



ICON STONE



600x900mm

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

# 20MM OUTDOOR

At the heart of our essence lies an unwavering dedication to innovation, a flame that propels us ceaselessly into the realms of progress. Draped proudly in the mantle of pioneering excellence within the realm of 20mm outdoor porcelain, we not only signify the pinnacle of cutting-edge craftsmanship but also encapsulate an unyielding resolve to defy conventional limits.

The narrative of our journey through the landscape of 20mm outdoor porcelain is nothing short of transformative. From the humble roots of local recognition, we have ascended to the zenith of global eminence. In the expansive world of tiles, we have emerged not merely as participants but as formidable players on the grand stage, etching an indelible mark with our unwavering commitment to uncompromising quality.

Our innovation is not merely a buzzword but a living, breathing ethos that permeates every facet of our existence. It is the driving force behind the groundbreaking designs and avant-garde solutions that define our products. The 20mm outdoor porcelain, a testament to our pioneering spirit, stands as a beacon of our commitment to excellence, resilience, and a persistent pursuit of perfection.

In an industry where mediocrity is commonplace, we have chosen the path less traveled — the path of pushing boundaries and redefining standards. Our commitment to quality isn't a mere benchmark; it is a sacred covenant with our customers. Every tile bearing our name is a manifestation of this covenant, embodying the culmination of precision, durability, and aesthetic brilliance.

As we navigate the global stage, our presence is not just a representation of our brand but a reflection of a culture deeply rooted in the belief that true progress is achieved through ceaseless innovation. We stand tall, not only as pioneers in 20mm outdoor porcelain but as torchbearers of a legacy that places relentless innovation at its very core.

In the grand tapestry of the tile industry, our thread is one of boldness, creativity, and a pioneering spirit that transcends boundaries. The journey from local prominence to global eminence is a testament to our resilience, a journey fueled by the passion to shape the future and leave an enduring legacy in the world of 20mm outdoor porcelain.

20MM



## INTRODUCTION

In the realm of outdoor design, a revolution is underway, and its name is Simola's 20mm Outdoor Porcelain. As concrete jungles give way to spaces that seamlessly blend nature and architecture, the popularity of these durable and versatile tiles has witnessed an unprecedented surge.

Gone are the days when outdoor spaces were confined to functionality alone. Simola's 20mm Outdoor Porcelain marries form and function, offering a perfect union of aesthetic appeal and durability. From patio retreats to expansive garden landscapes, these tiles redefine the possibilities of outdoor design.

The allure of 20mm Outdoor Porcelain lies not only in its contemporary designs but also, in its ability to withstand the test of time. Resilient against the whims of weather and the passage of seasons, these tiles retain their elegance, ensuring that outdoor spaces remain a source of pride year after year.

Versatility is the hallmark of 20mm Outdoor Porcelain. Whether creating a sleek modern terrace or a rustic garden pathway, these tiles effortlessly adapt to diverse design aspirations. The flexibility they afford allows architects and homeowners to transform outdoor spaces into personalized expressions of style.

The surge in popularity is not just about aesthetics; it's also a testament to the practical advantages offered by 20mm Outdoor Porcelain. Low maintenance requirements make these tiles an attractive choice for those seeking both visual appeal and ease of upkeep, contributing to their widespread acclaim.

As the world leans towards sustainable practices, 20mm Outdoor Porcelain emerges as an eco-friendly option. With responsible manufacturing practices and a longer lifespan compared to traditional outdoor flooring, these tiles align seamlessly with the ethos of environmentally conscious design.

The increasing popularity of 20mm Outdoor Porcelain signifies more than just a trend; it marks a shift in the way we approach outdoor living. As a canvas for creative expression and a testament to resilience, these tiles have become the cornerstone of contemporary exterior design, setting the stage for a new era of outdoor elegance.



ENDURING ELEGANCE:  
TIMELESS BEAUTY,  
SEASON AFTER SEASON



ANTI-SLIP CTE3/R11  
SOFTER TEXTURE



LOW MAINTENANCE,  
HIGH IMPACT:  
A WINNING COMBINATION

# ADVANTAGES



EASY INSTALLATION



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

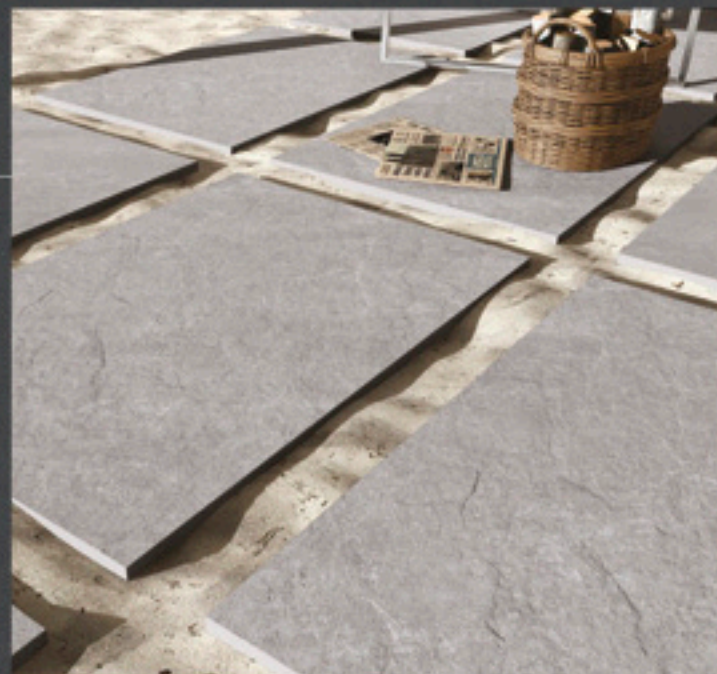
- Dig up and compact the ground
- Place a layer of crushed stone and gravel.
- Place the slab including optional steel mesh.
- Install 20MM using an exterior-rated elastic adhesive.
- Leave a joint of at least 2 mm and foresee the expansion joints.



