

# vegnar

SURFACES

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# vegnar

SURFACES

## OUT DOOR

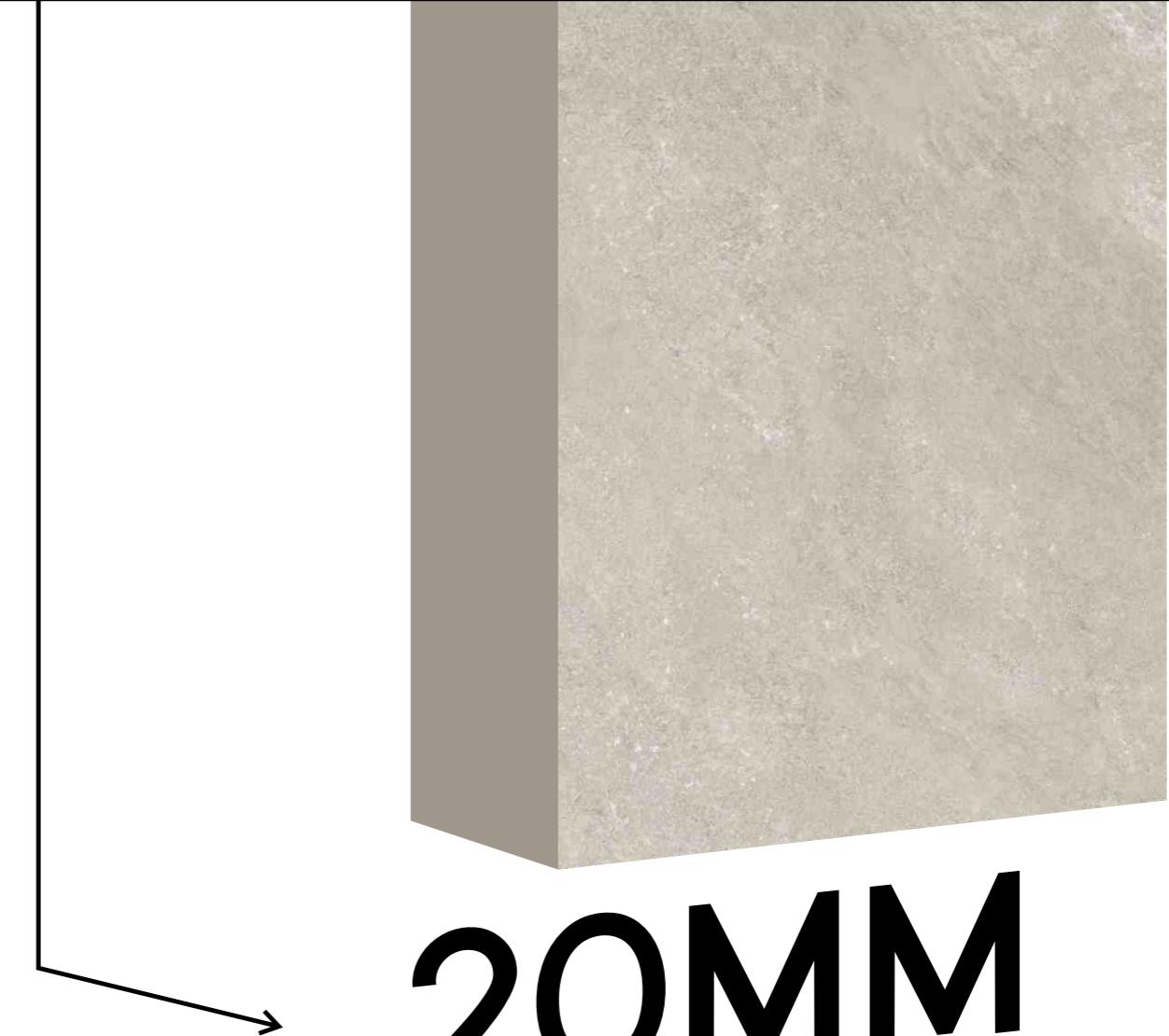
PORCELAIN

**Every Tile is An  
Expression of Quality**



# OUR IDENTITY

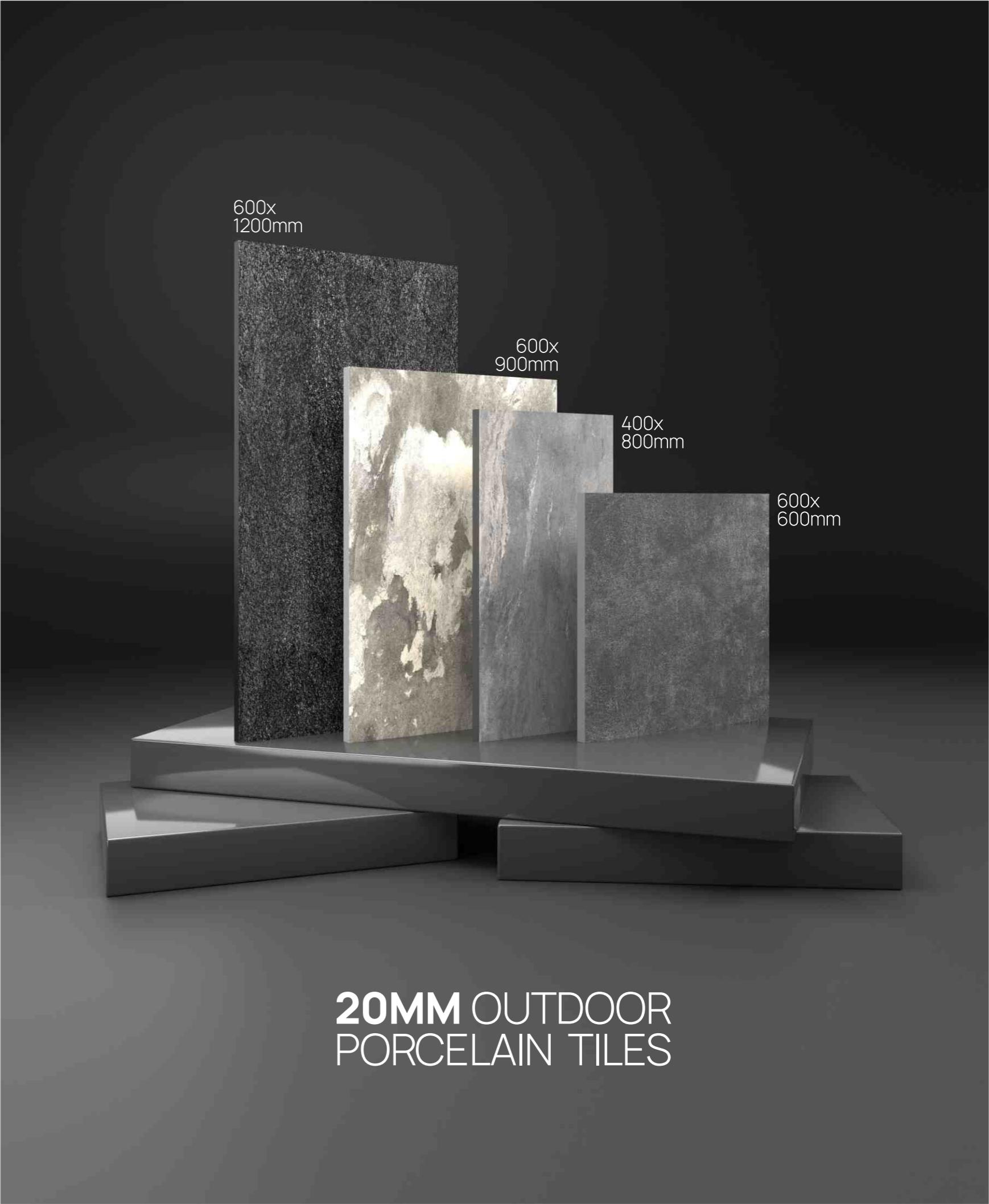
The Blending of various Natural Resources in a Sustainable Manner. For Instance, integrating Forest Management with Water Conservation Practices Ensures That The Needs of Both Ecosystems are met While Maintaining Balance.



Discover the collection  
Of resilient surfaces crafted with  
The convergence of nature &  
Technology for demanding outdoors &  
Areas that are an extension of your  
Homes and spaces.

The outdoors of your homes and spaces are the First impression that you make on your guests and they are also the places that endure the most. Keeping in mind the aesthetics, functionality, and resilience your outdoor spaces require, Simstone is here with an exclusive collection of outdoor tiles which is packed with superior aesthetics, endurance, and functionality

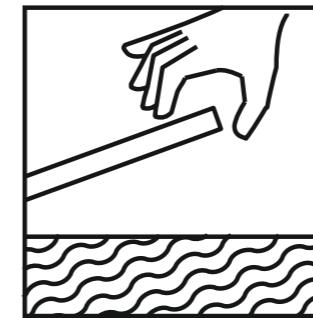
that will not let you compromise on the outdoor tiling of your spaces and transform those areas in practical and presentable spaces. The exclusive collection offers outdoor colorbody tiles in robust 20mm thickness and four versatile sizes 600x1200mm, 600x900mm, 600x600mm, and 400x800mm that cater to every tiling need. Packed with a plethora of features the collection blends strength, style, and resilience in your spaces.



**20MM OUTDOOR  
PORCELAIN TILES**

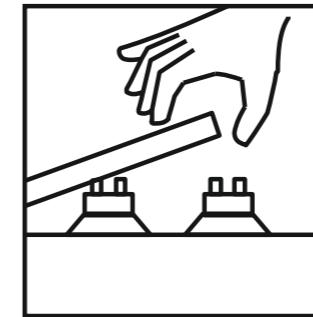


## TILE LAYING POSSIBILITIES



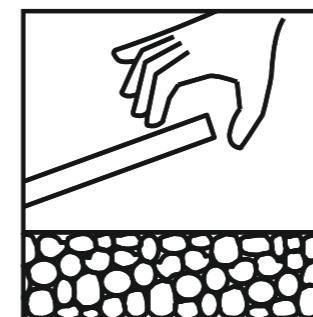
### Laying on screed With adhesives

Laying on screed with adhesives Lay the 20mm outdoor tiles on a bed of screed with adhesives for heavy traffic areas like parking, courtyards, and others like swimming pool borders, outdoor flooring, sit-out areas, and more.



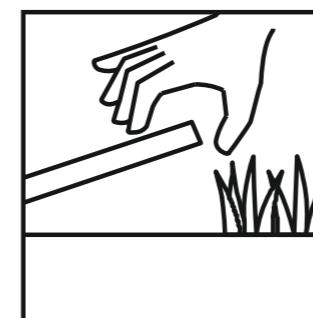
### Laying on Raised floor

Tile uneven areas, terrains, and more and transform them enduring by laying 20mm outdoor tiles on raised floor pedestals, frames, and more. Create room for a heating system, insulation, additional raised area.



### Laying on Gravel

The robust and resilient collection is ideal for laying directly on gravel in your outdoors with or without adhesive. Create a stepping stone path, patio, and more by just laying the thick tiles on the gravel in your outdoors.



### Dry laying on The grass

Shape elegant pathways, outdoor leisure areas, and more by dry laying the 20mm outdoor tiles on the grass in your gardens and other areas surrounding the building. The laying possibility opens door to fuss-free outdoor tiling.

## 20MM OUTDOOR PORCELAIN TILES

### Ideas and Inspirations

1. Driveways and parking areas
2. Stepping stones and lawn walkways
3. Courtyards and outdoor living areas
4. Terraces with a raised laying system
5. Street furniture and planters
6. Pool areas
7. Steps

**Small Space,  
Big Impact.** | Create your  
Style with us

With the freedom of expression offered by Simstone, any outdoor zone can be transformed into a living space to be enjoyed and shared, a genuine extension of your home. The aesthetic range of the collections, which combine to perfection with the indoor surfaces, and the rich assortment of trims, enable interpretation of any aesthetic style and meet any architectural requirements with no trade-off between performance and appearance.



