oyster Bianco 24x36 in.





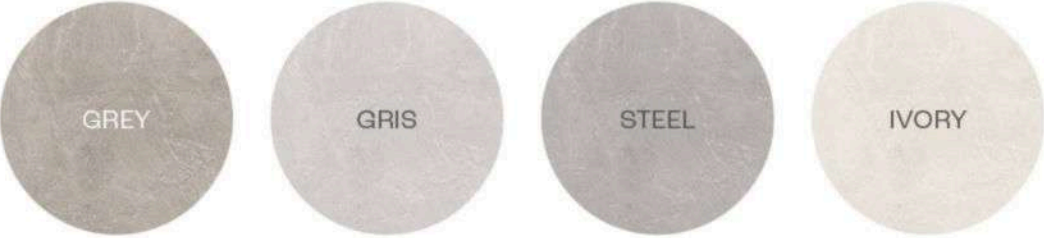
# CONCORD



Concord Grey 24x36 in.



## COLORS



Concord Gris 24x36 in.



Gris





CONCORD

Grey 24x24 in.



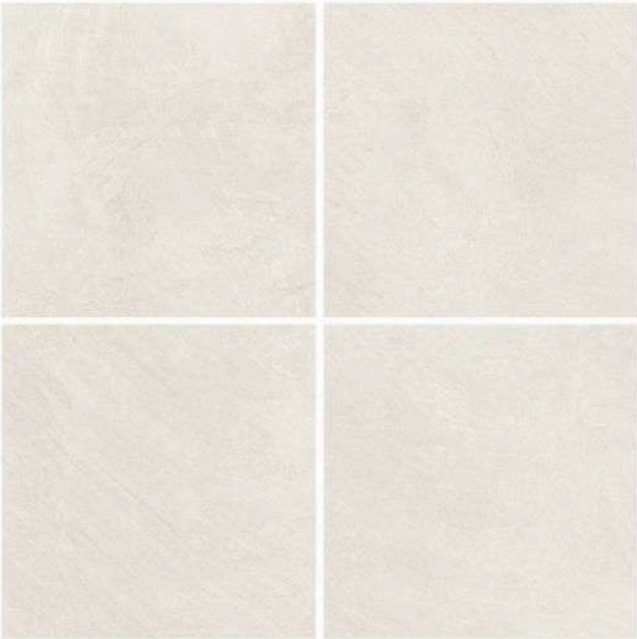
Steel 24x24 in.



Gris 24x24 in.



Ivory 24x24 in.



Concord Grey 24x24 in.



Concord Gris 24x24 in.





CONCORD

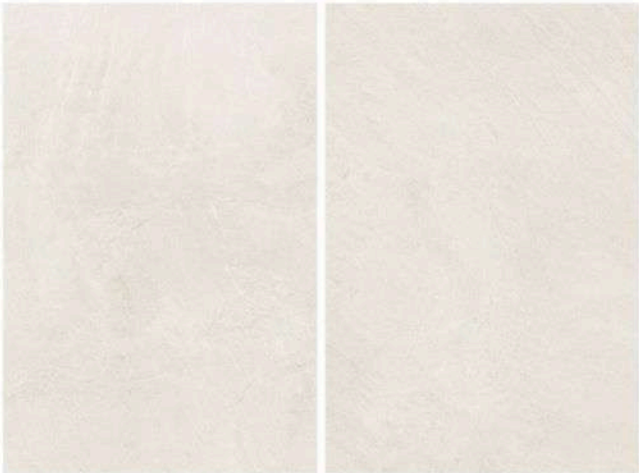
Grey 24x36 in.



Gris 24x36 in.



Ivory 24x36 in.



Steel 24x36 in.



Concord Grey 24x36 in.



Concord Ivory 24x36 in.





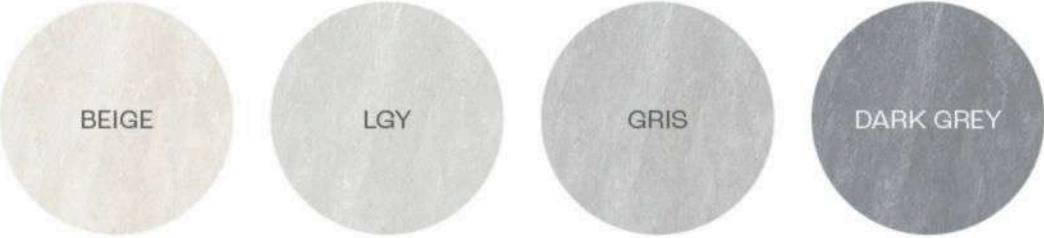
# BROWNHILL



Brownhill Beige 24x36 in.



## COLORS



Brownhill Lgy 24x36 in.



Lgy





BROWNHILL

Lgy 24x24 in.



Gris 24x24 in.



Beige 24x24 in.



Dark Grey 24x24 in.



Brownhill Lgy 24x24 in.



Brownhill Beige 24x24 in.





BROWNHILL



Brownhill Gris 24x36 in.



Brownhill Dark grey 24x36 in.





# ICARUS



Icarus Beige 24x36 in.



## COLORS



Icarus Silver 24x36 in.



Silver



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



ICARUS

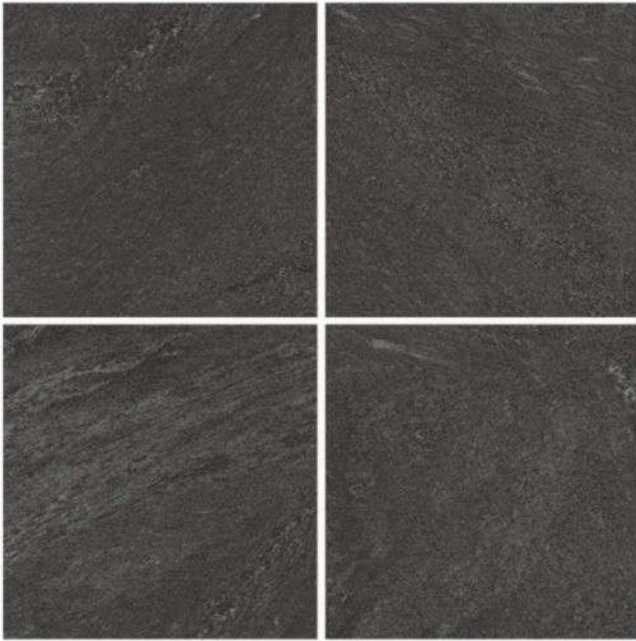
Ivory 24x24 in.



Grey 24x24 in.



Nero 24x24 in.



Beige 24x24 in.



Icarus Ivory 24x24 in.



Icarus Nero 24x24 in.





Silver 24x24 in.



Silver 24x36 in.



Icarus Silver 24x36 in.





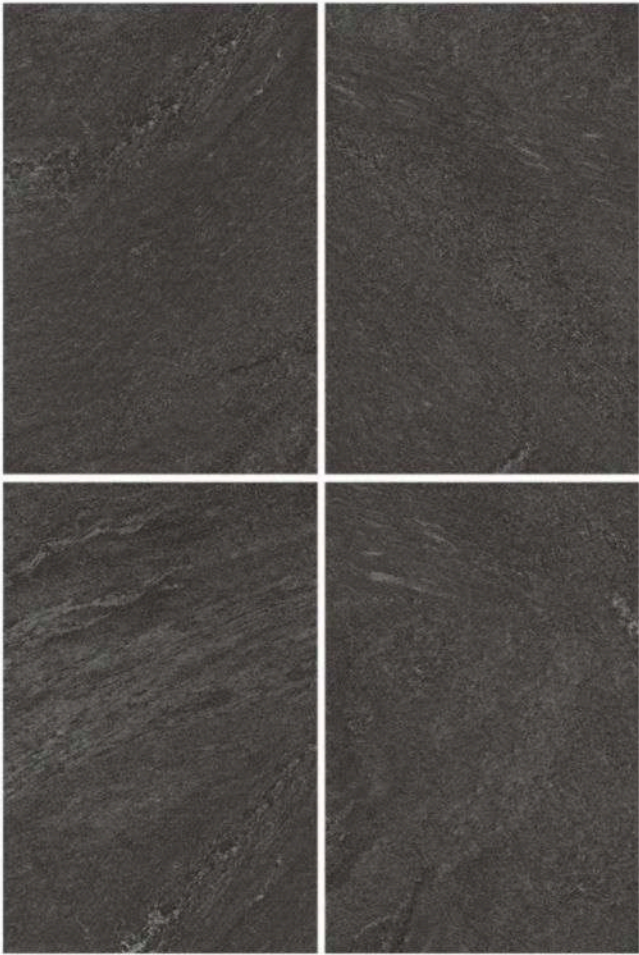
Beige 24x36 in.



Icarus Ivory 24x36 in.



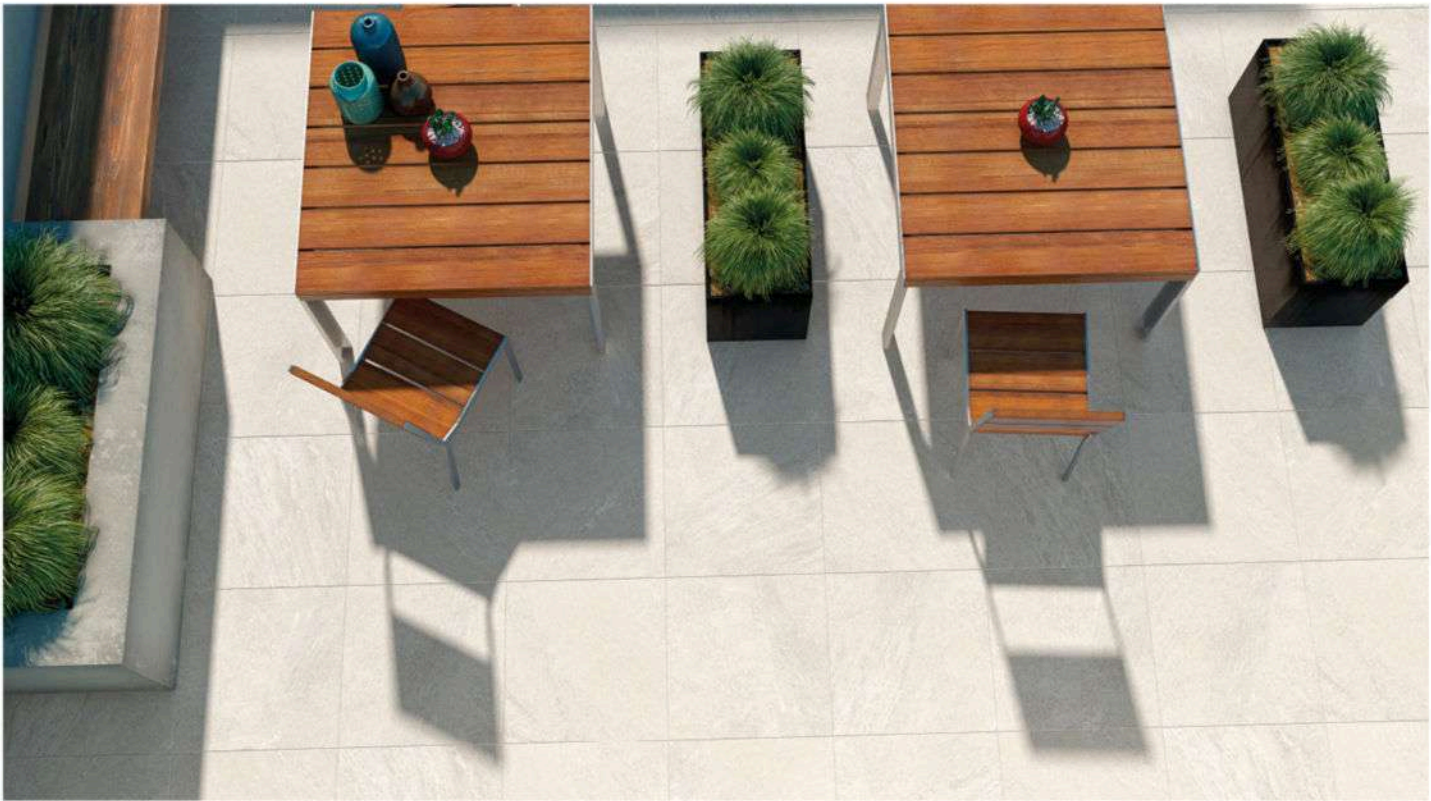
Nero 24x36 in.



Grey 24x36 in.



