

Porcelaingres. Royal Stone.



Technical Data

Royal Stone | Summary



Collection: Royal Stone | Color: Platinum White – Fishbone

Colors



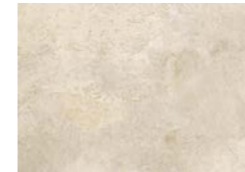
Black
Diamond



Imperial
Brown



Palladium
Grey



Noble
Beige



Platinum
White

Technical features

Natural Plus | R10 A+B | ≥ 6 mm



- 150 × 75
- 100 × 100
- 75 × 75

Natural Plus | R10 A+B | ≥ 8 mm



- 120 × 60
- 60 × 60
- 60 × 30
- 60 × 10 Fishbone

Antislip | R11 A+B+C | $\geq 6/8$ mm

- 120 × 60
- 100 × 100 (≥ 6 mm)
- 60 × 60
- 60 × 30

Antislip | R11 A+B+C | ≥ 20 mm



- 120 × 60
- 100 × 100
- 60 × 60

Specials

- Mosaic
- Bullnose
- Step



40% Raw material from recycling process products assessed and found to comply with the LEED and BREEAM regulations.




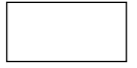
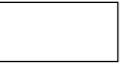




















[click here for](#)

Inspiration

Visit the collection webpage in other languages.

Royal Stone

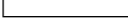


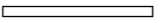












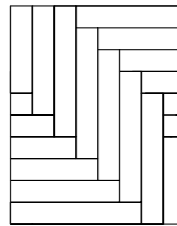








Product details

														Slabs Variability Index	
Format (cm)	150×75	120×60	120×60	100×100	100×100			75 × 75	60 × 60	60 × 60		60 × 30			
Thickness (mm)	±6 mm	±20 mm	±8 mm	±20 mm	±6 mm			±6 mm	±20 mm	±8 mm		±8 mm			
Finishing	Natural Plus	Antislip	Natural Plus	Antislip	Antislip	Natural Plus	Antislip		Natural Plus	Antislip	Natural Plus	Antislip	Natural Plus	Antislip	The shade variation index is a rating to determine tile variation between individual pieces of the same color group.
Skid Resistance	R10 A+B	R11 A+B+C	R10 A+B	R11 A+B+C	R11 A+B+C	R10 A+B	R11 A+B+C		R10 A+B	R11 A+B+C	R10 A+B	R11 A+B+C	R10 A+B	R11 A+B+C	
Description	-	-	-	-	-	-	-		-	-	-	-	-	-	
Black Diamond	X1575380VX6	X126380X2	X126380X8	X126380R11X8	X1010380X2	X1010380X6	X1010380R11X6		X7575380VX6	X600380X2	X600380X8	X600380R11X8	X630380X8	X630380R11X8	 V3 different tone
Imperial Brown	X1575381VX6	X126381X2	X126381X8	X126381R11X8	X1010381X2	X1010381X6	X1010381R11X6		X7575381VX6	X600381X2	X600381X8	X600381R11X8	X630381X8	X630381R11X8	 V3 different tone
Palladium Grey	X1575382VX6	X126382X2	X126382X8	X126382R11X8	X1010382X2	X1010382X6	X1010382R11X6		X7575382VX6	X600382X2	X600382X8	X600382R11X8	X630382X8	X630382R11X8	 V3 different tone
Noble Beige	X1575383VX6	X126383X2	X126383X8	X126383R11X8	X1010383X2	X1010383X6	X1010383R11X6		X7575383VX6	X600383X2	X600383X8	X600383R11X8	X630383X8	X630383R11X8	 V3 different tone
Platinum White	X1575384VX6	X126384X2	X126384X8	X126384R11X8	X1010384X2	X1010384X6	X1010384R11X6		X7575384VX6	X600384X2	X600384X8	X600384R11X8	X630384X8	X630384R11X8	 V3 different tone
Features	 GRIP+	 CLEAN+	 GRIP+		 CLEAN+	 GRIP+			 GRIP+	 CLEAN+	 GRIP+		 GRIP+		
															Note
pieces - box	2	1	2		1	2			3	2	4		8		
boxes - pallet	30	32	36		24	26			40	30	32		40		
sqm - box	2,25	0,72	1,44		1	2			1,688	0,72	1,44		1,44		
sqm - pallet	67,5	23,04	51,84		24	52			67,52	21,6	46,08		57,6		
kg - sqm	13,7067	45,0226	17,79		45,50	14,06			13,7915	45,2407	17,41		17,33		
kg - box	30,84	32,416	25,618		45,50	28,12			23,273	32,573	25,07		24,955		