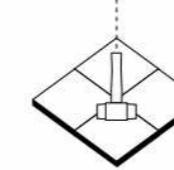
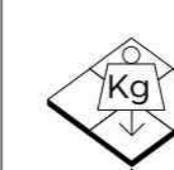
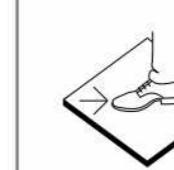
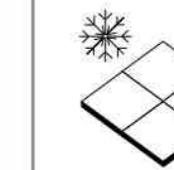
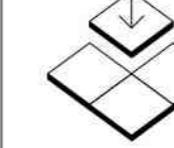
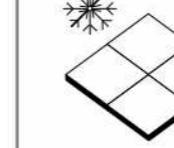
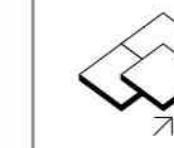
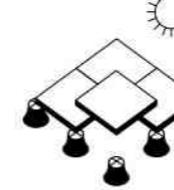
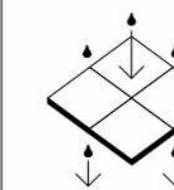
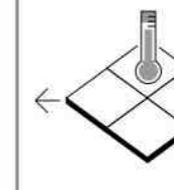
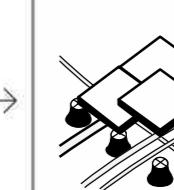
## ROBUST THICKNESS MIGHTY DURABILITY



# 20MM

The Substantial Thickness of 20mm Of The Collection Lends The Surfaces Exceptional Durability And Resilience. The Thickness Offers Surfaces Durability To Endure Heavy Traffic, Weight, And Rugged Use And Makes The Surfaces Practically Ideal For All Kinds Of Usages. The Thickness Paired with R11 anti-skid Surfaces Makes The Surfaces Of The Collection Extremely Safe For use outdoors.

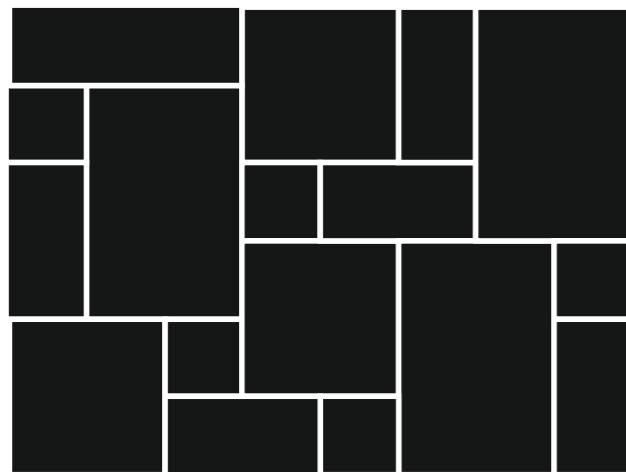
## BENIFITS OF 20MM OUTDOOR TILES

 Stress-resistant	 High tensile strength	 Antislip (R11)	 Weather resistant
 Easy to clean due to the lack of adhesives and filler	 Easy to install even without adhesives or filler	 Frost and fire-resistant	 Removable and reusable
 Ideal for paving outdoor installations, including raised paving.	 Good drainage, facilitates the flow of water and rainfall, eliminating harmful stagnation	 Highly resistant to changes in temperature	 Easily inspected and functional, allows installation and maintenance of cabling and pipework.

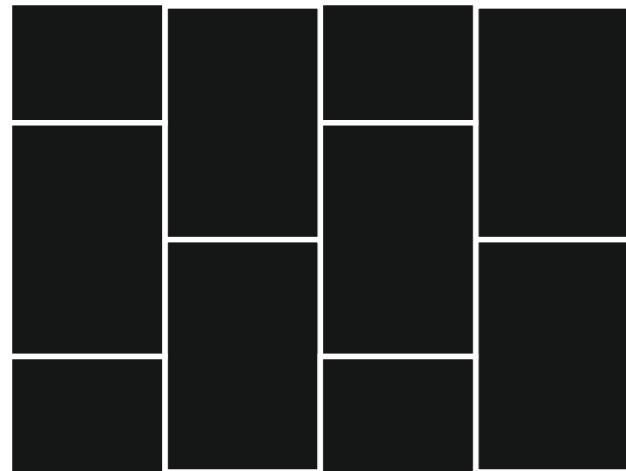
The Robustly Crafted Collection Comes With A Plethora of Features And Benefits And Aids In an Effortless and Risk-free Lifestyle With Attributes Like R11 anti-slip Surfaces, Resistance To Heat, Frost, Fire, Weather, Stains, And More, And Also Very Easy To Maintain. On Top Of Features, The Surfaces are Easy To Install, Removable, and Reusable.

# LAYING PATTERNS

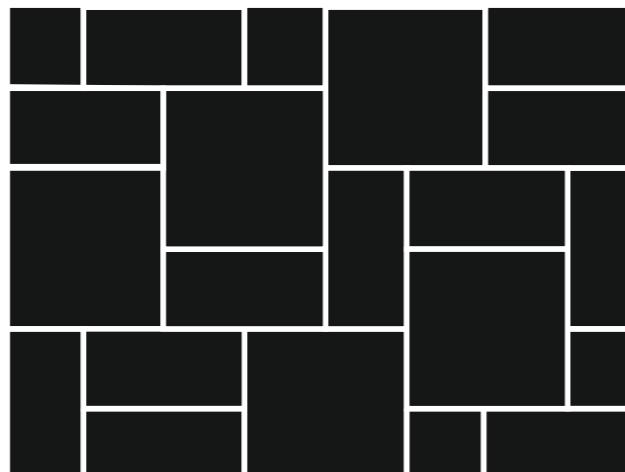
Achieve Visually Appealing Outdoors With Multiple Laying Pattern Possibilities.



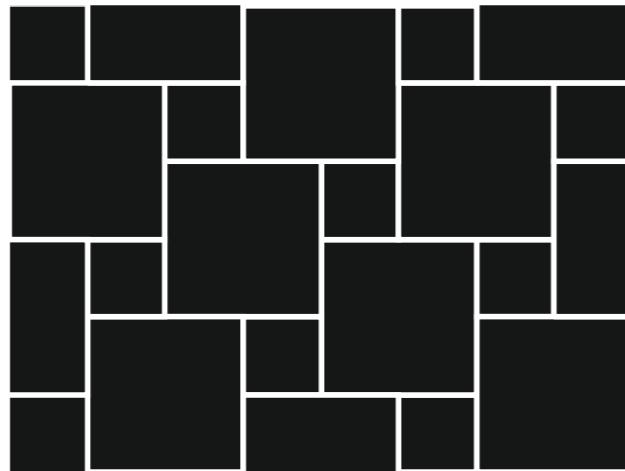
Tiles Combination  
600x900mm, 600x600mm,  
300x600mm, 300x300mm



Tiles Combination  
600x900mm

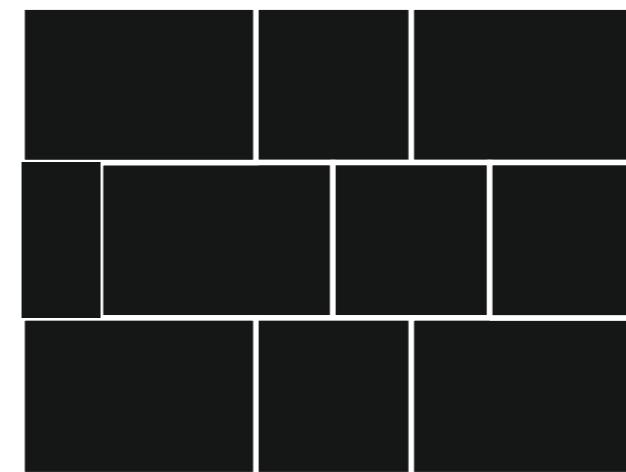


Tiles Combination  
600x600mm, 300x600mm

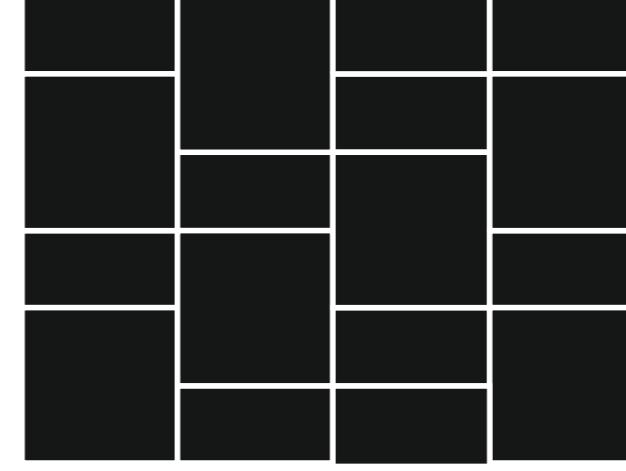


Tiles Combination  
600x600mm, 300x300mm

Explore extensive tile-laying pattern possibilities with the multiple sizes of the 20mm outdoor tile collection. The four different sizes of the collection allow you to mix and match tile sizes for a unique lay in your spaces. Mix two or

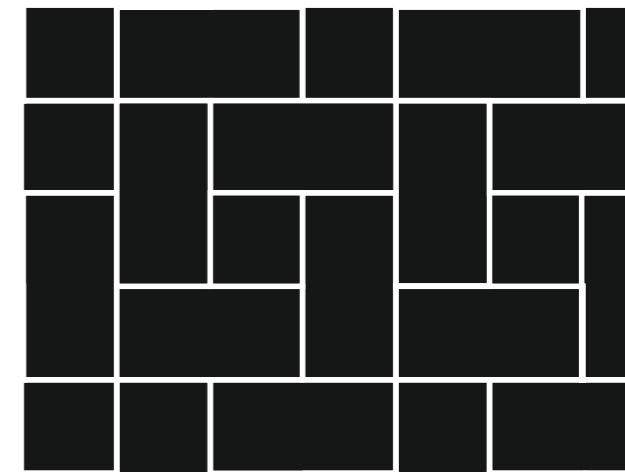


Tiles Combination  
600x900mm, 600x600mm

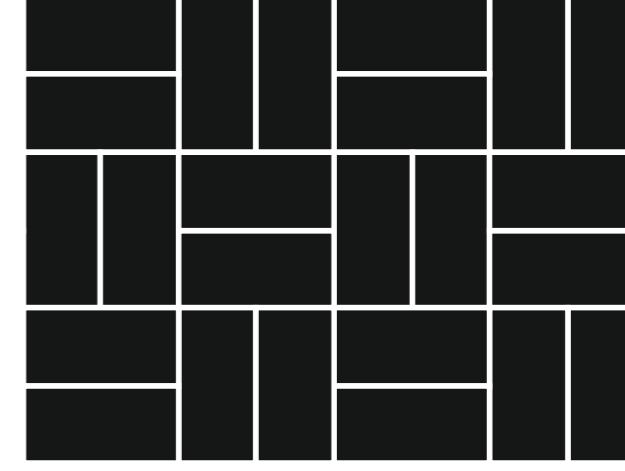


Tiles Combination  
600x600mm, 300x600mm

more sizes and spruce up your tiling game outdoors with the elegant tile laying combination possibility with the versatile tile sizes and robust thickness of the collection ideal for reusing and relocating tiles.