Icarus Beige 24x36 in.



Icarus Nero 24x36 in.





# SLATE STONE



Slate Stone Grey 24x36 in.



## COLORS



Slate Stone Steel 24x36 in.



Steel



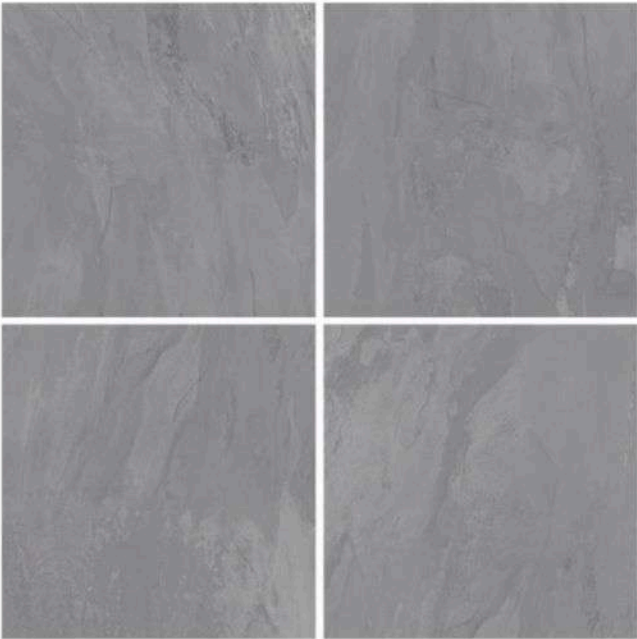


SLATE STONE

Steel 24x24 in.



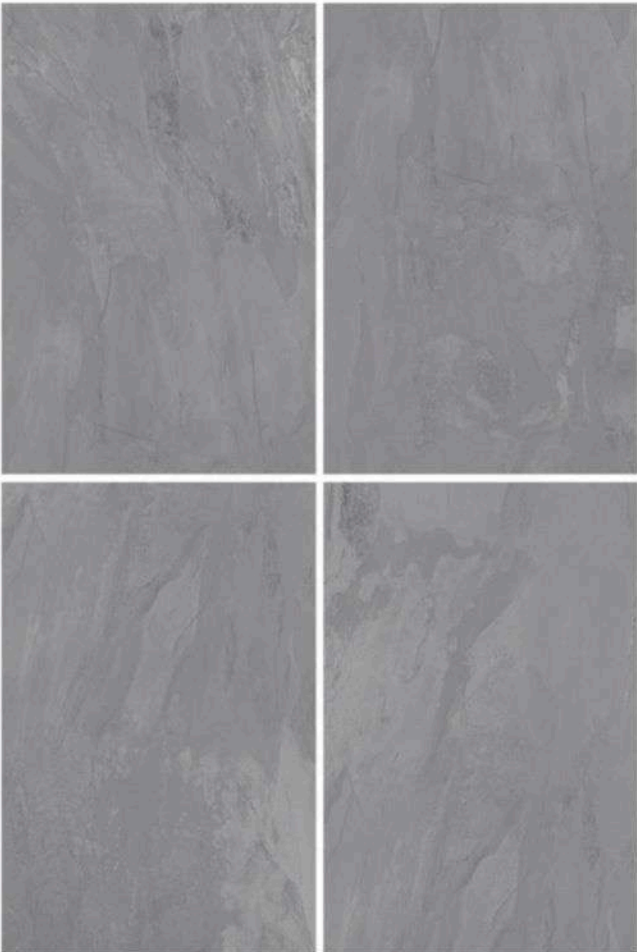
Grey 24x24 in.



Steel 24x36 in.



Grey 24x36 in.



Slate Stone Grey 24x24 in.



Slate Stone Steel 24x36 in.





# HAZZEL STONE



Hazzel Stone Crema 24x36 in.



## COLORS



Hazzel Stone Ash 24x36 in.



Ash



150  
151



HAZZEL STONE

Crema 24x24 in.



Ash 24x24 in.



Beige 24x24 in.



Hazzel Stone Crema 24x24 in.



Hazzel Stone Beige 24x24 in.





HAZZEL STONE

Ash 24x36 in.



Beige 24x36 in.



Crema 24x36 in.



Hazzel Stone Ash 24x36 in.



Hazzel Stone Crema 24x36 in.





# EARTHAN



Earthan Beige 24x36 in.



## COLORS



Earthan Grey 24x36 in.



Grey



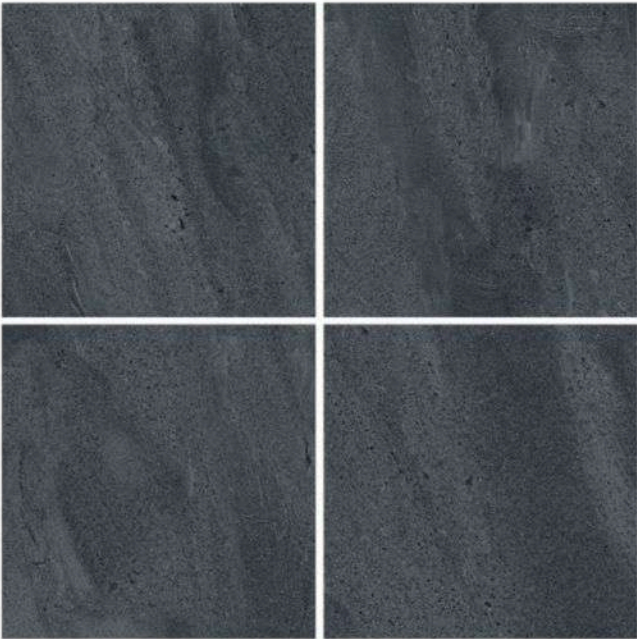


EARTHAN

Grey 24x24 in.



Nero 24x24 in.



Beige 24x24 in.



Earthan Grey 24x24 in.



Earthan Beige 24x24 in.

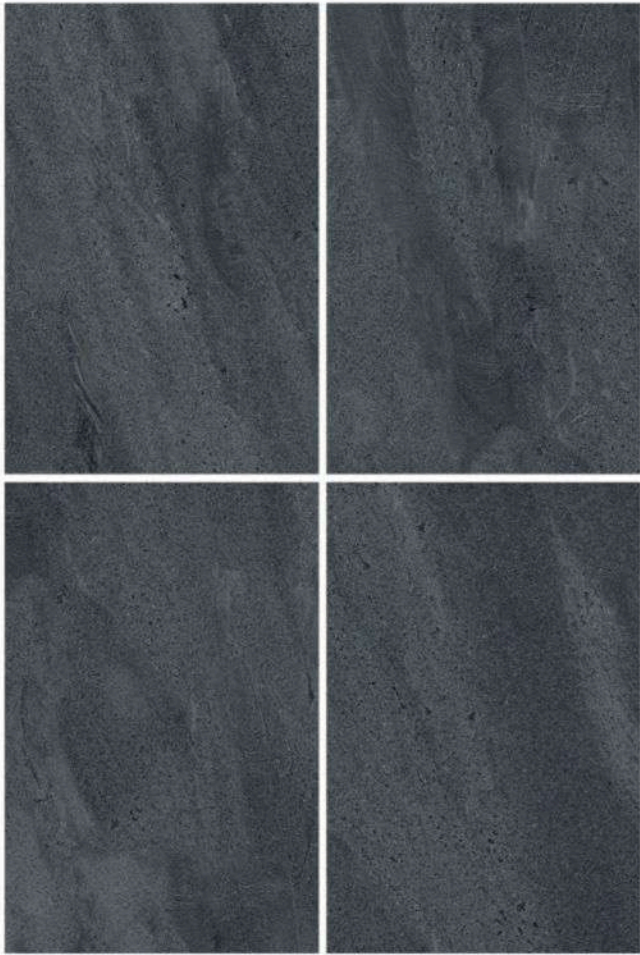




Grey 24x36 in.



Nero 24x36 in.



Beige 24x36 in.



Earthan Grey 24x36 in.



Earthan Beige 24x36 in.





# PACIFIC BROWN



Pacific brown 24x36 in.



## COLORS



Pacific brown 24x36 in.



Brown



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



PACIFIC BROWN

Brown 24x24 in.



Brown 24x36 in.



Pacific brown 24x24 in.





# VIETNAM GOLD



Vietnam Gold Ash 24x36 in.



## COLORS



Vietnam Gold Azul 24x36 in.



Azul



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



VIETNAM GOLD

Ash 24x24 in.



Black 24x24 in.



Azul 24x24 in.



Vietnam Gold Ash 60x60cm



Vietnam Gold Azul 24x24 in.





VIETNAM GOLD

Ash 24x36 in.



Azul 24x36 in.



Black 24x36 in.



Vietnam Gold Ash 24x36 in.



Vietnam Gold Black 24x36 in.





# SLATE IMPERIO



Slate Imperio 24x36 in.



## COLORS



Slate Imperio 24x36 in.



Slate Imperio

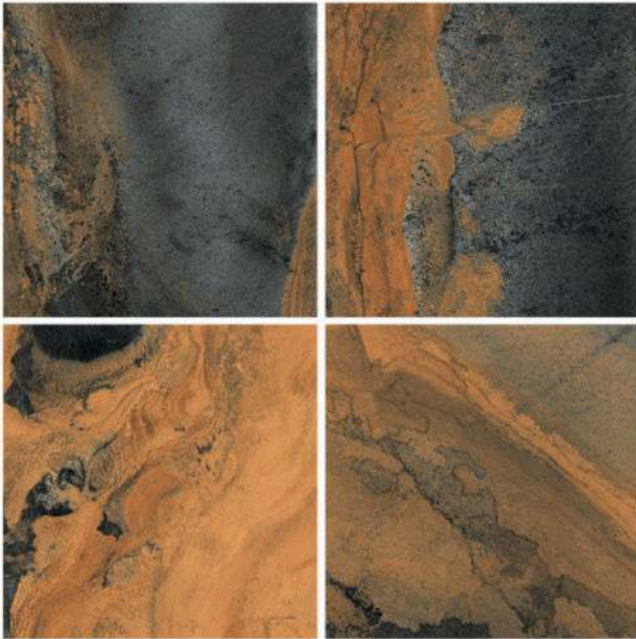


20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.

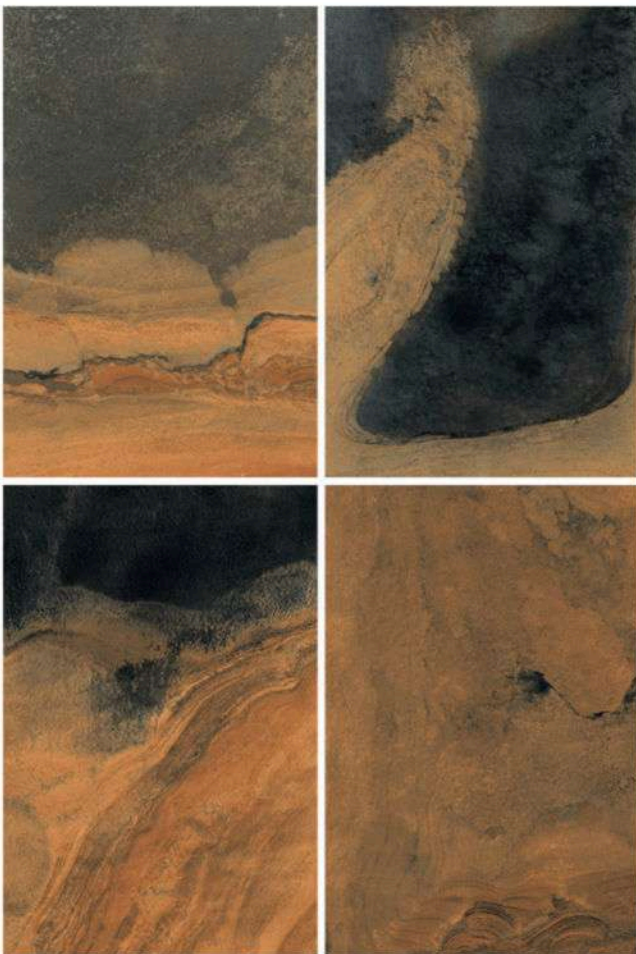


SLATE IMPERIO

Slate Imperio 24x24 in.



Slate Imperio 24x36 in.



Slate Imperio 24x24 in.





# DUNE



Dune Grey 24x36 in.



## COLORS



Dune Silver 24x36 in.



Silver





DUNE

Caffee 24x24 in.



Caffee 24x36 in.