## 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 compact 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 polymerio 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 50cm 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.




## 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 connectors.
- During the installation, adjust each pedestal to achieve a flat floor.

# 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





Kornak Grey 80x90cm



## COLORS



Kornak Grey 80x90cm



Grey



20MM ■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

Grey 80x90cm



Kornak Grey 80x90cm



Kornak Grey 80x90cm







ICON STONE

# 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



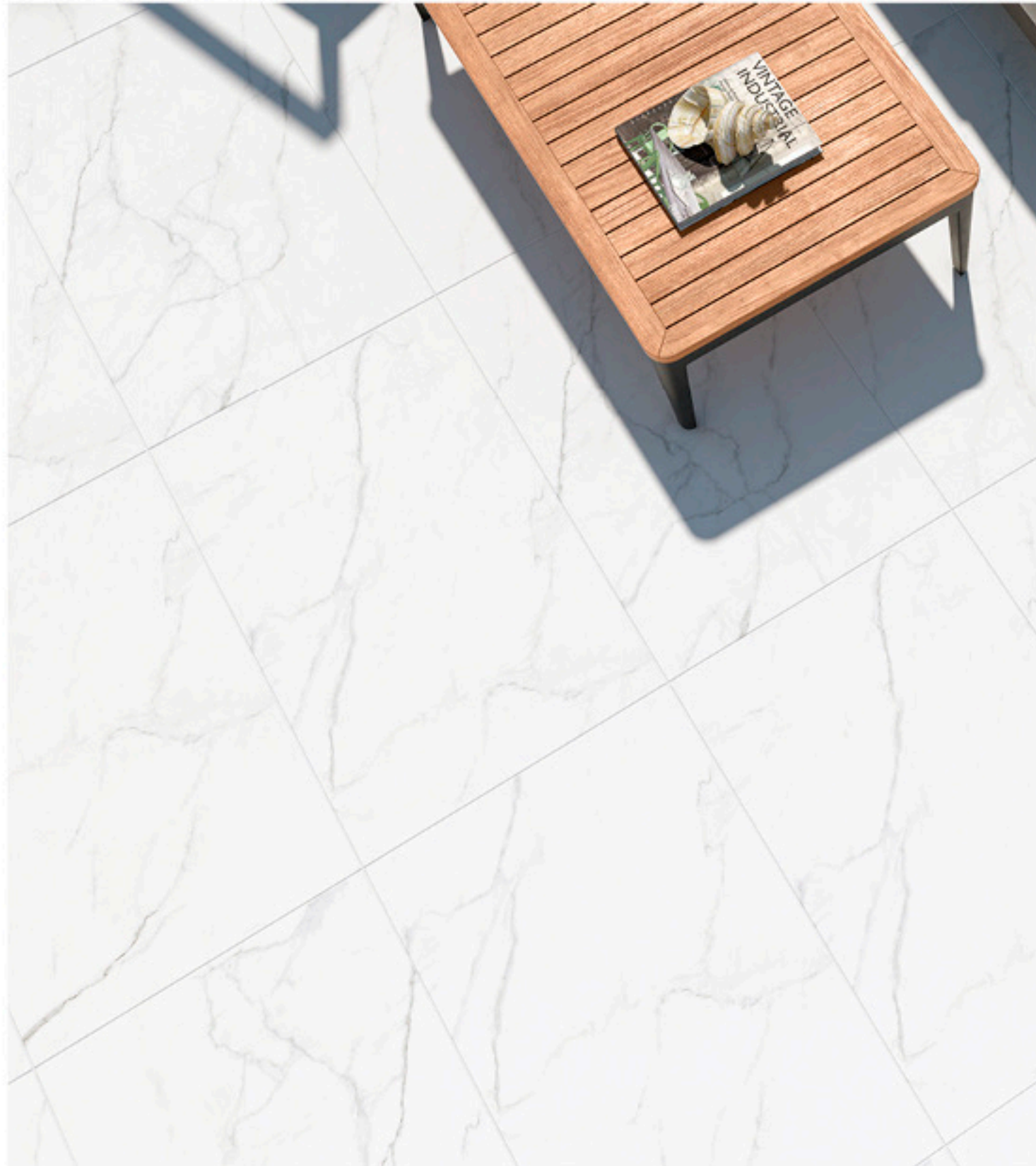
18  
17

simolain | mostonein

# ICON CALCUTTA



Icon Calcutta White 60x90cm



## COLORS

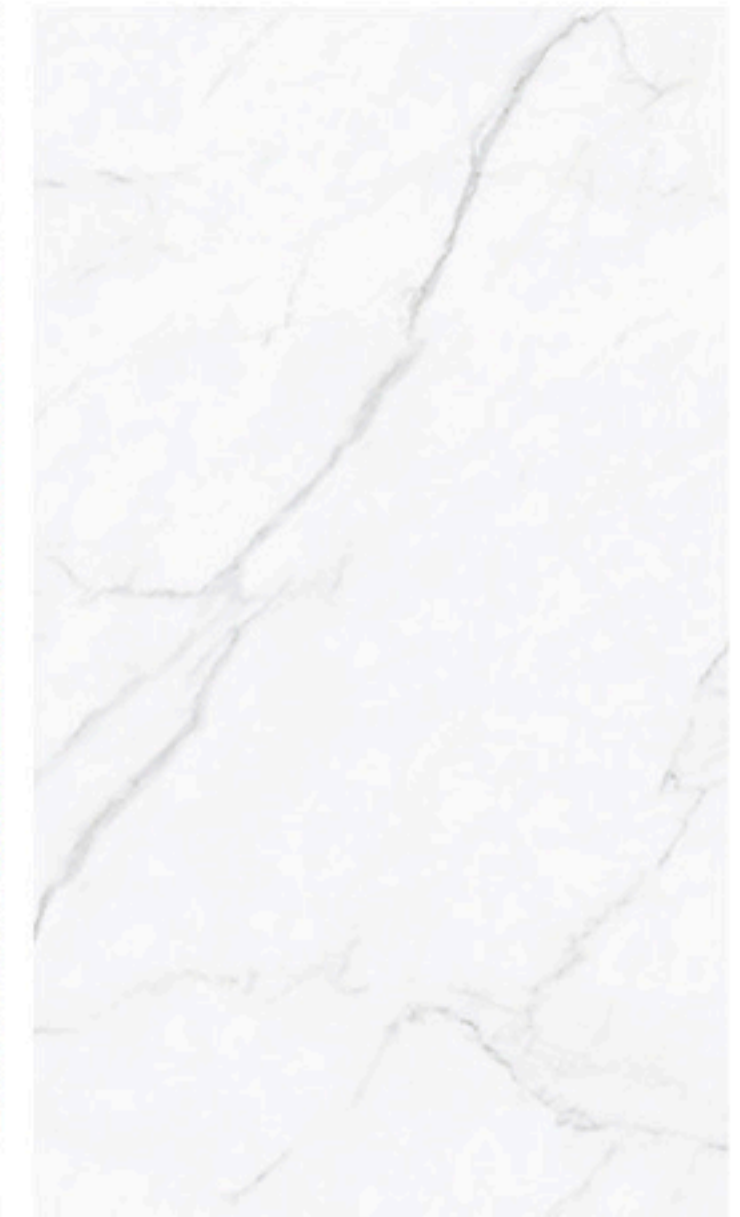


CALCUTTA WHITE

Icon Calcutta White 60x90cm



White

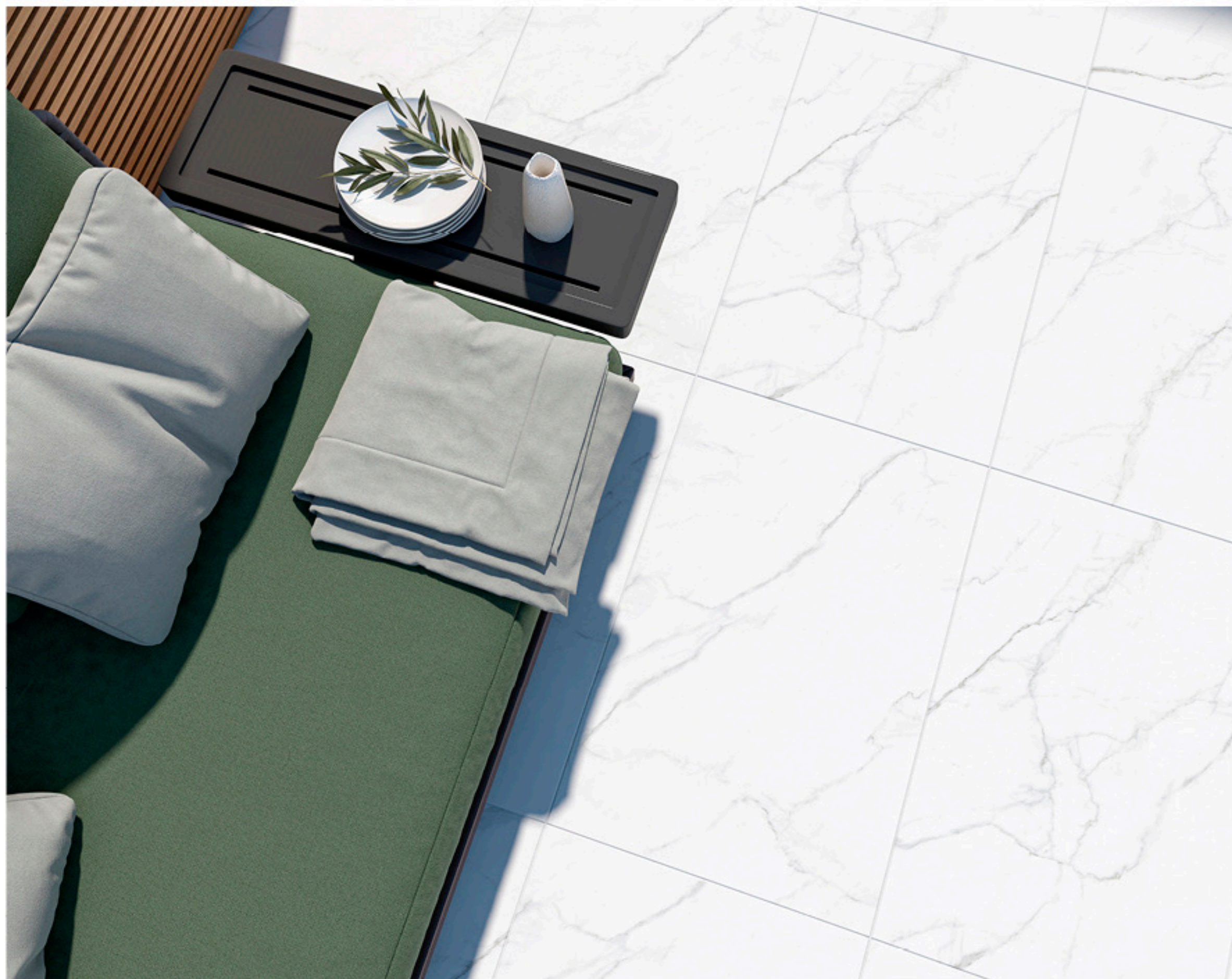


20MM ■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

Icon Calcutta White 60x90cm



Icon Calcutta White 60x90cm



# ICON CARRARA



Icon Carrara 60x90cm



## COLORS



Icon Carrara 60x90cm



Icon Carrara



20MM ■■■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

