

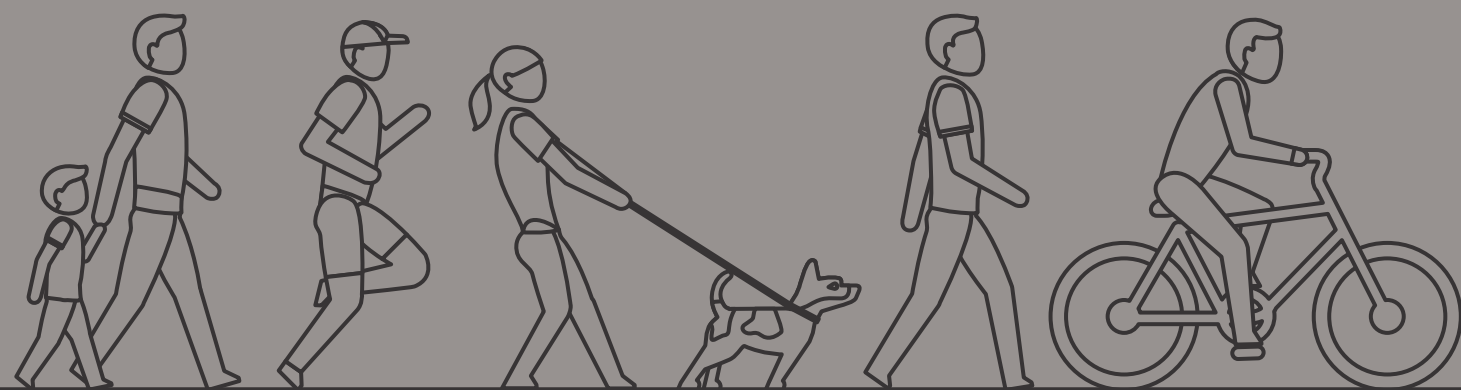


RioStone

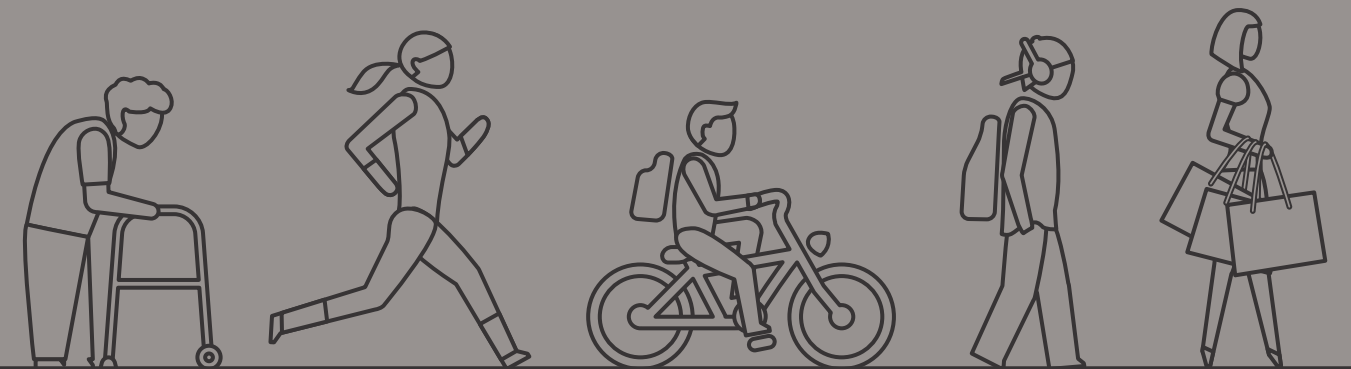
OUTDOOR SURFACES

20 mm [▲]_▼ OUTDOOR PORCELAIN





Let's walk fearlessly. Run like no one else. Experience peace.



Explore yourself. Go beyond. Feel the nature. Enjoy limitlessly.

_Index



Explore the adventure of diverse surfaces.

Size
600x900mm
600x600mm

Mix Patio Pack
296x600mm
296x296mm

Stone Series

Brasilian Pg. 27

Quarzite Pg. 31

Hammer Stone Pg. 36

Cotto Pg. 41

Elite Stone Beige Pg. 45

Natural Slate Pg. 45

Rough Bruno Pg. 45

Country Pg. 50

Cobble Stone Pg. 55

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Core Stone Pg. 64

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Basaltina Crema Pg. 75

Slate Impeio Pg. 75

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Size
600x900mm
600x600mm

Mix Patio Pack
296x600mm
296x296mm

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Cementino Pg. 94

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Size
300x1200mm

Wood Series

Cherry Wood Pg. 113

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800x 800mm

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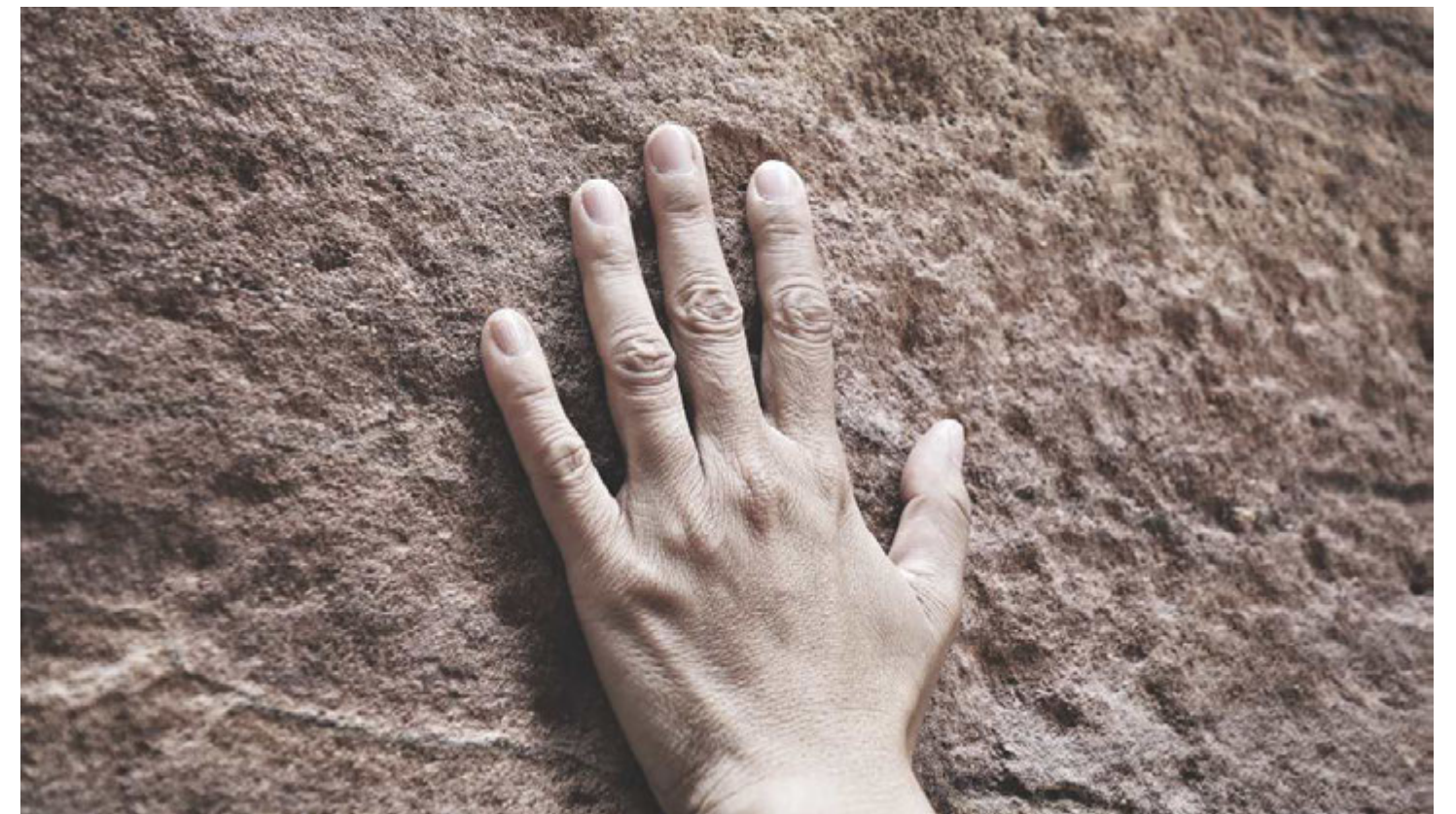
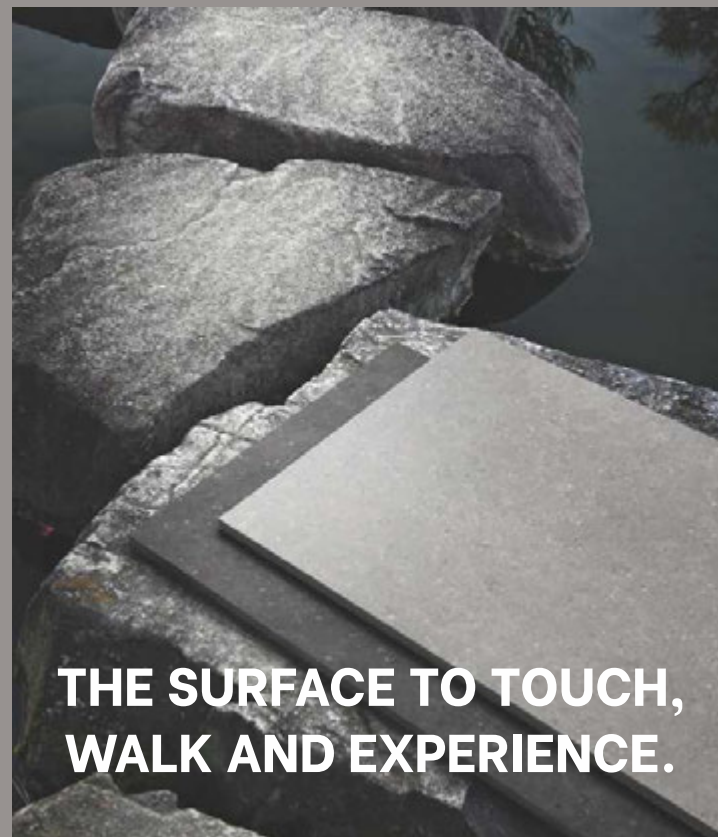
Brasilian Pg. 135

Earthen Pg. 138

Blue Stone Pg. 141

01_ Preface

RioStone
OUTDOOR SURFACES



20mm - OUTDOOR PORCELAIN

For those who believe in nature and value craftsmanship. When you step outdoor to start your day, Rio Stone gives you the warmth of nature and at the end of the day, when you walk back home, once again experience the rejuvenation of Mother Nature beckoning you.

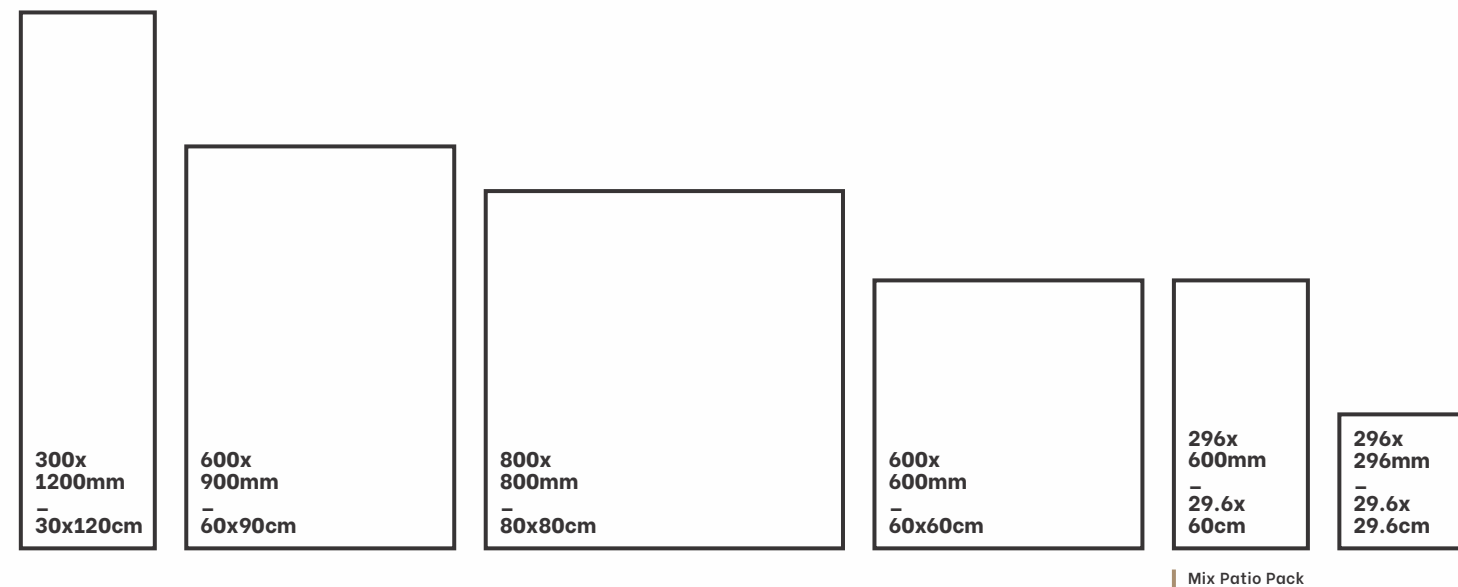
02_ Sizes

20^{mm} OUTDOOR
PORCELAIN

EXTREME STRENGTH - A REVOLUTION IN OUTDOOR SURFACES

Rio Stone offers a mind-boggling range of products in 20mm thickness with wide range of sizes. Our portfolio promises elegance, reliability and robustness in external floorings to withstand rough usage and regular wear and tear. Deliberately done, highly random designs add a natural rustic look to the range. Our wide range of products offers unlimited options for all outdoor living spaces.

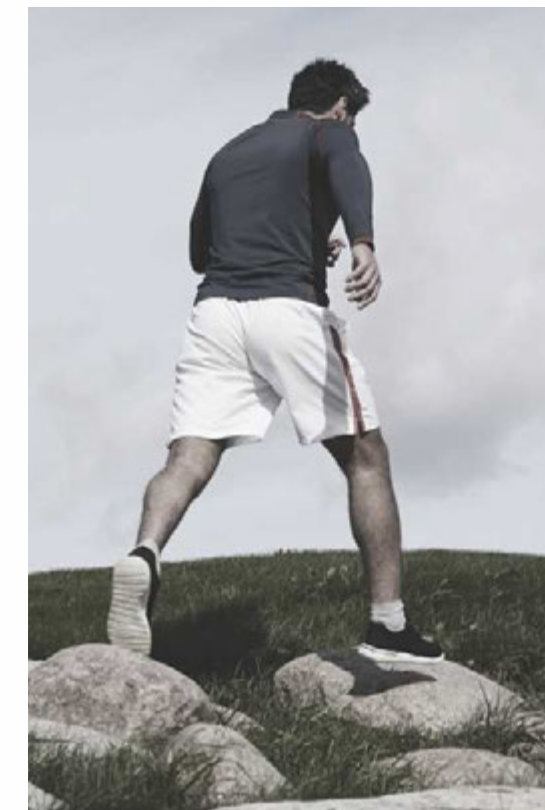
Rio Stone 20mm outdoor porcelain is made of 100% porcelain and have WA of less than 0.5% that enables our products to withstand high levels of temperature variations. A higher break threshold in 20mm tiles enhances its capability to withstand heavier loads. These characteristics make Rio Stone 20mm outdoor porcelain one of the best options for outdoor paving over Sandstone and Limestone.



Mix Patio Pack



Rio Stone 20mm outdoor porcelain are the result of the perfect combination of design and technology-enabled performance. This makes us an ideal partner for an architectural project anywhere in the world that requires unparalleled designs and performance.



