

Porcelaingres.

Estro.



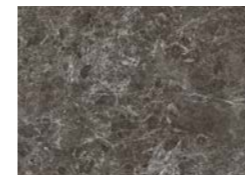
Technical Data

Estro | Summary



Collection: Estro | Color: Estro Cream

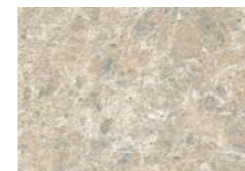
Colors



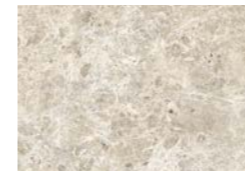
Estro Anthracite



Estro Grey



Estro Beige



Estro Cream



Estro Brown

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



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.


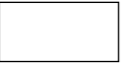
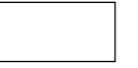





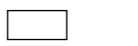

























[click here for Inspiration](#)

Visit the collection webpage in other languages.

Estro

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)	±6mm	±20mm	±8mm	±20mm	±6mm		±6mm	±20mm	±8mm	±8mm	
Finishing	Natural Plus	Antislip	Natural Plus	Antislip	Natural Plus		Natural Plus	Antislip	Natural Plus	Natural Plus	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	R10 A+B		R10 A+B	R11 A+B+C	R10 A+B	R10 A+B	
Description	-	-	-	-	-		-	-	-	-	
Estro Anthracite	X1575470VX6	X126470X2	X126470X8	X1010470X2	X1010470X6		X7575470VX6	X600470X2	X600470X8	X630470X8	 V3 different tone
Estro Grey	X1575471VX6	X126471X2	X126471X8	X1010471X2	X1010471X6		X7575471VX6	X600471X2	X600471X8	X630471X8	 V3 different tone
Estro Beige	X1575472VX6	X126472X2	X126472X8	X1010472X2	X1010472X6		X7575472VX6	X600472X2	X600472X8	X630472X8	 V3 different tone
Estro Cream	X1575473VX6	X126473X2	X126473X8	X1010473X2	X1010473X6		X7575473VX6	X600473X2	X600473X8	X630473X8	 V3 different tone
Estro Brown	X1575474VX6	X126474X2	X126474X8	X1010474X2	X1010474X6		X7575474VX6	X600474X2	X600474X8	X630474X8	 V3 different tone
Features	 GRIP+  LOOK+	 CLEAN+  LOOK+	 GRIP+  LOOK+	 CLEAN+  LOOK+	 GRIP+  LOOK+		 GRIP+  LOOK+	 CLEAN+  LOOK+	 GRIP+  LOOK+	 GRIP+  LOOK+	
											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	

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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