Tiles Combination  
600x1200mm, 600x600mm



Tiles Combination  
300x600mm



600 x 600 mm MERAKI GREY

## MERAKI GREY

Great for accent walls or kitchen backsplashes, adding texture and style.



Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

This collection has a wide variety of tile facings by size to maximize the realism it can convey within a design space.

Size : 600 x 600mm  
FINISH : R11

Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

Size : 600 x 1200mm  
FINISH : R11



600 x 600 mm image variations

## CEMENTINO ASH

Great for accent walls or kitchen backsplashes, adding texture and style.



Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

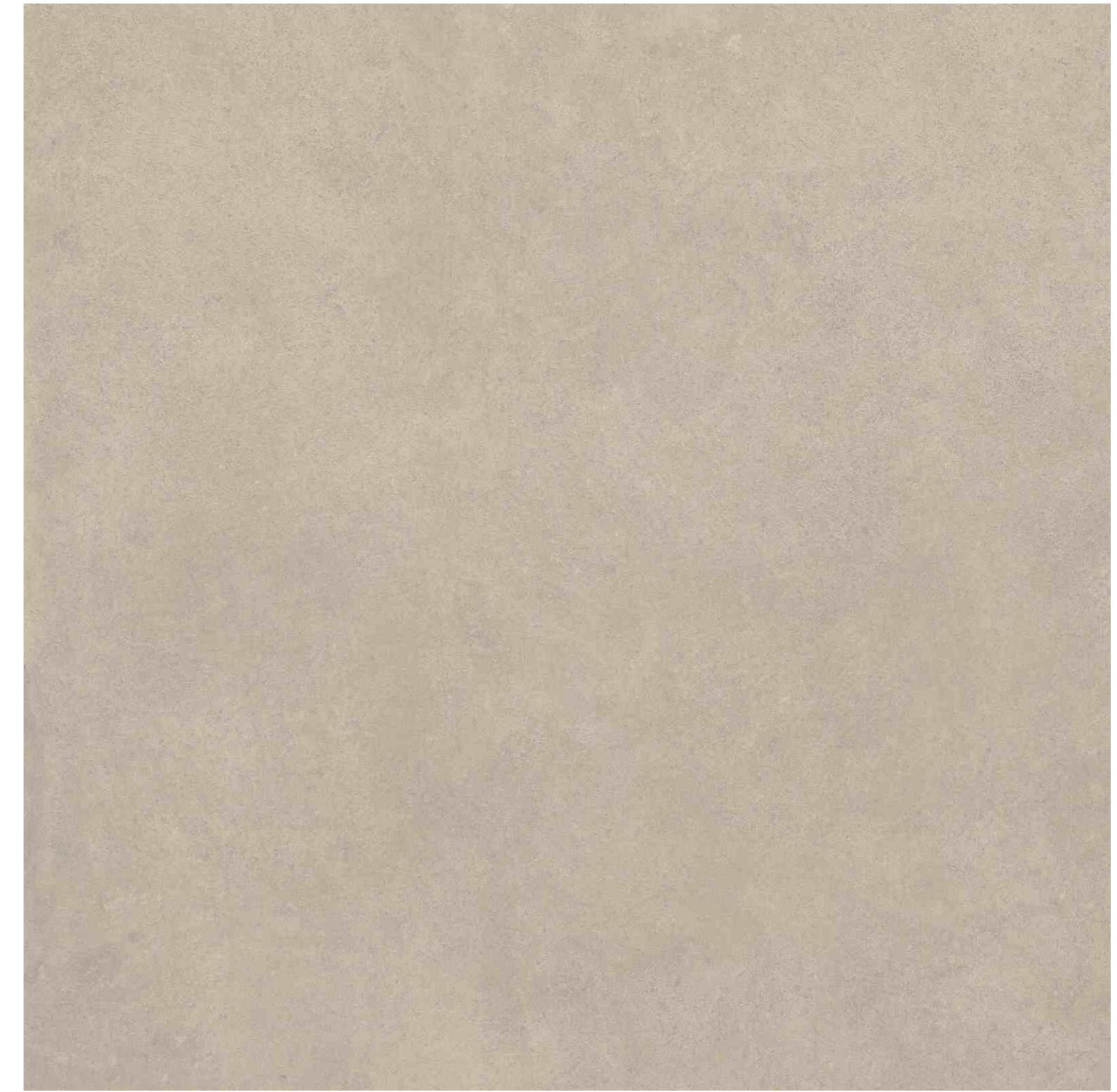
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Size : 600 x 600mm  
FINISH : R11

Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

Size : 600 x 1200mm  
FINISH : R11



600 x 600 mm image variations

## CEMENTINO BEIGE

Great for accent walls or kitchen backsplashes, adding texture and style.



Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

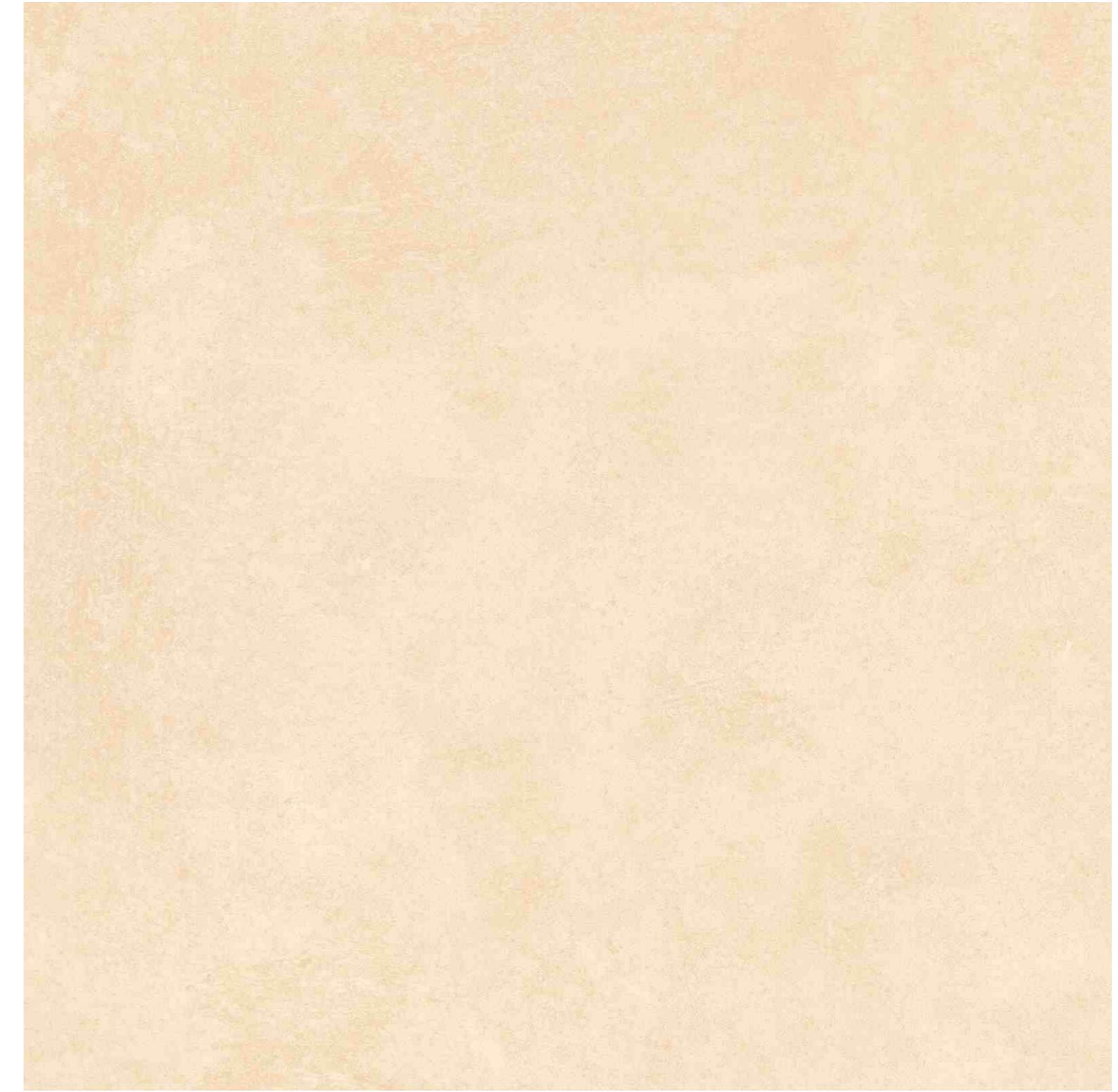
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Size : 600 x 600mm  
FINISH : R11

Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

Size : 600 x 1200mm  
FINISH : R11



600 x 600 mm image variations

## CEMENTINO GREY

Great for accent walls or kitchen backsplashes, adding texture and style.



Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

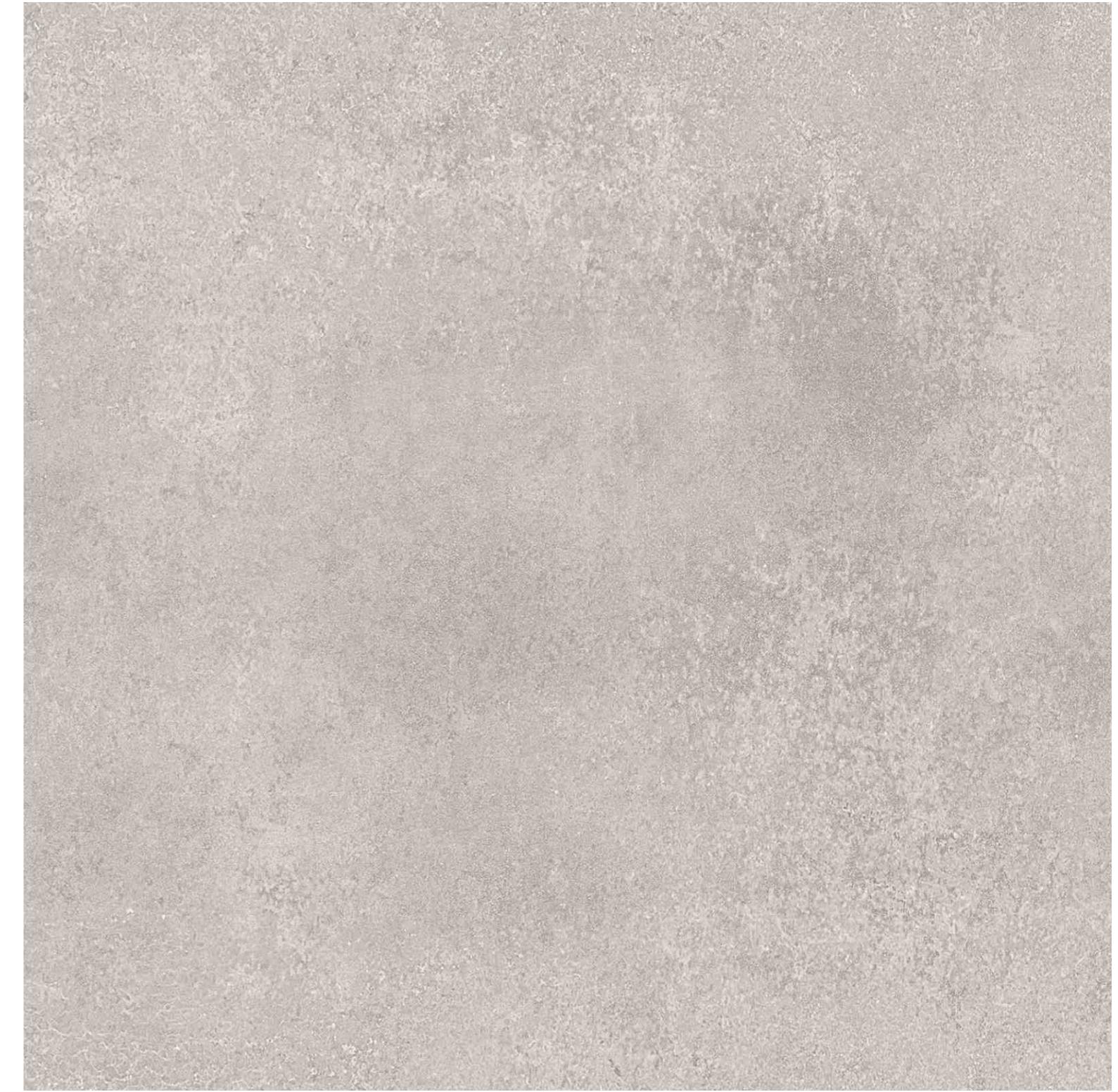
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Size : 600 x 600mm  
FINISH : R11

Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

Size : 600 x 1200mm  
FINISH : R11



600 x 600 mm image variations

## CEMENTINO NERO

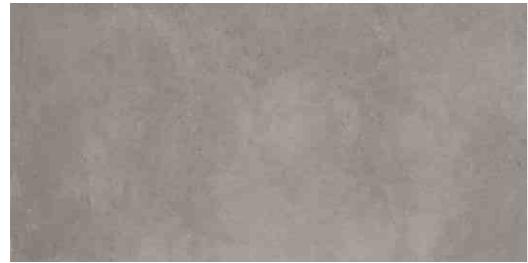
Great for accent walls or kitchen backsplashes, adding texture and style.