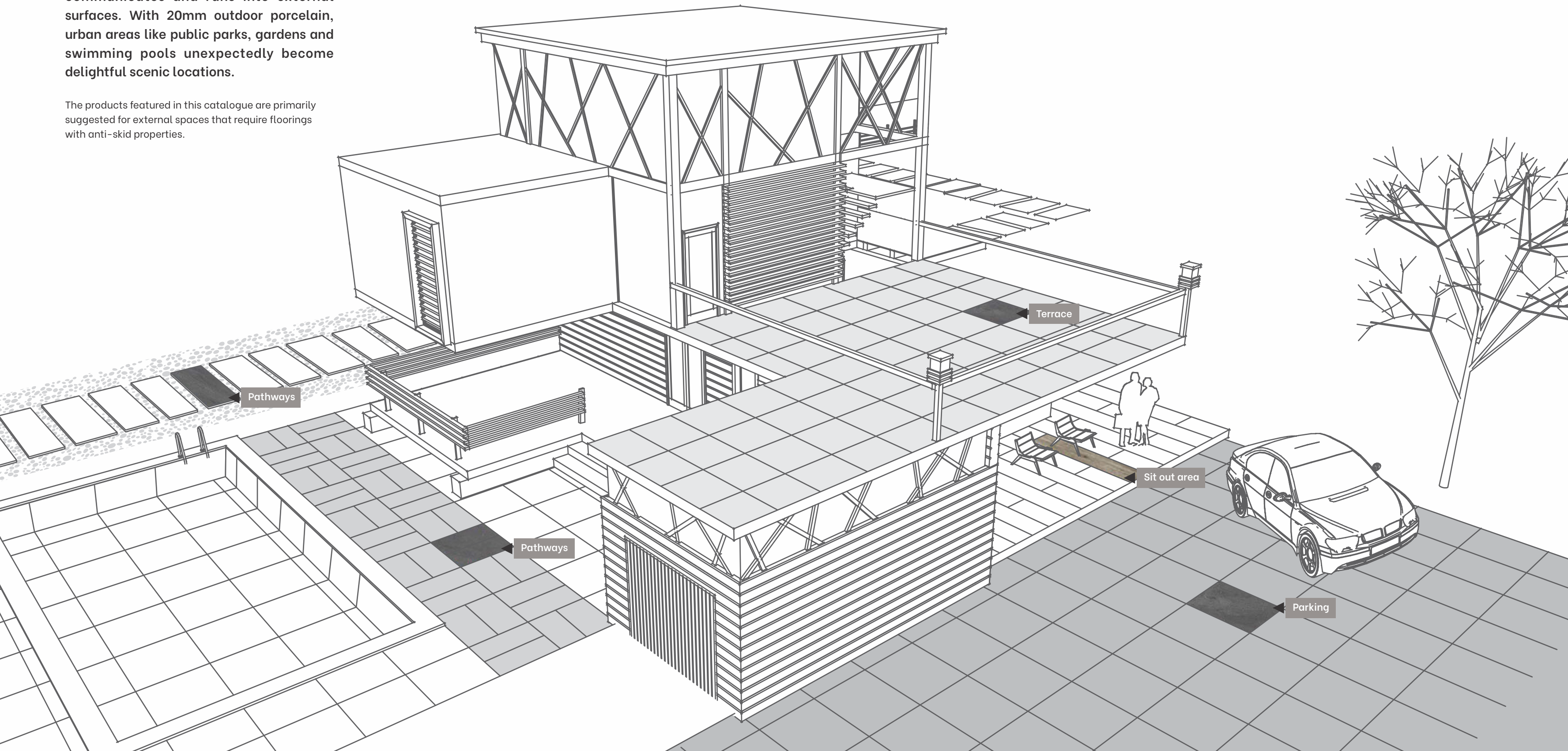
The inspiration to develop with exceptional creativity is drawn from Mother Nature itself. Our designs and aesthetics are inspired by trending designs from Italy and sourced from well-experienced professional studios.



03_ Applications

Terraces, pathways and covered pools clad with 20mm outdoor porcelain effortlessly merge with the surrounding spaces and nature. Internal flooring that seamlessly communicates and runs into external surfaces. With 20mm outdoor porcelain, urban areas like public parks, gardens and swimming pools unexpectedly become delightful scenic locations.

The products featured in this catalogue are primarily suggested for external spaces that require floorings with anti-skid properties.



04_ Our Story

As a private limited company based in Western India's ceramic hub Morbi in Gujarat, Simola is one of the most reputed manufacturers of technologically-advanced vitrified tiles. We make some of the most exclusive range of vitrified tiles for internal, as well as, external surfaces for homes and commercial establishments. Our name - Simola represents all

facets of a responsible and innovative design house. Exclusivity in design, perfect finishes and a wide range is what defines Simola. Manufactured using top-quality certified input material, Simola tiles offer the best blend of modern design, pleasing aesthetics and long-lasting strength and functionality.

FUNCTIONAL MODERNITY

Simola Group is a reputed manufacturer of technologically-advanced vitrified tiles for domestic and commercial application.

Strategically located in Morbi, Gujarat - the ceramic hub of India, Simola's state-of-the-art manufacturing unit is powered by "SYSTEM", the internationally-acclaimed leader in manufacturing machines and plants in the ceramic industry used worldwide.

Exclusivity in design and exquisiteness in finish is what defines Simola's product range. Manufactured using highest quality certified input material and cutting-edge technology, our tiles come loaded with the best blend of modern aesthetics

and long-lasting strength. As a unique offering, we make germ-resistant tiles that assure total hygiene and bacteria and fungi-free environment. Our tiles also facilitate dry and dirt-free floors that are easy to clean making them ideal for a healthy living.

Simola is promoted by a group which is well versed with ceramic manufacturing industry since the 90's. We are managed by a small, young and dynamic team that values modernity that comes with rich experience and knowledge of the business. With a strong national and international footprint, Simola is all set to achieve greater heights in the ceramic industry by unleashing a new era in tile design and product excellence.

SIMOLA'S APPROACH - MODERNISM POWERED BY COMPETENCE.

Simola's strength lies in its world-class manufacturing practices. We are powered through a strong technical collaboration with SYSTEM Group, which ensures that our ultra-modern plants are based on a robust technology platform and operate with state-of-the-art equipment and machinery.

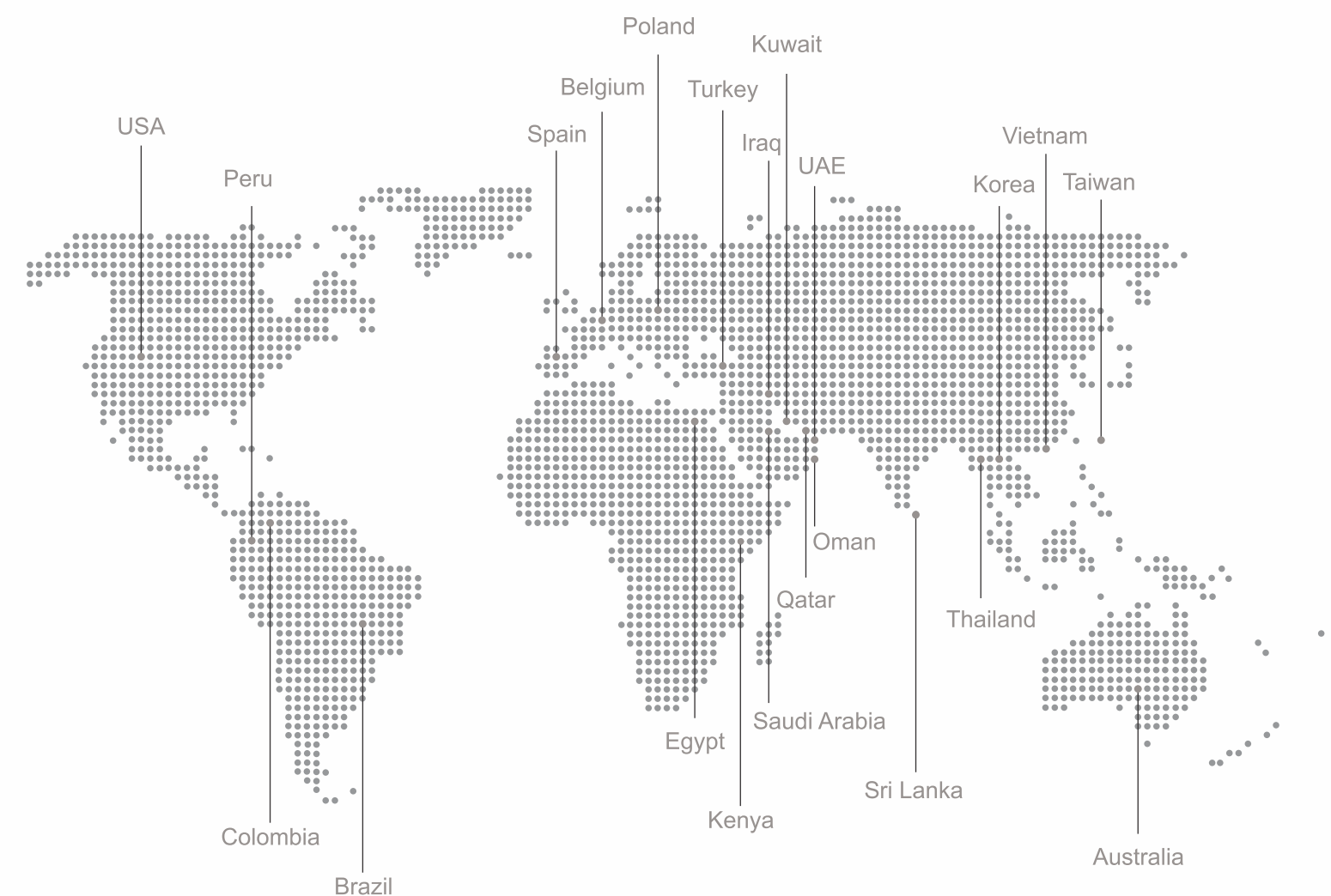
With a current per day manufacturing capability of over 10,000 square meters of ultra-tech tiles, we have ample capacity to meet the requirements of any bulk size orders from any of our reputed national and international clients. Our plant is also in the process of adding another 30,000 square

metres of tile manufacturing capacity in the near future. Within the plant precincts is our state-of-the-art quality assurance lab, which is manned by experienced and highly-trained technicians who work on some of the world's best testing equipments to check the quality of all input material, their strength, resistance, durability and other physical features to output optimal quality tiles. Our plant also houses a modern warehouse, with optimum product safety with ample storage capacity to undertake timely despatches to our clients, anywhere in the world.

05_ Overseas Network

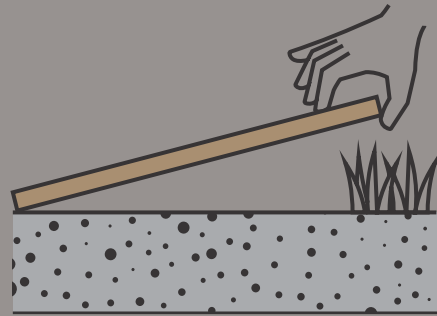
AN EXPERIENCED EXPORT COMPANY WITH GLOBAL CUSTOMER BASE.

Highest GVT exporter, based in Morbi



We are proud to proclaim that we are one of the few 20mm tiles manufacturers and exporters from India with a global customer base. Also, we are one of the few Indian exporters who can boast about having professional expertise in operating one of the world's most modern and environmentally efficient manufacturing plants.

06_ Laying Methods



DRY LAYING ON GRASS

On a grassy surface, installation is carried out by dry laying of the tiles on grass without any adhesives.

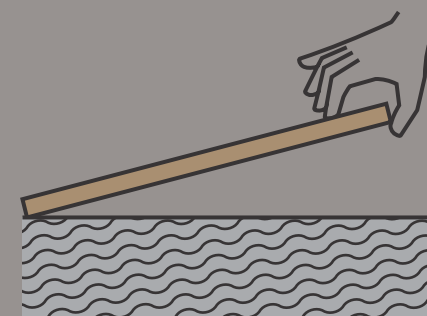
INSTALLATION ON GRASS COULD BE DONE IN TWO WAYS:

1_ ON GRAVEL BASE

- Remove the grass underneath the 20mm tile.
- Dig for a depth of up to 5cm during warm and dry climate or deeper during cold and wet seasons.
- Compact the soil which will come under the tile.
- Fill the excavated area with gravel (sized 4-8mm) or sand and compact it.
- Lay the dry 20mm tile over this prepared area.

2_ DIRECT

Place the tile on grass ensuring that a wide gap of 4-5cm is left between two tiles for fresh grass to grow. In the Direct route too, the results are long-lasting, but the tile stability is subjected to soil conditions and movements.



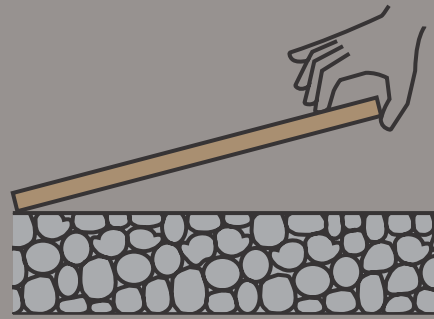
LAYING ON SCREED WITH ADHESIVE

Rio Stone 20mm outdoor porcelain can be fixed over screed to create a floor with high technical performance. Such surfaces are suitable for use in exceptionally high-stress applications like vehicular traffic etc.

HOW TO INSTALL ON SCREED

- Dig up the soil and compact the ground over which tiles will be laid.
- Place a layer of crushed stones and gravel as a base..
- Place the slab including optional steel mesh.
- Install the 20mm tile with the help of an exterior grade elastic adhesive.

Leave a gap of at least 5mm at every joint to provide for expansion.

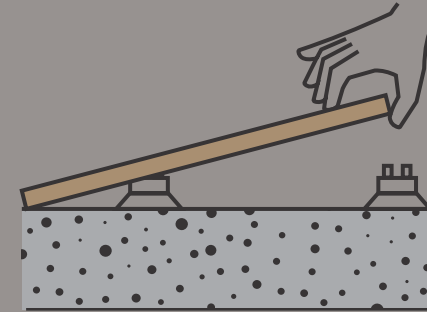
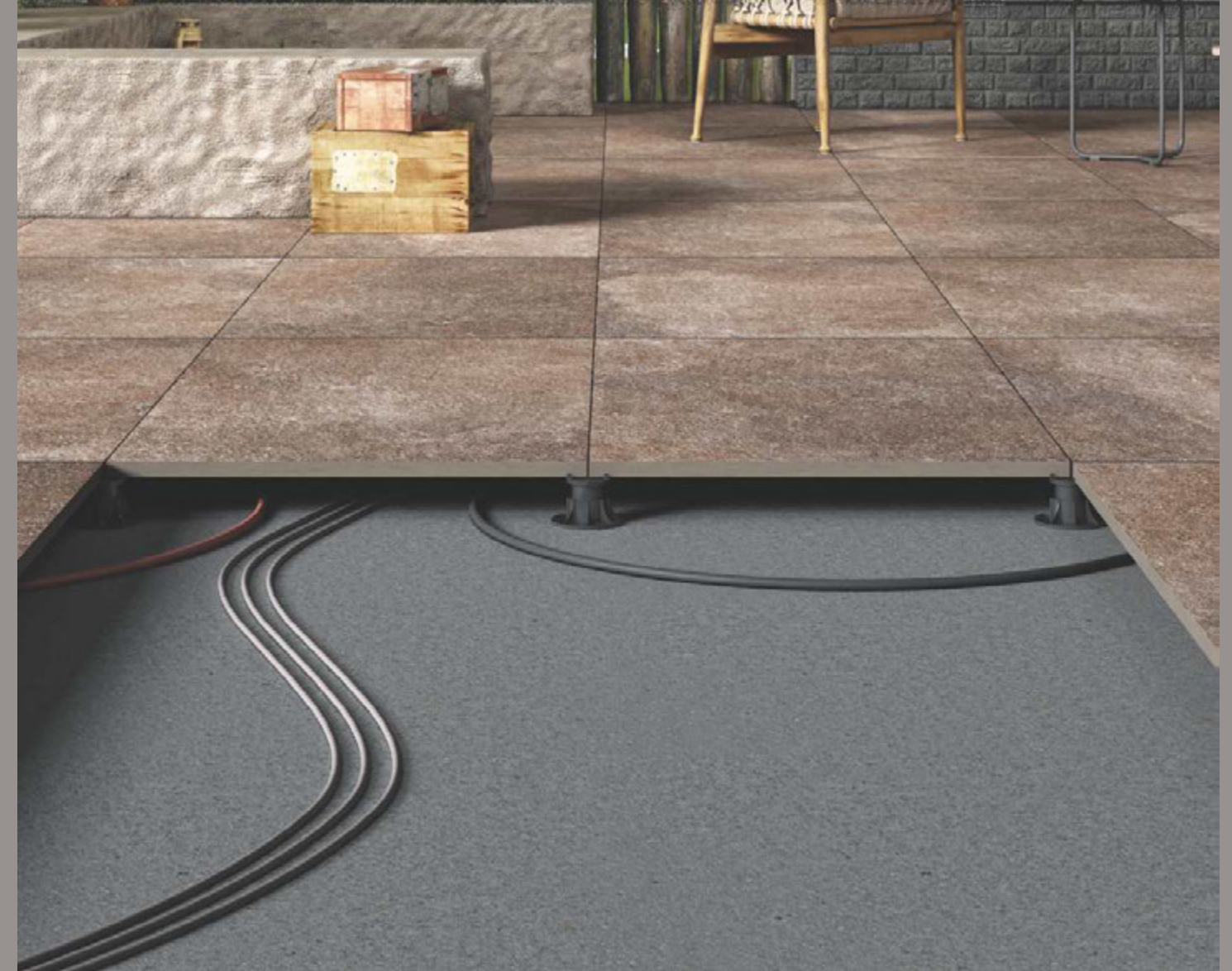


LAYING ON GRAVEL

Rio Stone 20mm outdoor porcelain is a multi-functional solution capable of adapting to the ground. Besides, allowing the development of large surfaces over gravel, it also reduces the occurrence of joints making the surface appear seamless.

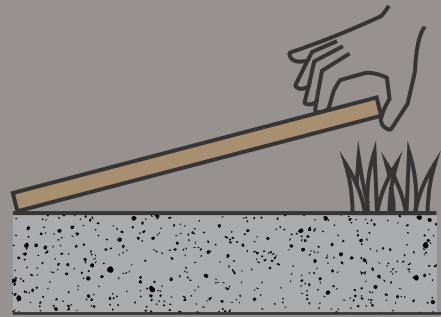
HOW TO INSTALL

- Dig the soil at least for 10cm during warm and dry weather or deeper in a cold or wet climate.
- Compact the soil at the base and ensure that it is leaning ($\geq 2\%$) to avoid stagnation of water.
- Optional - Place a layer of geotextile for additional strength
- Place a layer of crushed stone and gravel (size 4-8mm) and compact it well.
- Place a layer of fine gravel or sand (size 2-5mm) to achieve a fairly levelled surface.
- With a Straight-Edge, ensure that the surface is levelled correctly. A minor gradient ($\geq 1\%$) is recommended to achieve proper drainage of water.
- On this surface, place 20mm tiles leaving a gap of 5mm at joints for expansion.
- Tile spacers could also be used to ease installation. Level the surface with a Straight Edge and use a rubber hammer to rectify the minor height differences, if any.
- Fill the joints with very thin layer of sand or polymeric sand.