Royal Stone

Product details

Technical product features at page 212 - 213

													Slabs Variability Index	
Format (cm)	60×10	30×30	30×30	100×6,5	75×6,5	60×7		150×37,5	120×30	100×30	75×37,5	60×30	The shade variation index is a rating to determine tile variation between individual pieces of the same color group.	
Thickness (mm)	±8 mm	±8 mm	±8 mm	±6 mm	±6 mm	±8 mm		±6 mm	±8 mm	±6 mm	±6 mm	±8 mm		
Finishing	Natural Plus	Natural Plus	Natural Plus	Natural Plus	Natural Plus	Natural Plus		Natural Plus	Natural Plus	Natural Plus	Natural Plus	Natural Plus		
Skid Resistance	R10 A+B	R10 A+B	R10 A+B	-	-	-		R10 A+B	R10 A+B	R10 A+B	R10 A+B	R10 A+B		
Description	Fishbone	Mosaic 31×31	Mosaic 4,7×4,7	Bullnose	Bullnose	Bullnose		Step with grooves	Step with grooves	Step with grooves	Step with grooves	Step with grooves		
Black Diamond	X160380X8	X373380X8	X370380X8	X1065380X6	X765380VX6	X670380X8		X3715380VX6	X3213380X8	X3100380X6	X3775380VX6	X360380X8	 V3 different tone	
Imperial Brown	X160381X8	X373381X8	X370381X8	X1065381X6	X765381VX6	X670381X8		X3715381VX6	X3213381X8	X3100381X6	X3775381VX6	X360381X8	 V3 different tone	
Palladium Grey	X160382X8	X373382X8	X370382X8	X1065382X6	X765382VX6	X670382X8		X3715382VX6	X3213382X8	X3100382X6	X3775382VX6	X360382X8	 V3 different tone	
Noble Beige	X160383X8	X373383X8	X370383X8	X1065383X6	X765383VX6	X670383X8		X3715383VX6	X3213383X8	X3100383X6	X3775383VX6	X360383X8	 V3 different tone	
Platinum White	X160384X8	X373384X8	X370384X8	X1065384X6	X765384VX6	X670384X8		X3715384VX6	X3213384X8	X3100384X6	X3775384VX6	X360384X8	 V3 different tone	
	 <p>Fishbone configuration</p>													
Features	 GRIP+	 GRIP+	 GRIP+					 GRIP+	 GRIP+	 GRIP+	 GRIP+	 GRIP+		
													Note	
pieces - box	15	11		12	15	10		2	4	5	3	6	*Production upon request	
boxes - pallet	60	-		-	-	-		-	-	-	-	-		
sqm - box	0,9	0,99		0,78	0,731	0,42		1,125	1,44	1,5	0,844	1,08		
sqm - pallet	54	-		-	-	-		-	-	-	-	-		
kg - sqm	17,33	1,57		0,92	0,69	0,78		7,91	6,4	4,2	3,96	3,12		
kg - box	15,597	17,27		11,04	10,35	7,8		15,82	25,6	21	11,88	18,72		

Technical product features

Declared values of production

Compliance with standards

The surfaces complies with the European standards EN 14411 (group B1a) and international standards ISO 13006 Annex G.