Dune Caffee 24x36 in.





DUNE

Silver 24x24 in.



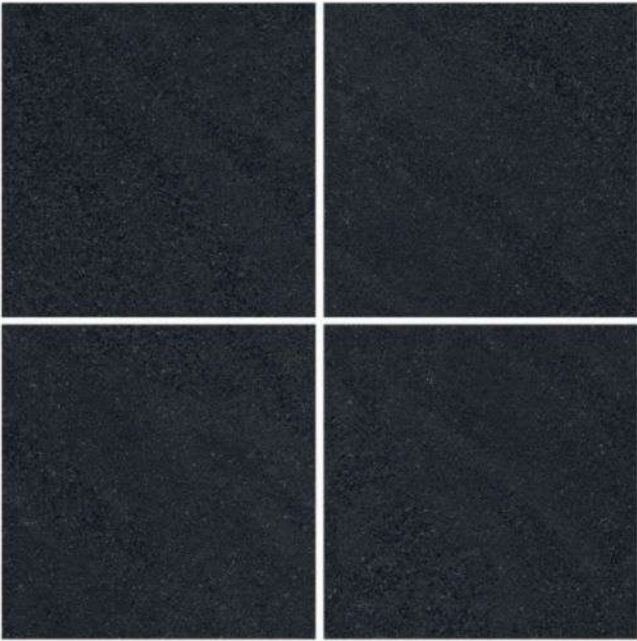
Grey 24x24 in.



Beige 24x24 in.



Nero 24x24 in.



Dune Silver 24x24 in.



Dune Beige 24x24 in.





DUNE

Silver 24x36 in.



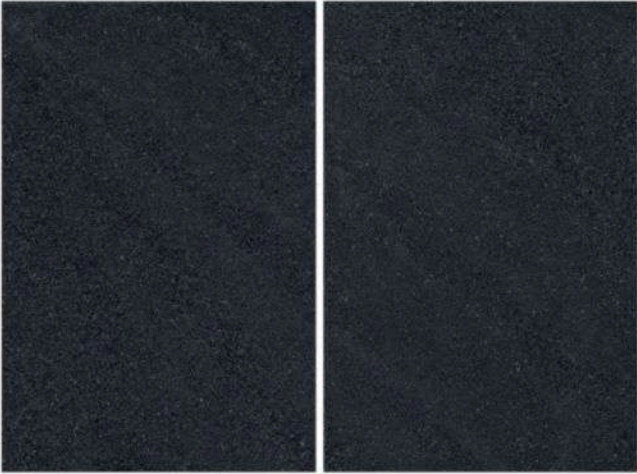
Beige 24x36 in.



Grey 24x36 in.



Nero 24x36 in.



Dune Silver 24x36 in.



Dune Grey 24x36 in.





# COTTO



Cotto Ash 24x24 in.



## COLORS



Cotto Crema 24x36 in.



Crema



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.

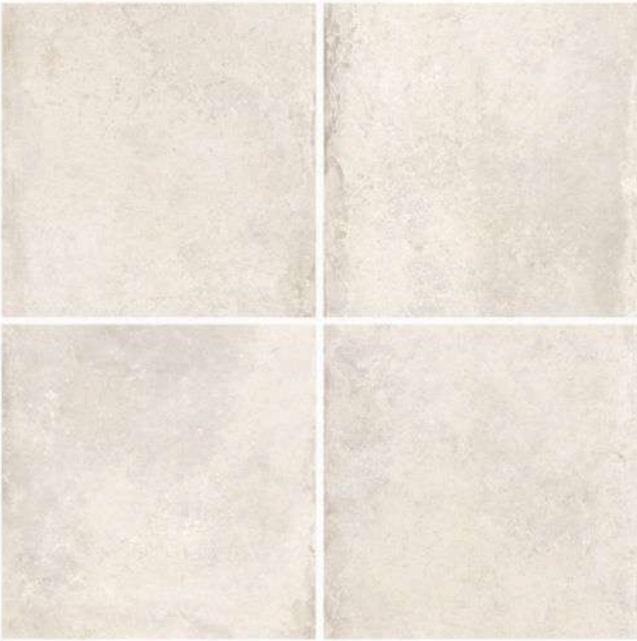


COTTO

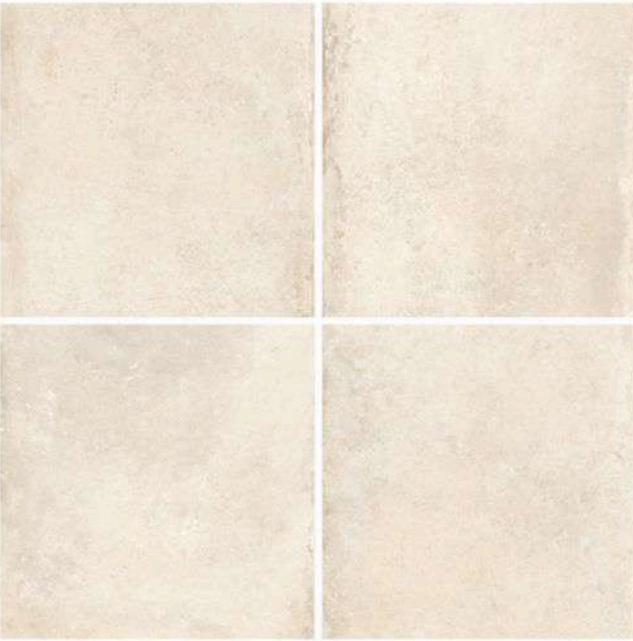
Ash 24x24 in.



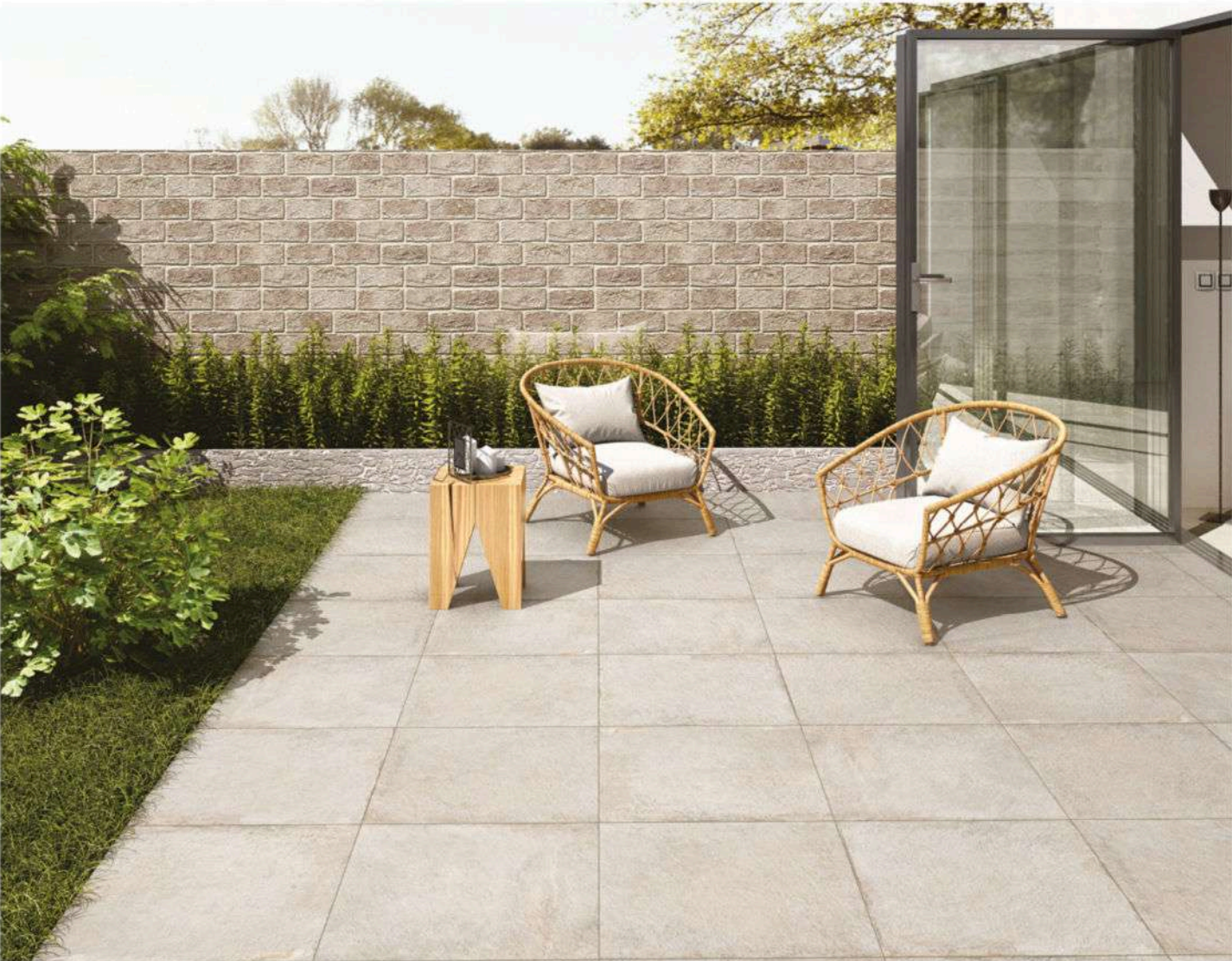
Crema 24x24 in.



Beige 24x24 in.



Cotto Ash 24x24 in.



Cotto Beige 24x24 in.



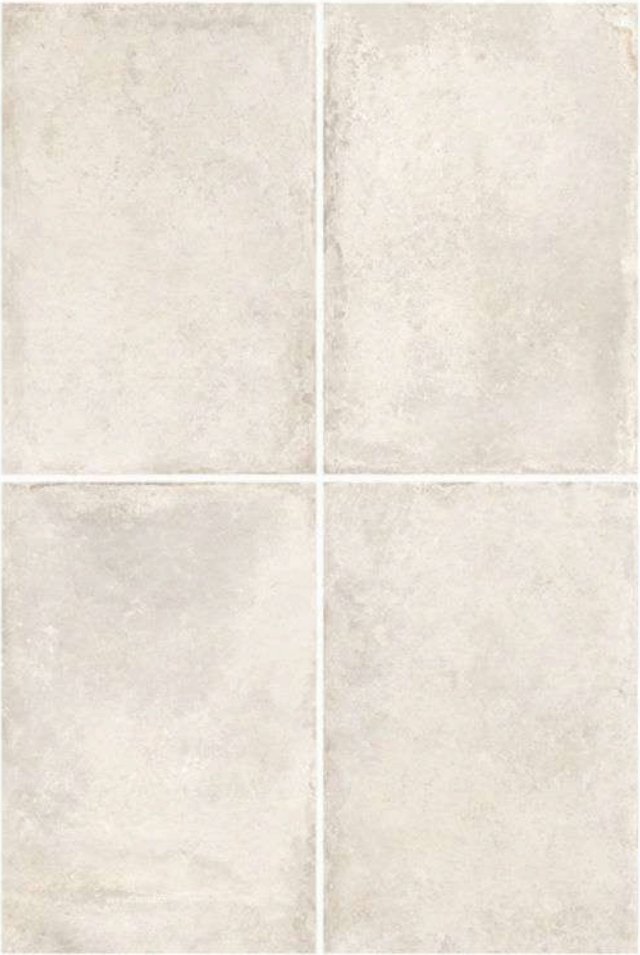


COTTO

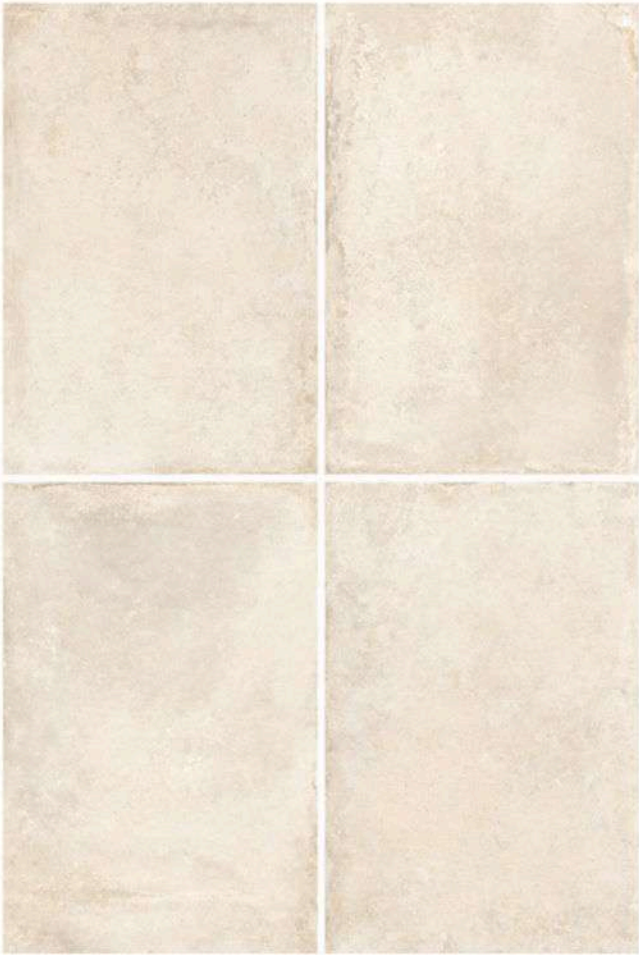
Ash 24x36 in.



