Technical Data

Dune | Summary



Collection: Dune | Color: Lime - Wave Decor

Inspiration | click here

in other languages.

Colors



Lime





Pearl*



Shadow*



Nebula

Wave Decor All colors Seashell



Amber*



Antislip | R11 A+B+C | ₹8 mm • 60×60



• 100×100 • 60×60

Technical features

Natural Plus | R10 A+B | ₹ 6 mm

Natural Plus | R10 A+B | ₹8 mm

Antislip | R11 A+B+C | ₹20 mm*

• 150×75 • 100×100 • 75×75

• 120×60 • 60×60 • 60×30

Structured | ₹8 mm • 120×60 Wave Decor • 60×30 Wave Decor

Specials

• 120×60

- Mosaic
- Bullnose
- Step



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

Visit the collection webpage

2

Dune

Product details - Part 1 of 2

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												Slabs Variability
Format (cm)	150 × 75	120 × 60		120 × 60	100 × 100			75 × 75	60 × 60			Index
Thickness (mm)	 ≴6mm	 ± 20 mm	¥8mm	¥8mm	¥ 20 mm	¥ 6mm		¥ 6mm	¥ 20 mm	x 8mm	¥ 8mm	The shade variation index
Finishing	Natural Plus	Antislip	Natural Plus	Structured	Antislip	Natural Plus		Natural Plus	Antislip	Natural Plus	Antislip	is a rating to determine
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	R11 A+B+C	tile variation between individual pieces of the
Description	-	-	_	Wave decor	-	-		-	-	-	-	same color group.
Shadow	X1575441VX6	X126441X2	X126441X8	X1266441X8	X1010441X2	X1010441X6		X7575441VX6	X600441X2	X600441X8	X600441R11X8	V2 slightly different tone
Amber	X1575442VX6	X126442X2	X126442X8	X1266442X8	X1010442X2	X1010442X6		X7575442VX6	X600442X2	X600442X8	X600442R11X8	V2 slightly different tone
Taupe	X1575443VX6	X126443X2	X126443X8	X1266443X8	X1010443X2	X1010443X6		X7575443VX6	X600443X2	X600443X8	X600443R11X8	V2 slightly different tone
Seashell	X1575440VX6		X126440X8	X1266440X8		X1010440X6		X7575440VX6		X600440X8	X600440R11X8	V2 slightly different tone
Nebula	X1575444VX6		X126444X8	X1266444X8		X1010444X6		X7575444VX6		X600444X8	X600444R11X8	V2 slightly different tone
Pearl	X1575445VX6	X126445X2	X126445X8	X1266445X8	X1010445X2	X1010445X6		X7575445VX6	X600445X2	X600445X8	X600445R11X8	V2 slightly different tone
Lime	X1575446VX6		X126446X8	X1266446X8		X1010446X6		X7575446VX6		X600446X8	X600446R11X8	V2 slightly different tone
												Note
pieces - box	2	1	2	2	1	2		3	2	4	4	
boxes - pallet	30	32	36	36	24	26		40	30	32	32	
sqm - box	2,25	0,72	1,44	1,44	1	2		1,688	0,72	1,44	1,44	
sqm - pallet	67,5	23,04	51,84	51,84	24	52		67,52	21,6	46,08	46,08	
kg - sqm	13,7067	45,0226	17,79	17,79	45,50	14,06		13,7915	45,2407	17,41	17,41	
kg - box	30,84	32,416	25,618	25,618	45,50	28,12		23,273	32,573	25,07	25,07	