- ISO 10545-2 (Determination of dimensions and surface quality)
- ISO 10545-3 (Determination of water absorption)
- ISO 10545-4 (Determination of modulus of rupture and breaking strength)
- ISO 10545-6 (Determination of resistance to deep abrasion for unglazed tiles)
- ISO 10545-8 (Determination of linear thermal expansion)
- ISO 10545-9 (Determination of resistance to thermal shock)
- ISO 10545-12 (Determination of frost resistance)
- ISO 10545-13 (Determination of chemical resistance)
- ISO 10545-14 (Determination of resistance to stains)

And it must also guarantee conformity with:

- DIN 51094 (lightfastness of the colours)
- DIN EN 16165 - Annex B (to measure the surfaces suitability for laying in areas where people walk footwear. Defining the “R-value” of the surfaces according to the table below):

$\alpha < 6^\circ$ = not classified

$6^\circ \leq \alpha \leq 10^\circ$ = R9

$10^\circ < \alpha \leq 19^\circ$ = R10

$19^\circ < \alpha \leq 27^\circ$ = R11

$27^\circ < \alpha \leq 35^\circ$ = R12

$\alpha > 35^\circ$ = R13

- DIN EN 16165 - Annex A (to measure the surfaces suitability for laying in areas where people walk barefoot. Given an “A, B and C” value according to the table below):

$\alpha < 12^\circ$ = not classified












$12^\circ \leq \alpha < 18^\circ$ = A

$18^\circ \leq \alpha < 24^\circ$ = B (A+B)

$\alpha \geq 24^\circ$ = C (A+B+C)

Compliance with these characteristics is checked in accordance with the certified quality management system of the UNI-EN ISO 9001 standard in addition to being guaranteed by the manufacturer.

Porcelaingres surfaces are made with low environmental impact in accordance with LEED_ BREEAM guidelines by using both new strategies for the continuous improvement of environmental friendliness and the aim of reducing wasting of non-renewable resources, in addition to using natural raw materials commonly found in the environment and recycled materials.

Features	Norms	▲ Required standard	Declared values
 water absorption	ISO 10545-3	$\leq 0,5\%$	$< 0,05\%$
 sizes	ISO 10545-2	length and width $\pm 0,6\%$ max thickness $\pm 5,0\%$ max linearity $\pm 0,5\%$ max wedging $\pm 0,6\%$ max warpage $\pm 0,5\%$ max	$\pm 0,2\%$ max $\pm 5,0\%$ max $\pm 0,2\%$ max $\pm 0,2\%$ max $\pm 0,2\%$ max
 bending strength	ISO 10545-4	$\geq 35 \text{ N/mm}^2$	$> 48 \text{ N/mm}^2$ For 20mm slabs: $> 42 \text{ N/mm}^2$
 resistance to deep abrasion	ISO 10545-6	$\leq 175 \text{ N/mm}^3$	$\leq 140 \text{ mm}^3$
 thermal expansion coefficient	ISO 10545-8	testing method available	7 MK^{-1}
 thermal shock resistance	ISO 10545-9	testing method available	resistant
 frost resistance	ISO 10545-12	no sample must show alterations to surface	frost resistance
 chemical resistance	ISO 10545-13	no sample must show visible signs of chemical attack (acids-bases-additives for pools) except for products containing hydrofluoric acid and derivatives.	unaffected
 stain resistance	ISO 10545-14	unglazed tiles: testing method available	class 5
 colour resistance to light	DIN 51094	no sample must show noticeable colour change	no change in brightness or colour
 skid resistance average coefficient of friction (μ)	DIN EN 16165 Annex B		R10 R11
	DIN EN 16165 Annex A		A+B A+B+C

Certifications

Sensitivity towards ethyca, environmental, safety and quality concerns

Product Certifications:



LEED certification: is a global system used in 40+ countries to check if buildings are environmentally friendly. The LEED (Leadership in Energy and Environmental Design) It evaluates how well a building is sustainable in terms of the environment, society, and economy. The slabs in this tool have over 40% recycled material, following the ISO 14021 standard, ensuring the highest LEED points.

BREEAM certification is a widely used global standard that measures how buildings impact the environment. It has strictw rules and checks based on the latest technology and knowledge. The rating system demands certifications based on strict technical parameters and quality control.