Crema 24x36 in.



Beige 24x36 in.



Cotto Crema 24x36 in.



Cotto Beige 24x36 in.





# BESIDE



Beside Grey 24x36 in.



## COLORS



Beside Grey 24x36 in.



Grey



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



BESIDE GREY

Grey 24x24 in.



Grey 24x36 in.



Beside Grey 24x24 in.

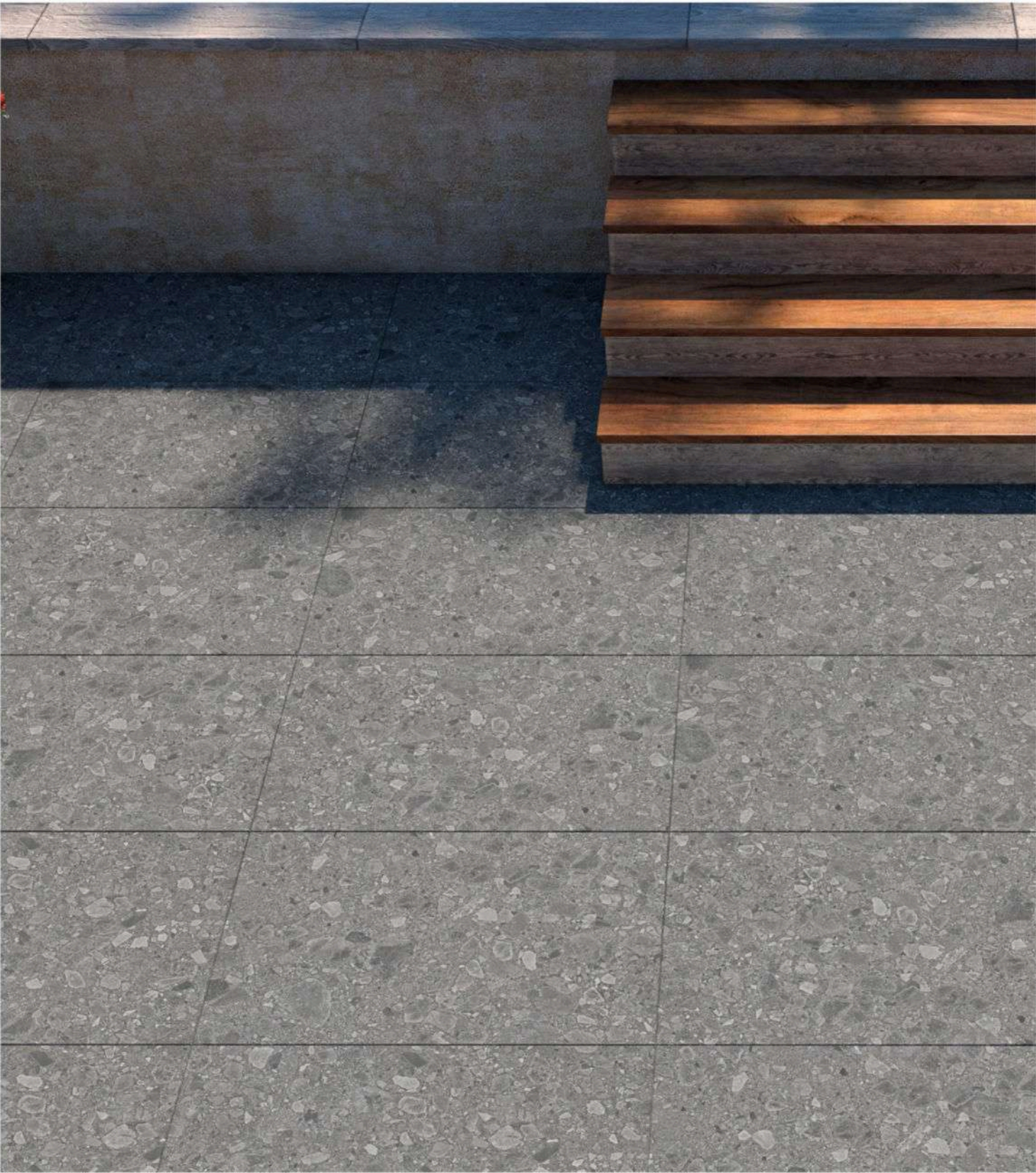




# CEPPO



Ceppo Grey 24x36 in.



## COLORS



Ceppo Bianco 24x36 in.

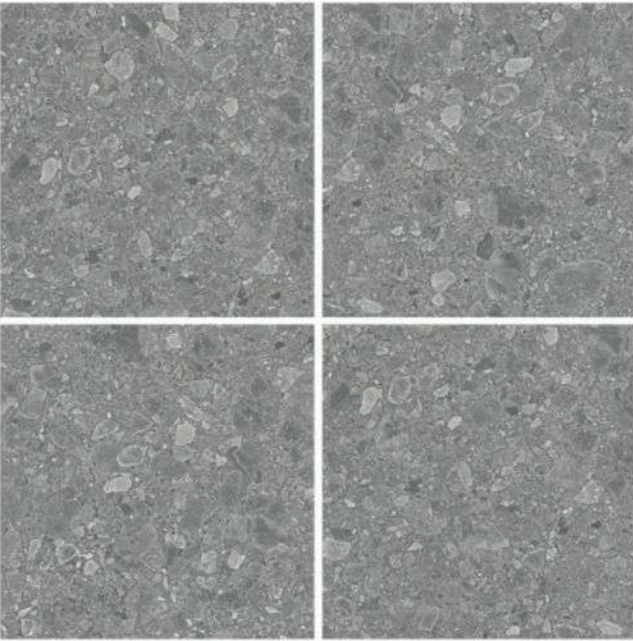


Bianco

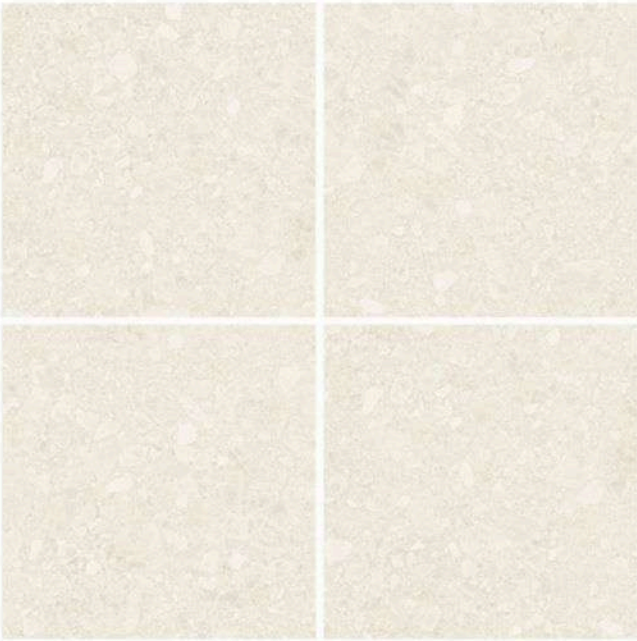




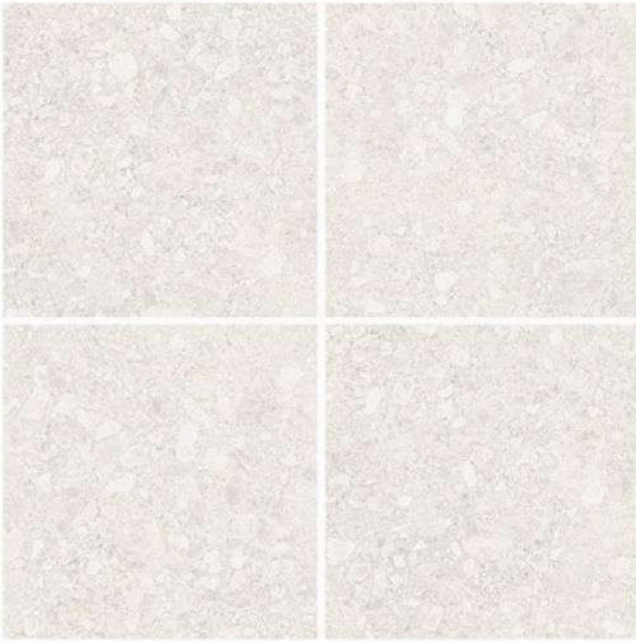
Grey 24x24 in.



Ivory 24x24 in.



Bianco 24x24 in.



Ceppo Grey 24x24 in.



Ceppo Bianco 24x24 in.

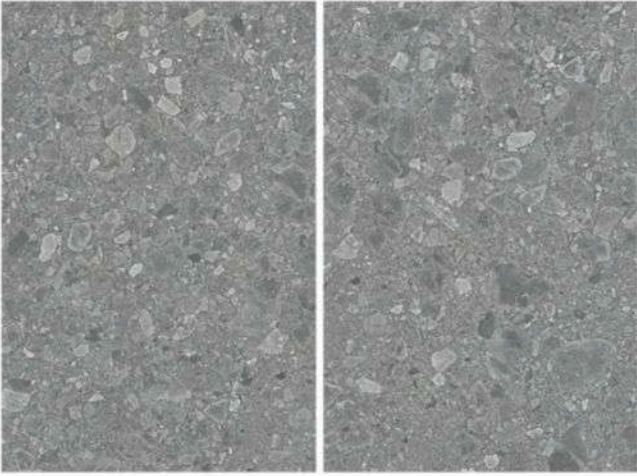




Bianco 24x36 in.



Grey 24x36 in.



Ivory 24x36 in.



Ceppo Bianco 24x36 in.



Ceppo Ivory 24x36 in.





# BRAZILIAN



Brazilian Grey 24x36 in.



## COLORS



Brazilian Lgy 24x36 in.



Lgy



200  
201

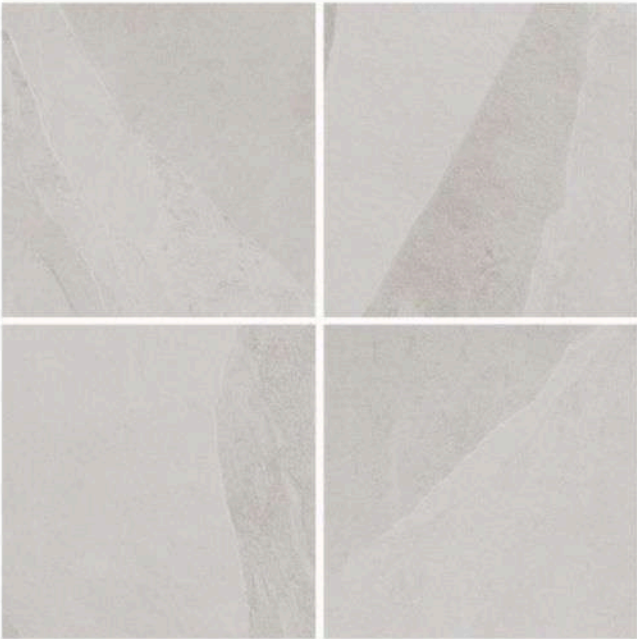


BRAZILIAN

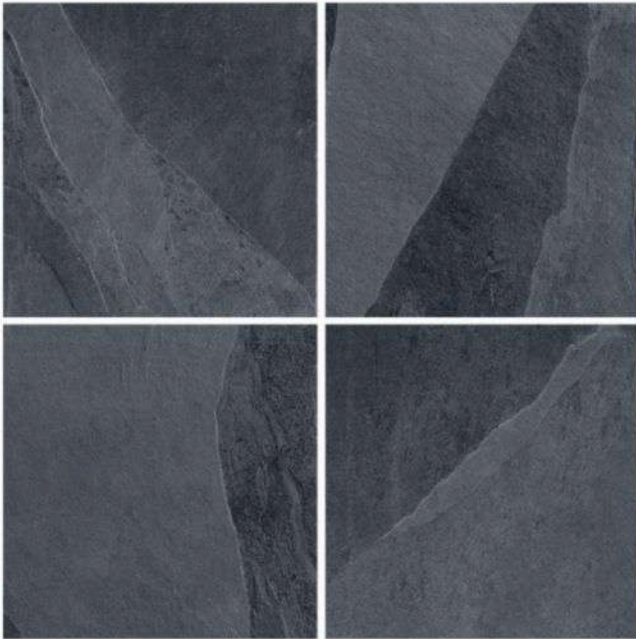
Grey 24x24 in.



