

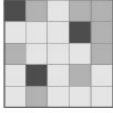



SERIE: EASY PORTICO






PRODUCTION TECHNOLOGY :

Porcelain stoneware obtained by dry pressing of atomized selected clays and vitrified at high temperature over 1.200°. The final product complies with ISO 13006 - EN 14411 (valid for ceramic tiles dry pressed with E ≤ 0.5% **Bla GL** Group)

AESTHETIC CHARACTERISTICS

COLOR	PIETRA GRIGIO-PIETRA BEIGE	SURFACE	MATT
<p>PHOTOS (Photos are purely indicative)</p> <p>Given the intrinsic variability of the ceramic products, the characteristics of the samples, previously sent, are purely illustrative and cannot be deemed binding. That is particularly true if customers select tile based on a single piece of tile or from a small cut piece on a sample board. One single piece of tile cannot adequately represent the overall effect of a roomful of that tile installed.</p>	 <p>PORTICO BEIGE</p>	 <p>PORTICO GRIGIO</p>	
<p>SIZE 33,5X33,5 cm 13"x13"</p>	<p>THICKNESS 7,5 mm WEISS MATT 7,0 ALL OTHER COLORS</p>	<p>FINISHING Not Rectified</p>	
<p>4 different patterns</p>	 <p>Moderate V2 ANSI A137.1</p>	<p>Color Shade Variation V2 Light to moderate shade variation</p>	
<p>Durability for</p>	<p>Outdoor, residential and light commercial use.</p>		
<p>Carton Logo-Artwork</p>	<p>CERAMICHE DI SASSUOLO </p>		

TECHNICAL PROPERTIES		
CLASSIFICATION: EN 14411 GROUP Bla GL	TEST METHOD/REGULATION REQUIRED STANDARD	OPERA AVERAGE VALUES
Length & width Thickness Straightness of sides Rectangular squareness Surface flatness	UNI EN ISO 10545-2 $\pm 0,5\%$ (max $\pm 2,0\text{mm}$)	COMPLIES
Water absorption %	UNI EN ISO 10545-3 $\leq 0,50$	< 0,20
Breaking strength _ N	UNI EN ISO 10545-4 >1300 $\geq 35\text{N/mm}^2$	>1700
Flexion resistance _ N/mm ²		>50
Resistance to surface abrasion	UNI EN ISO 10545-7 Abrasion Class from I to V	PEI IV
Frost resistance	UNI EN ISO 10545-12	Resistant
Resistance household chemicals	UNI EN ISO 10545-13	GA
Resistance low and high conc. of acids and alkali		GLA/GHA
Resistance to chemical additives for swimming pools use		GA
Resistance to stains	UNI EN ISO 10545-14	5/5/4
Slip resistance	B.C.R. TORTUS	> 0,40
	DIN 51130	R11
	DIN 51097	Classes A
	DCOF	> 0,42
Lead and Cadmium release	UNI EN ISO 10545-15	Pb<0,1 Cd < 0,01
Reaction to Fire	See decision 96/603/CE	Fireproof class A1fl-A1

Mohs hardness	UNI EN 176 ≥ 5	6
Light fastness	DIN 51094	Resistant
Impact Resistance	UNI EN ISO 10545-5	0,84
Product certifications 	  OPERA GROUP S.r.l. Via Martinella, 74 - 41053 Maranello (MO) Cod.Fisc./ P.IVA 02860070362 Tel. ++39 0536 934811 - Fax: ++39 0536 934820 05 01 OPR EN 14411:2012 Dry-pressed ceramic tiles, with water absorption F _b < 0,5%, for internal and external walls and floorings.	 QUALITÉ POUR LE BÂTIMENT 
PACKAGING SPECIFICATIONS		
Pcs/box	16	
Sqm/box	1,80	
Kg/box	27,8	
Box/pallet	42	
Sqm/pallet	75,60	
kg/pallet	1170	

LAYING AND CLEANING RECOMMENDATIONS

The products must be installed and fitted strictly respecting the recommendations related to the activities to be performed before and during the laying of the products specified below:

On receipt of the material, and in any case prior to laying, check the shade, caliber and choice of materials carefully, as claims will not be accepted on laid materials, as any defects are visible prior to laying.

To obtain the best possible visual results lay the materials taking the tiles from several different boxes in order to achieve the best possible mix.

Laying can be done both with a dusting of cement, or glue, using special high performance glues for porcelain stoneware.