Icon Carrara 60x90cm



Icon Carrara 60x90cm





ICON STONE

# 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 60x90cm



## FINISHES



Kandala Grey 60x90cm



Kandala Grey



20MM ■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

Grey 60x90cm



Kandala Grey 60x90cm





# RAJ GREEN



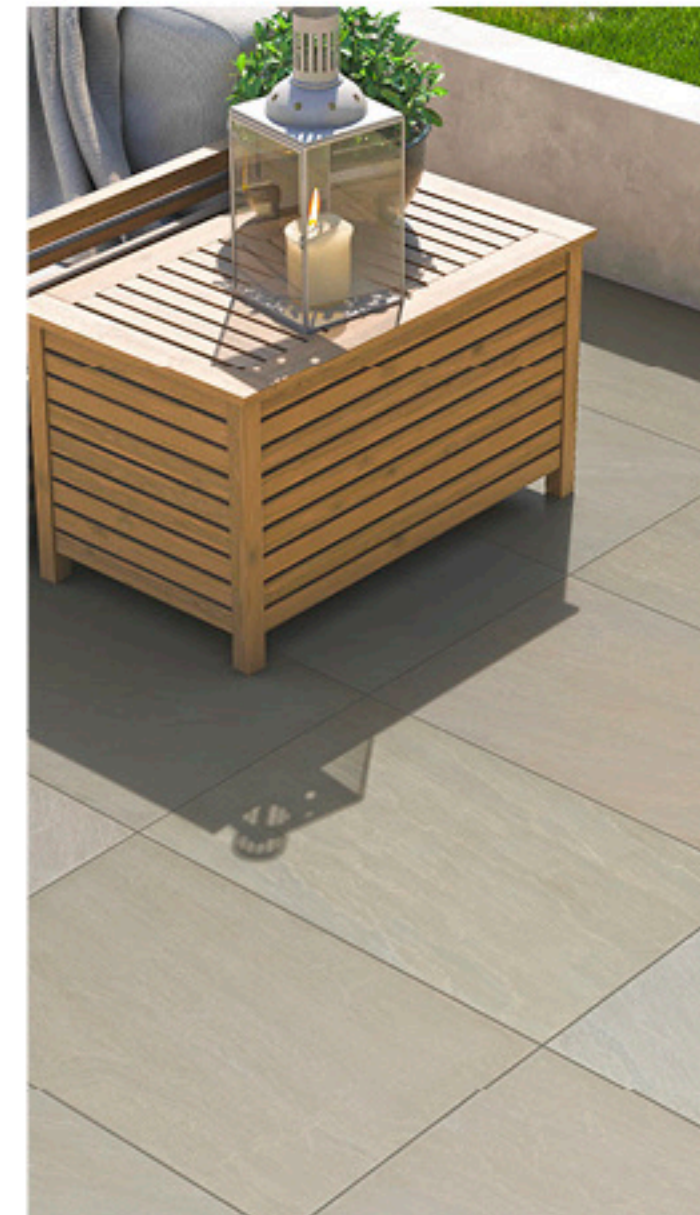
Raj Green 60x90cm



## FINISHES



Raj Green 60x90cm



Raj Green



20MM ■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

Raj Green 60x90cm



Raj Green 60x90cm





Icon Lgy 60x90cm



## COLORS



Icon Anthracite 60x90cm



Anthracite



20MM ■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

Lgy 60x90cm



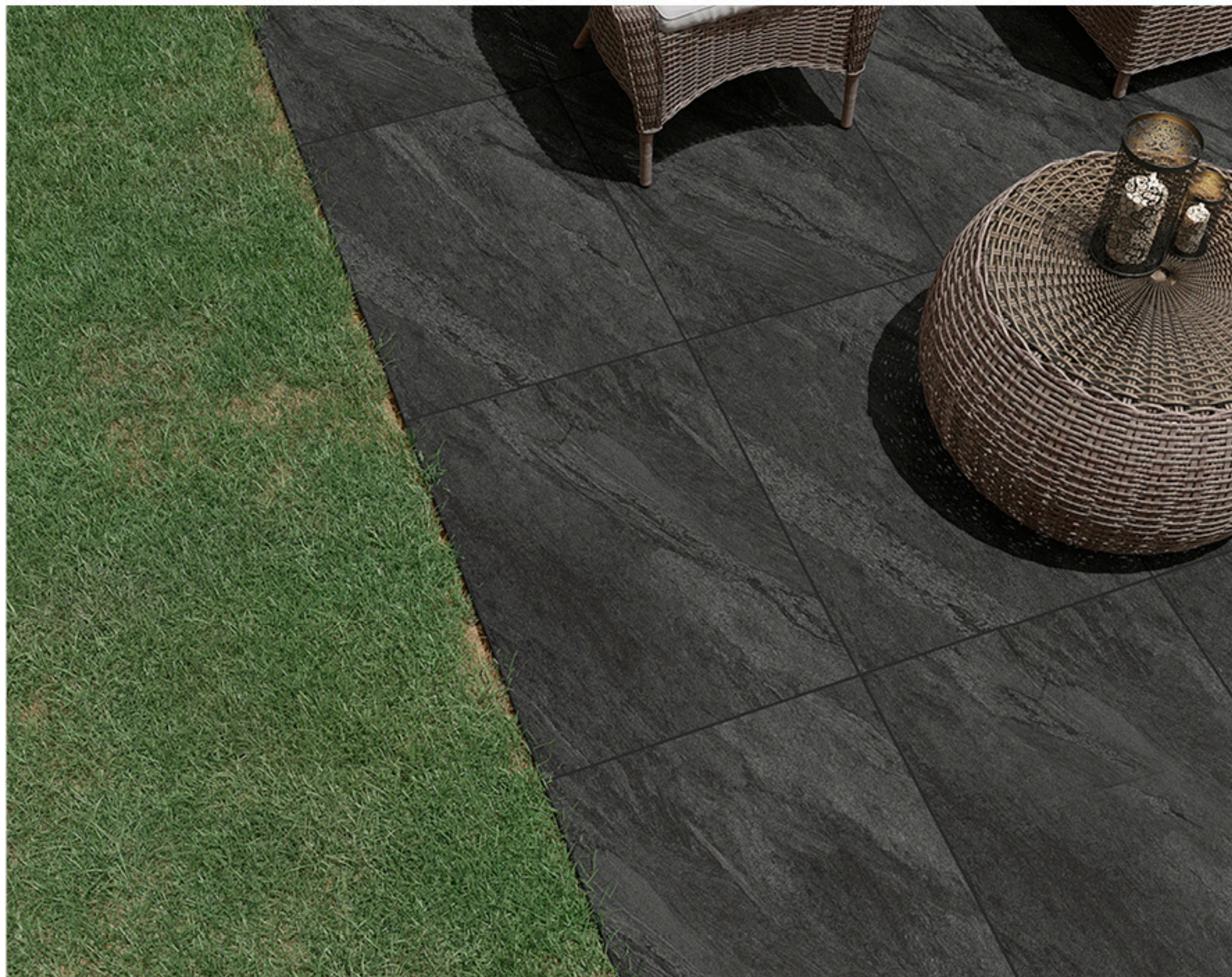
Icon Lgy 60x90cm



Anthracite 60x90cm



Icon Anthracite 60x90cm



Icon Lgy 60x90cm



Icon Anthracite 60x90cm



# SEVEN HILL



Seven Hill Lgy 60x90cm



## COLORS



Seven Hill Dark Grey 60x90cm

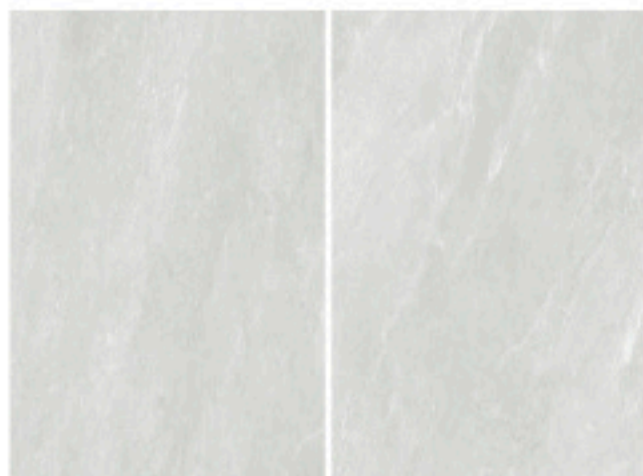


Dark Grey



20MM ■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

Lgy 60x90cm



Dark Grey 60x90cm



Seven Hill Lgy 60x90cm



Seven Hill Dark Grey 60x90cm





Seven Hill Lgy 60x90cm



Seven Hill Dark Grey 60x90cm



# INDIAN SLATE



Indian Slate Black 60x90cm



## COLORS



Indian Slate Grey 60x90cm