OUTDOOR LAYING ON RAISED FLOORING

On terraces or accessible attics, it is possible to build raised level flooring that even allows for rainwater drainage. After the slab and its sloping screed are complete, install the waterproofing membrane. Position the pedestal according to the desired size and use the slope corrector, if necessary. During the installation process, correctly adjust each pedestal to achieve a smooth flat floor.



DRY LAYING ON SAND

It is possible to easily create walkways and installations on sandy grounds with minimal effort.

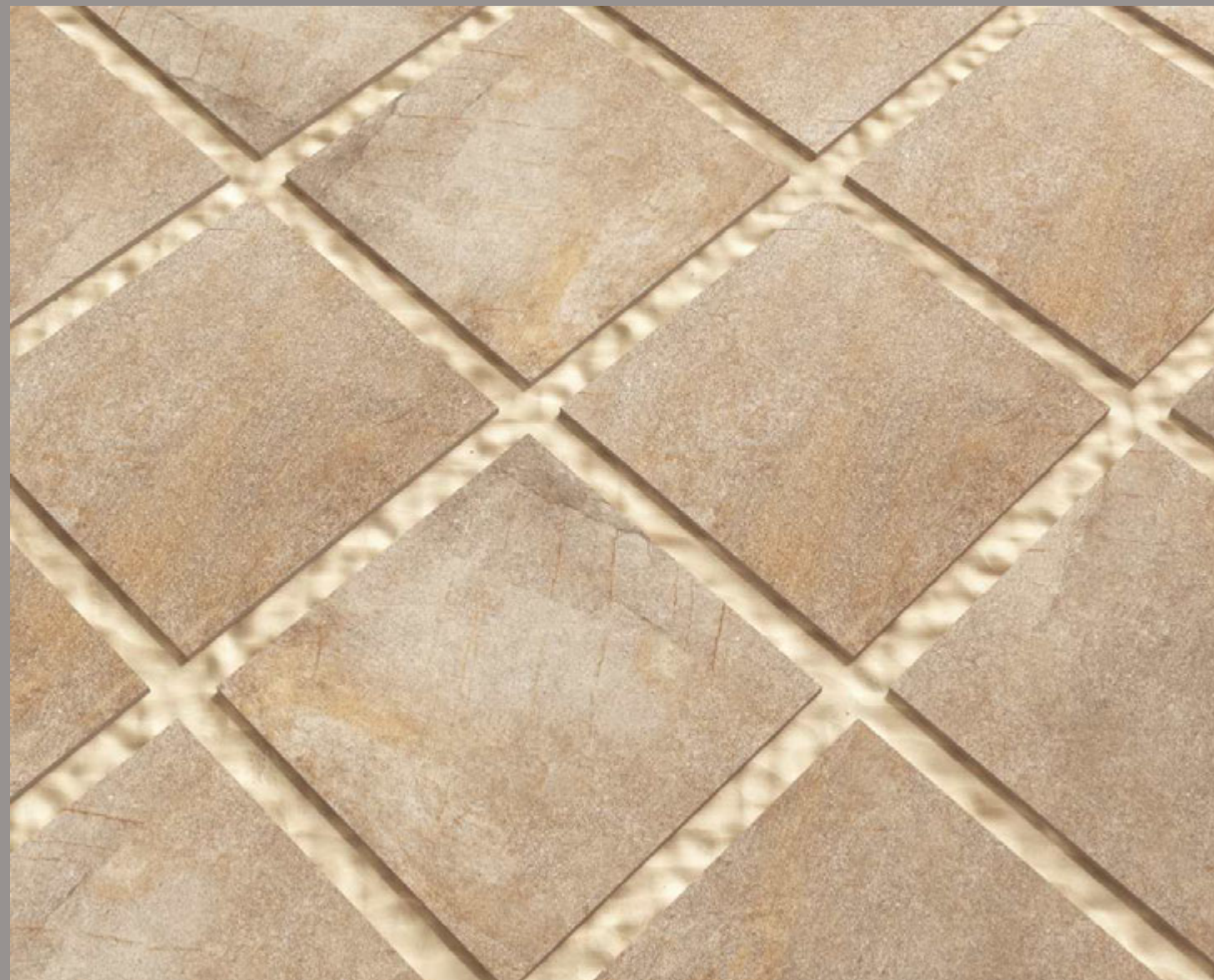
INSTALLATION ON SAND CAN BE DONE IN TWO WAYS:

1_ ON SUBSTRATE, ALLOWING THE STABILITY TO IMPROVE GRADUALLY.

- ↳ Dig about 20cm in the sandy ground.
- ↳ Place crushed stone or gravel layer (size 4-8mm) and compact it.
- ↳ Then add a 2cm sand layer.
- ↳ Dry lay 20mm tile over this prepared surface.

2_ DIRECTLY

- ↳ Level and compact the sand beneath.
- ↳ Dry lay the 20mm tile.















07_ Advantages



20mm
OUTDOOR
PORCELAIN

Anti Slip Grade **R11**

The structural characteristics of Rio Stone 20mm outdoor porcelain guarantee its durability and resistance to chemicals and atmospheric elements coupled with the flexibility of a wide range of finishes and special pieces which makes it ideal for almost every type of application.

 Flexural Resistant	 Stain Resistant	 Scratch Resistant	 Easy to Clean
 Frost Proof	 Chemical Resistant	 Thermo-impact Resistant	 Easy to Install
 Rift Resistant	 Absorption Resistant	 Slip Resistant	 Environment Friendly

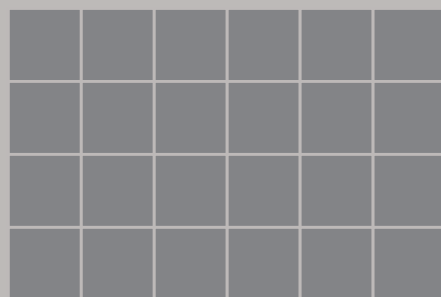
08_ Laying Patterns

MAKE NATURAL LOOKING PATTERNS LIKE INTERLOCKING, RANDOM, REPETITIVE, SQUARES WITH RIO STONE OUTDOOR PORCELAIN

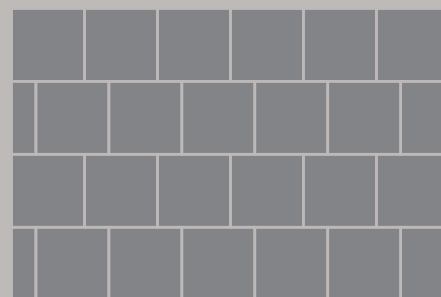
Tiles Combination
600x900mm, 600x600mm,
296x600mm, 296x296mm



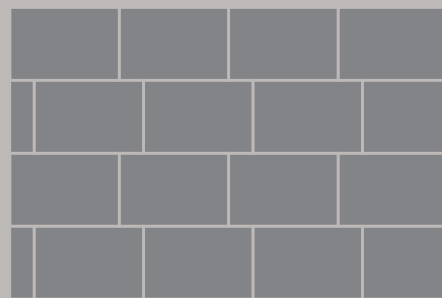
Tiles Combination
600x600mm



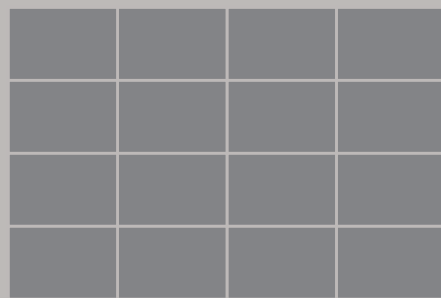
Tiles Combination
600x600mm



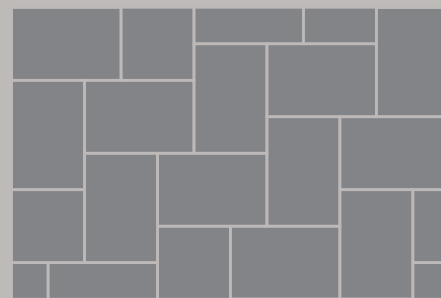
Tiles Combination
600x900mm



Tiles Combination
600x900mm



Tiles Combination
600x900mm



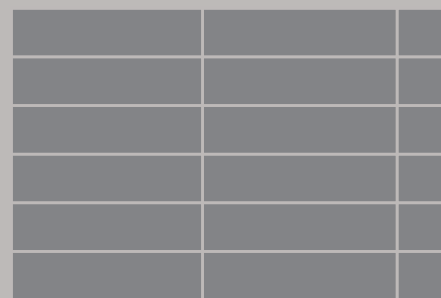
Tiles Combination
300x1200mm



Tiles Combination
300x1200mm



Tiles Combination
300x1200mm



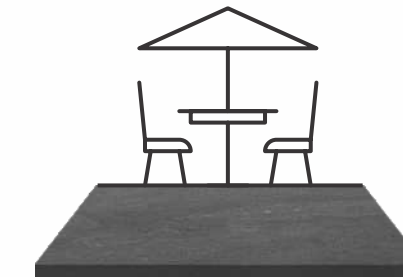
Please note that your stockist may offer the tiles in different pack sizes. All dimensions are standard and all products are designed to be laid with appropriate joints. Please refer to our step-by-step laying guide for additional information on this topic. Also, when using multiple tile packs, always mix the tiles before laying to achieve an overall blended appearance.

09_ Application Areas

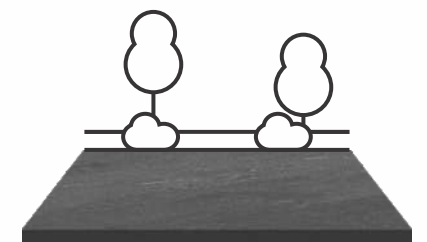
Rio Stone 20mm outdoor porcelain by Simola brings together aesthetically appealing quality and the best technical performance and could be used over almost all external areas and usages without the risk of breakage. They are resistant to frost and also to sudden temperature changes besides being anti-slip, easy to clean and are designed to retain their texture and colour over their lifetime.



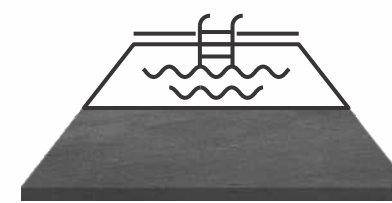
Public Parks,
Gardens



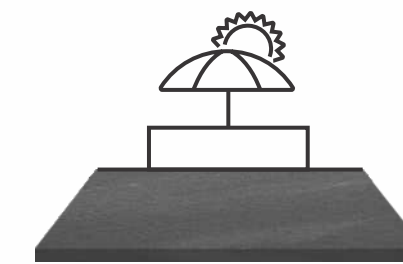
Terraces and
Balconies



Driveways and
Pathways



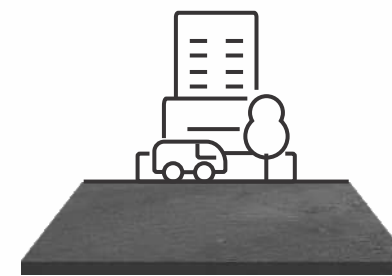
Swimming Pools and
Surrounding Areas



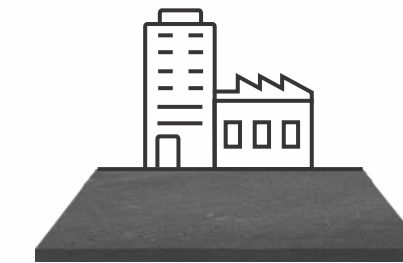
Beach
Resorts



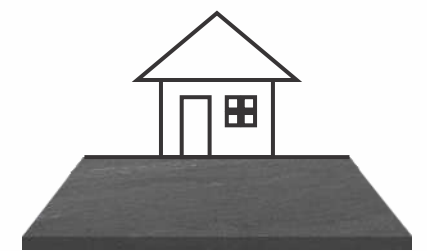
Parking Lots and
Vehical Passage



Street
Furniture



High-traffic
Industrial Areas



Out door patio and
verandah



Stone Series

Rio Stone is the perfect combination of brilliant design and the highest technical performance. Now you can create the effect of natural stone in surfaces like never imagined before and add to the strength and durability to it.



Explore the adventure of different surfaces.

