

# Porcelaingres. Cosmo.



Technical Data

## Cosmo | Summary

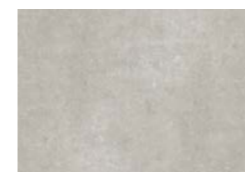


Collection: Cosmo | Color: Cosmo Anthracite

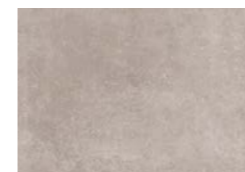
## Colors



Cosmo  
Beige



Cosmo  
Grey



Cosmo  
Brown



Cosmo  
Anthracite

## Technical features

**Natural | R10 A+B |  $\leq 6$  mm**



- 100×100

**Natural | R10 A+B |  $\leq 8$  mm**



- 120×60
- 60×60
- 60×30

**Structured | R11 A+B+C |  $\leq 20$  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.



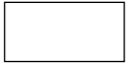
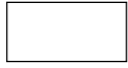
















[click here for](#)

### Inspiration

Visit the collection webpage in other languages.


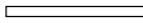












# Cosmo

Product details

										<b>Slabs Variability Index</b>
<b>Format (cm)</b>	120 × 60	120 × 60	100 × 100	100 × 100		60 × 60	60 × 60	60 × 30		
<b>Thickness (mm)</b>	±20 mm	±8 mm	±20 mm	±6 mm		±20 mm	±8 mm	±8 mm		
<b>Finishing</b>	Structured	Natural	Structured	Natural		Structured	Natural	Natural		The shade variation index is a rating to determine tile variation between individual pieces of the same color group.
<b>Skid Resistance</b>	R11 A+B+C	R10 A+B	R11 A+B+C	R10 A+B		R11 A+B+C	R10 A+B	R10 A+B		
<b>Description</b>	-	-	-	-		-	-	-		
<b>Cosmo Beige</b>	X126450X2	X126450X8	X1010450X2	X1010450X6		X600450X2	X600450X8	X630450X8		 <b>V2</b> slightly different tone
<b>Cosmo Grey</b>	X126451X2	X126451X8	X1010451X2	X1010451X6		X600451X2	X600451X8	X630451X8		 <b>V2</b> slightly different tone
<b>Cosmo Brown</b>	X126452X2	X126452X8	X1010452X2	X1010452X6		X600452X2	X600452X8	X630452X8		 <b>V2</b> slightly different tone
<b>Cosmo Anthracite</b>	X126453X2	X126453X8	X1010453X2	X1010453X6		X600453X2	X600453X8	X630453X8		 <b>V2</b> slightly different tone
<b>Features</b>	 <b>CLEAN+</b>	 <b>GRIP+</b>	 <b>CLEAN+</b>	 <b>GRIP+</b>		 <b>CLEAN+</b>	 <b>GRIP+</b>	 <b>GRIP+</b>		
										<b>Note</b>
<b>pieces - box</b>	1	2	1	2		2	4	8		
<b>boxes - pallet</b>	32	36	24	26		30	32	40		
<b>sqm - box</b>	0,72	1,44	1	2		0,72	1,44	1,44		
<b>sqm - pallet</b>	23,04	51,84	24	52		21,6	46,08	57,6		
<b>kg - sqm</b>	45,0226	17,79	45,50	14,06		45,2407	17,41	17,33		
<b>kg - box</b>	32,416	25,618	45,50	28,12		32,573	25,07	24,955		

# Cosmo

Product details

										<b>Slabs Variability Index</b>
<b>Format (cm)</b>	30 × 30	100 × 6,5	60 × 7	120 × 30	100 × 30	60 × 30				The shade variation index is a rating to determine tile variation between individual pieces of the same color group.
<b>Thickness (mm)</b>	±8 mm	±6 mm	±8 mm	±8 mm	±6 mm	±8 mm				
<b>Finishing</b>	Natural	Natural	Natural	Natural	Natural	Natural				
<b>Skid Resistance</b>	R10 A+B	-	-	R10 A+B	R10 A+B	R10 A+B				
<b>Description</b>	Mosaic 4,7 × 4,7	Bullnose	Bullnose	Step with grooves	Step with grooves	Step with grooves				
<b>Cosmo Beige</b>	X370450X8	X1065450X6	X670450X8	X3213450X8	X3100450X6	X360450X8				 <b>V2</b> slightly different tone
<b>Cosmo Grey</b>	X370451X8	X1065451X6	X670451X8	X3213451X8	X3100451X6	X360451X8				 <b>V2</b> slightly different tone
<b>Cosmo Brown</b>	X370452X8	X1065452X6	X670452X8	X3213452X8	X3100452X6	X360452X8				 <b>V2</b> slightly different tone
<b>Cosmo Anthracite</b>	X370453X8	X1065453X6	X670453X8	X3213453X8	X3100453X6	X360453X8				 <b>V2</b> slightly different tone
<b>Features</b>	 <b>GRIP+</b>			 <b>GRIP+</b>	 <b>GRIP+</b>	 <b>GRIP+</b>				
										<b>Note</b>
<b>pieces - box</b>	11	12	10	4	5	6				*Production upon request
<b>boxes - pallet</b>	-	-	-	-	-	-				
<b>sqm - box</b>	0,99	0,78	0,42	1,44	1,5	1,08				
<b>sqm - pallet</b>	-	-	-	-	-	-				
<b>kg - sqm</b>	1,57	0,92	0,78	6,4	4,2	3,12				
<b>kg - box</b>	17,27	11,04	7,8	25,6	21	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	$7 \text{ MK}^{-1}$
 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 ( $\mu$ )	DIN EN 16165 Annex B		R10 – natural R11 – structured
	DIN EN 16165 Annex A		A+B A+B+C

# Certifications

Sensitivity towards ethycal, 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/](http://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/](http://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/](http://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](http://www.environdec.com)) with specific EPD, validated by an independent third-party Body.

The certification is available at [www.porcelaingres.com/downloads/](http://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/](http://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/](http://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.

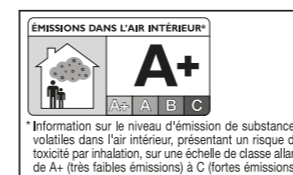
All our materials hold the classification of being "Red List Free," affirming their absence of chemicals listed in the Living Building Challenge's "Red List."

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/](http://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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