Grey



20MM ■■■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

Black 60x90cm



Indian Slate Black 60x90cm



Grey 60x90cm



Indian Slate Grey 60x90cm



Indian Slate Black 60x90cm



Indian Slate Grey 60x90cm



# BRAZILIAN



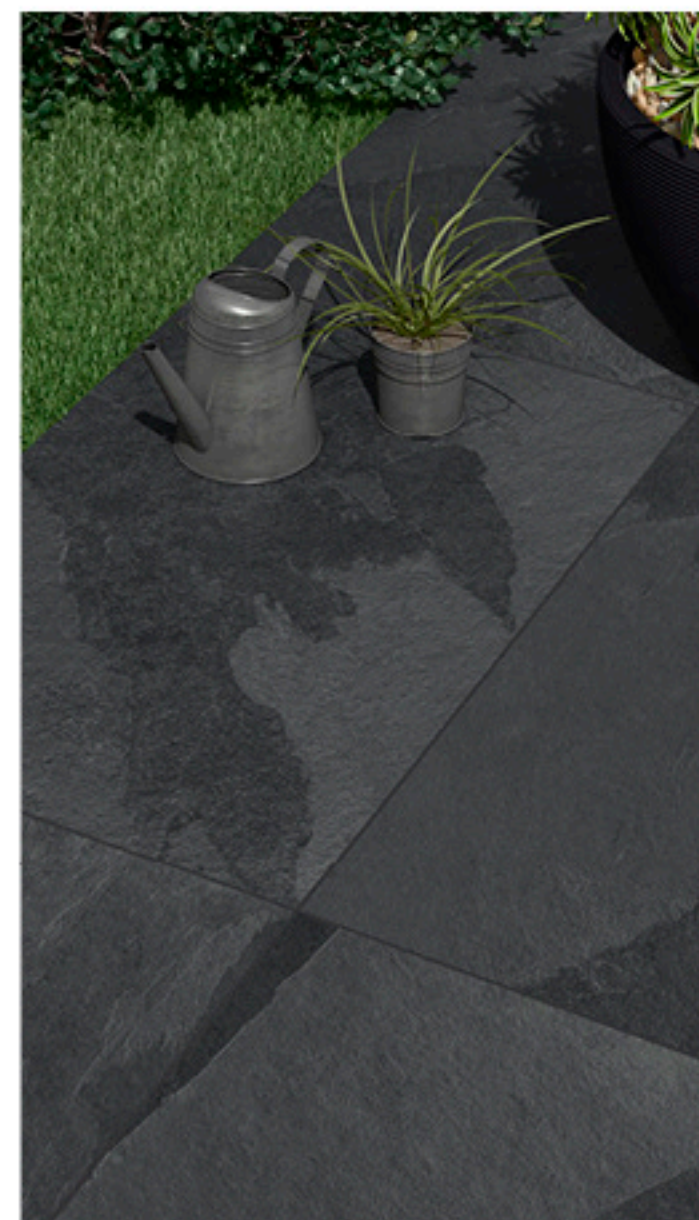
Brazilian Grey 60x90cm



## COLORS



Brazilian Black 60x90cm



Black



20MM ■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

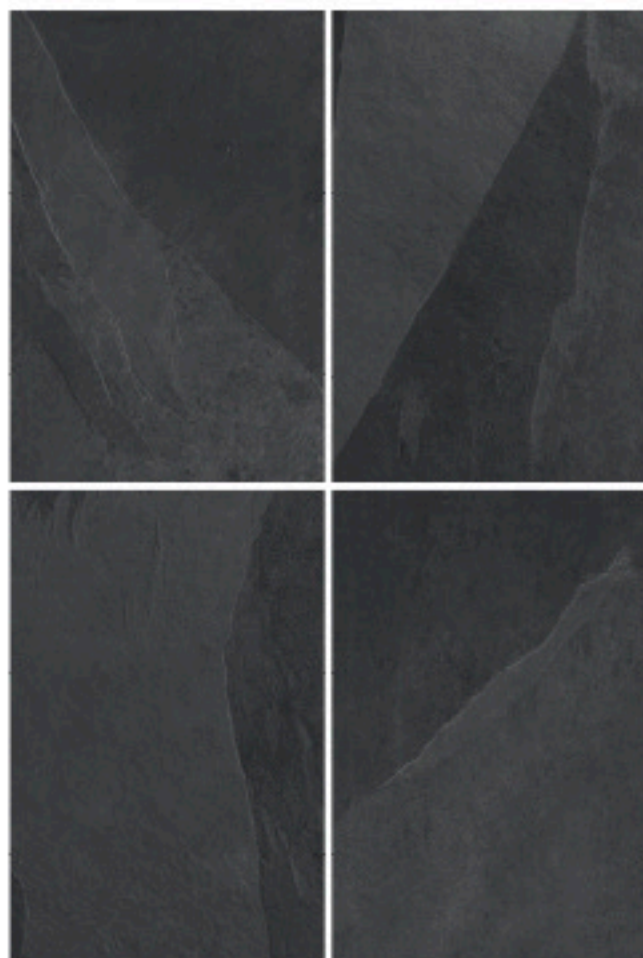
Grey 60x90cm



Brazilian Grey 60x90cm



Black 60x90cm



Brazilian Black 60x90cm





Brazilian Grey 60x90cm



Brazilian Black 60x90cm



# QUARTZ



Quartz Grey 60x90cm



## COLORS



Quartz Grey 60x90cm

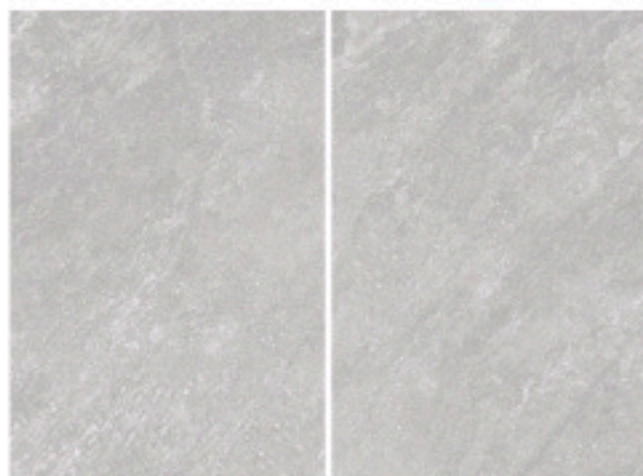


Grey



20MM ■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

Grey 60x90cm



Quartz Grey 60x90cm



Quartz Grey 60x90cm



# JUPITER



Jupiter Beige 60x90cm



## COLORS



Jupiter Gris 60x90cm



Gris



20MM ■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm

Beige 60x90cm



Jupiter Beige 60x90cm



Gris 60x90cm



Jupiter Gris 60x90cm



Jupiter Beige 60x90cm



Jupiter Gris 60x90cm



# JUPITER



Jupiter White 60x90cm



## COLORS



Jupiter Grey 80x90cm



Gris



20MM ■ OUTDOOR PORCELAIN | 600x900mm / 60x90cm | 600x600mm / 60x60cm