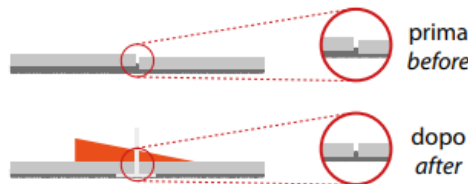
Glue laying is recommended as it offers higher guarantees of stability, particularly for large sizes (more than 45 x 45).

Remember that, when laying, the underfloor must be stable, dry and mature, neither frozen nor excessively hot; in any case follow the instructions provided by the manufacturers of the underfloor materials and glues used. Cement-based adhesives must be applied at room temperature, **generally between +5° C and +30/35° C.**

When laying, comply with the technical laying times indicated by the manufacturers of the glue used.

The most suitable glues for laying Ceramica Opera porcelain are identified according to the current European Standard EN12004.

When laying, do not mark the surface of the material used with pencils (lead) or indelible markers.



For floor and wall cladding
Ceramica Opera recommends
to use Raimondi levelling Spacers

<https://www.youtube.com/watch?v=v7ttv9ERQuY>

JOINTS AND GROUTING

The width of the gap may vary depending on the size of the tiles and the use of the floor being tiled. Laying without a gap is not recommended; lay the tiles with **a minimum gap of 4 mm** (this allows the grout to grip better to the side of the tiles, increasing the absorption of any movement in the underfloor and the compensation of the slabs).

In large areas, the expansion joints must be laid regularly; for smaller areas, leave a small gap between the tiles and the perimeter walls. Skirting will cover the gap and assure a finished appearance. In any case follow the advice of the designer/work site manager.

When using epoxy grouts, resins or similar, carry out a cleaning test prior to laying. For a better appearance, use grouts in coordinated colors to the tile in order to reduce contrast (e.g. white tile black grout).

After grouting porcelain tiles, while the grout is still fresh it is important to remove any excess grout immediately and carefully using a sponge and plenty of water. It is in any case indispensable, a few days after laying, to deep clean the surface using buffered acids (follow after-laying instructions) in order to dissolve and remove all working residues.

The following products may be used:

- DETERDEK FILA INDUSTRIA CHIMICA - www.filachim.com
- DELTA PLUS KERAKOLL - www.kerakoll.com
- KERANET MAPEI - www.mapei.it
- SERVICE SOLVACID GEAL - www.geal-chim.it
- DISYCOTT FABER - www.faberchimica.com
- BONACLEAN BONASYSTEM - www.bonasytemsitalia.it

CLEANING AFTER LAYING

Once the work has been completed, correct cleaning is compulsory.

The late or improper removal of grout residues may leave stains which are difficult to remove, creating a cement film on the floor which absorbs all kinds of dirt, giving the impression that the tiles are dirty. It is indispensable to dissolve and remove these residues completely using buffered acids diluted in water (follow the instructions on the packs of the products used), which must then be removed completely and quickly, rinsing the floor with plenty of water to avoid residues or drops on the floor which



could damage the tiles.

Leave the product to take effect on the wet floor, do not allow to dry, and rub with colour-free cloths, then rinse with plenty of water and check that the floor is free from detergent residues. If necessary, repeat the operation.

We recommend a preliminary wash on a sample surface area of a few square meters; if successful, proceed with cleaning the whole surface.

After washing, an alkaline or basic wash must be carried out using degreasing detergents. This is because the acid wash may make the floor sticky, which could cause it to retain dirt.

More specifically, Ceramica Opera recommends FILA PS87.

All glossy surface finishes require the use of non-abrasive tools during cleaning, in order to avoid opacification and scratching of the surface.

DAILY CLEANING

After deep cleaning after laying, for everyday cleaning we strongly advise against the use of waxes, oil soap, stains and other treatments (water-oil repellents) on porcelain, as these are not necessary. Often, some detergents available on the market contain wax or polishing additives, which after several washes may leave a shiny film on the floor. Sometimes a drop of liquid such as Coca Cola, water, wine, etc..... may be sufficient to remove this film and restore the original appearance of the tile, causing stains in some areas.

With waxes, first of all dewax the floor using specific products to remove the applied wax, following the instructions given by the manufacturer. For films left by soap, lime scale, dirt, use an acid detergent as DETERTEK FILA, suitably diluted in water (read the product instructions carefully).

Maranello, 26-07-2016

OPERA GROUP srl