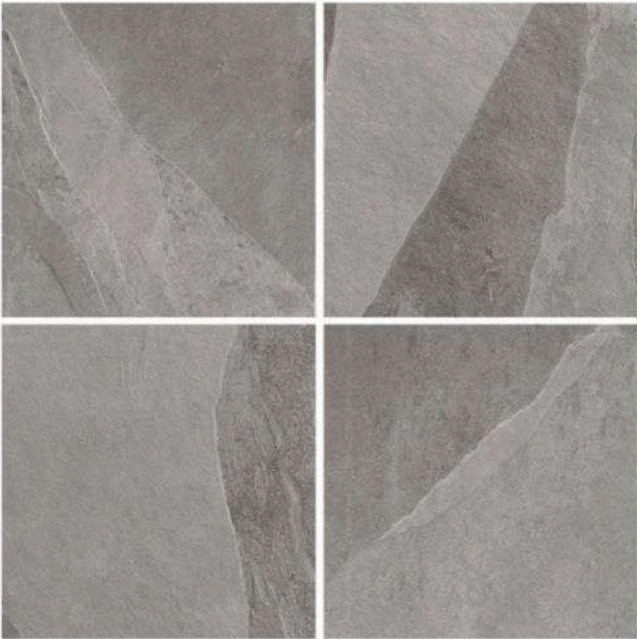
Lgy 24x24 in.



Dgy 24x24 in.



Gris 24x24 in.



Brazilian Grey 24x24 in.



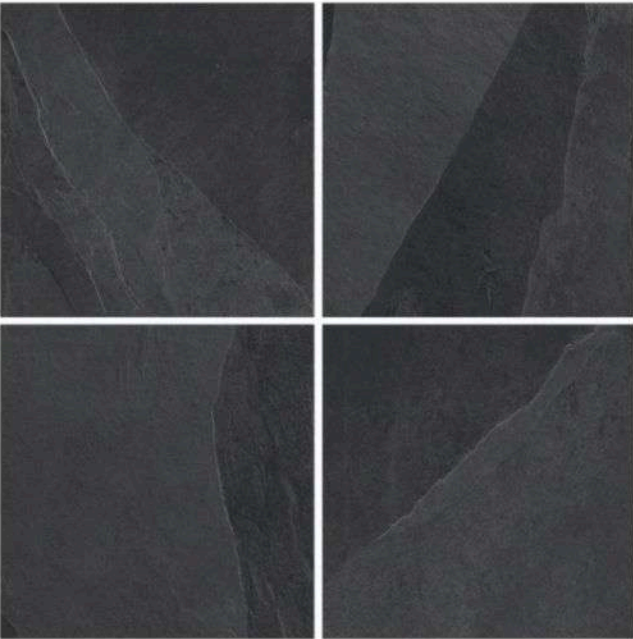
Brazilian Dgy 24x24 in.



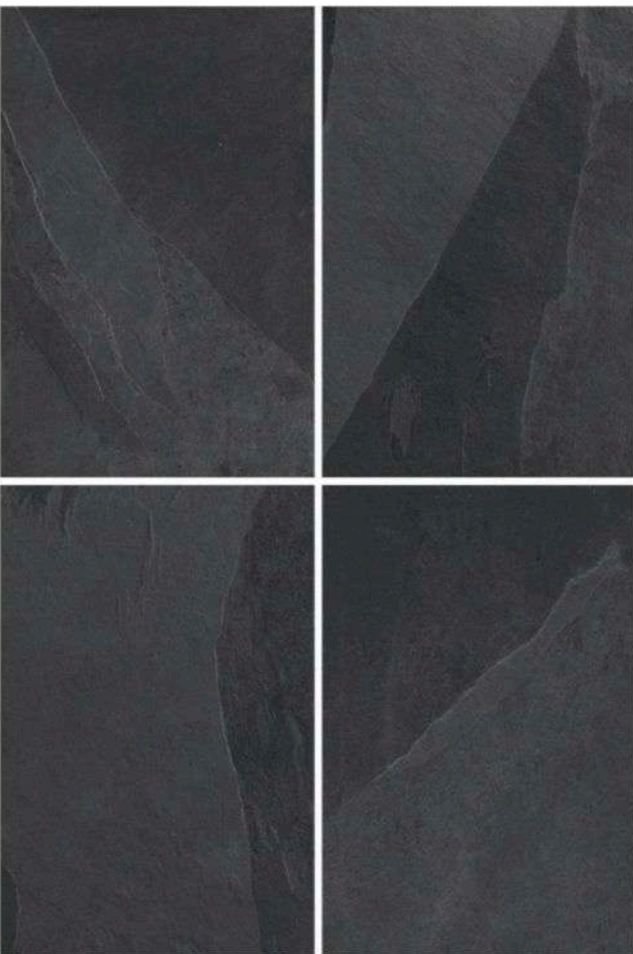


BRAZILIAN

Black 24x24 in.



Black 24x36 in.



Brazilian Black 24x24 in.





BRAZILIAN

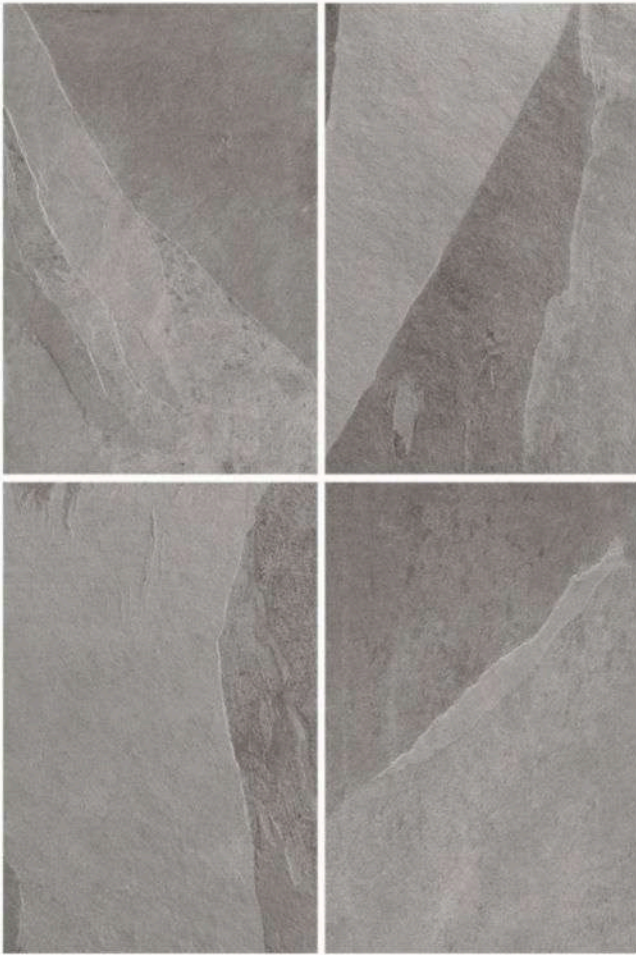
Lgy 24x36 in.



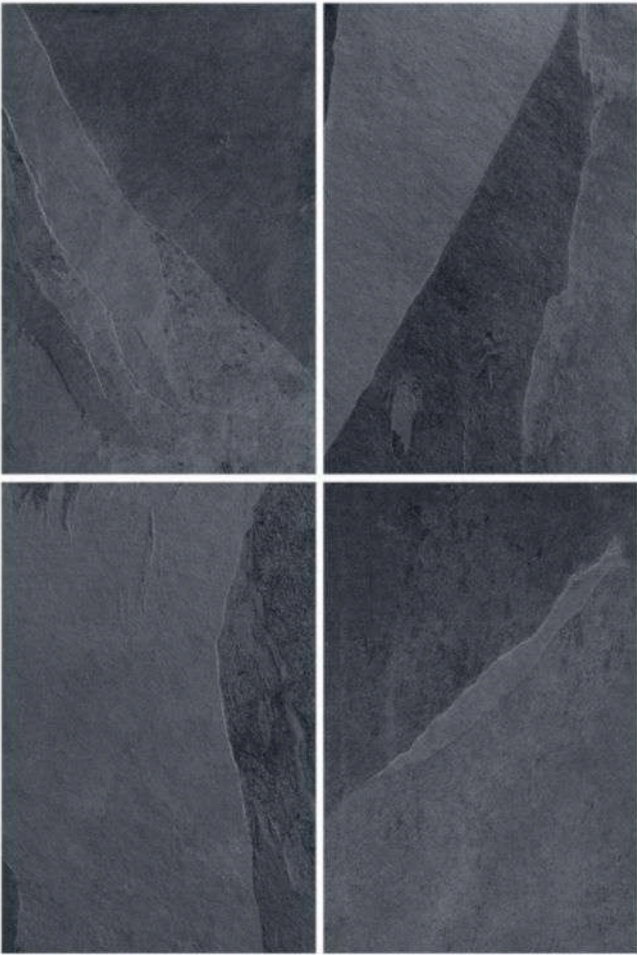
Grey 24x36 in.



Gris 24x36 in.



Dgy 24x36 in.



Brazilian Lgy 24x36 in.



Brazilian Gris 24x36 in.





# CALIFORNIA GOLD



California Gold 24x24 in.



## COLORS



California Gold 24x36 in.



Gold



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.

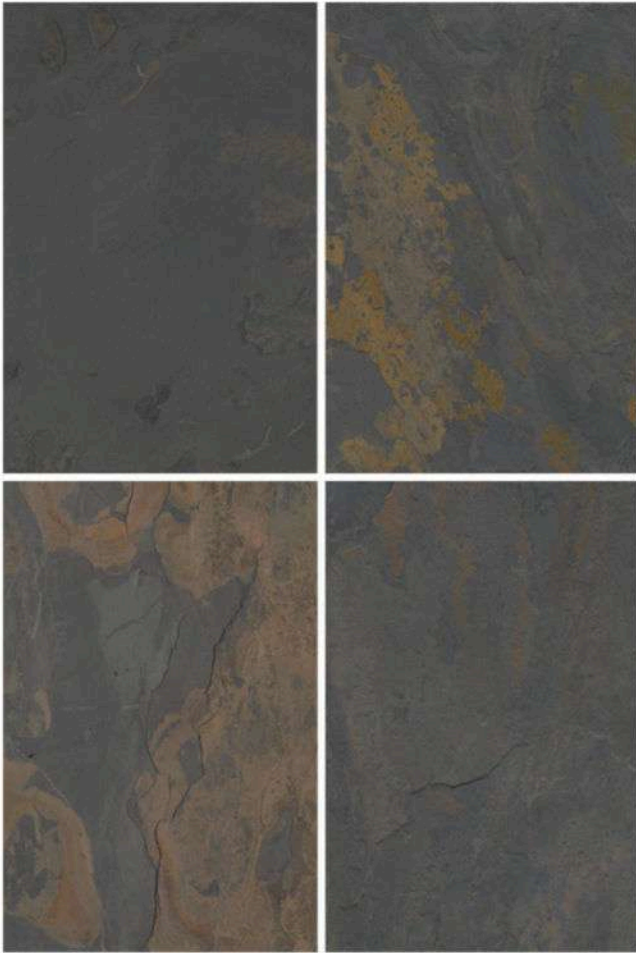


CALIFORNIA GOLD

Gold 24x24 in.



Gold 24x36 in.



California Gold 24x24 in.







Esprit Grey 24x36 in.



COLORS



Esprit Grey 24x36 in.