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Dune

Product details - Part 2 of 2

							I	*	*	*	*	*	
													Slabs Variability
Format (cm)	60 × 30	60 × 30	30 × 30	100 × 6,5	75 × 6,5	60 × 7		150 × 37,5	120 × 30	100 × 30	75 × 37,5	60 × 30	Index
Thickness (mm)	x 8mm	¥8 mm	x 8mm	¥ 6mm	¥ 6mm	x 8mm		 ¥6mm	¥ 8mm	¥ 6mm	¥ 6mm	X 8mm	The shade variation index
Finishing	Natural Plus	Structured	Natural Plus	Natural Plus	Natural Plus	Natural Plus		Natural Plus	is a rating to determine tile variation between				
Skid Resistance	R10 A+B	_	R10 A+B	-	-	-		R10 A+B	individual pieces of the				
Description	-	Wave decor	Mosaic 4,7 × 4,7	Bullnose	Bullnose	Bullnose		Step with grooves	same color group.				
Shadow	X630441X8	X636441X8	X370441X8	X1065441X6	X765441VX6	X670441X8		X3715441VX6	X3213441X8	X3100441X6	X3775441VX6	X360441X8	V2 slightly different tone
Amber	X630442X8	X636442X8	X370442X8	X1065442X6	X765442VX6	X670442X8		X3715442VX6	X3213442X8	X3100442X6	X3775442VX6	X360442X8	V2 slightly different tone
Taupe	X630443X8	X636443X8	X370443X8	X1065443X6	X765443VX6	X670443X8		X3715443VX6	X3213443X8	X3100443X6	X3775443VX6	X360443X8	V2 slightly different tone
Seashell	X630440X8	X636440X8	X370440X8	X1065440X6	X765440VX6	X670440X8		X3715440VX6	X3213440X8	X3100440X6	X3775440VX6	X360440X8	V2 slightly different tone
Nebula	X630444X8	X636444X8	X370444X8	X1065444X6	X765444VX6	X670444X8		X3715444VX6	X3213444X8	X3100444X6	X3775444VX6	X360444X8	V2 slightly different tone
Pearl	X630445X8	X636445X8	X370445X8	X1065445X6	X765445VX6	X670445X8		X3715445VX6	X3213445X8	X3100445X6	X3775445VX6	X360445X8	V2 slightly different tone
Lime	X630446X8	X636446X8	X370446X8	X1065446X6	X765446VX6	X670446X8		X3715446VX6	X3213446X8	X3100446X6	X3775446VX6	X360446X8	V2 slightly different tone
													Note
pieces - box	8	8	11	12	15	10		2	4	5	3	6	*
boxes - pallet	40	40	-	-	-	-		-	-	-	-	-	*Production upon request
sqm - box	1,44	1,44	0,99	0,78	0,731	0,42		1,125	1,44	1,5	0,844	1,08	. 1
sqm - pallet	57,6	57,6	-	-	-	-		-	-	-	-	-	
kg - sqm	17,33	17,33	1,57	0,92	0,69	0,78		7,91	6,4	4,2	3,96	3,12	
kg - box	24,955	24,955	17,27	11,04	10,35	7,8		15,82	25,6	21	11,88	18,72	

 $\mathbf{6}$

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° = not classified
6° ≤ α ≤ 10° = R9

0 2 0 2 10 110

 $10^{\circ} < \alpha \le 19^{\circ} = R10$

 19° < α ≤ 27° = R11

 $27^{\circ} < \alpha \le 35^{\circ} = R12$

 $\alpha > 35^{\circ} = R13$

• 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° = not classified

 $12^{\circ} \le \alpha < 18^{\circ} = A$

 $18^{\circ} \le \alpha < 24^{\circ} = B (A+B)$

 $\alpha \ge 24^{\circ} = C (A+B+C)$

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	≤ 0,5%	< 0,05%
sizes	ISO 10545-2	length and width	± 0,2% max ± 5,0% max ± 0,2% max ± 0,2% max ± 0,2% max
bending strength	ISO 10545-4	≥ 35 N/mm²	> 48N/mm² For 20mm slabs: > 42N/mm²
resistance to deep abrasion	ISO 10545-6	≤ 175 N/mm³	≤ 140 mm³
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 derivates.	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	DIN EN 16165 Annex B		R10 R11
coefficient of friction (μ)	DIN EN 16165 Annex A		A+B A+B+C

8

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/.



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/.



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/.



The **Cradle to Cradle** certification recognizes sustainable products, focusing on material health, recyclability, renewable energy, water use, and social fairness. It promotes a circular economy by encouraging reusable or upcycled products, reducing waste and environmental impact. **Available exclusively for our Great Collections (Large format)**.

The certification is available at https://c2ccertified.org/certified-products/porcelain-stoneware-slabs.



10 11

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