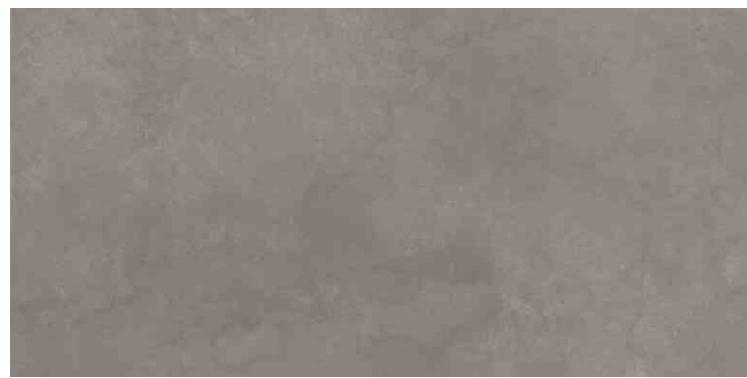
Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

This collection has a wide variety of tile facings by size to maximize the realism it can convey within a design space.

Size : 600 x 600mm  
FINISH : R11

Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

Size : 600 x 1200mm  
FINISH : R11



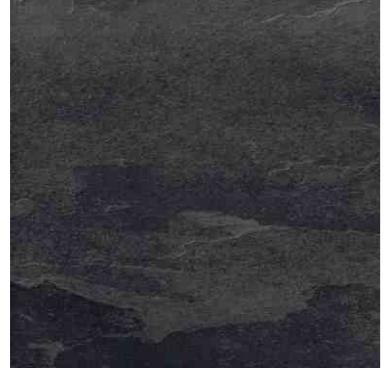
600 x 600 mm image variations



600 x 600 mm BRAZILLIAN BLACK

## BRAZILLIAN BLACK

Great for accent walls or kitchen backsplashes, adding texture and style.



Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

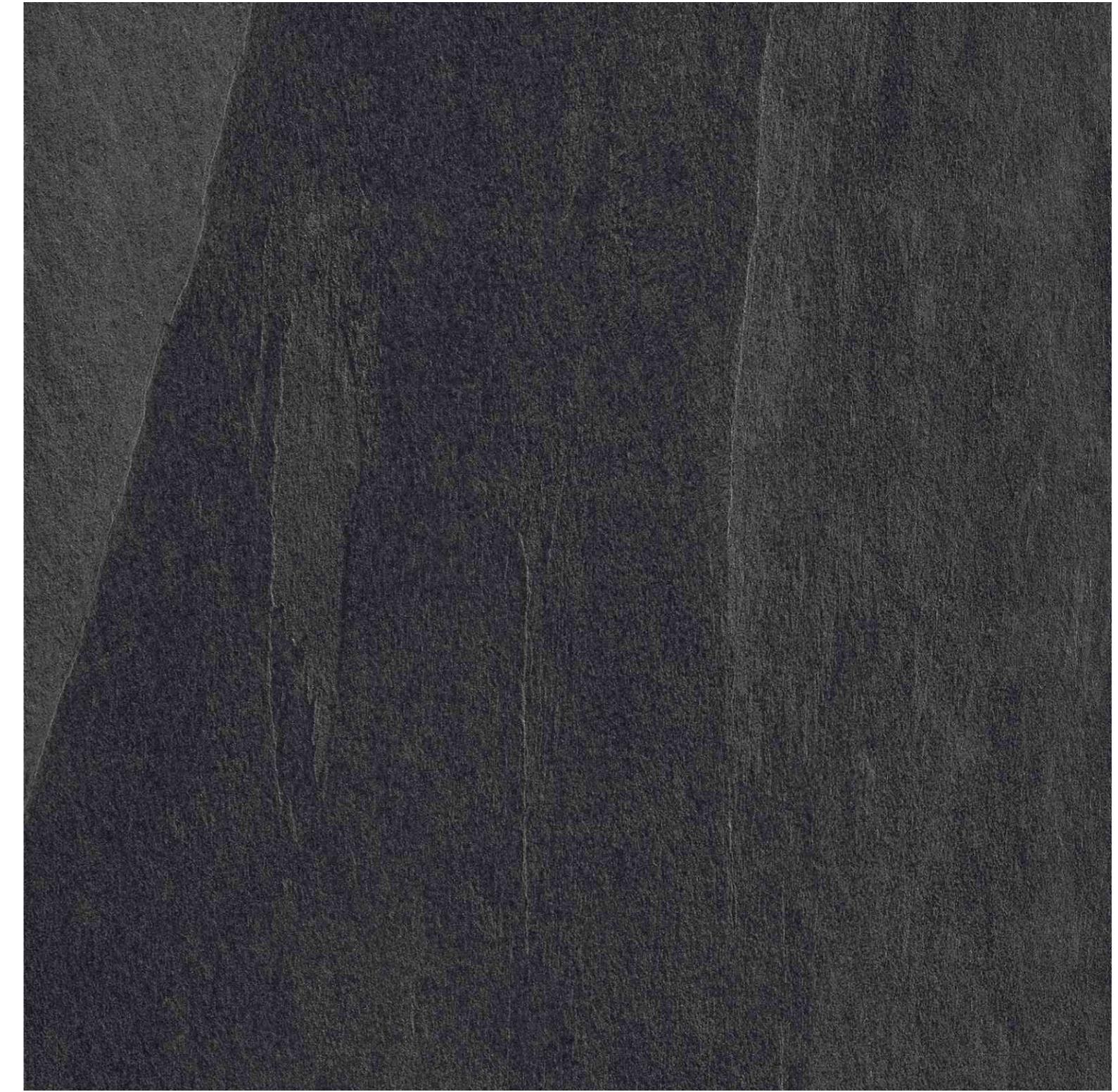
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Size : 600 x 600mm  
FINISH : R11

Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

Size : 600 x 1200mm  
FINISH : R11



600 x 600 mm image variations

## BRAZILLIAN GREY

Great for accent walls or kitchen backsplashes, adding texture and style.



Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

This collection has a wide variety of tile facings by size to maximize the realism it can convey within a design space.

Size : 600 x 600mm  
FINISH : R11

Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

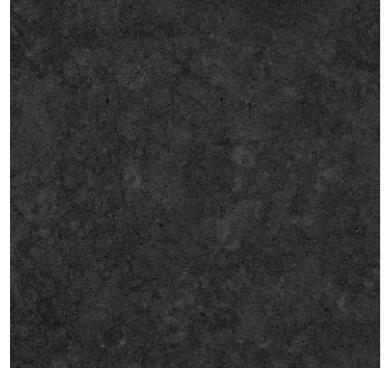
Size : 600 x 1200mm  
FINISH : R11



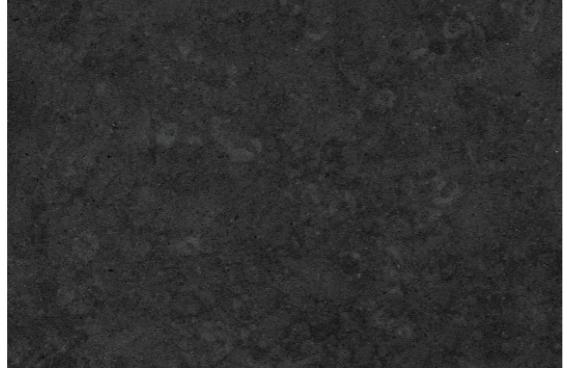
600 x 600 mm image variations

## BELGIUM STONE BLACK

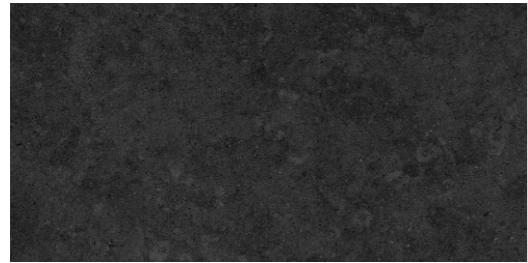
Great for accent walls or kitchen backsplashes, adding texture and style.



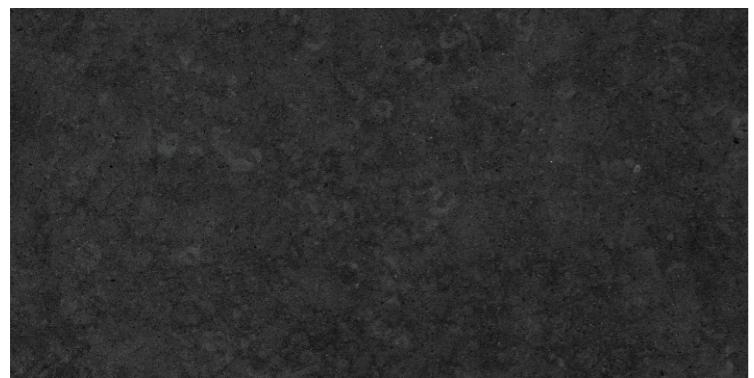
Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