Grey

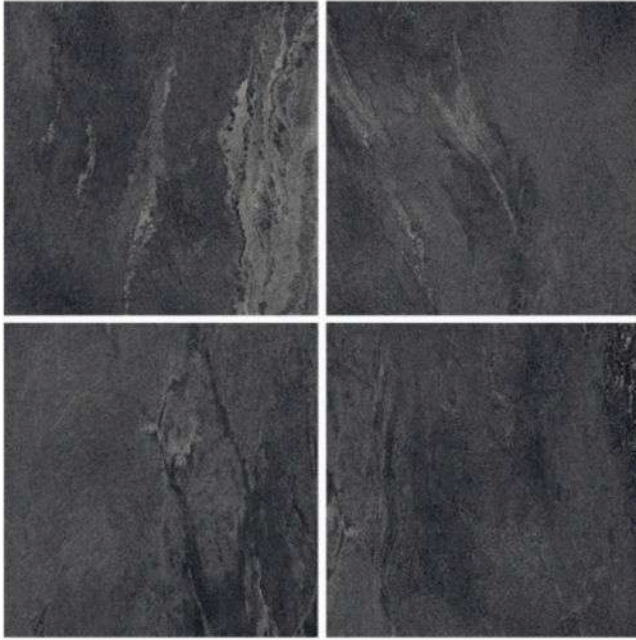




Grey 24x24 in.



Nero 24x24 in.



Esprit Grey 24x24 in.

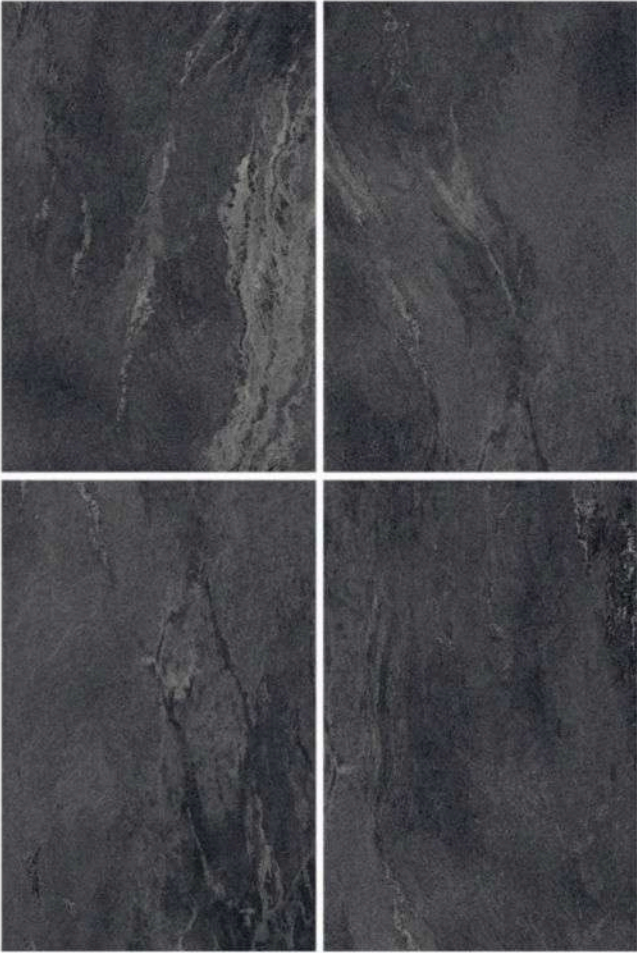




Grey 24x36 in.



Nero 24x36 in.



Esprit Grey 24x36 in.



Esprit Grey 24x36 in.





# BASALT



Basalt Grey 24x36 in.



## COLORS



Basalt Natural 24x36 in.



Natural



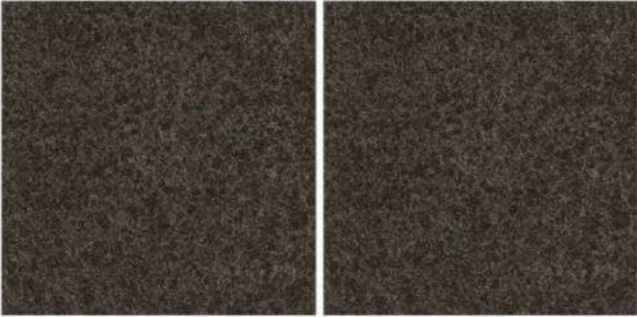


BASALT

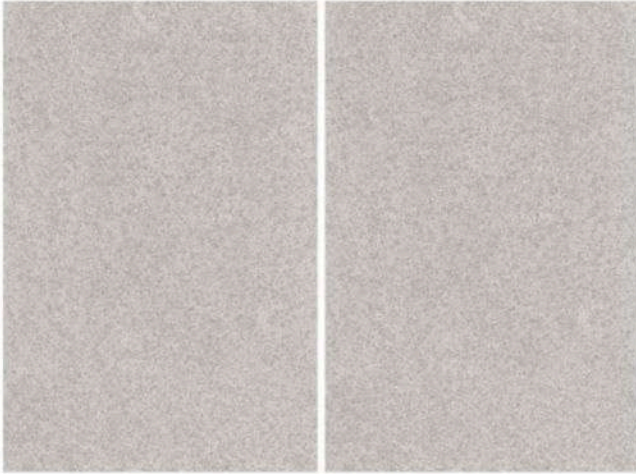
Grey 24x24 in.



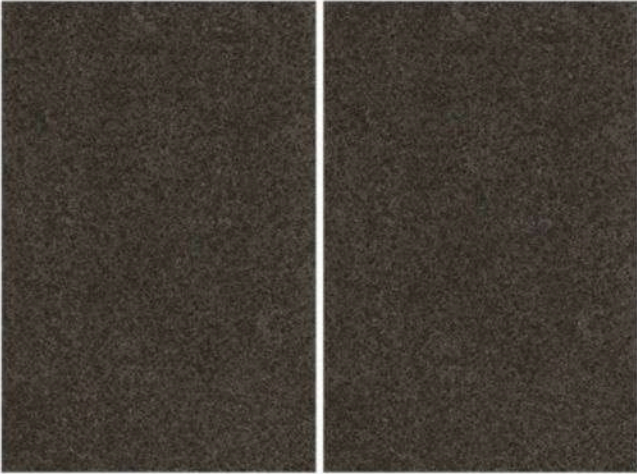
Natural 24x24 in.



Grey 24x24 in.



Natural 24x24 in.



Basalt Natural 24x24 in.



Basalt Grey 24x24 in.





# QUARTZITE



Quartzite Natural 24x36 in.



## COLORS



Quartzite Natural 24x36 in.



Natural



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



QUARTZITE

Natural 24x24 in.



Natural 24x36 in.



Quartzite Natural 24x24 in.





# QUARTZ



Quartz White 24x36 in.



## COLORS



Quartz Grey 24x36 in.



Grey



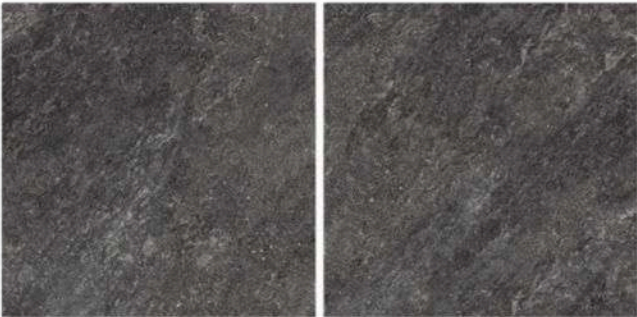


QUARTZ

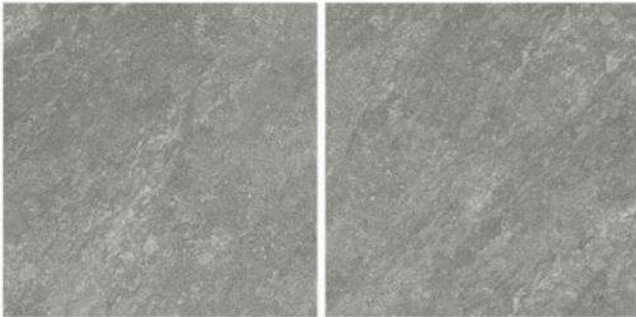
Grey 24x24 in.



Nero 24x24 in.



Dark Grey 24x24 in.



White 24x24 in.



Quartz Grey 24x24 in.



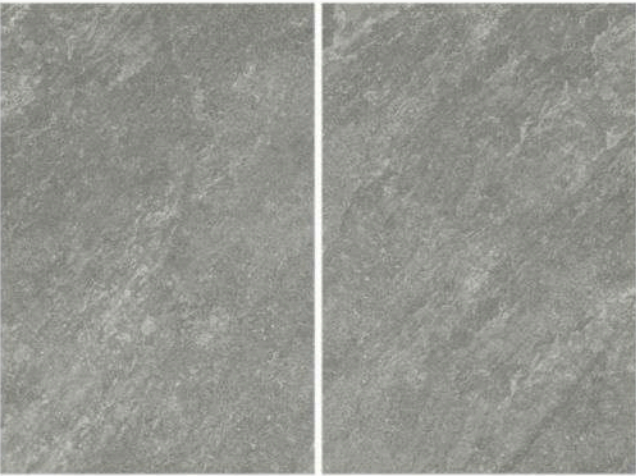
Quartz Dark Grey 24x24 in.





QUARTZ

Dark Grey 24x36 in.



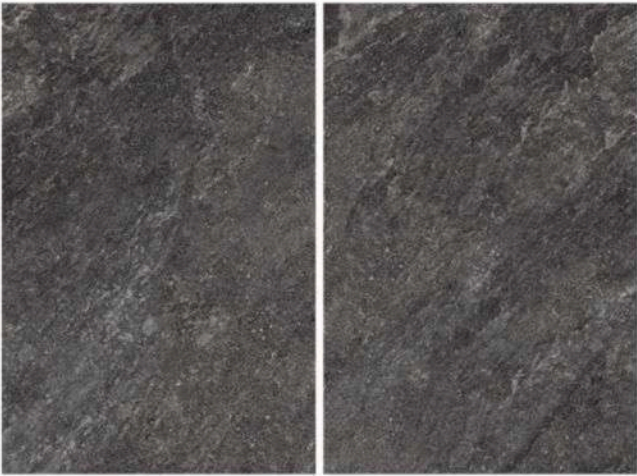
Grey 24x36 in.



White 24x36 in.



Nero 24x36 in.



Quartz Dark Grey 24x36 in.



Quartz White 24x36 in.





# HAMMER STONE



Hammer Stone Beige 24x36 in.



## COLORS



Hammer Stone Grey 24x36 in.



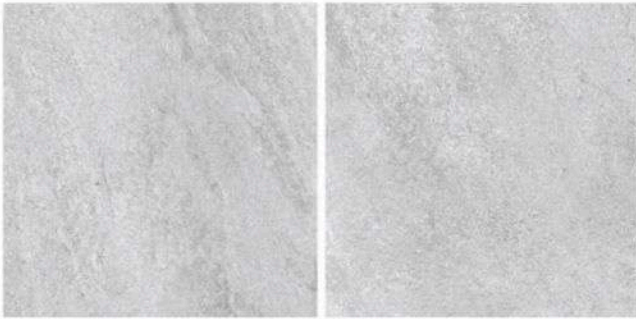
Grey





HAMMER STONE

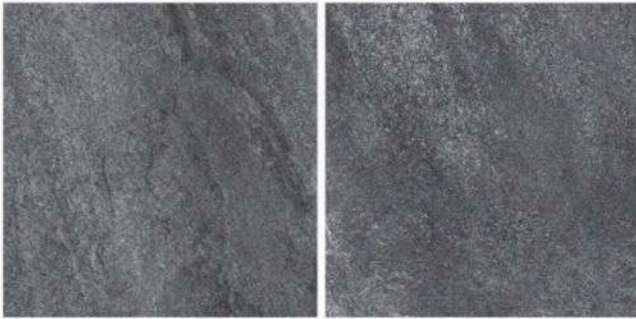
Grey 24x24 in.



Beige 24x24 in.



Nero 24x24 in.



Hammer Stone Grey 24x24 in.



Hammer Stone Nero 24x24 in.





HAMMER STONE

Grey 24x36 in.



Nero 24x36 in.



Beige 24x36 in.



Hammer Stone Grey 24x36 in.



Hammer Stone Beige





# TRAVERTINO RAPULANO



Travertino Rapulano Crema 24x36 in.



## COLORS



Travertino Rapulano Silver 24x36 in.



Silver



20MM  OUTDOOR PORCELAIN | 600x900mm / 24x36 in. | 600x600mm / 24x24 in.