20^{mm} OUTDOOR PORCELAIN





BRASILIAN BLACK

BRASILIAN

BRASILIAN GREY



600x900mm, Random - 19

BRASILIAN BLACK



600x900mm, Random - 19



600x600mm, Random - 38



600x600mm, Random - 38

Mix Patio Pack_	
296x 600mm	296x 296mm





QUARZITE NATURAL

Q U A R Z I T E

QUARZITE CREMA



600x900mm, Random - 14

QUARZITE NATURAL



600x900mm, Random - 14



600x600mm, Random - 14



600x600mm, Random - 14

Mix Patio Pack_	
296x 600mm	296x 296mm



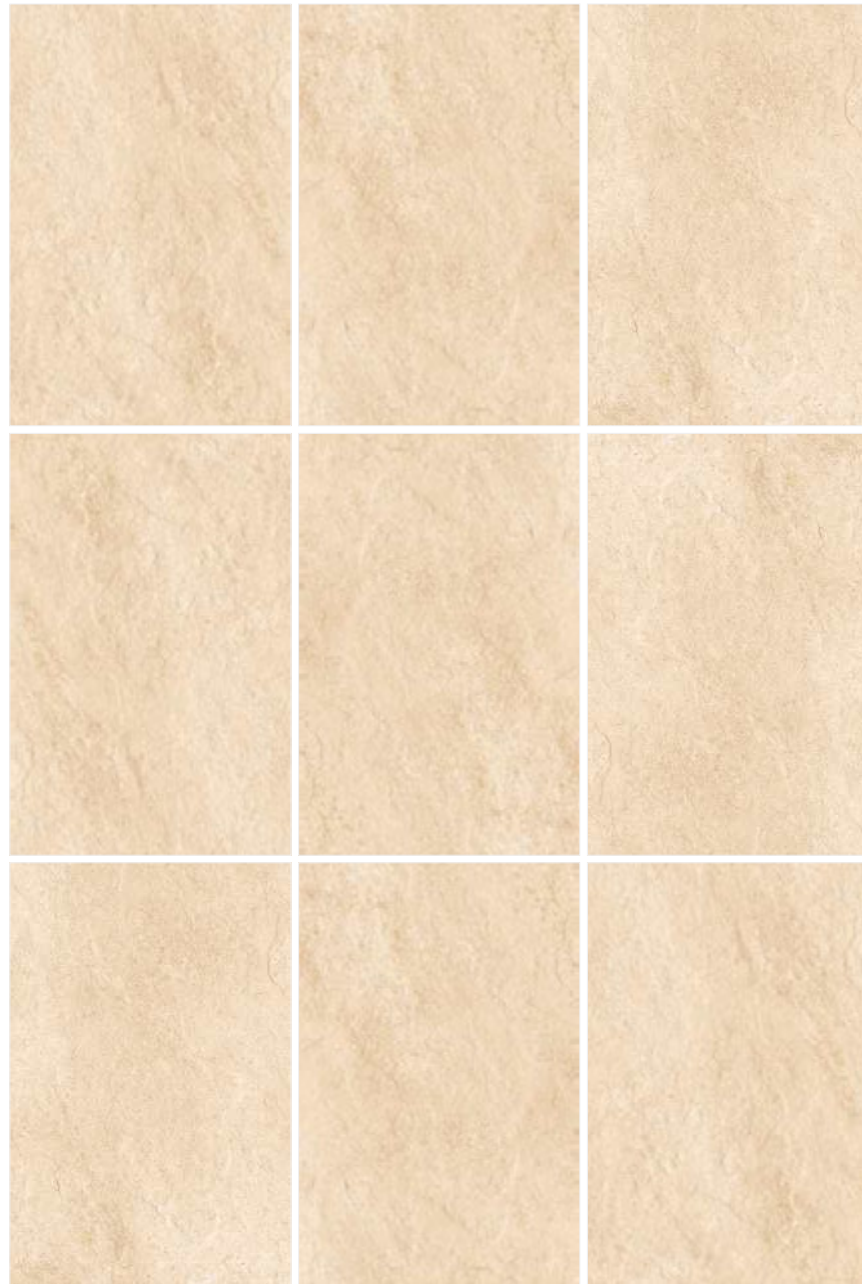
HAMMER STONE GREY



HAMMER STONE BEIGE

H A M M E R S T O N E

HAMMER STONE BEIGE RANDOM



HAMMER STONE BEIGE



600x900mm, Random - 3



600x600mm, Random - 5

HAMMER STONE GREY



600x900mm, Random - 3



600x600mm, Random - 5

HAMMER STONE NERO



600x900mm, Random - 3



600x600mm, Random - 5

Mix Patio Pack_	
296x 600mm	296x 296mm





COTTO

COTTO BEIGE



600x900mm, Random - 4

COTTO CREMA



600x900mm, Random - 4

COTTO ASH



600x900mm, Random - 4



600x600mm, Random - 5



600x600mm, Random - 5



600x600mm, Random - 5

COTTO BEIGE

Mix Patio Pack_	
296x 600mm	296x 296mm





NATURAL SLATE

ELITE STONE BEIGE



600x900mm, Random - 5

NATURAL SLATE



600x900mm, Random - 5

ROUGH BRUNO



600x900mm, Random - 3



600x600mm, Random - 5



600x600mm, Random - 15

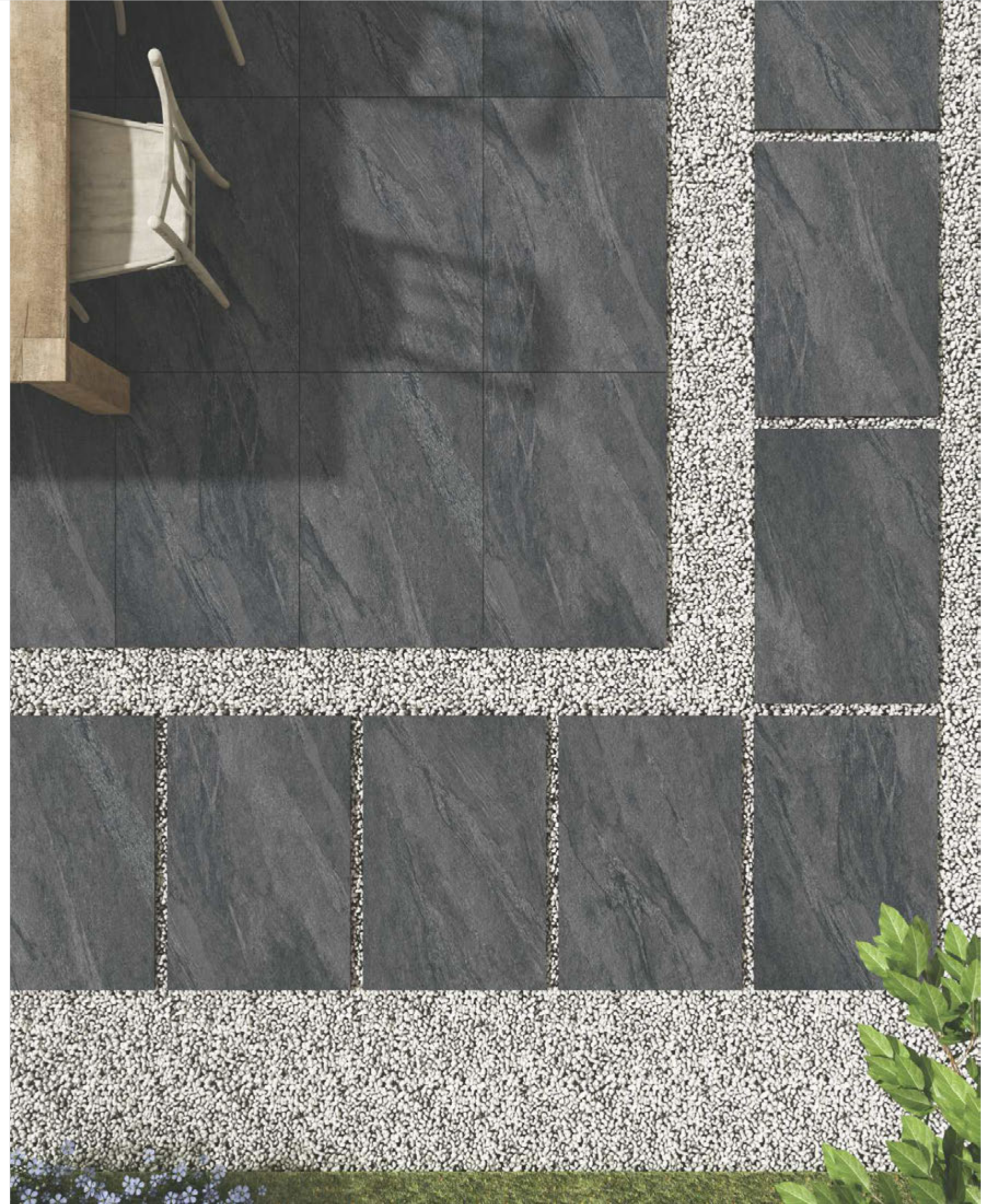


600x600mm, Random - 5

Mix Patio Pack_	
296x 600mm	296x 296mm



COUNTRY LGY



COUNTRY ANTRECITE

C O U N T R Y

COUNTRY CREMA RANDOM



COUNTRY CREMA



600x900mm, Random - 9



600x600mm, Random - 17

COUNTRY LGY



600x900mm, Random - 9

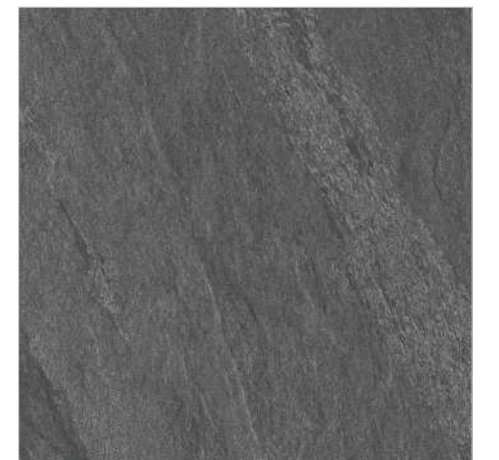


600x600mm, Random - 17

COUNTRY ANTRECITE



600x900mm, Random - 9



600x600mm, Random - 17

Mix Patio Pack_

296x
600mm

296x
296mm





COBBLE STONE NERO

COBBLESTONE

COBBLE STONE ASH



600x900mm, Random - 3

COBBLE STONE GREY

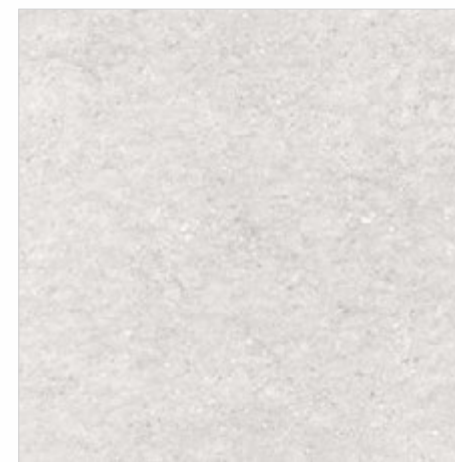


600x900mm, Random - 3

COBBLE STONE NERO



600x900mm, Random - 3



600x600mm, Random - 4

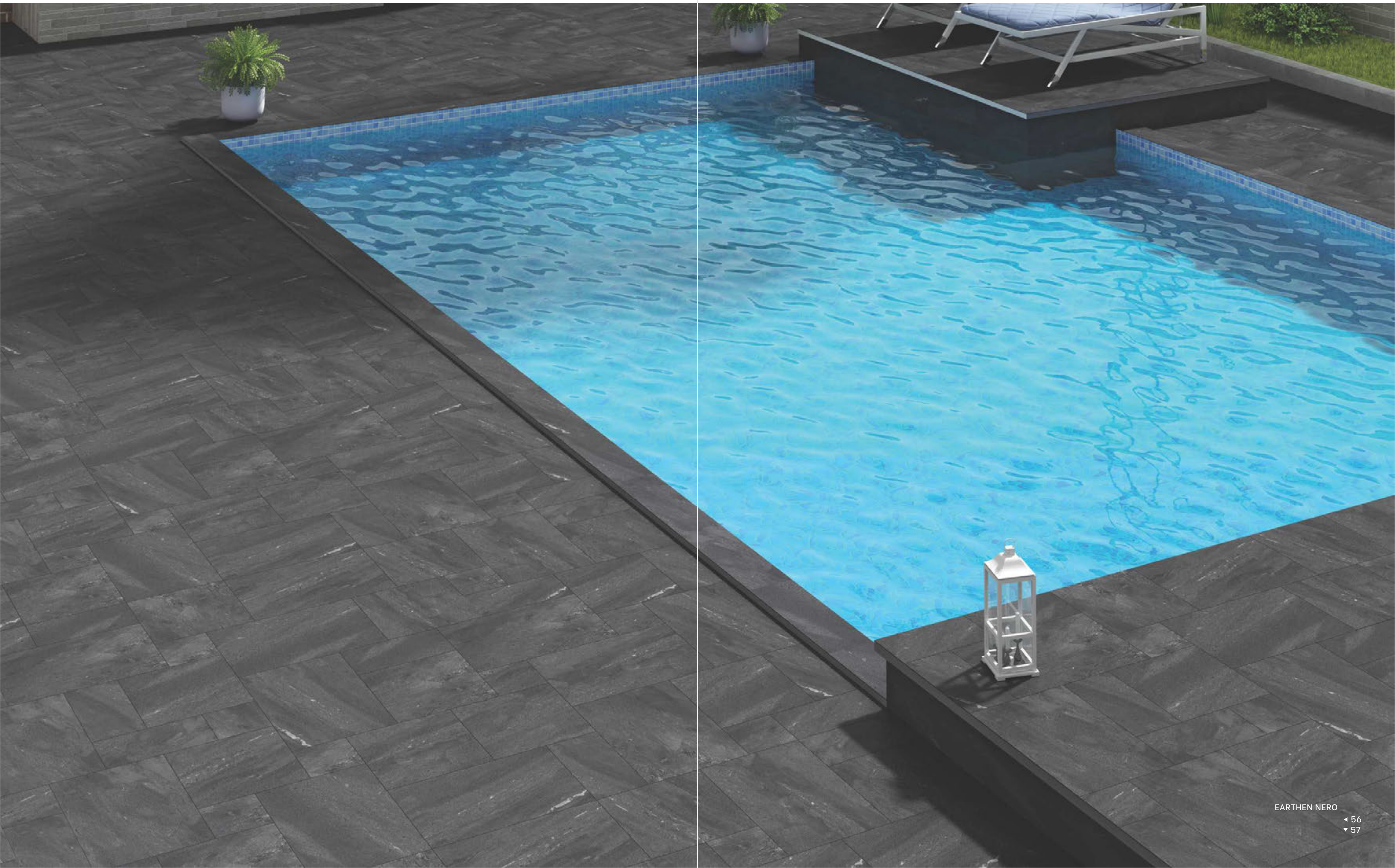


600x600mm, Random - 4



600x600mm, Random - 4

Mix Patio Pack_	
296x 600mm	296x 296mm



EARTHEN GREY



EARTHEN BEIGE

E A R T H E N

EARTHEN BEIGE RANDOM



EARTHEN BEIGE

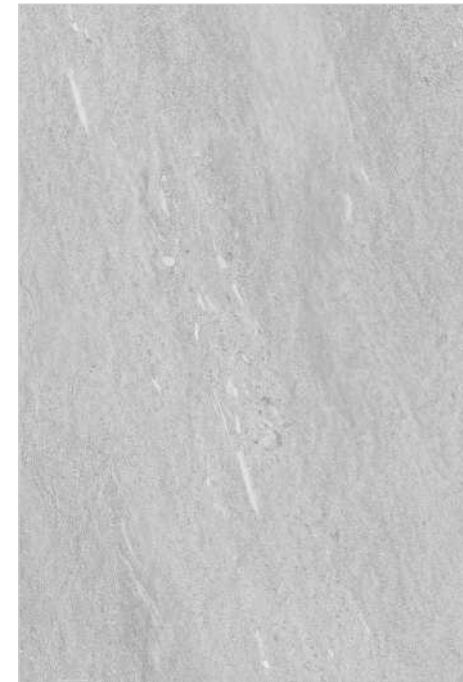


600x900mm, Random - 08

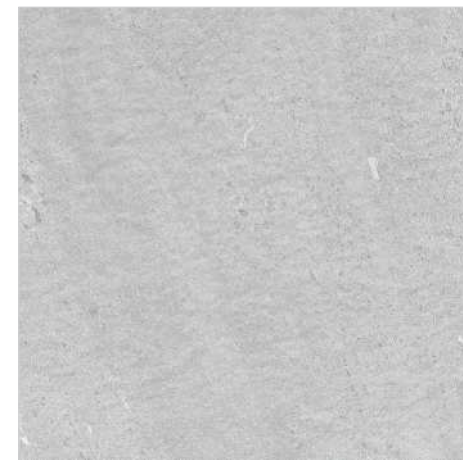


600x600mm, Random - 12

EARTHEN GREY

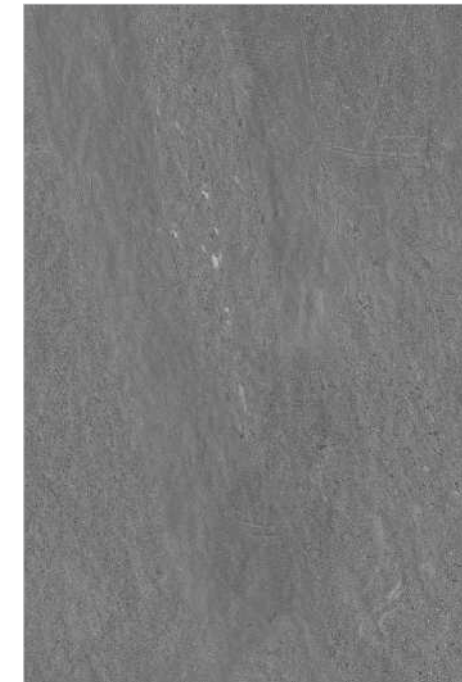


600x900mm, Random - 8