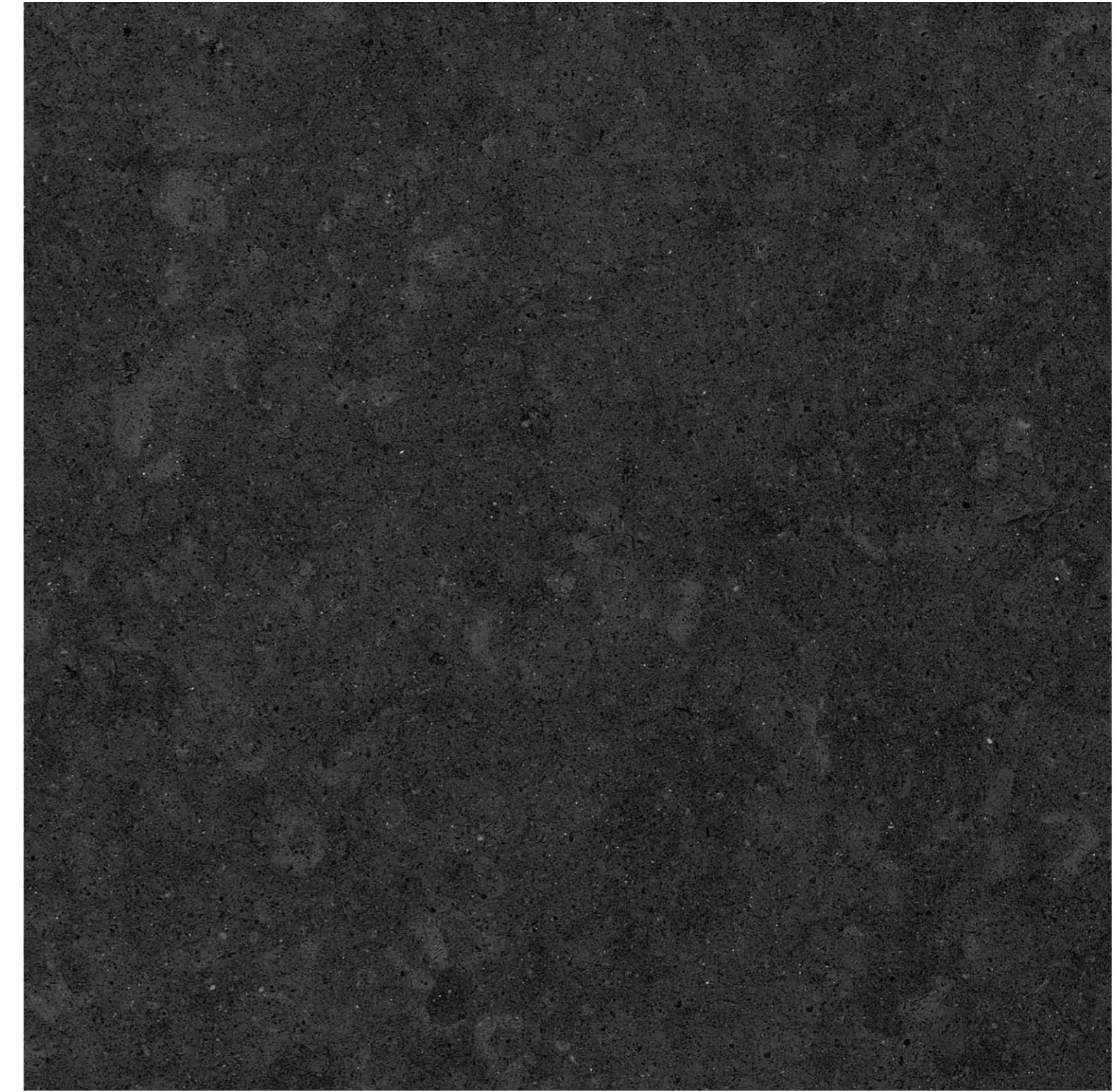
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Size : 600 x 600mm  
FINISH : R11

Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

Size : 600 x 1200mm  
FINISH : R11



600 x 600 mm image variations

## BELGIUM STONE GREY

Great for accent walls or kitchen backsplashes, adding texture and style.



Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

This collection has a wide variety of tile facings by size to maximize the realism it can convey within a design space.

Size : 600 x 600mm  
FINISH : R11

Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

Size : 600 x 1200mm  
FINISH : R11



600 x 600 mm image variations

## BLUE STONE COIN

Great for accent walls or kitchen backsplashes, adding texture and style.



Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

This collection has a wide variety of tile facings by size to maximize the realism it can convey within a design space.

Size : 600 x 600mm  
FINISH : R11

Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

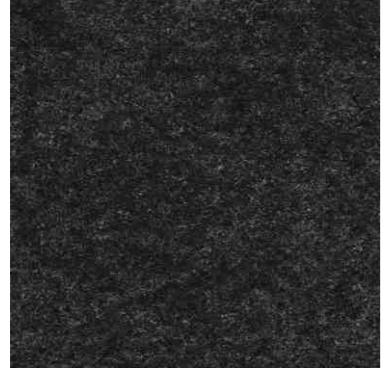
Size : 600 x 1200mm  
FINISH : R11



600 x 600 mm image variations

## BLUE STONE NATURAL

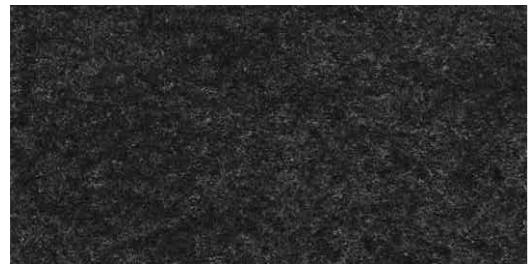
Great for accent walls or kitchen backsplashes, adding texture and style.



Size : 600 x 600mm  
FINISH : R11



Size : 600 x 900mm  
FINISH : R11



Size : 400 x 800mm  
FINISH : R11



Size : 600 x 1200mm  
FINISH : R11

### IMAGE VARIATIONS

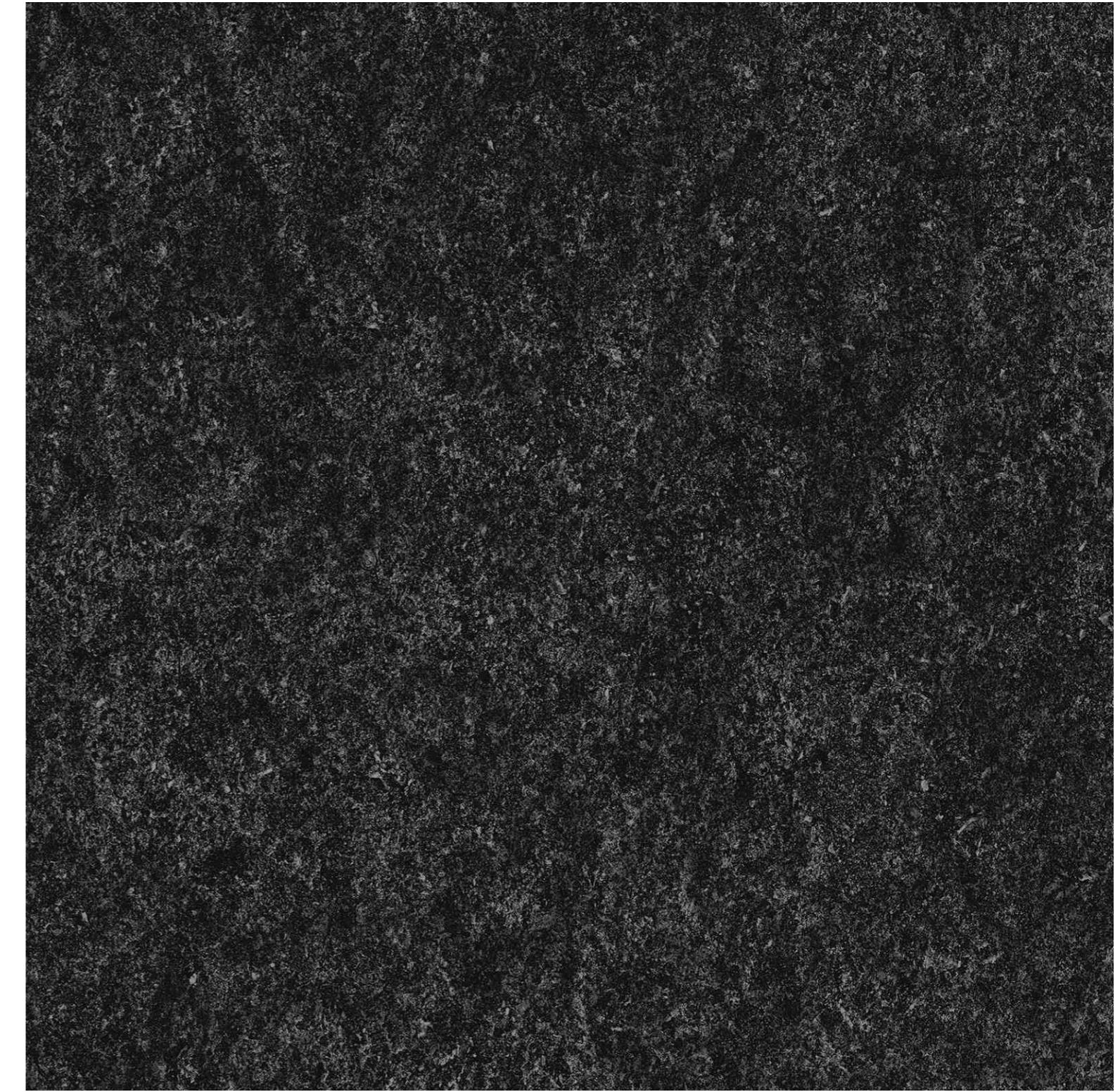
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Size : 600 x 600mm  
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Size : 600 x 900mm  
FINISH : R11

Size : 400 x 800mm  
FINISH : R11

Size : 600 x 1200mm  
FINISH : R11



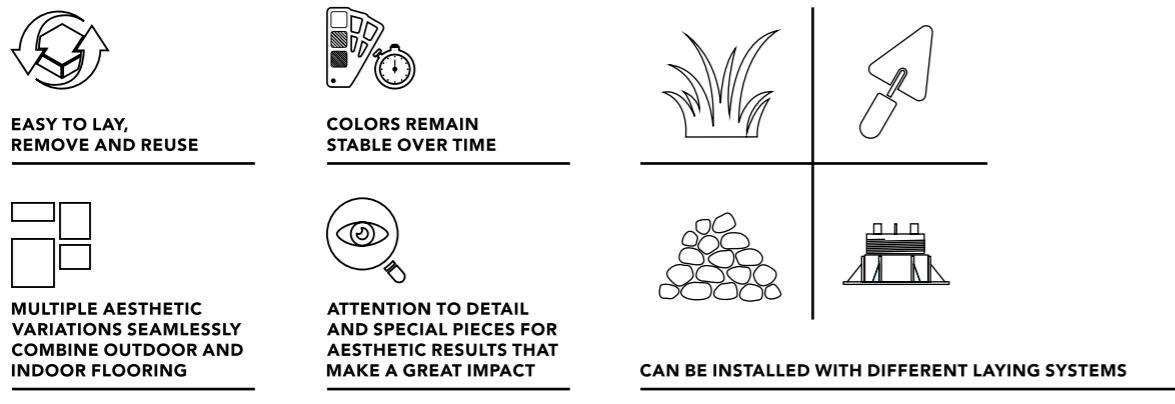
600 x 600 mm image variations

## PORCELAIN STONEWARE TILE 20MM FOR OUTDOOR FLOORING

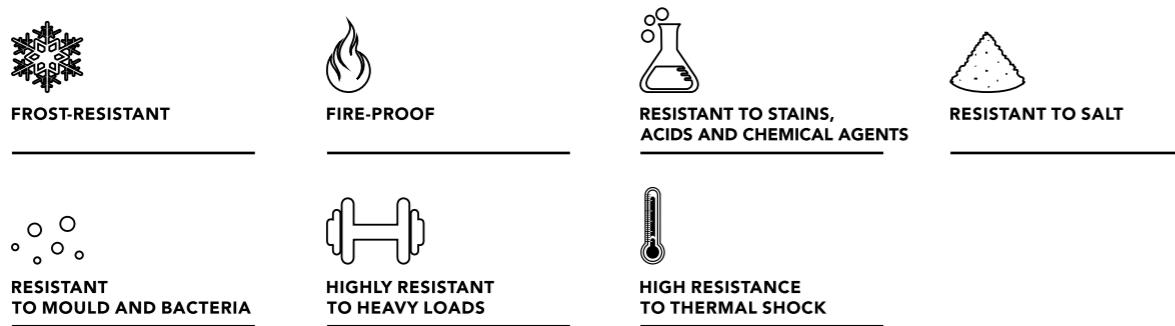
20mm outdoor porcelain stoneware is the product with the highest technical performance, ideal for flooring in an outdoor environment without the risk of breakage and without interrupting the continuity between interior and exterior spaces. Resistant to frost and thermal

shock, it has intensified anti-slip characteristics and is easy to clean. The perfect union between high technical performance and aesthetics helps maintain the material and color unchanged over time, guaranteeing long-lasting durability.