TRAVERTINO RAPULANO

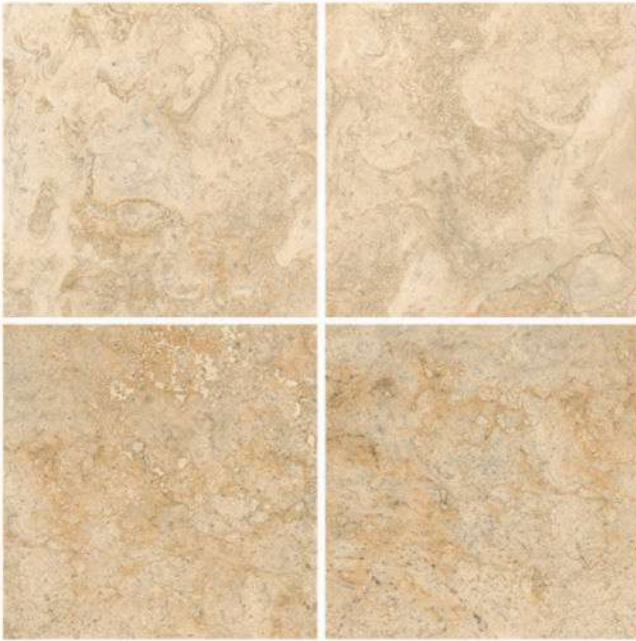
Crema 24x24 in.



Silver 24x24 in.



Gold 24x24 in.



Travertino rapulano Crema 24x24 in.



Travertino rapulano Gold 24x24 in.





TRAVERTINO RAPULANO

Crema 24x36 in.



Silver 24x36 in.



Gold 24x36 in.



Travertino Rapulano Crema 24x36 in.



Travertino Rapulano Gold 24x36 in.





# NATURAL SLATE



Natural Slate 24x36 in.



## COLORS



Natural Slate 24x36 in.



Slate

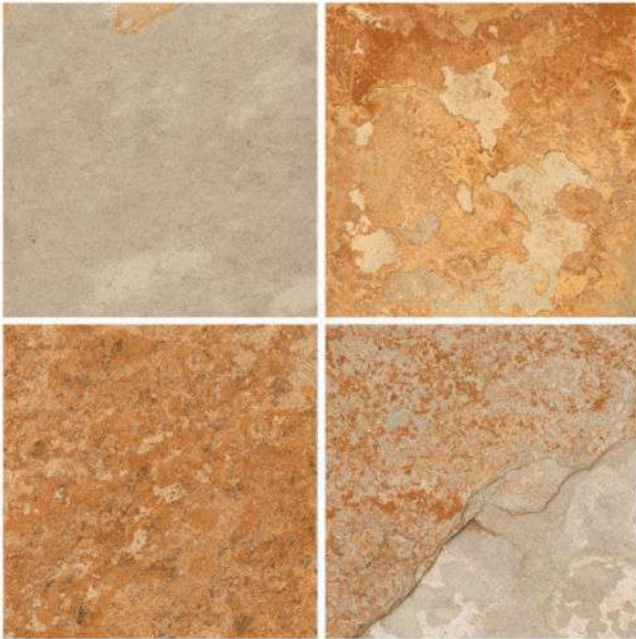


244  
245



NATURAL SLATE

Slate 24x24 in.



Slate 24x36 in.



Natural slate 24x36 in.





# COBBLE STONE



Cobble Stone Ash 24x36 in.



## COLORS



Cobble Stone Grey 24x36 in.



Grey



248  
249

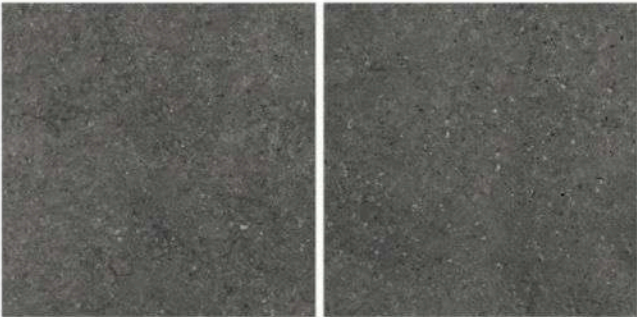


COBBLE STONE

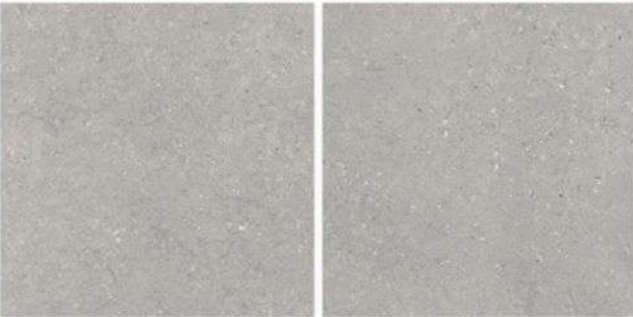
Ash 24x24 in.



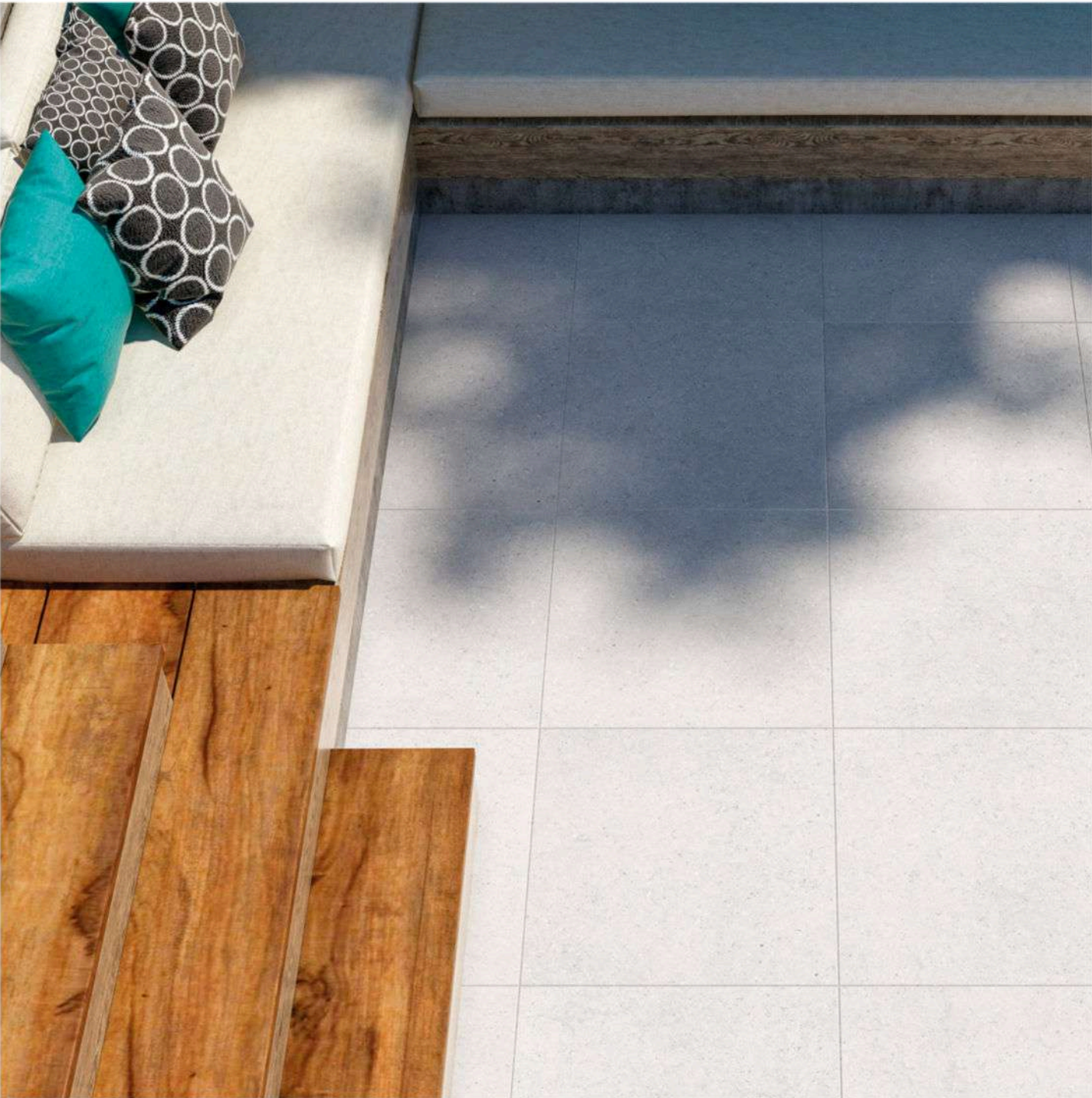
Nero 24x24 in.



Grey 24x24 in.



Cobble Stone Ash 24x24 in.



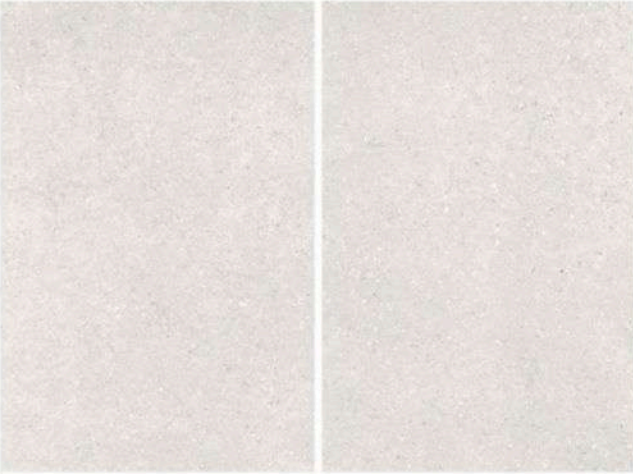
Cobble Stone Grey 24x24 in.



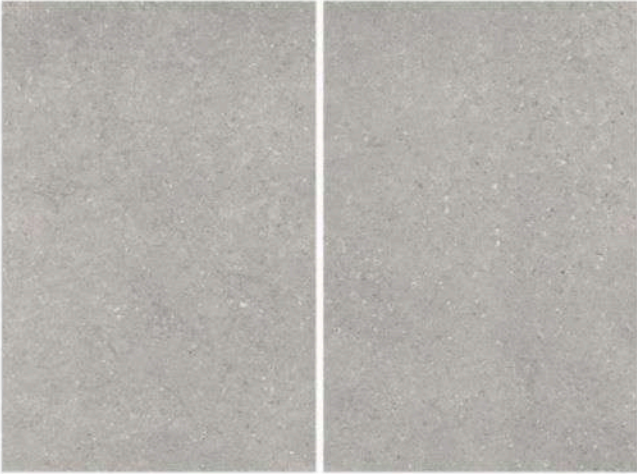


COBBLE STONE

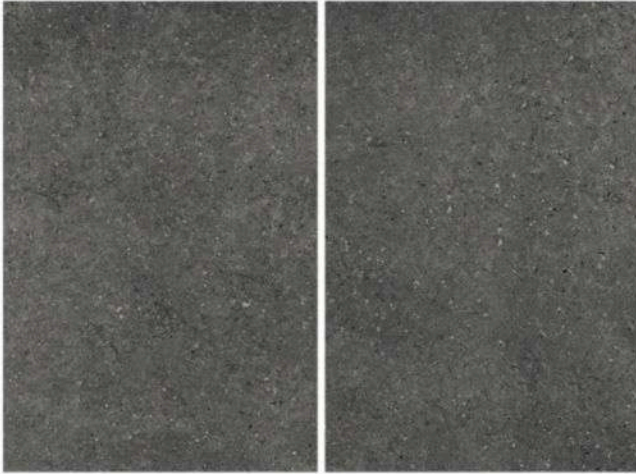
Ash 24x36 in.



Grey 24x36 in.



Nero 24x36 in.



Cobble stone Ash 24x36 in.



Cobble stone Nero 24x36 in.





# BLUE STONE



Blue Stone Grey 24x36 in.



## COLORS



Blue Stone Black 24x36 in.