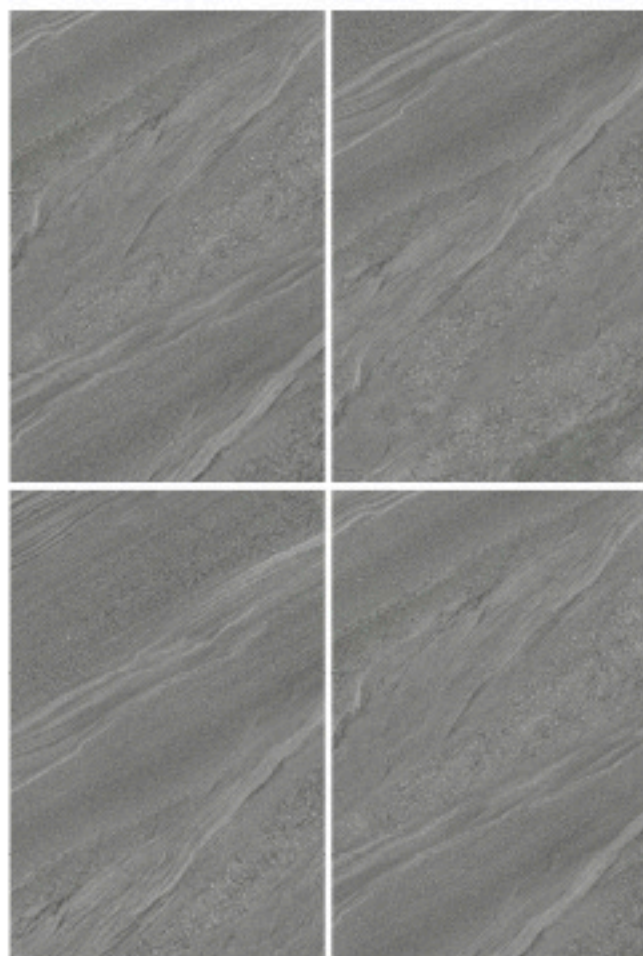
White 60x90cm



Jupiter White 60x90cm



Grey 60x90cm



Jupiter Grey 60x90cm



Jupiter White 60x90cm



Jupiter Grey 60x90cm



# 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 (0.06% ≤ 3%) of IS 15622 : 2006, Further test results were delivered as per requirements of Gr. B Ib
2	Modulus Of Rupture (MOR) N/mm <sup>2</sup> Span Length = 580 mm Average thickness of the tiles measured = 18.81 mm	Average : 38.0 N/MM <sup>2</sup>	(Gr. B Ia) Average 38 N/mm <sup>2</sup> Individual 35 N/mm <sup>2</sup> Minimum	Passed the test
3	Breaking Strength (N) Span Length = 580 mm Average thickness of the tiles measured = 18.81 mm	Average : 8090.0 N	(Gr. B Ia) For thickness > 7.5 mm 1200 N minimum	Passed the test
4	Scratch Hardness Surface (Mohs' scale)	No. 7	(Gr. B Ia) For commercial application 8 minimum, Home application 5 minimum	Passed the test
5	Thermal Shock Resistance	None of the tiles as tested showed any defects on surface at the end of the 10th cycle.	(Gr. B Ia) Tiles specimens should not show any visible defect when subjected to thermal shock resistance test as per test method IS 15622 : 2006 (Part 5) with Immersion	Passed the test
6	Bulk Density (gm/cc)	Average : 2.302	IS 15622 (Part 2) : 2006	