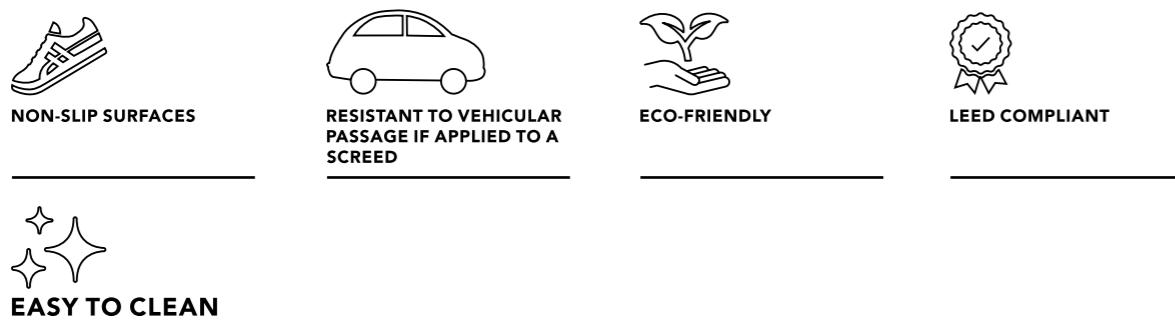
### VERSATILE



### RESISTANT



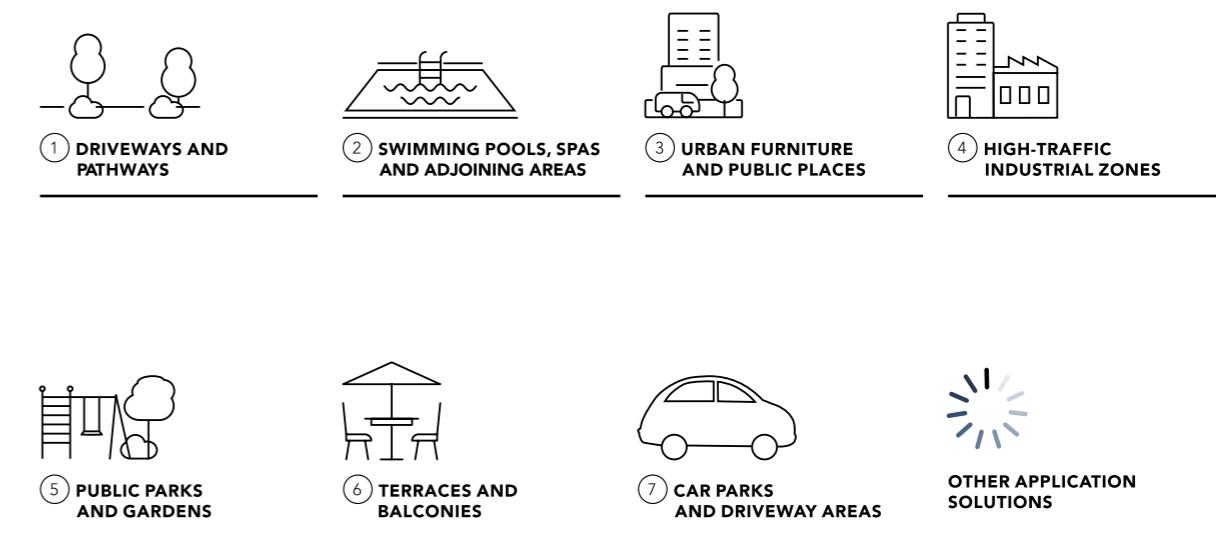
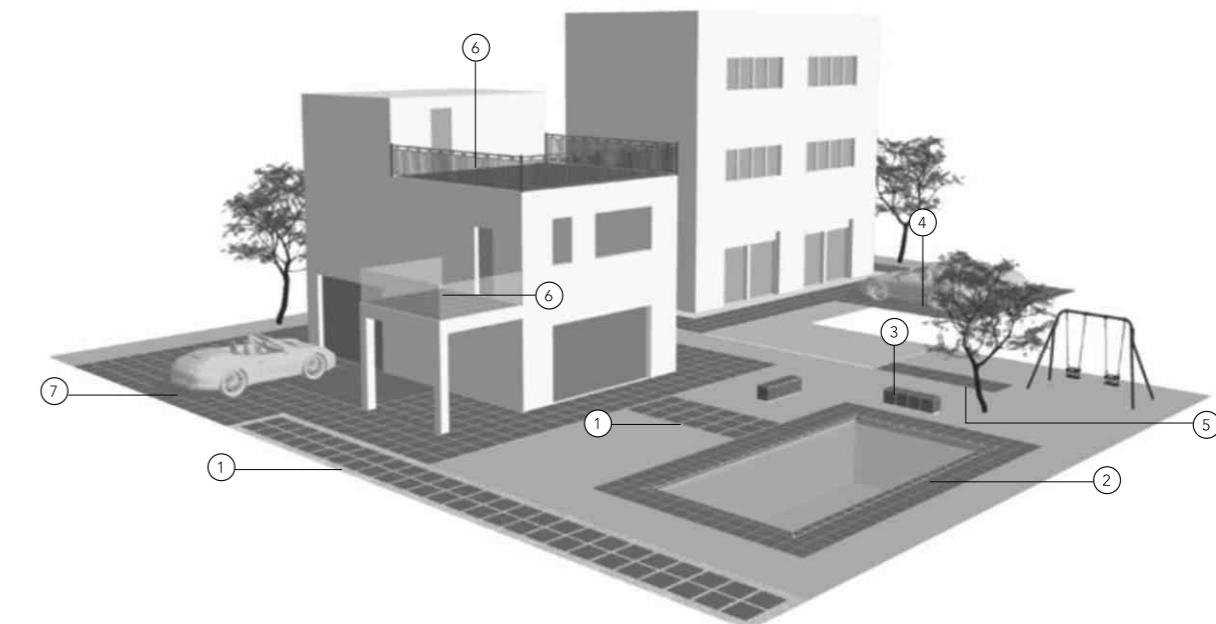
### FUNCTIONAL



## INTENDED USES

Owing to the possibility of installing it dry (on grass, sand, gravel, and elevated floors) the 20mm porcelain outdoor tile collection is the

most versatile solution for exterior floors in residential and public areas.



## LAYING SOLUTIONS

Outdoor porcelain 20mm tiles are an innovative solution that is very versatile due to the numerous laying possibilities they offer: dry

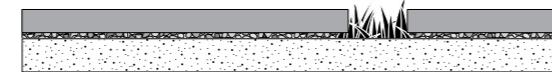
installation on grass, gravel, or sand, screed with adhesive, and elevated floor installation.

### DRY INSTALLATION ON GRASS



a.

Easy to lay, adjust, and move. An ideal solution for public parks and private gardens.

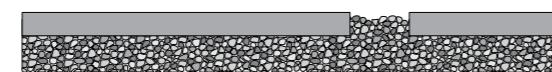


### DRY INSTALLATION ON GRAVEL / SAND



b.

Easy to lay, adjust, and move. Boasts ideal aesthetic features to enhance contemporary buildings.



### INSTALLATION ON SCREED WITH ADHESIVE



c.

Build resilient and durable outdoor spaces, pathways, driveways, and more with the installation of 20mm tiles on screed with adhesive.

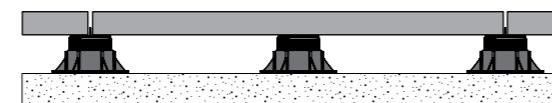


### ELEVATED FLOOR INSTALLATION



d.

Easily removable, inspectable, and reusable. Ideal to be applied with different kinds of support and is apt for concealing wiring pipes, and more with accessibility.



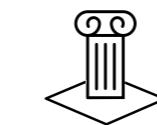
#### CAUTION

- When carrying out an elevated floor installation it is recommended to check the intended use and to follow the installation instructions.
- In the case of external dry installation, the force of the wind, in particular types of applications or geographical locations, can cause the lifting of the tiles.
- It is recommended that the designer/client always check the suitability of the installation system selected according to local regulations in force.
- Failure to follow the above recommendations may result in misuse of the product and cause injury to persons and/or damage to property.

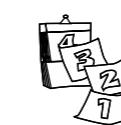
## DRY INSTALLATION ON GRASS

To create a pathway with stepping stones, first of all, it is important to determine the number of steps necessary for the entire path, making sure that the tiles are positioned equidistantly. So as to obtain maximum stability, it is recommended to

dig out about 5/8cm from the soil, and then place a fine layer of gravel. Compact the substrate and then position the tile. To allow the turf to grow well, it is advisable to leave a gap of at least 10cm between one tile and another.



SAFE AND STABLE



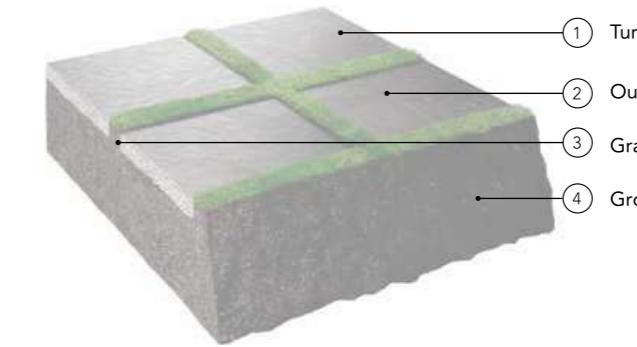
LONG-LASTING



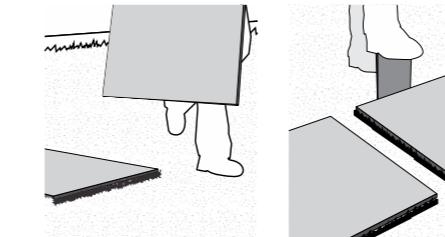
EASY TO CLEAN



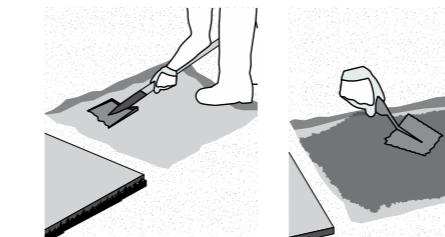
DRAINS



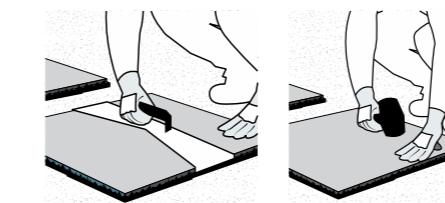
IT IS GOOD PRACTICE TO LAY THE SURFACE OF THE TILES IN LINE WITH THE TURF: THIS WAY THERE IS NO RISK OF DAMAGING THE LAWN MOWERS.



1/2



3/4



5/6

To determine the correct sizing and positioning of the flooring, place the tiles on the ground and carefully position them equidistant from each other. Mark the perimeter of the tile using a spade in the soil.

Remove the turf and dig out about 5cm of soil. Form a stable and uniform substrate using fine gravel (grain size 4/8mm).

