

Porcelaingres. Empire.

Technical Data

Edition: September 2026



Empire | Summary

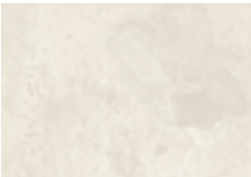


Collection: Empire | Color: Empire Grey



Inspiration | [click here](#)
Explore more applications and project references online.

Colors



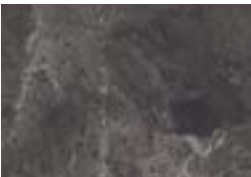
Empire White



Empire Beige



Empire Grey



Empire Dark

Technical features

Natural Plus | R10 A+B ± 8 mm

- 120×120
- 120×60
- 60×60
- 60×30

Specials

- Mosaic
- Bullnose
- Step



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

Empire

Product details

[illegible]

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	≤ 0,5%	< 0,05%
 sizes	ISO 10545-2	length and width ± 0,6% max thickness ± 5,0% max linearity ± 0,5% max wedging ± 0,6% max warpage ± 0,5% max	± 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
 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 coefficient of friction (μ)	DIN EN 16165 Annex B		R10
	DIN EN 16165 Annex A		A+B

Certifications

Proven commitment to quality, safety and sustainability.

Product Documentation & Certifications

Environmental impact

Environmental performance across the product life cycle.

EPD 6 mm	Environmental Product Declaration - Italy production
EPD 6-8 mm	Environmental Product Declaration - Germany production
EPD 9-20 mm	Environmental Product Declaration - Germany production
FDES	French Environmental & Health Declaration
ISO 14067	Product carbon footprint

Health & Material transparency

Material health, ingredient transparency and indoor air quality.

GREENGUARD Gold	Indoor air quality
HPD	Material health transparency
Declare Label	Material transparency & Red List status

Circularity & Green building credits

Circularity, recycled content and LEED & BREEAM support.

Cradle to Cradle – Silver	Material Health & Circularity Exclusive for Great collections
ISO 14021	Verified recycled content - Germany & Italian production

Performance & Compliance

Technical performance and regulatory compliance.

QB UPEC	Floor Performance & Durability Classification
DoP CE	Declaration of Performance (EU CPR Compliance)
CCC	China compulsory certification - Italy production
CCC	China compulsory certification - Germany production

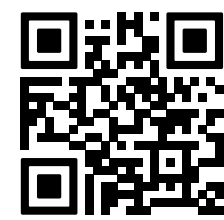
Management System Certifications

Company management and environmental certifications.

ISO 9001	Quality management
ISO 50001	Energy management
ISO 14064-1	Greenhouse gas emissions

All certifications and declarations are available online.

[click here](#)





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