7	Coefficient of Thermal Expansion from ambient Temperature to 100°C	L = 4.4856 (10 <sup>-6</sup> K <sup>-1</sup> ) B = 4.8883 (10 <sup>-6</sup> K <sup>-1</sup> )	-	Passed the test
8	Straightness of Sides (facial sides) The maximum deviation from straightness in percent related to the corresponding work sizes	± 0.05 % (Max) ± 0.08 % (Max)	(Gr. B Ia) S > 410 cm <sup>2</sup> ± 0.1 %	Passed the test
9	Rectangularity The maximum deviation from straightness in percent related to the corresponding work sizes	± 0.10 % (Max) ± 0.10 % (Max)	± 0.1 %	Passed the test
10	Surface Flatness The maximum deviation from flatness in percent (a) Centre of curvature related to diagonal calculated from work size. (b) Edge of curvature related to the corresponding work size (c) Warpage related to the diagonal calculated from the Work Size	± 0.17 % (Max)	± 0.2 %	Passed the test
		+ 0.10 % (Max) ± 0.14 % (Max)	± 0.2 %	Passed the test
		± 0.08 % (Max) ± 0.08 % (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. (b) Edge of curvature related to the corresponding work size (c) Warpage related to the diagonal calculated from the Work Size	± 0.17 % (Max)	± 0.2 %	Passed the test