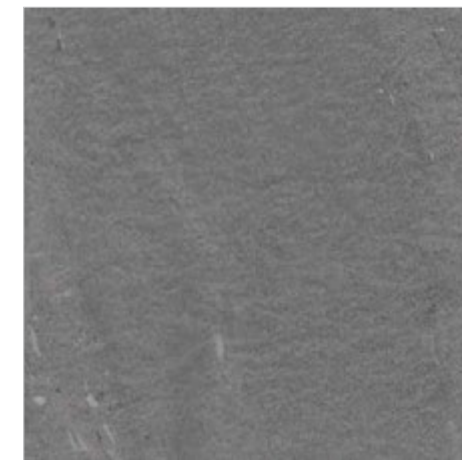


600x600mm, Random - 12

EARTHEN DARK GREY



600x900mm, Random - 8



600x600mm, Random - 12

EARTHEN NERO



600x900mm, Random - 8



600x600mm, Random - 12

Mix Patio Pack_

296x
600mm

296x
296mm

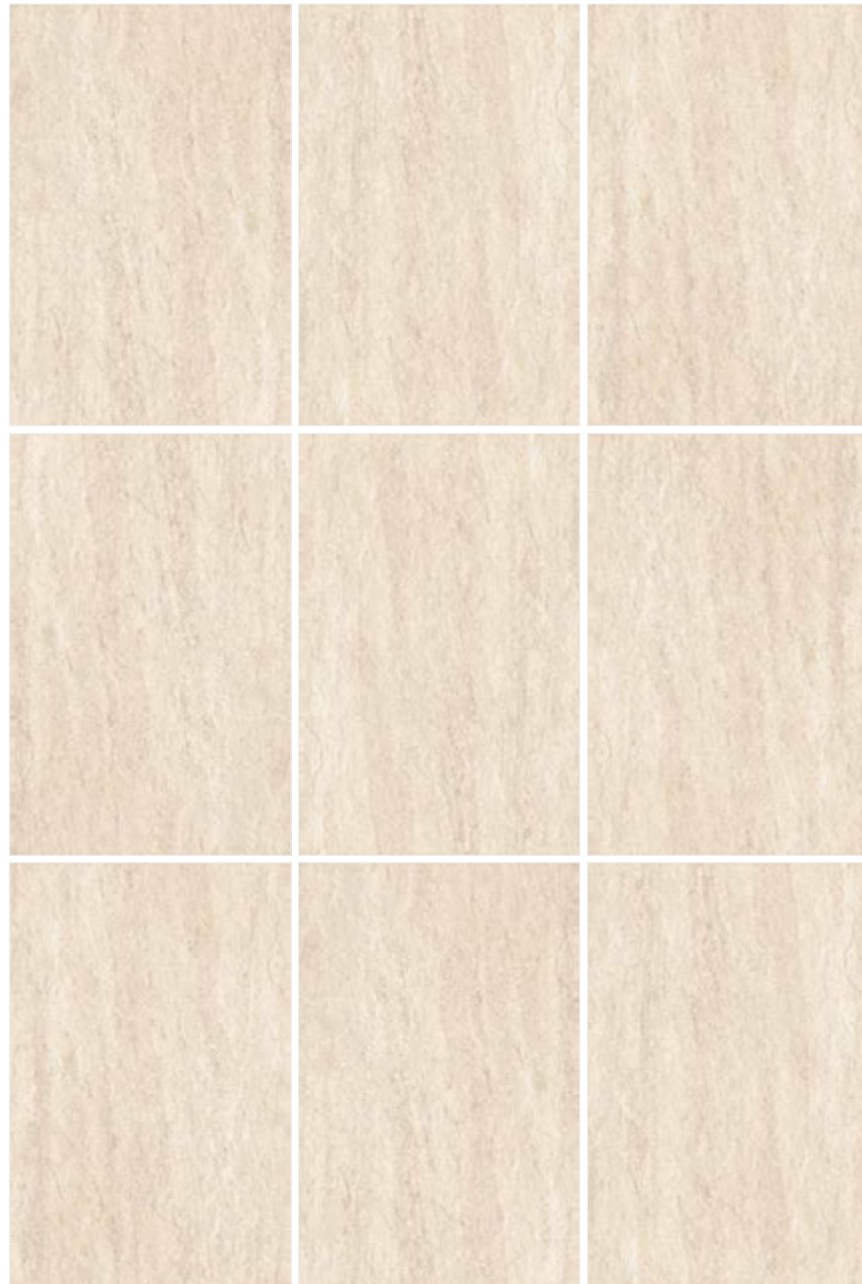
CORE STONE BEIGE



CORE STONE NERO

C O R E S T O N E

CORE STONE BEIGE RANDOM



CORE STONE BEIGE



600x900mm, Random - 3

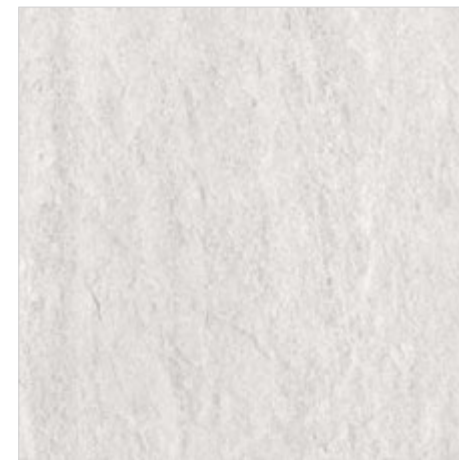


600x600mm, Random - 4

CORE STONE ASH



600x900mm, Random - 3



600x600mm, Random - 4

CORE STONE GREY



600x900mm, Random - 3



600x600mm, Random - 4

CORE STONE NERO



600x900mm, Random - 3



600x600mm, Random - 4

Mix Patio Pack_

296x
600mm

296x
296mm



BASALT NATURAL

BLUE GREY NATURAL

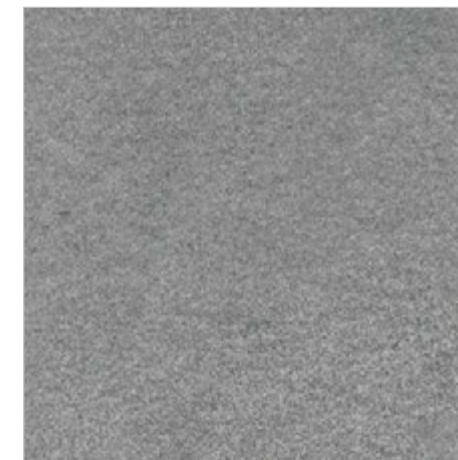


600x900mm

BASALT NATURAL



600x900mm



600x600mm



600x600mm

Mix Patio Pack_

296x
600mm

296x
296mm





HAZEL STONE ASH



HAZEL STONE

HAZEL STONE BEIGE



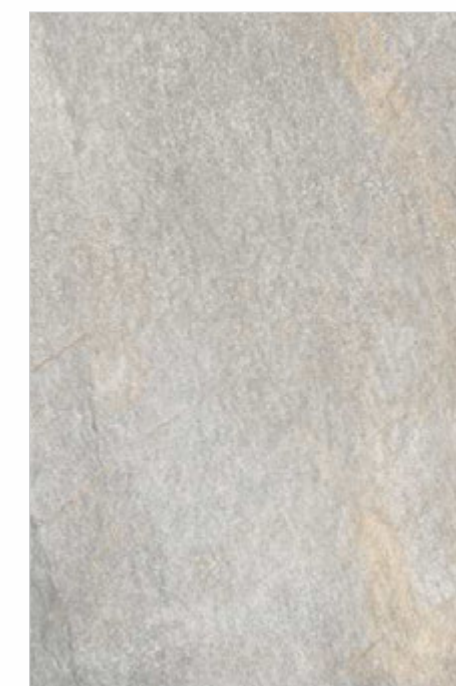
600x900mm, Random - 2

HAZEL STONE CREMA



600x900mm, Random - 2

HAZEL STONE ASH



600x900mm, Random - 2



600x600mm, Random - 3

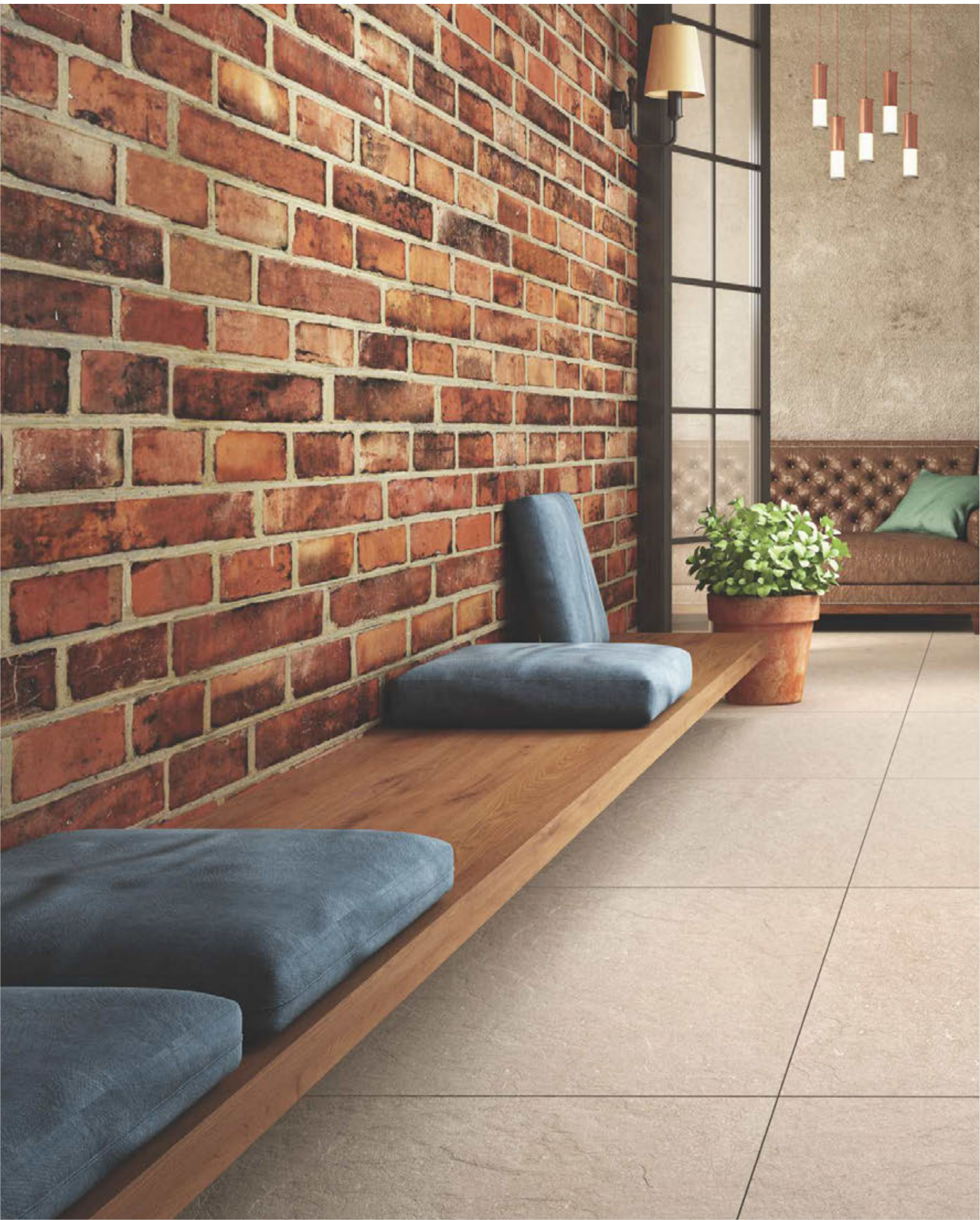


600x600mm, Random - 3



600x600mm, Random - 3

Mix Patio Pack_	
296x 600mm	296x 296mm





SLATE IMPEIO

BASALTINA CREMA

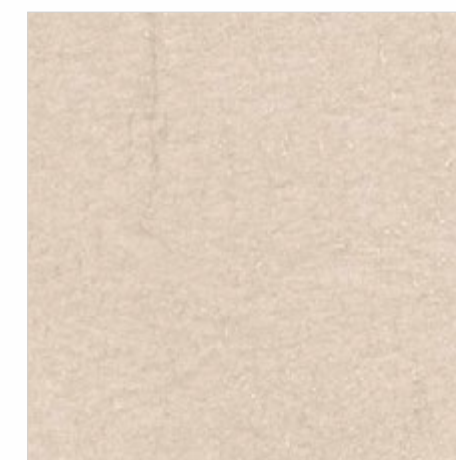


600x900mm, Random - 6

SLATE IMPEIO



600x900mm, Random - 12



600x600mm, Random - 9



600x600mm, Random - 24

Mix Patio Pack_	
296x 600mm	296x 296mm



PACIFIC BROWN

PACIFIC

PACIFIC LATTE



600x900mm, Random - 3

PACIFIC BROWN



600x900mm, Random - 3



600x600mm, Random - 6



600x600mm, Random - 6

Mix Patio Pack_	
296x 600mm	296x 296mm



BLUE STONE NATURAL



BLUE STONE BLACK

B L U E S T O N E

BLUE STONE COIN

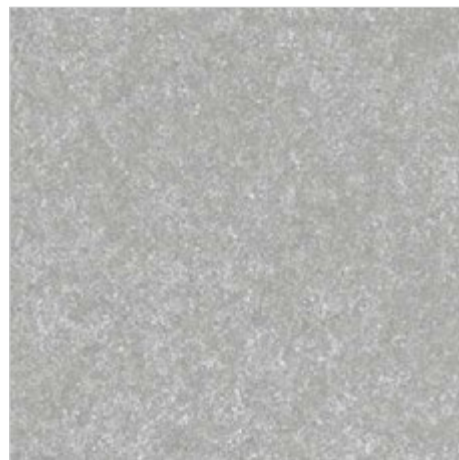


600x900mm

BLUE STONE BLACK



600x900mm

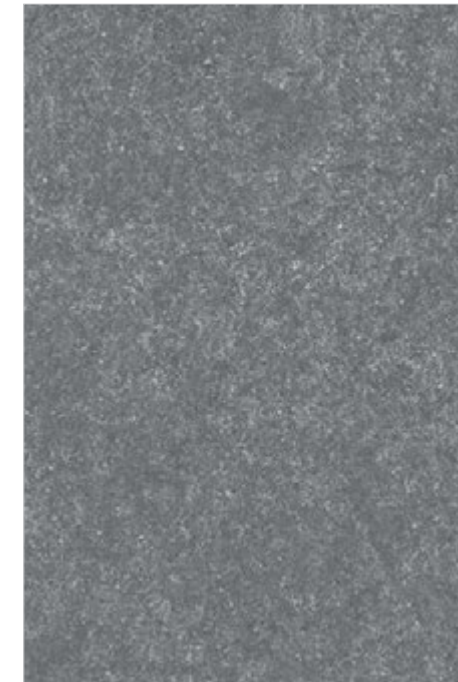


600x600mm



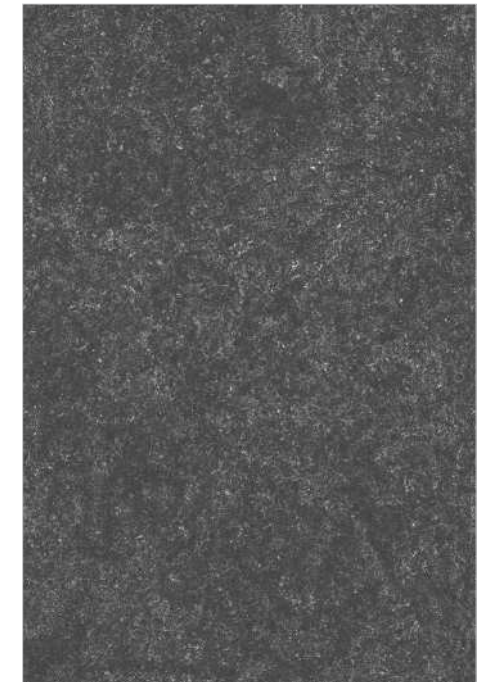
600x600mm, Random - 3

BLUE STONE GRIS

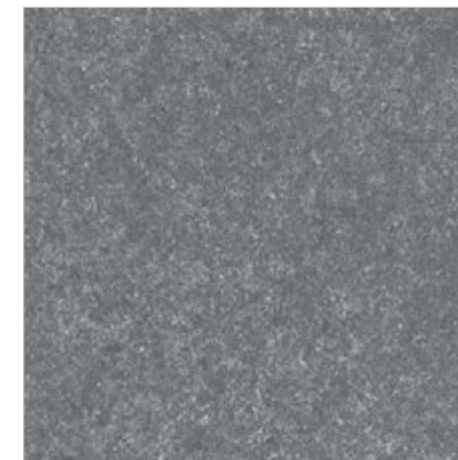


600x900mm

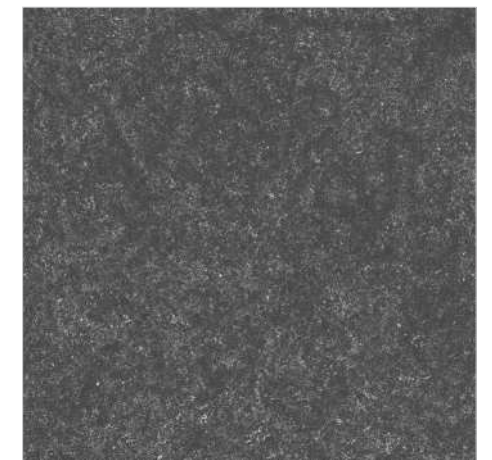
BLUE STONE NATURAL



600x900mm



600x600mm



600x600mm

Mix Patio Pack_

296x
600mm

296x
296mm





MONOLITH NERO

MONOLITH

MONOLITH CREMA



600x900mm, Random - 5

MONOLITH ASH



600x900mm, Random - 5

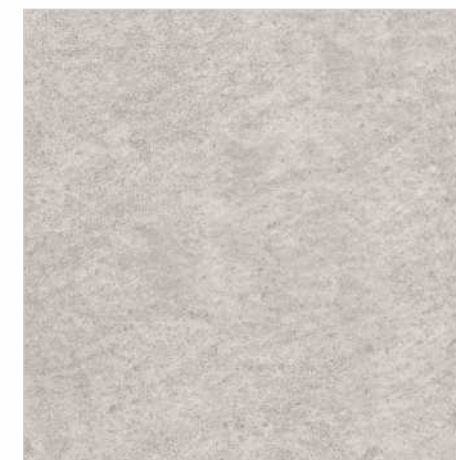
MONOLITH NERO



600x900mm, Random - 5