Lay the tile, so as to have an approximately 0.5cm level difference, between the tile and the ground. To simplify tile installation it is possible to use suitable tile installation handles. Knock the tile along the edges with a rubber hammer until it is at the same level as the turf.

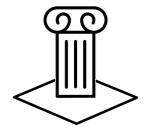
#### CAUTION

The application layers proposed are to be taken as an indication, and have the sole purpose of showing how to obtain a correct flooring.

## DRY INSTALLATION ON GRAVEL / SAND

For installation on sand it is good to remember to place a geotextile on the gravel, on which to spread out a layer (from 2 to 5cm thick) of dry sand with a grain size of 0/2mm. It is necessary to compact the sand with a vibro-compacting plate

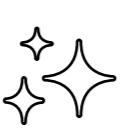
before proceeding with the installation of the tiles. For particular uses and for stressful loads, it is advisable to consult a technician in order to calculate precisely the thicknesses of the various layers of the substrate.



SAFE AND STABLE



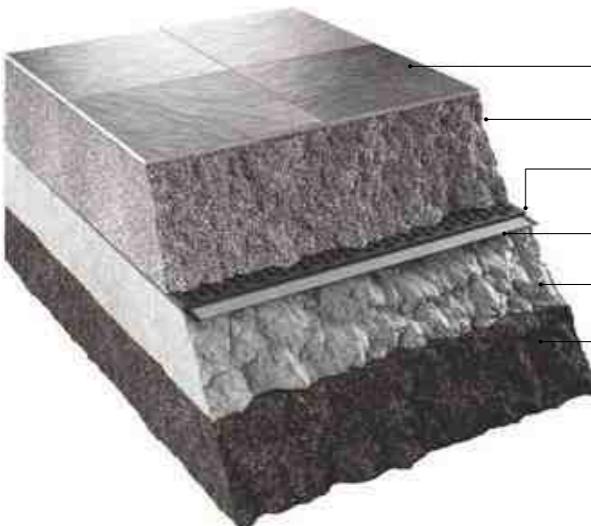
LONG-LASTING



EASY TO CLEAN



DRAINS



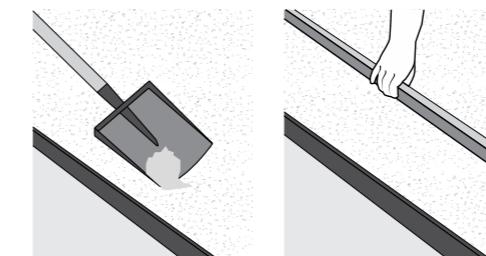
- ① Outdoor 20mm Porcelain Our Tile
- ② Gravel Ø 4/8mm (10/30cm thickness)
- ③ Honeycomb mat
- ④ Waterproof membrane
- ⑤ Screed (10/20cm thickness) with 0.5-2% inclination
- ⑥ Ground



- ① Outdoor 20mm Porcelain Our Tile
- ② Sand (2/5cm thickness)
- ③ Gravel Ø 0/20mm (20/40cm thickness)
- ④ Gravel Ø 40/80mm (30/50cm thickness)
- ⑤ Geotextile
- ⑥ Ground

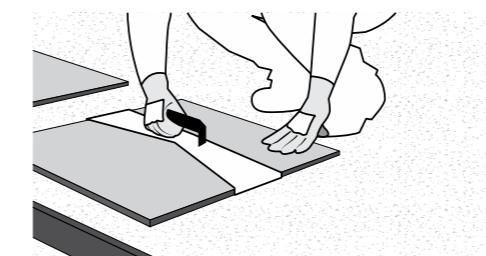
### CAUTION

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It is recommended to always refer to the specific norms and regulations in each individual country and the instructions of the project supervisor.



1/2

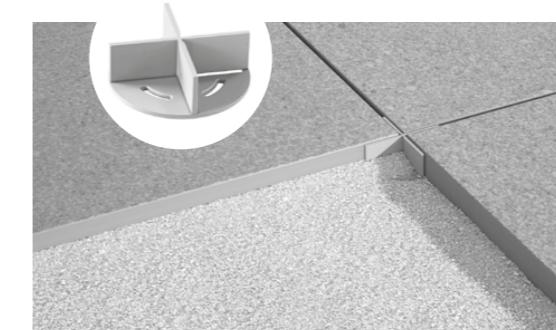
Form a stable and uniform substrate using fine gravel or sand. Level the substrate with a metal straight edge.



3

Position the tile and then compact the edges in order to level the tile with the substrate. It is suggested to use a joint of at least 4mm to allow good water drainage.

IN ORDER TO AVOID THE DISPLACEMENT OF THE SUBSTRATE AND CONSEQUENTLY THE TILES, THE SUBSTRATE MUST BE PARTITIONED WITH CONTAINMENT EDGES OR PERIMETER CURBS.

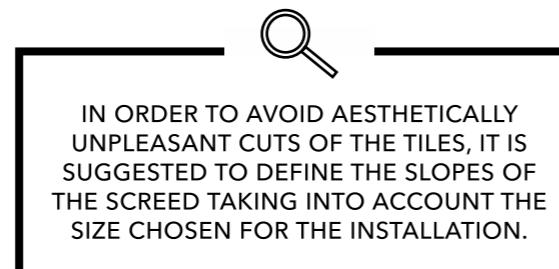
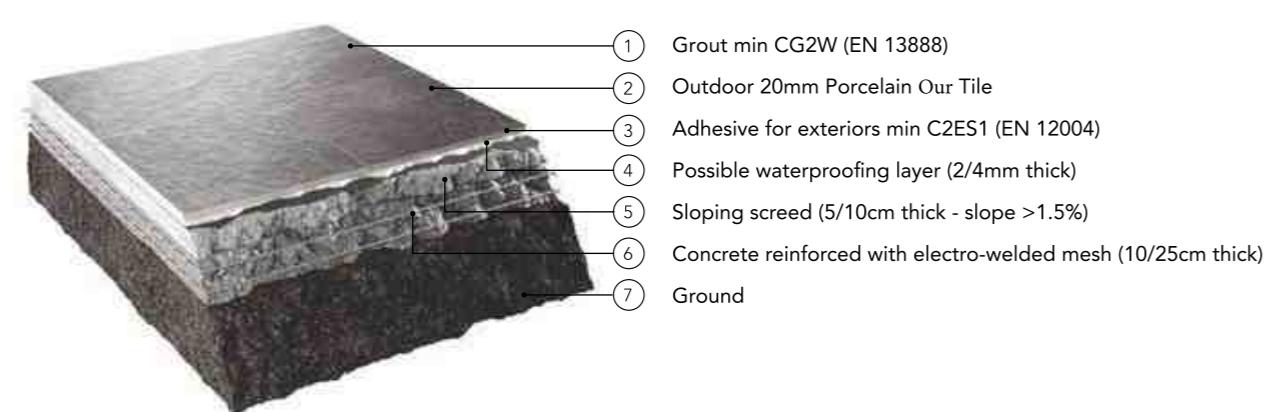
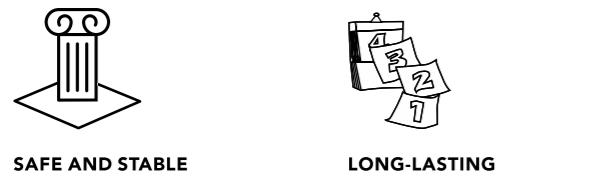


Spacers designed for laying tiles on sand or gravel are an extremely versatile and practical system despite their simplicity. The support is made up of a head with a spacer cross and a removable tip: the fins of the head cross help position the tiles and create the joint between them, ensuring that over time the flooring maintains its correct positioning. The tip is specific for application on sand: the elongated shape guarantees the anchorage and stability of the tiles, preventing them from slipping. For use on gravel, it is possible to remove the tip and place the spacer head directly on the gravel.

## INSTALLATION ON SCREED WITH ADHESIVE

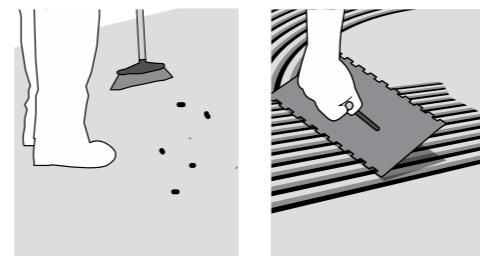
For installation on screed with adhesive we recommend a joint of at least 5mm. The size and position of the expansion joints must be established by the project supervisor; they must have an indicative width ranging from 4 to 12mm and divide the surface to be paved in a uniform

pattern with dimensions ranging from approximately 3x3m to 4x2.5m. To facilitate the flow of rainwater, it is always necessary to assess the slopes of outdoor paving; when laying with adhesives on screed, the slopes are determined by the latter.



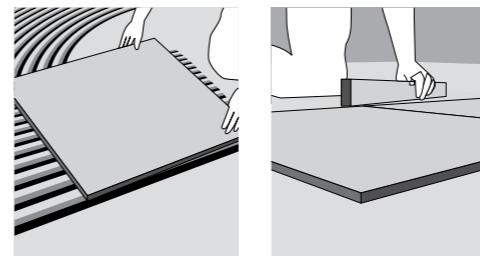
### CAUTION

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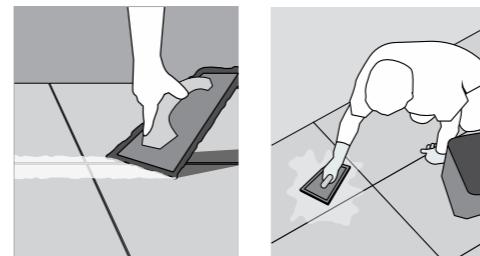
1/2

Before proceeding with the installation clean the substrate thoroughly. In order to obtain a flat floor, it is important to apply an even layer of adhesive.



3/4

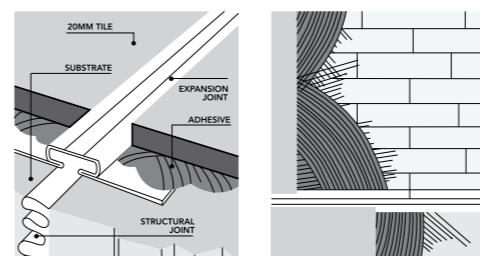
Check the planarity of the flooring regularly during the laying operations.



5/6

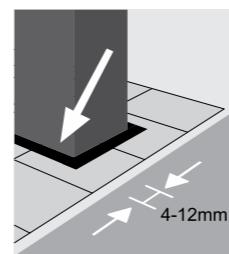
Once the installation is finished grout the flooring. Remember to observe the times indicated by the manufacturer for light foot traffic before walking on the tiles. "Post-installation" cleaning is mandatory at the end of the work and is required to remove residues of cement, lime or grout used for laying and filling the joints.

### Expansion joints



1/2

In correspondence with a structural or dividing joint in the screed, it is mandatory to provide an expansion joint with a width that is at least the size of the existing one. If there are joints between different surface types, it is mandatory to provide an expansion joint.



3

Around fixed elements of the supporting structure, such as walls, steps, columns, etc., it is mandatory to provide peripheral joints with a width of between 4 and 12mm.

## ELEVATED FLOOR INSTALLATION

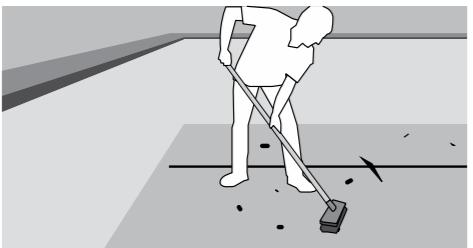
The elevated floor technology offers many specific and immediately perceptible advantages: it allows the passage of cables, pipes and necessary installations to be managed easily; it enables the underfloor to be inspected easily and guarantees an effective draining of rainwater. Thanks to the presence of

independent elements, elevated floors absorb expansion and structural movements, thus avoiding the formation of cracks on the waterproof membrane. The absence of the screed makes it possible to substantially reduce the weight that burdens the structures, while offering a high resistance to loads.