	Five test specimens were treated with following solns. <b>1. Household Chemicals</b> a) Ammonium Chloride soln. (100 gm/l) b) Standard cleaning Agent soln. (as per procedure)	No visual changes observed after immersion for 8 hrs., pencil lines removed with soft dry cloth.	* Class - AA * min.	Conformed to "Class-AA"
	<b>2. Swimming pool salts</b> a) Sodium Hypochlorite Soln. (20 mg / l) b) Copper Sulphate Soln. (20 mg / l)	No visual changes observed after immersion for 8 hrs., pencil lines removed with soft dry cloth.	* Class - AA * min.	Conformed to "Class-AA"
	<b>3. Acids</b> a) Hydrochloric acid Soln. 3 % (v/v) b) Citric acid Soln. (200 mg / l)	No visual changes observed after immersion for 8 hrs., pencil lines removed with soft dry cloth.	* Class - AA * min.	Conformed to "Class-AA"
	<b>4. Alkali</b> Potassium hydroxide soln. (200 mg / l)	No visual changes observed after immersion for 8 hrs., pencil lines removed with soft dry cloth.	* Class - AA * min.	Conformed to "Class-AA"





Sr. No.	TEST CONDUCTED	TEST RESULT	REMARK
12	Skid Resistance / Surface Slip Resistance  (a) Condi Tile Surface was cleaned thoroughly by wet cloth followed by dry cloth and ensured that the surface is completely clean and dry 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) 0.78  5) 0.78 6) 0.75 7) 0.78 8) 0.78	As per ISO 10545 Part - 17