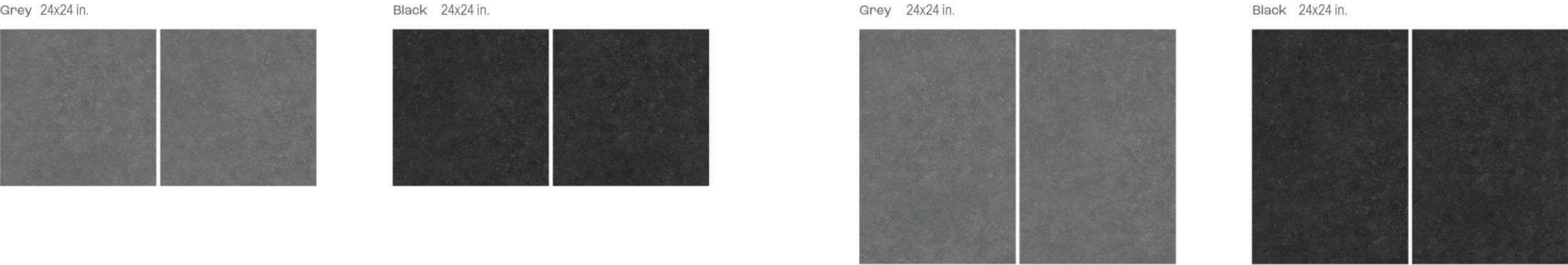


Black





BLUE STONE



Blue Stone Black 24x24 in.



Blue Stone Grey 24x24 in.





# NOOR



Noor Crema 24x36 in.



## COLORS



Noor Grigio 24x36 in.



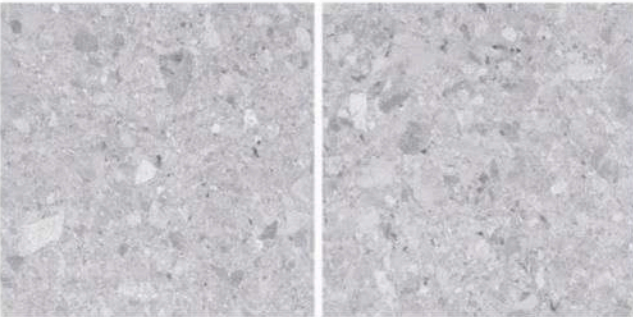
Grigio





NOOR

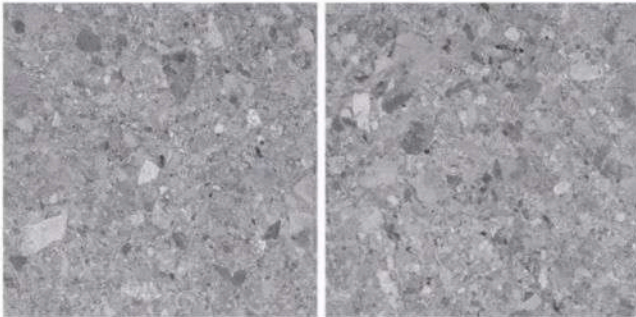
Lgy 24x24 in.



Crema 24x24 in.



Grigio 24x24 in.



Noor Lgy 24x24 in.



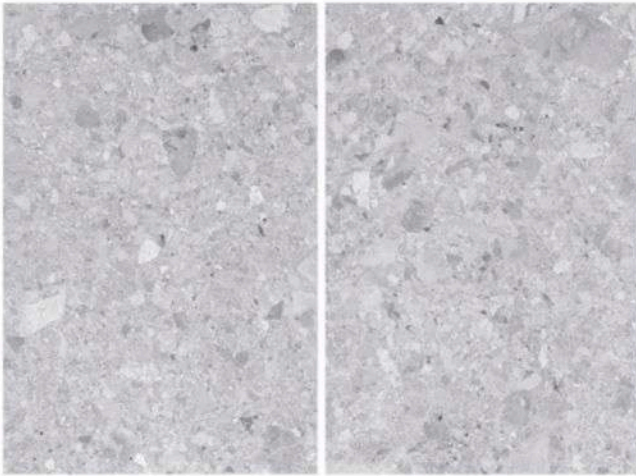
Noor Grigio 24x24 in.



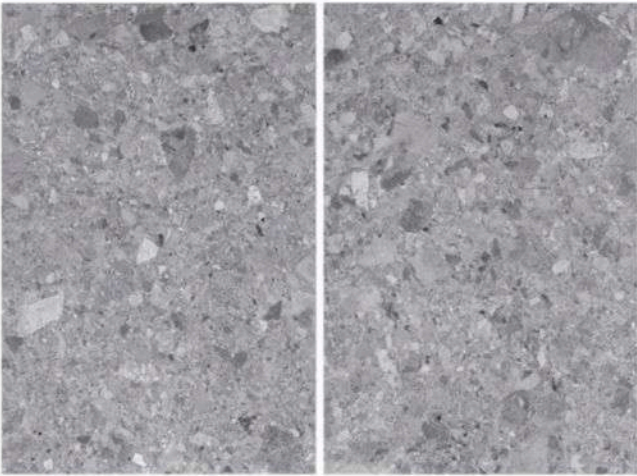


NOOR

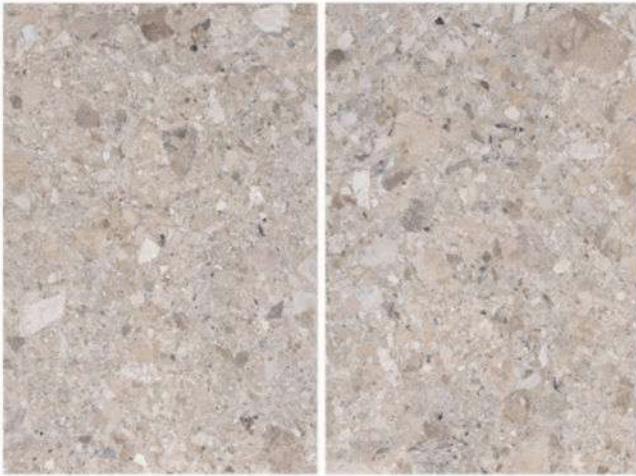
Lgy 24x36 in.



Grigio 24x36 in.



Crema 24x36 in.



Noor Lgy 24x36 in.



Noor Crema 24x36 in.





## 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/mm²<br>Span Length = 580 mm<br>Average thickness of the tiles measured = 19.81 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Average : 39.0 N/MM²                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | (Gr. B Ia)<br>Average 38 N/mm²<br>Individual 35 N/mm² Minimum                                                                                                                                               | Passed the test                                                                                                                                                                      |
| 3       | Breaking Strength (N)<br>Span Length = 580 mm<br>Average thickness of the tiles measured = 19.81 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Average : 8090.0 N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | (Gr. B Ia)<br>For thickness > 7.5 mm<br>1200 N minimum                                                                                                                                                      | Passed the test                                                                                                                                                                      |
| 4       | Scratch Hardness Surface (Mohs' scale)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | No. 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | (Gr. B Ia)<br>For commercial application 6 minimum,<br>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)<br>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 (10⁻⁶ K⁻¹)<br>B = 4.6883 (10⁻⁶ K⁻¹)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | -                                                                                                                                                                                                           | Passed the test                                                                                                                                                                      |
| 8       | Straightness of Sides (facial sides)<br>The maximum deviation from straightness in percent related to the corresponding work sizes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ± 0.05 % (Max)<br>± 0.08 % (Max)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | (Gr. B Ia)<br>S > 410 cm²<br>± 0.1 %                                                                                                                                                                        | Passed the test                                                                                                                                                                      |
| 9       | Rectangularity<br>The maximum deviation from straightness in percent related to the corresponding work sizes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ± 0.10 % (Max)<br>± 0.10 % (Max)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ± 0.1 %                                                                                                                                                                                                     | Passed the test                                                                                                                                                                      |
| 10      | Surface Flatness<br>The maximum deviation from flatness in percent<br><br>(a) Centre of curvature related to diagonal calculated from work size.<br>(b) Edge of curvature related to the corresponding work size<br>(c) Warpage related to the diagonal calculated from the Work Size                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | ± 0.17 % (Max)<br><br>+ 0.10 % (Max)<br>± 0.14 % (Max)<br>± 0.09 % (Max)<br>± 0.06 % (Max)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ± 0.2 %<br><br>± 0.2 %<br>± 0.2 %                                                                                                                                                                           | Passed the test<br>Passed the test<br>Passed the test                                                                                                                                |
| 11      | Chemical resistance<br><br>Five test specimens were treated with following solns.<br>(a) Centre of curvature related to diagonal calculated from work size.<br>(b) Edge of curvature related to the corresponding work size<br>(c) Warpage related to the diagonal calculated from the Work Size<br>Five test specimens were treated with following solns.<br><b>1. Household Chemicals</b><br><br>a) Ammonium Chloride soln. (100 gm/l)<br><br>b) Standard cleaning Agent soln., (as per procedure)<br><b>2. Swimming pool salts</b><br><br>a) Sodium Hypochlorite Soln. (20 mg / l)<br><br>b) Copper Sulphate Soln. (20 mg / l)<br><b>3. Acids</b><br><br>a) Hydrochloric acid Soln. 3 % (v/v)<br><br>b) Citric acid Soln. (200 mg / l)<br><b>4. Alkali</b><br><br>Potassium hydroxide soln., (200 mg / l) | ± 0.17 % (Max)<br><br>± 0.10 % (Max)<br>± 0.14 % (Max)<br>± 0.09 % (Max)<br>± 0.06 % (Max)<br><br>No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.<br><br>No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.<br><br>No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.<br><br>No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.<br><br>No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.<br><br>No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.<br><br>No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. | ± 0.2 %<br><br>± 0.2 %<br>± 0.2 %<br><br>" Class - AA " min.<br><br>" Class - AA " min.<br><br>" Class - AA " min.<br><br>" Class - AA " min.<br><br>Conformed to "Class-AA"<br><br>Conformed to "Class-AA" | Passed the test<br>Passed the test<br>Passed the test<br><br>Conformed to "Class-AA"<br>Conformed to "Class-AA"<br>Conformed to "Class-AA"<br>Conformed to "Class-AA"                |

|    |                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                         |                            |                 |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-----------------|
| 12 | <p>Skid Resistance / Surface Slip Resistance</p> <p>(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</p> <p>b) Direction of Test</p> <p>1) Parallel to sides (4 Measurements)</p> <p>2) Diagonal to sides (4 Measurements)</p> | <p>Coefficient of friction <math>\mu</math></p> <p>1) 0.83</p> <p>2) 0.78</p> <p>3) 0.77</p> <p>4) 0.79</p> <p>5) 0.76</p> <p>6) 0.75</p> <p>7) 0.76</p> <p>8) 0.76</p> | As per ISO 10545 Part - 17 | -               |
| 13 | Molsture expansion ln(mm / mtr.)                                                                                                                                                                                                                                                                                             | 0.00                                                                                                                                                                    | -                          | Passed the test |
| 14 | Skid Resistance/ Surface Slip Resist-<br>ance BS EN Standard specification<br>EN:14411 :2016 ( Group BIa)                                                                                                                                                                                                                    |                                                                                                                                                                         | R-11                       | R-11            |

## PACKING DETAILS (OUTDOOR)

| SIZE              | WEIGHT /<br>BOX (KG) | PCS /<br>BOX | BOXES /<br>PALLATE | PALLATE /<br>CTN | BOXES /<br>CTN | MT2 /<br>BOX | MT2 /<br>PALLATE | MT2 /<br>CTN | WEIGHT /<br>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                |
| 600x1200mm (20mm) | 31.5                 | 1            | 30                 | 29               | 870            | 0.72         | 21.6             | 626.4        | 27950                |
| 300x1200mm (20mm) | 31.5                 | 2            | 28                 | 30               | 840            | 0.72         | 20.16            | 604.8        | 27500                |
| 800x800mm (20mm)  | 29.5                 | 1            | 30                 | 31               | 930            | 0.64         | 19.2             | 595.2        | 27800                |

## PACKING DETAILS (PATIOPACK)

| SIZE            | PCS/ CRAT | MT2/ PCS | MT2/ CRAT<br>(EACH SIZE) | IN KGS / CRAT | CRAT / CTN | MT2/ CTN | WEIGHT / CTN<br>(Kg) |
|-----------------|-----------|----------|--------------------------|---------------|------------|----------|----------------------|
| 600X900mm(20mm) | 18        | 0.54     | 9.72                     | 423.00        | 29         | 610.74   | 27282                |
| 600x800mm(20mm) | 18        | 0.36     | 6.48                     | 270.00        |            |          |                      |
| 600x296mm(20mm) | 18        | 0.18     | 3.24                     | 148.50        |            |          |                      |
| 296x296mm(20mm) | 18        | 0.09     | 1.62                     | 76.50         |            |          |                      |

| BOX DESIGN                                                                                             | STANDARD SAFEDA PALLATE                                                                                       |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
|  <p>600x600mm</p> |  <p>1193.80x749.30mm</p> |
|  <p>600x900mm</p> |  <p>1003.30x749.30mm</p> |



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