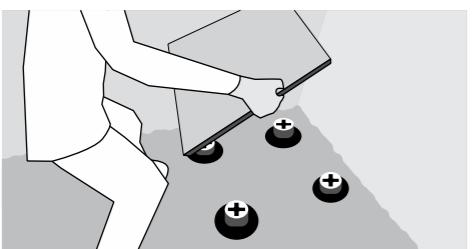


FOR THE OPTIMAL DRAINAGE OF RAINWATER, THE ELEVATED FLOORING MUST BE INSTALLED WITH A SLOPE OF BETWEEN 1.5% AND 2%.

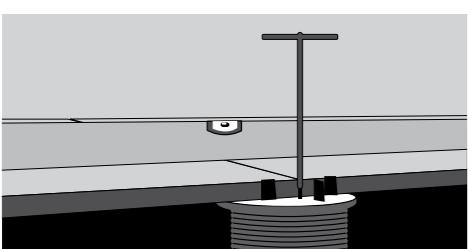
1 The installation on the plastic supports must only been done on perfectly waterproof substrates. Before proceeding with the installation clean the substrate thoroughly.



2 With regard to the number and position of the supports, as well as the type of reinforcement on the back of the slab, it is recommended to follow the instructions given in the following table, which are essential to evenly distribute the load.



3 With the use of the special adjustment key it is possible to obtain a perfectly stable surface and with the required slope for better water drainage.

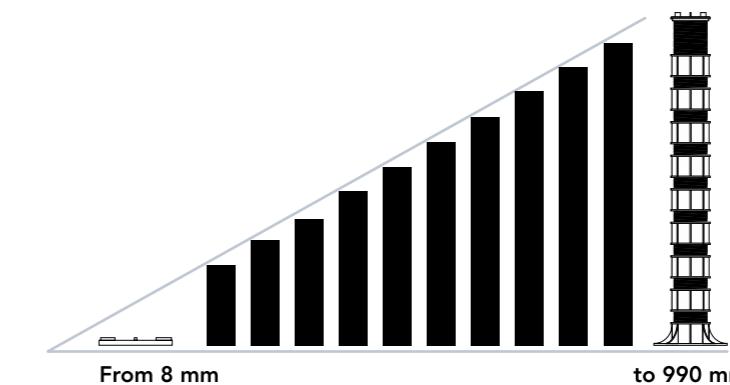


### CAUTION

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## ELEVATED FLOOR INSTALLATION - SUPPORTS

### Fixed supports and self-levelling adjustable supports



The structure of the supports consists of a base (which rests on the slab), a central screw adjustable in height and a head (on which the tile rests) which can be fixed or self-levelling with a self-adjustment system to alter inclination by up to 5°.

### Technical characteristics of the supports

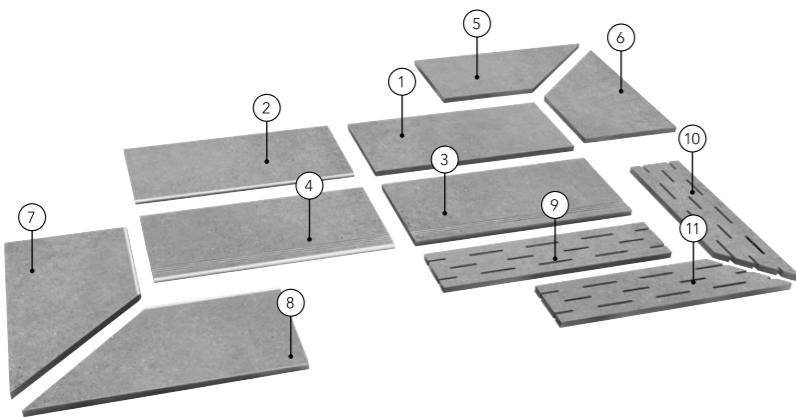
	They are made entirely of recycled and recyclable material
	Resistant to both acidic and alkaline solutions
	Resistant to atmospheric agents
	Resistant to temperatures of between -30 °C and +120°C
	Resistant to the crushing test with a load superior to 1 tonne
	Made of polypropylene
	Noise reduction of up to 25dB
	Possibility of using supports made with self-extinguishing material, which prevents the propagation of flames

Format	Elevated floor installation up to 2cm	Elevated floor installation 2-10cm	Elevated floor installation 10-30cm	Elevated floor installation 30-99cm
60x60cm	4 SUPPORTS 3+4 sup/m <sup>2</sup>	4 SUPPORTS 3+4 sup/m <sup>2</sup>	4 SUPPORTS + Reinforcement system or substructure of aluminium beams 3+4 sup/m <sup>2</sup>	4 SUPPORTS + Reinforcement system or substructure of aluminium beams 3+4 sup/m <sup>2</sup>
60x90cm	6 SUPPORTS 3+4 sup/m <sup>2</sup>	6 SUPPORTS + Reinforcement system or substructure of aluminium beams 3+4 sup/m <sup>2</sup>	6 SUPPORTS + Reinforcement system or substructure of aluminium beams 3+4 sup/m <sup>2</sup>	6 SUPPORTS + Reinforcement system or substructure of aluminium beams 3+4 sup/m <sup>2</sup>
60x120cm	6 SUPPORTS 3+4 sup/m <sup>2</sup>	6 SUPPORTS + Reinforcement system or substructure of aluminium beams 3+4 sup/m <sup>2</sup>	6 SUPPORTS + Reinforcement system or substructure of aluminium beams 3+4 sup/m <sup>2</sup>	6 SUPPORTS + Reinforcement system or substructure of aluminium beams 3+4 sup/m <sup>2</sup>

## SPECIAL ELEMENTS

In order to guarantee excellent aesthetics and functionality for the various possible applications, the 20mm outdoor porcelain

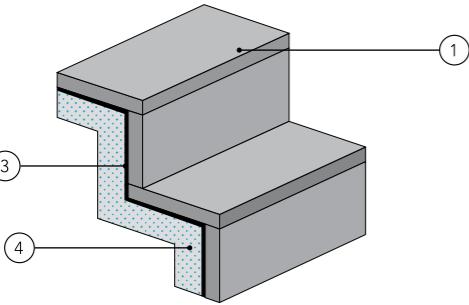
Our tile collections have a rich set of step elements and special pieces.



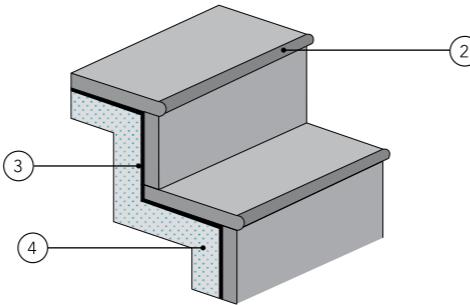
- ① Stair tile with straight edge
- ② Stair tile with rounded edge
- ③ Stair tile with straight ribbed edge
- ④ Stair tile with rounded ribbed edge
- ⑤ Right corner piece with straight edge
- ⑥ Left corner piece with straight edge
- ⑦ Left corner piece with rounded edge
- ⑧ Right corner piece with rounded edge
- ⑨ Grid
- ⑩ Right corner grid
- ⑪ Left corner grid

For the full range of special elements refer to the product catalogue.

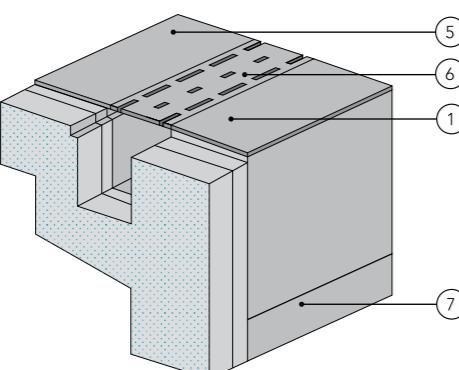
### STAIR TILE WITH STRAIGHT EDGE



### STAIR TILE WITH ROUNDED EDGE



### SWIMMING POOL EDGE



- ① Stair tile with straight edge
- ② Stair tile with rounded edge
- ③ Adhesive
- ④ Screed
- ⑤ Flooring
- ⑥ Grid
- ⑦ Swimming pool covering

## CAUTION

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It is recommended to always refer to the specific norms and regulations in each individual country and the instructions of the project supervisor.

## TECHNICAL SPECIFICATIONS

TEST DESCRIPTION	ISO-13006/EN176 GROUP BIA	MEAN VALUE OF OUR	TEST METHOD
Length & width	±0.6 %	±0.3mm	Passed
thickness 20mm	±5 %	±0.3mm	Passed
Straightness of side	±0.5 %	±0.3 %	Passed
Rectangularity	±0.6 %	±0.3 %	Passed
Surface flatness	±0.5 %	+0.35mm to -0.1mm	Passed
Surface quality	Minimum 95 %	Minimum 95 %	Passed
Water absorption	< 0.5 %	< 0.04 %	Passed
Breaking strength	> 1300N	> 1500N	Passed
Flexural strength (Average)	> 35N/mm <sup>2</sup>	> 40N/mm <sup>2</sup>	Passed
Scratch hardness of surface (Moh's scale)	> 6	> 6	Passed
Resistance to deep abrasion	<175mm <sup>3</sup>	<144mm <sup>3</sup>	Passed
Skid Resistance (Friction coefficient)	>0.4	>0.4	Passed
Bulk Density, in (g/cc)	>2	>2	Passed
Linear Thermal expansion	Max. 9.0 <sup>-6</sup> x K <sup>6</sup> , Max	Max. 9.0 <sup>-6</sup> x K <sup>6</sup> , Max	Passed
Thermal shock resistance	No damage	No damage	Passed
Frost resistance	Frost proof	Frost proof	Passed
Resistance to Chemical	Resistance	Resistance	Passed
Resistance to Stain	Resistant	Resistant	Passed
Moisture expansion	Nil	Nil	Passed
Colour resistance	Resistant	Resistant	Passed
Glossiness (Polished)	-	-	Passed

## PACKING DETAILS

Size	Pcs/Box	Sqm/Box	Weight/Box	Box/Pallet	Pallet/Cont.	Boxes/Cont.	Sqm/Cont.	Type of Pallet
600x600mm (20mm)	2	0.72	30.5kg	32	28	896	645.12	Pine Wood or Eclipse Wood Pallet
600x900mm (20mm)	1	0.54	23.5kg	40	30	1200	648	Pine Wood or Eclipse Wood Pallet
400x800mm (20mm)	2	0.64	27kg	46	22	1012	647.68	Pine Wood or Eclipse Wood Pallet
600x1200mm (20mm)	1	0.72	30.5kg	30	30	900	648	Pine Wood or Eclipse Wood Pallet

## PACKING DETAILS (PATIOPACK)

Size	Pcs/Pallet	Sqm/Pcs	Mrt/Pallet	Sqm/Cont.	Pallet/Cont.	Weight/Cont.	Type of Pallet
600x900mm (20mm)	17	0.54	9.18	641.52	33	27900kg	Pine Wood or Eclipse Wood Pallet
600x600mm (20mm)	17	0.36	6.12				Pine Wood or Eclipse Wood Pallet
296x600mm (20mm)	16	0.18	2.88				Pine Wood or Eclipse Wood Pallet
296x296mm (20mm)	14	0.09	1.26				Pine Wood or Eclipse Wood Pallet
Total	64		19.44				