You can find the updated list of certified collections at www.porcelaingres.com/downloads/.



UPEC classification associated with the QB certification mark attests to the compliance of floor and wall coverings with the technical requirements set out in certification reference documents. It assigns classifications of use indicating that the durability of a product is appropriate for use on specific types of premises.

The list of the certified products is available at <http://evaluation.cstb.fr/>



CE MARK - It indicates that Porcelaingres products comply with the requirements of 305/2011 UE directive – in particular with regard to health production and the users and consumers' safety – and may thus be freely circulated on the Community market. **For the declarations of conformity of each single product, please refer to:** www.porcelaingres.com/downloads/.



放射性水平A类
See official listing

The **China Compulsory Certificate** mark, commonly known as a **CCC Mark**, is a compulsory safety mark for our Great Format products imported, sold or used in the Chinese market.

The certification is available at www.porcelaingres.com/downloads/.



EPD (Environmental Product Declaration): a voluntary type III product declaration, based on analysis of the product life cycle (with a "from cradle to grave" approach) in accordance with the EN 15804 standard. This declaration is drawn up with reference to the guidelines of the UNI EN ISO 14040 standard and the specific PCR (Product Category Rules). This document describes the environmental impact linked to the entire life cycle of a specific quantity of product. Our Company was the first to certify its products (see www.environdec.com) with specific EPD, validated by an independent third-party Body.

The certification is available at www.porcelaingres.com/downloads/.



GREENGUARD certification ensures indoor products have minimal emissions of volatile substances for healthier environments. GREENGUARD Gold Certification considers safety for sensitive individuals and approves products for use in places like schools and healthcare facilities. Widely recognized globally in sustainable building programs, it is referenced by The Collaborative for High Performance Schools (CHPS) and Leadership in Energy and Environmental Design (LEED) in the United States.

Certified collections can be found at <https://spot.ul.com/>.

Integrated Management System Certifications:



ISO 9001 certification: for corporate Quality system management. The certification, valid at an international level, concerns corporate management in its entirety, from research and development to production, and from distribution to customer support. This system certifies that the Company has implemented an internal quality management system.

The certification is available at www.porcelaingres.com/downloads/.



ISO 50001 certification: for organizations committed to addressing their impact, conserving resources and improving the bottom line through efficient energy management. The standard specifies the requirements for establishing, implementing, maintaining and improving an energy management system, whose purpose is to enable an organization to follow a systematic approach in achieving continual improvement of energy performance, including energy efficiency, energy security, energy use and consumption.

The certification is available at www.porcelaingres.com/downloads/.

Environmental Information and Labels:



Declare label: a badge for construction materials, essentially functioning as a voluntary self-disclosure program. This initiative furnishes details about the material's composition, final assembly locations, lifespan, end-of-life options, and overall adherence to pertinent Living Building Challenge® (LBC) requirements.

Accessible through a complimentary database, Declare® labels prove to be an essential tool for designers and architects, empowering them to specify products aligning with the criteria of key green building standards, including Core Green Building certifications, LBC, LEED, and WELL.

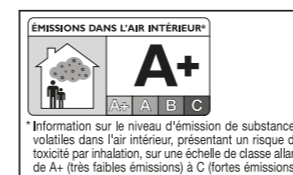
All our materials hold the classification of being "Red List Free," affirming their absence of chemicals listed in the Living Building Challenge's "Red List."

More info available at <https://declare.living-future.org/products/ceramic-slabs>.



ISO 14067 certification: is an international standard that outlines the principles and guidelines for measuring and communicating the carbon footprint of products. This certification focuses on assessing and managing the carbon emissions associated with all stages of a product's life cycle, from raw material extraction through production, distribution, use, and disposal.

The certification is available at www.porcelaingres.com/downloads/.



* Information sur le niveau d'émission de substances volatiles dans l'air intérieur, présentant un risque de toxicité par inhalation, sur une échelle de classe allant de A+ (très faibles émissions) à C (fortes émissions).



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