600x600mm, Random - 6

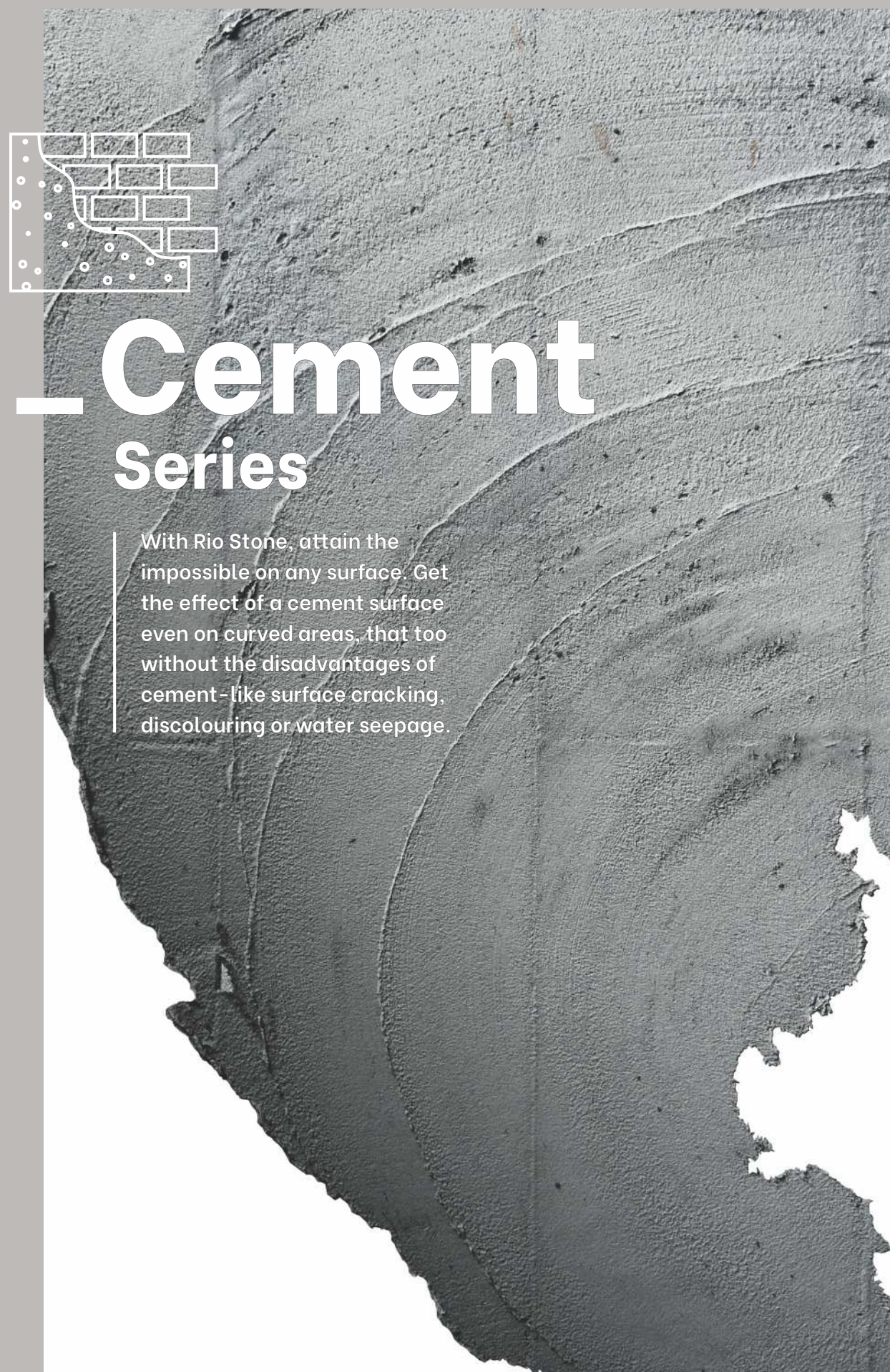


600x600mm, Random - 6



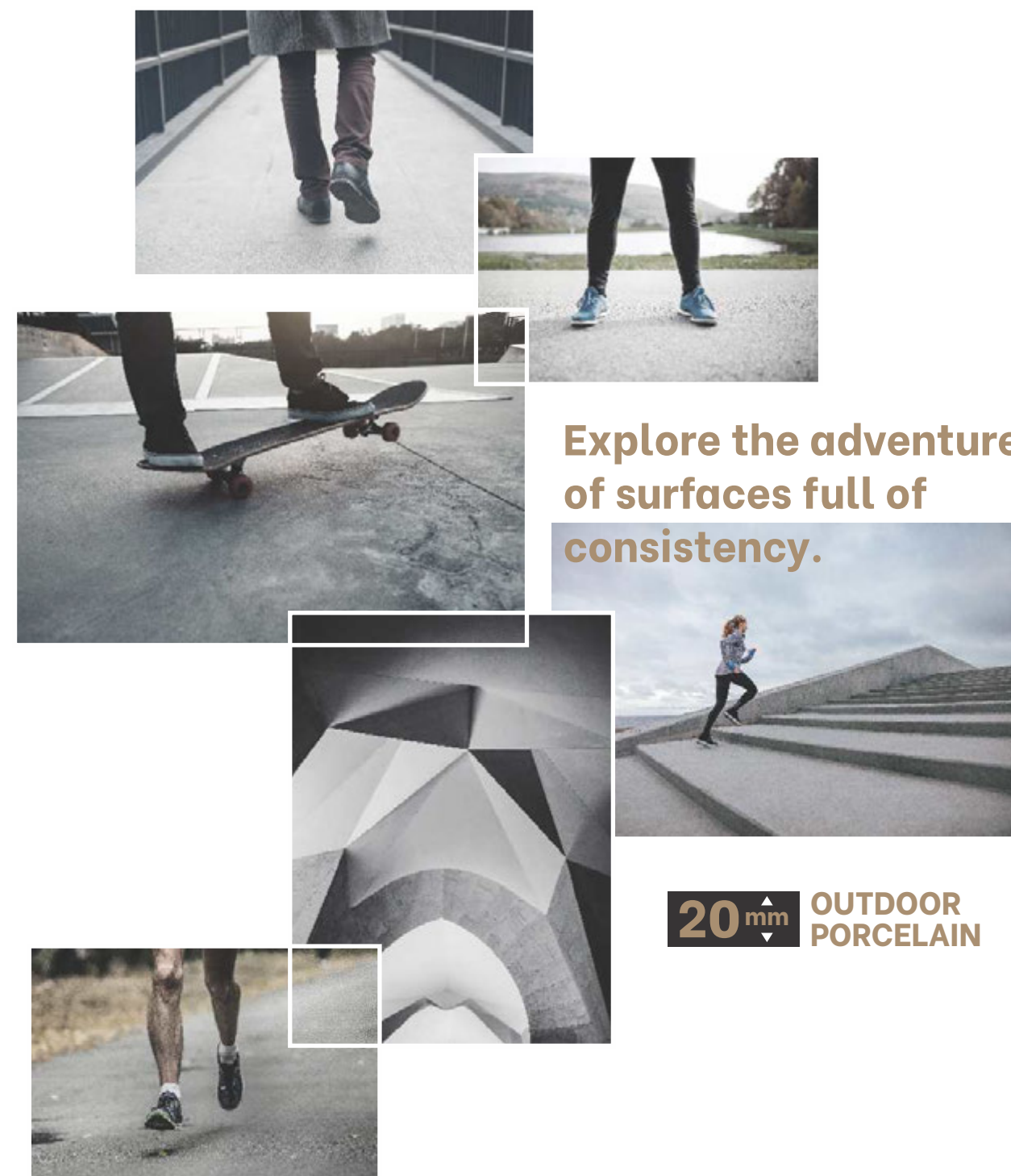
600x600mm, Random - 6

Mix Patio Pack_	
296x 600mm	296x 296mm



Cement Series

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.



Explore the adventure of surfaces full of consistency.

20^{mm} OUTDOOR PORCELAIN



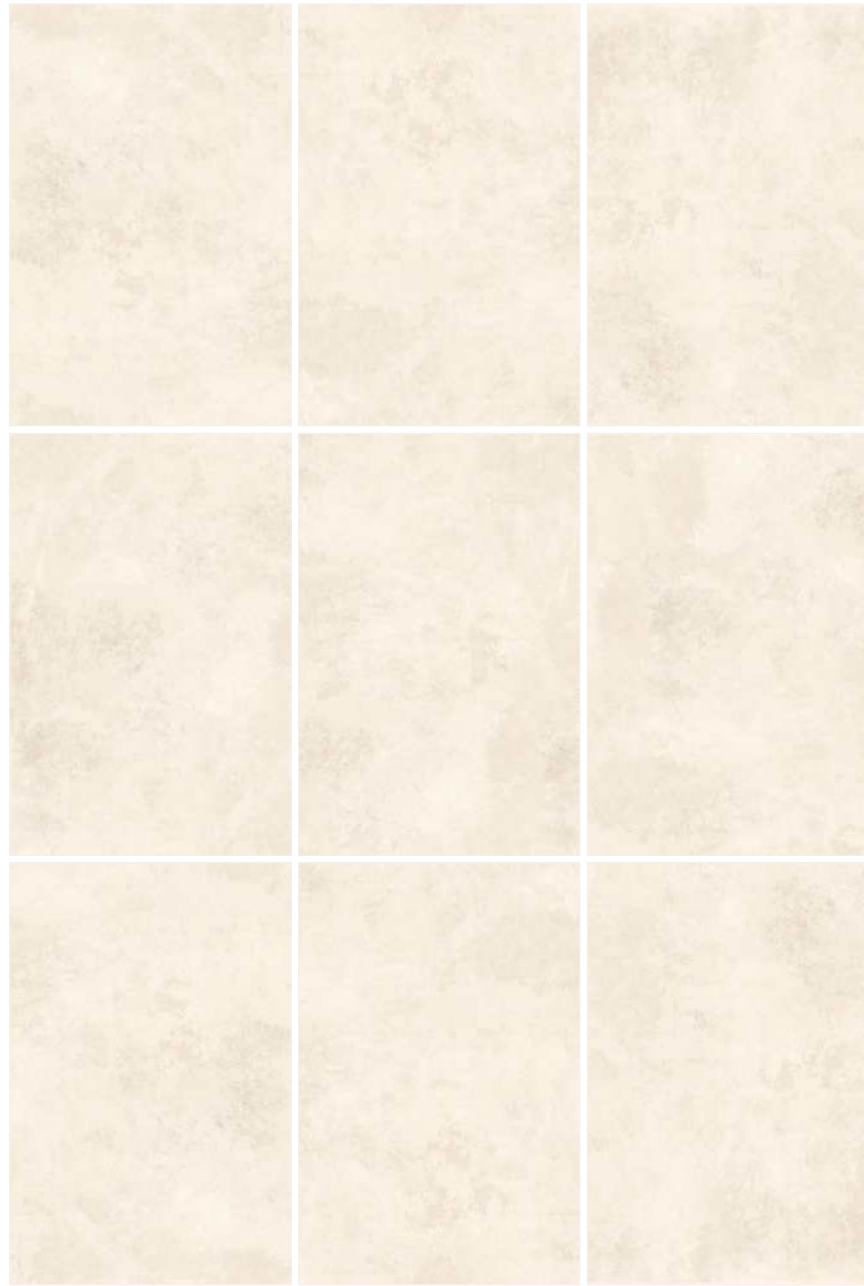
CEMENTINO GREY



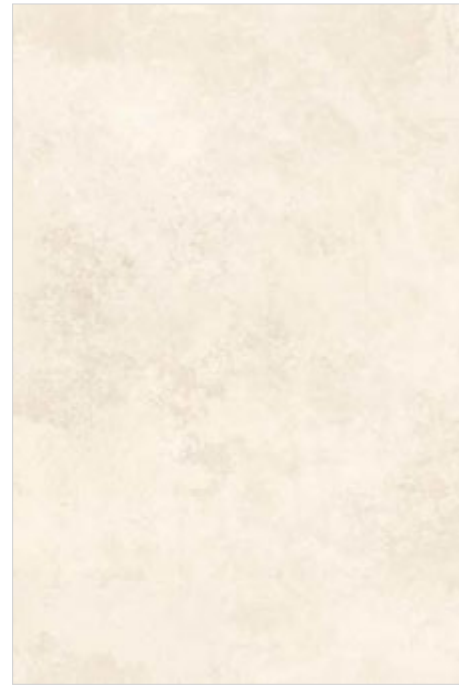
CEMENTINO BEIGE

C E M E N T I N O

CEMENTINO BEIGE RANDOM



CEMENTINO BEIGE



600x900mm, Random - 6



600x600mm, Random - 8

CEMENTINO ASH



600x900mm, Random - 6



600x600mm, Random - 8

CEMENTINO GREY



600x900mm, Random - 6



600x600mm, Random - 8

CEMENTINO NERO



600x900mm, Random - 6



600x600mm, Random - 8

Mix Patio Pack_

296x
600mm

296x
296mm



AOSTA GREY

A O S T A

AOSTA CREAM



600x900mm

AOSTA GREY



600x900mm



600x600mm, Random - 3



600x600mm, Random - 3

Mix Patio Pack_	
296x 600mm	296x 296mm



GRAVE STONE BEIGE

R11

RioStone
OUTDOOR SURFACES | 20mm
OUTDOOR
PORCELAIN

G R A V E S T O N E

GRAVE STONE BEIGE RANDOM



GRAVE STONE BEIGE



600x900mm, Random - 8



600x600mm, Random - 8

Mix Patio Pack_	
296x 600mm	296x 296mm





SOUL STONE GREY

SOUL STONE

SOUL STONE BEIGE



600x900mm, Random - 4

SOUL STONE ASH

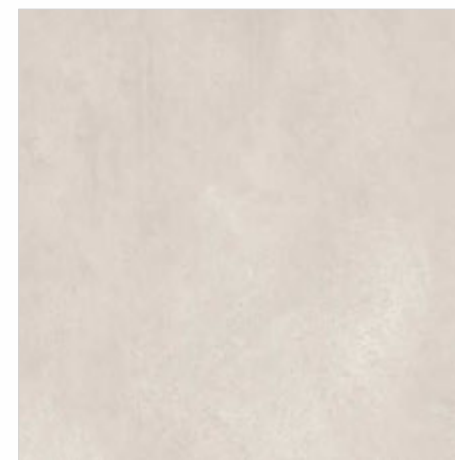


600x900mm, Random - 4

SOUL STONE GREY



600x900mm, Random - 4



600x600mm, Random - 5



600x600mm, Random - 5



600x600mm, Random - 5

Mix Patio Pack_	
296x 600mm	296x 296mm



CLAY STONE NERO

C L A Y

CLAY STONE BEIGE



600x900mm, Random - 3

CLAY STONE NERO



600x900mm, Random - 3



600x600mm, Random - 5



600x600mm, Random - 5

Mix Patio Pack_	
296x 600mm	296x 296mm



SAND STONE BEIGE

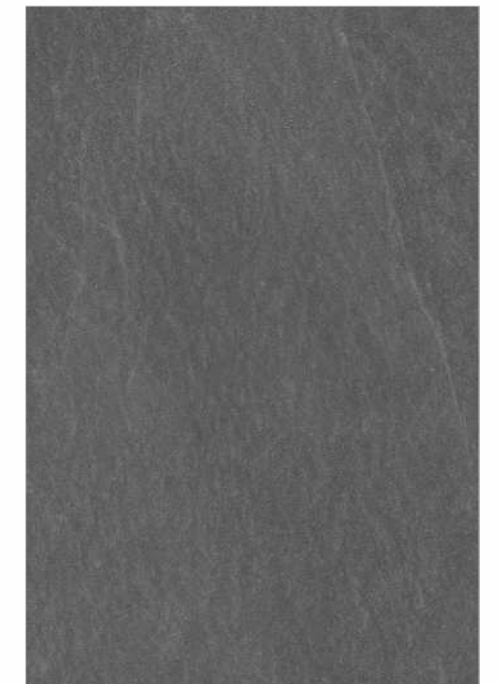
S A N D S T O N E

SAND STONE BEIGE



600x900mm, Random - 12

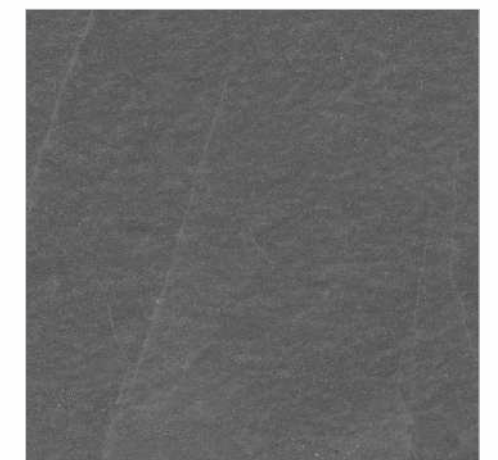
SAND STONE BLACK



600x900mm, Random - 12



600x600mm, Random - 24



600x600mm, Random - 24

Mix Patio Pack_	
296x 600mm	296x 296mm



PAVE STONE BEIGE

PAVE STONE

PAVE STONE BEIGE



600x900mm, Random - 8

PAVE STONE GREY



600x900mm, Random - 8

PAVE STONE NERO



600x900mm, Random - 8



600x600mm, Random - 12



600x600mm, Random - 12

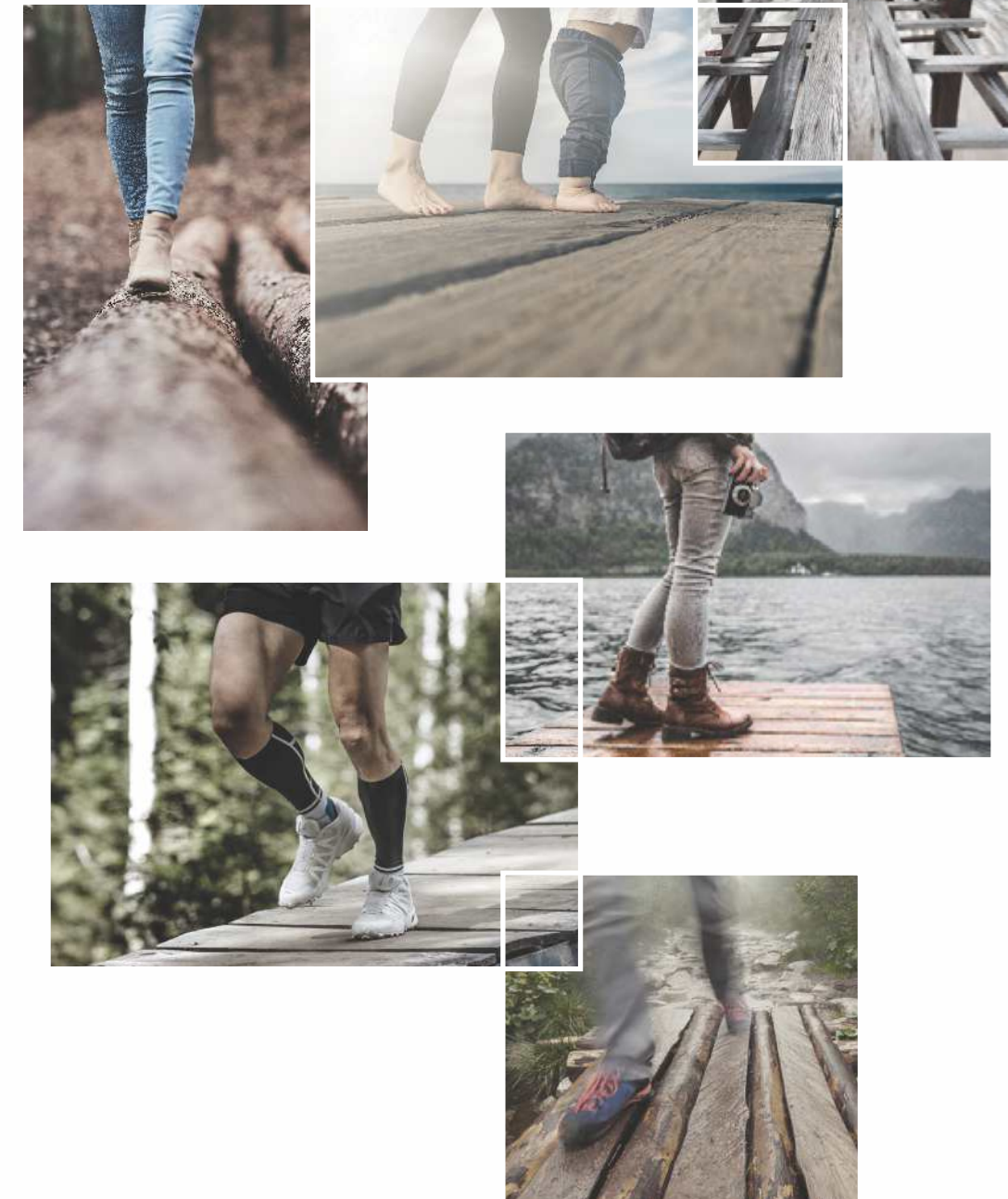


600x600mm, Random - 12

Mix Patio Pack_
296x
600mm

296x
296mm

Explore the adventure of
grove surfaces.