13	Moisture expansion In/mm / mtr.)	0.00	Passed the test
14	Skid Resistance/ Surface Slip Resistance BS EN Standard specification EN14411 :2018 ( Group B Ia)	R-11	R-11

## PACKING DETAILS (OUTDOOR)

SIZE	WEIGHT / BOX (KG)	PCS / BOX	BOXES / PALLATE	PALLATE / OTN	BOXES / CTN	MT2 / BOX	MT2 / PALLATE	MT2 / OTN	WEIGHT / OTN (KG)
600x900mm (20mm)	23.75	1	42	27	1134	0.54	22.88	612.38	27750
600x600mm (20mm)	32	2	32	28	832	0.72	23.04	588.04	27404
600x1200mm (20mm)	31.5	1	30	28	870	0.72	21.8	628.4	27950
900x1200mm (20mm)	31.5	2	28	30	840	0.72	20.18	604.8	27500
600x800mm (20mm)	28.5	1	30	31	890	0.64	19.2	595.2	27800

## PACKING DETAILS (PATIOPACK)

SIZE	PCS/ CRAT	MT2/ PCS	MT2/ CRAT (EACH SIZE)	IN KGS / CRAT	CRAT / CTN	MT2/ CTN	WEIGHT / OTN (Kg)
600x900mm(20mm)	18	0.54	9.72	423.00	28	610.74	27282
600x600mm (20mm)	18	0.38	6.48	270.00			
600x288mm (20mm)	18	0.18	3.24	148.50			
288x288mm (20mm)	18	0.09	1.62	78.50			

BOX DESIGN	STANDARD SAFEDA PALLATE
 <p>Outdoor porcelain 600x800mm</p>	 <p>1183.60x748.30mm</p>
 <p>Outdoor porcelain 600x900mm</p>	 <p>1003.30x748.30mm</p>



Unit 2, Central business park,  
Medway city estate,  
Rochester, ME2 4LW  
iconstonepaving@gmail.com | Tel: 01634470948 | [www.iconstone.co.uk](http://www.iconstone.co.uk)