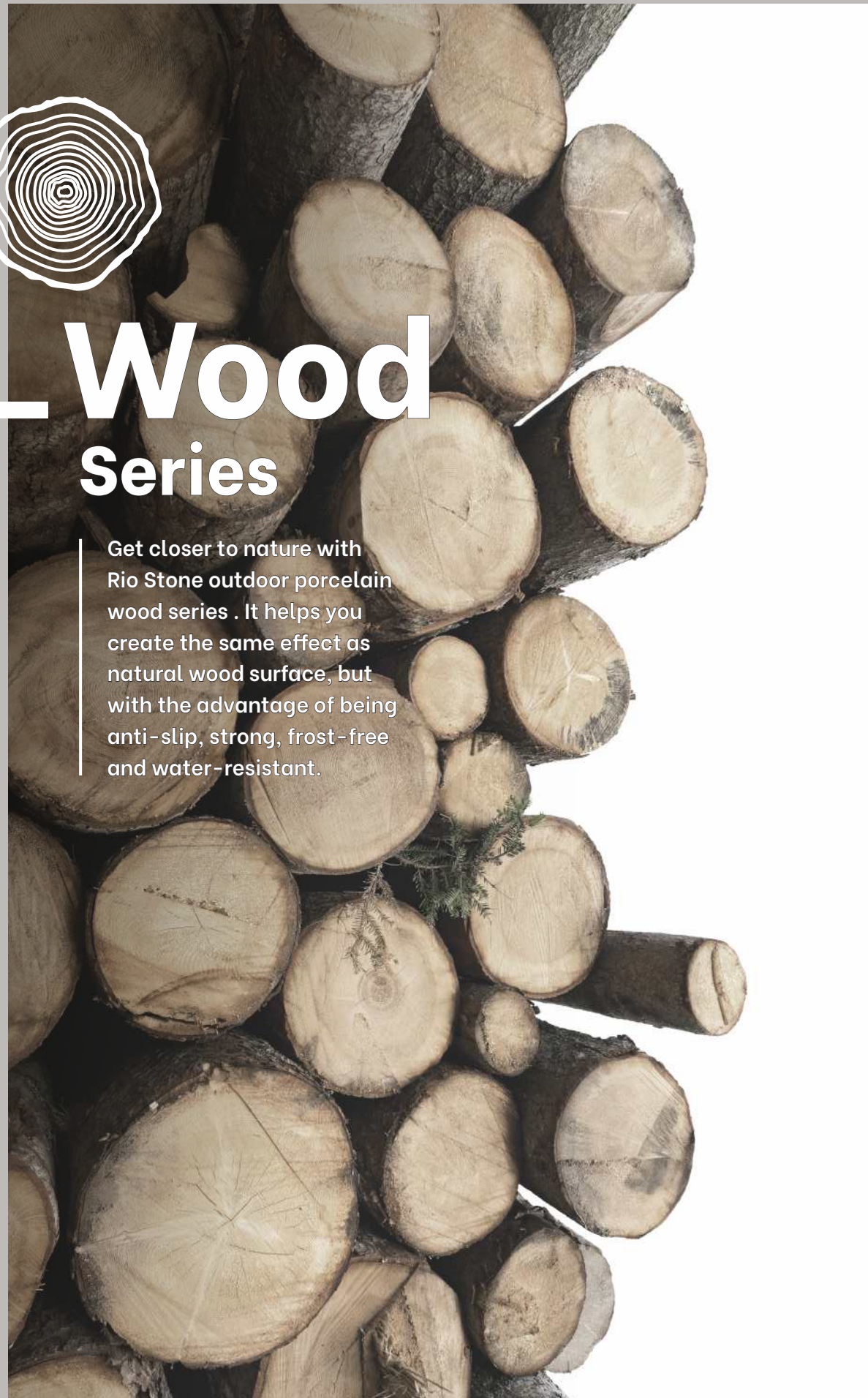


20^{mm} OUTDOOR
PORCELAIN



Wood Series

Get closer to nature with Rio Stone outdoor porcelain wood series . It helps you create the same effect as natural wood surface, but with the advantage of being anti-slip, strong, frost-free and water-resistant.





CHERRY WOOD BEIGE

C H E R R Y W O O D

CHERRY WOOD BEIGE RANDOM



CHERRY WOOD
BEIGE



300x1200mm,
Random - 10

CHERRY WOOD
NATURAL



300x1200mm,
Random - 10





OAK WOOD GREY

O A K W O O D

OAK WOOD BEIGE



300x1200mm,
Random - 6

OAK WOOD BROWN



300x1200mm,
Random - 6

OAK WOOD ASH



300x1200mm,
Random - 6

OAK WOOD GREY



300x1200mm,
Random - 6





PINE BIEGE

P I N E

PINE BIEGE



300x1200mm,
Random - 6

PINE NATURAL



300x1200mm,
Random - 6

PINE BIANCO



300x1200mm,
Random - 6

PINE VINTAGE



300x1200mm,
Random - 6



ROVERWOOD NATURAL

R O V E R W O O D

ROVERWOOD NATURAL RANDOM



ROVERWOOD
NATURAL



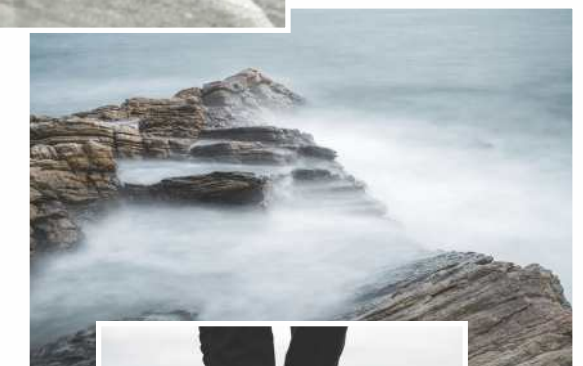
300x1200mm,
Random - 6



800x800mm Series

Rio Stone outdoor porcelain from Simola make outdoor surfaces so inviting that you will want to spend more time outdoors than indoors! These tiles not only enhance the beauty, but they make the surface tougher too.

Explore the adventure of classic earthy surfaces.



20mm
OUTDOOR
PORCELAIN



C E M E N T I N O

CEMENTINO BEIGE



800x800mm, Random - 6

CEMENTINO ASH



800x800mm, Random - 6

CEMENTINO GREY



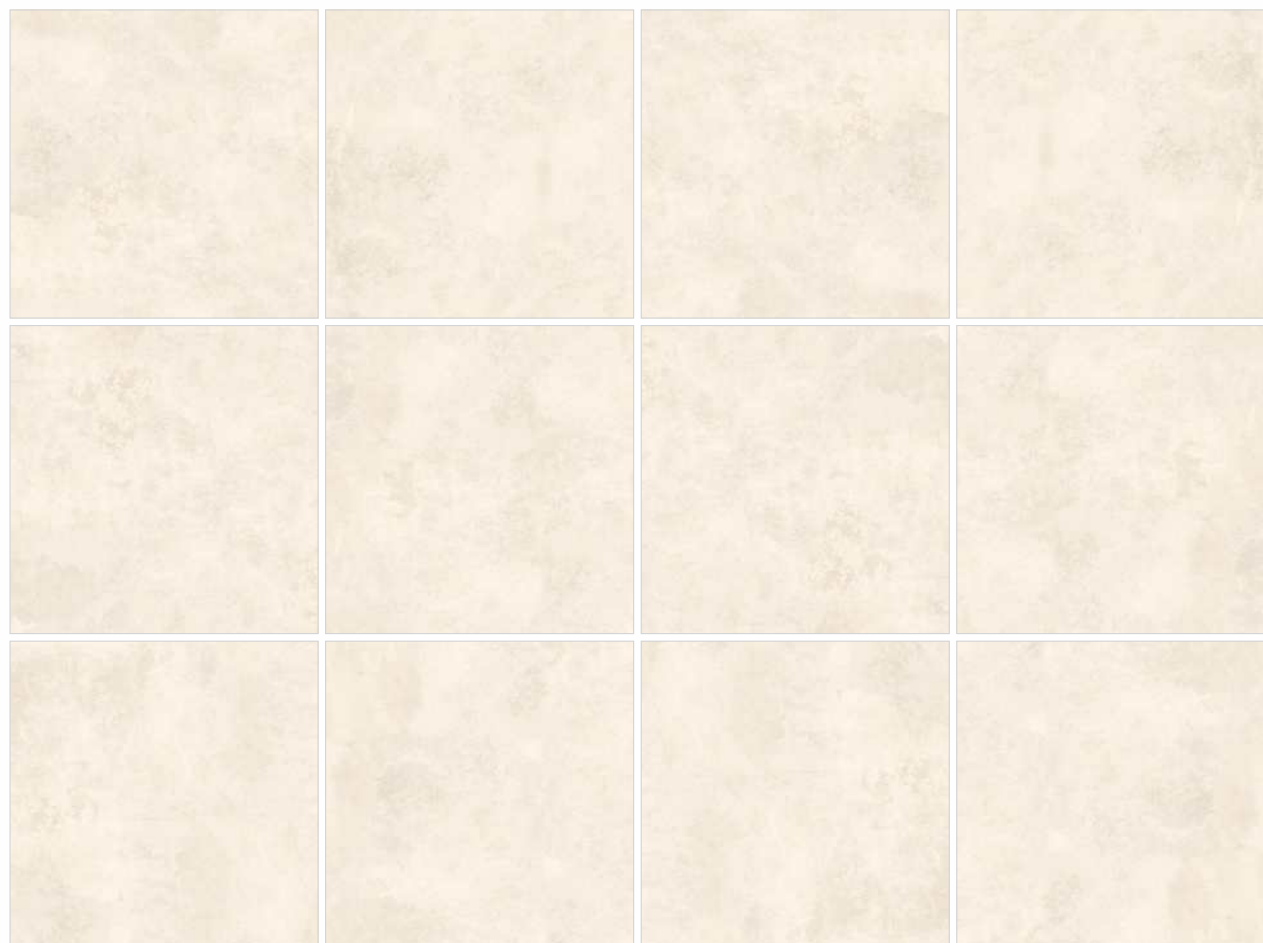
800x800mm, Random - 6

CEMENTINO NERO

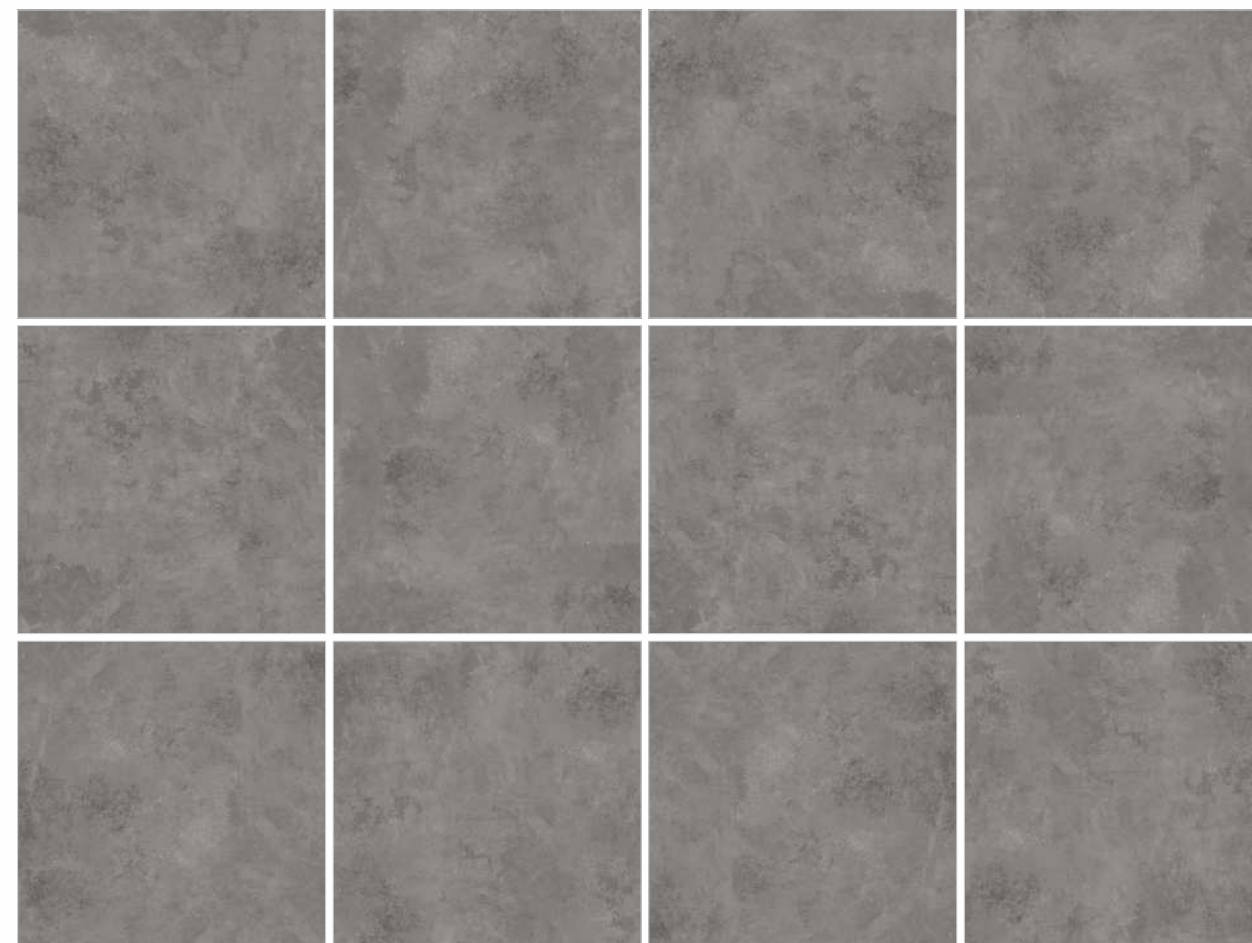


800x800mm, Random - 6

CEMENTINO BEIGE RANDOM



CEMENTINO NERO RANDOM





C O U N T R Y

COUNTRY CREMA



800x800mm, Random - 9

COUNTRY CREMA RANDOM



COUNTRY LGY



800x800mm, Random - 9

COUNTRY ANTRECITE



800x800mm, Random - 9

COUNTRY LGY RANDOM

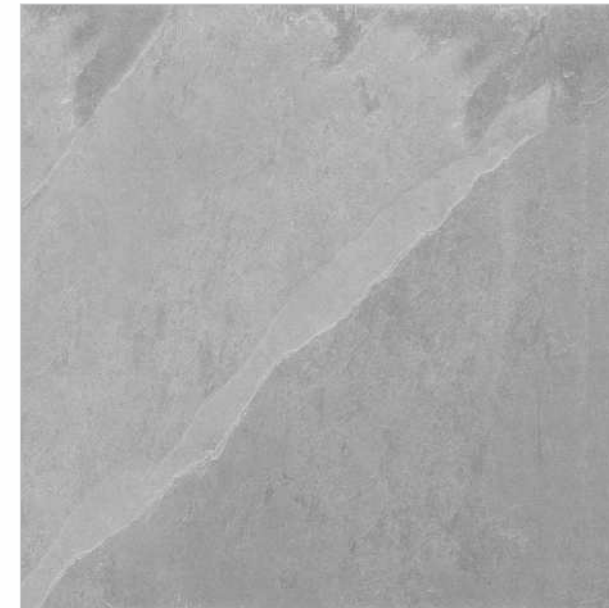




PREVIEW OF_ BRASILIAN BLACK

BRASILIAN

BRASILIAN GREY



800x800mm, Random - 23

BRASILIAN BLACK



800x800mm, Random - 23

BRASILIAN GREY RANDOM





E A R T H E N

EARTHEN BEIGE



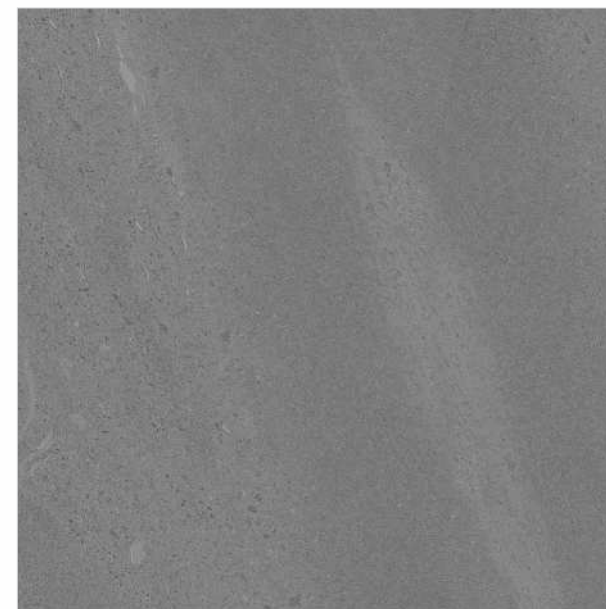
800x800mm, Random - 8

EARTHEN GREY



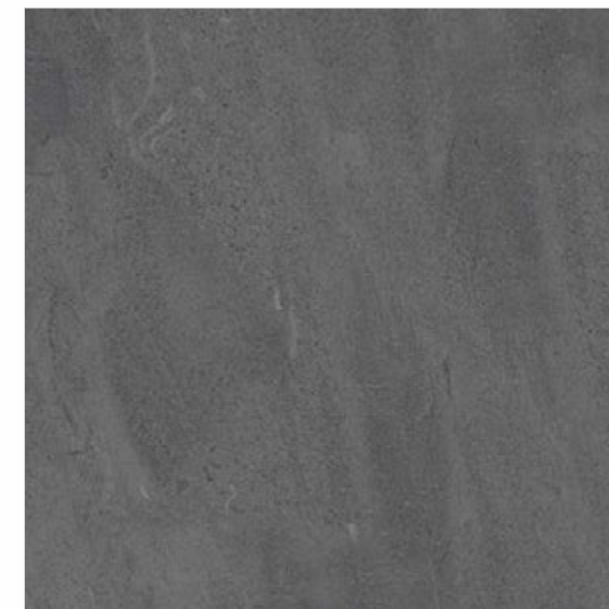
800x800mm, Random - 8

EARTHEN DARK GREY



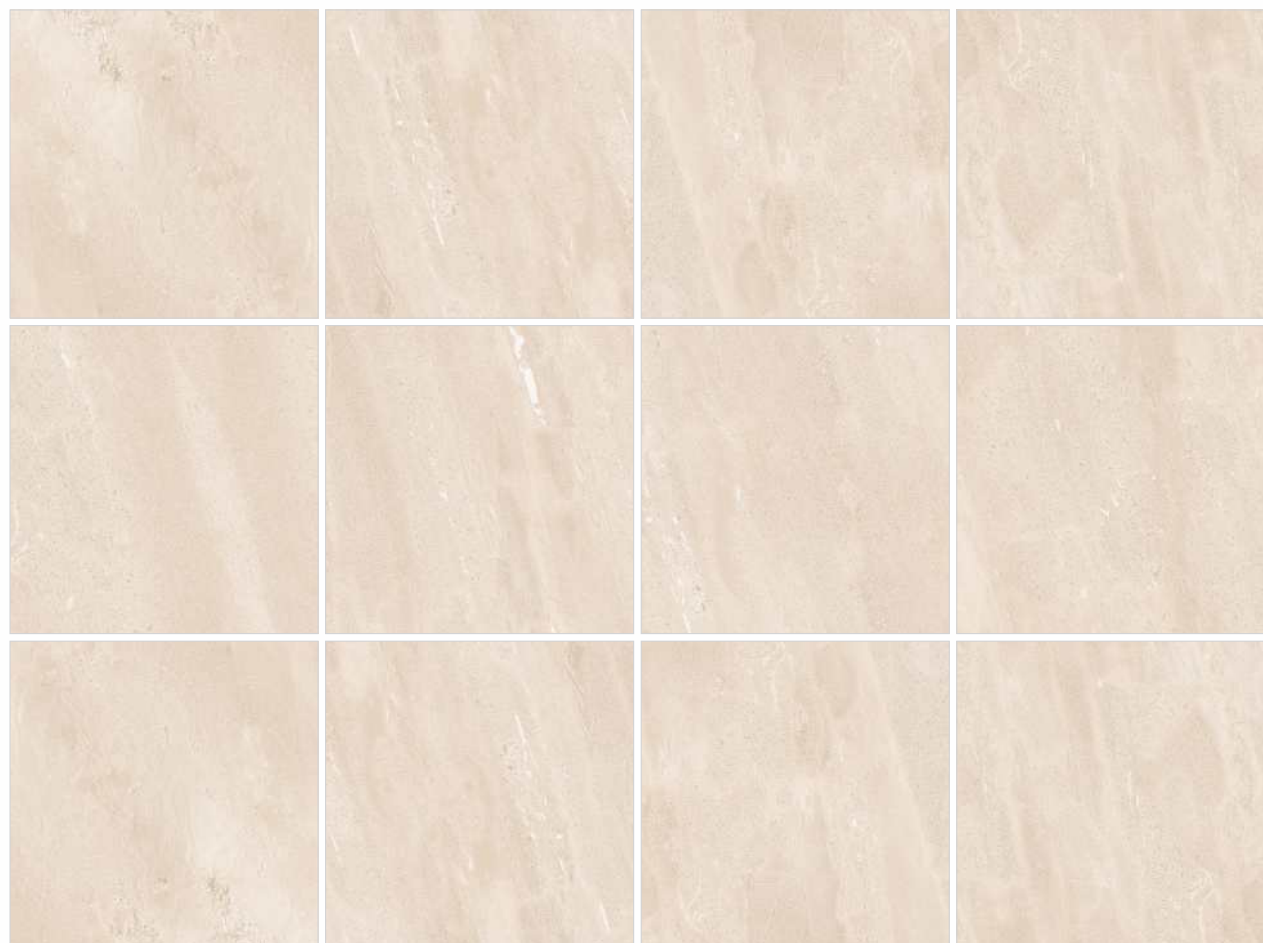
800x800mm, Random - 8

EARTHEN NERO

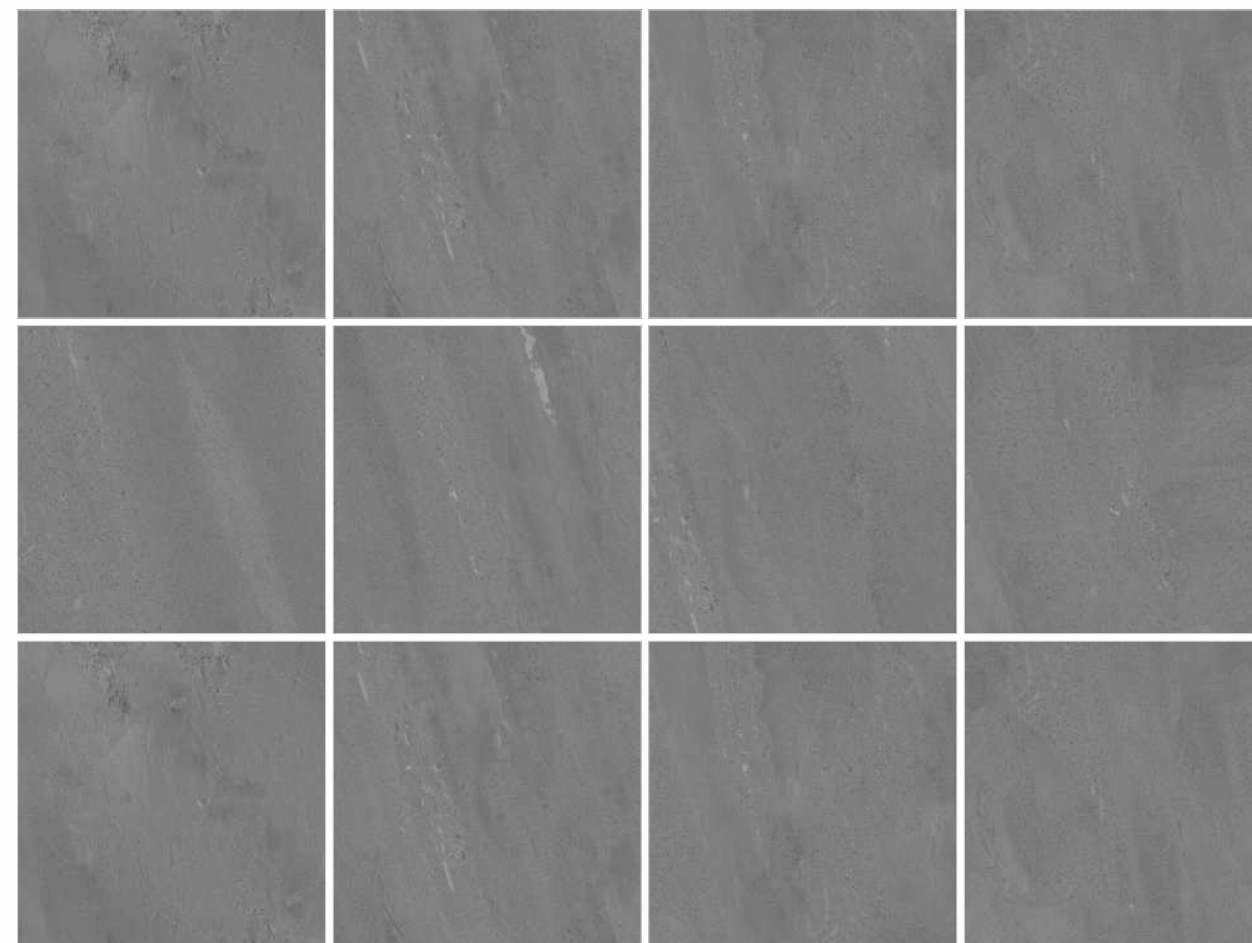


800x800mm, Random - 8

EARTHEN BEIGE RANDOM



EARTHEN DARK GREY RANDOM

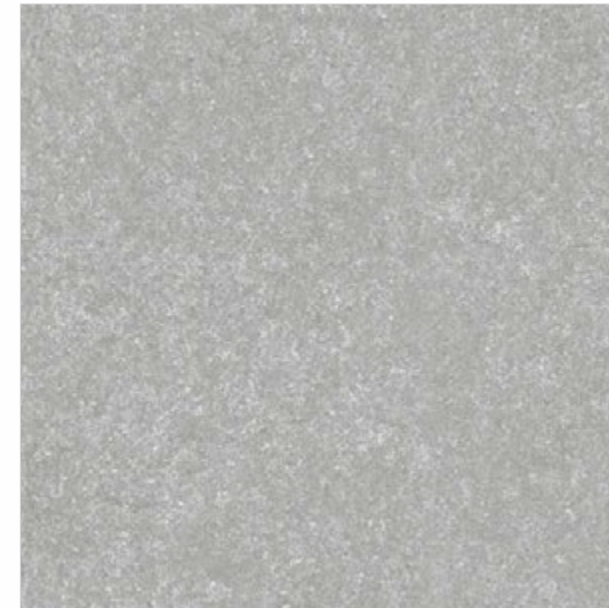




PREVIEW OF_ BLUE STONE BLACK

B L U E S T O N E

BLUE STONE COIN



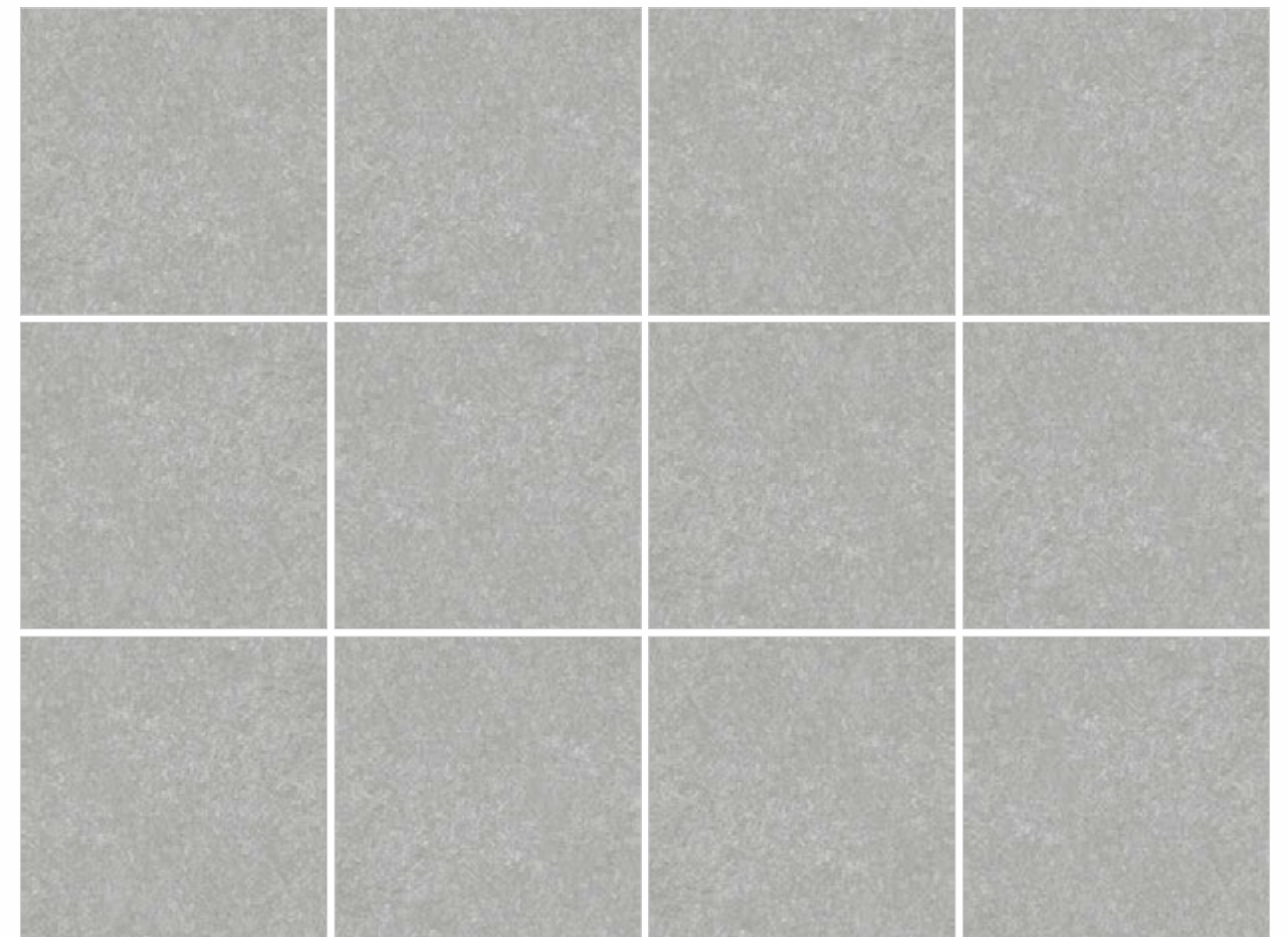
800x800mm, Random - 2

BLUE STONE BLACK



800x800mm

BLUE STONE COIN RANDOM



TECHNICAL CHARACTERISTICS

Following the EN 14411 (ISO 13006) norms and test cases UNI ISO 10545 appendix G for ceramic tiles dry pressed with low water absorption E≤0,5% group BIa.

Sr. No.	TEST CONDUCTED	TEST RESULTS	TEST REQUIREMENTS AS PER IS 15622 : 2006	Remarks
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 ² Span Length = 580mm Average thickness of the tiles measured = 19.81 mm	Average : 39.0 N/mm ²		Passed the test
3	Breaking Strength (N) Span Length = 580mm Average thickness of the tiles measured = 19.81mm	Average : 8090.0 N	(Gr. B Ib) For thickness > 7.5 mm 1200 N minimum	Passed the test
4	Scratch Hardness Surface (Mohs' scale)	No. 7	(Gr. B Ib) 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 Ib) 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) B = 4.6883 (10 ⁶ K ⁻¹)	-	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 Ib) S > 410 cm ² ± 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.	+ 0.17 % (Max)	± 0.2 %	Passed the test
	(b) Edge of curvature related to the corresponding work size	+ 0.10 % (Max) - 0.14 % (Max)	± 0.2 %	Passed the test
(c) Warpage related to the diagonal calculated from the Work Size	+ 0.09 % (Max) - 0.06 % (Max)	± 0.2 %	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.	+ 0.17 % (Max)	± 0.2 %	Passed the test
	(b) Edge of curvature related to the corresponding work size	+ 0.10 % (Max) - 0.14 % (Max)	± 0.2 %	Passed the test
	(c) Warpage related to the diagonal calculated from the Work Size	+ 0.09 % (Max) - 0.06 % (Max)	± 0.2 %	Passed the test
	Five test specimens were treated with following solns.			
	1. Household Chemicals			
	a) Ammonium Chloride soln. (100 gm/l)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	"Class - AA" min.	Conformed to "Class-AA"
	b) Standard cleaning Agent soln., (as per procedure)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	"Class - AA" min.	Conformed to "Class-AA"
	2. Swimming pool salts			
	a) Sodium Hypochlorite Soln. (20 mg/l)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	"Class - AA" min.	Conformed to "Class-AA"
	b) Copper Sulphate Soln. (20 mg/l)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	"Class - AA" min.	Conformed to "Class-AA"
3. Acids				
a) Hydrochloric acid Soln. 3% (v/v)	No visual changes observed after immersion for 7 days, pencil lines removed with soft dry cloth.	-	Conformed to "Class-AA"	
b) Citric acid Soln. (200 mg/l)	No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth.	-	Conformed to "Class-AA"	
4. Alkali				
Potassium hydroxide soln., (200 mg/l)	No visual changes observed after immersion for 7 days, pencil lines removed with soft dry cloth.	-	Conformed to "Class-AA"	

Sr. No.	TEST CONDUCTED	TEST RESULTS	TEST REQUIREMENTS AS PER IS 15622 : 2006	Remarks
12	Skid Resistance / Surface Slip Resistance (a) Condition of Test Surface : Tile Surface was cleaned thoroughly be wet cloth followed by dry cloth and ensured that the surface is completely clean and dry the time of testing.		As per ISO 10545 Part - 17	-
	(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		
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 BIa)	-	R-11	R-11

PACKING DETAILS (OUTDOOR)

SIZE	WEIGHT/ BOX (KG)	PIC/BOX	WEIGHT/ PLT (KG)	BOXES/ PLT	PLT/CTN	BOXES/ CTN	MT ² /BOX	MT ² /PLT	MT ² /CTN	WIGHT/CTN
600x900mm (20mm)	24.5	1	30	40	28	1120	0.54	21.6	604.8	28280
800x800mm (20mm)	58.5	2	30	18	26	468	1.28	23.04	599.04	28158
600x600mm (20mm)	32.75	2	30	32	26	832	0.72	23.04	599.04	28028
300x1200mm (20mm)	33	2	30	42	12	804	0.71	29.82	570.84	27192
			30	30	10			21.3		

PACKING DETAILS (PATIOPACK)

SIZE	PCS/ CRAT	M2/PCS	SQFT/ PCS	Mt ² / CRATE	SQFT/ CRATE	IN KGS/ CRATE	CRATE/ CTN	CRATE/ CTN	IN KGS/ PLT	IN KGS/ CTN
600x900mm (20mm)	13	0.54	5.81	7.02	75.56	530.40	532.71	36	730	26280
600x600mm (20mm)	13	0.36	3.88	4.68	50.38	235.76				
296x600mm (20mm)	13	0.18	1.94	2.31	25.18	58.14				
296x296mm (20mm)	9	0.09	0.79	0.79	7.10	5.60				
	48			14.80	158.21	829.89	532.71	36.00	730.00	26280.00



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