

MARIUS AURENTI



CARQIS CONCRETE TILE

High-performance
concrete tiles,
colored throughout



The Carqis concrete tile is an original creation by Marius Aurenti. Colored throughout with pigments and hand-cast, Carqis highlights the countless subtle irregularities in the concrete that give it its timeless charm. This tile can be laid with or without grout, with a raw, matte or glossy finish.

AREAS OF USE

Decorative tiles for indoor use.
Straight or herringbone installation.

COMPOSITION

High-Performance Concrete (BHP)

LENGTH x WIDTH

- 15 x 2,4 cm
- 15 x 5 cm
- 15 x 10 cm
- 15 x 15 cm
- 15 x 25 cm

(Tolerance +/- 1 mm)

THICKNESS

1 cm (Tolerance +/- 1 mm)

COLOR:

20 colours available (see page 9 or Iris 234 Marius Aurenti colour chart)

FINISHES

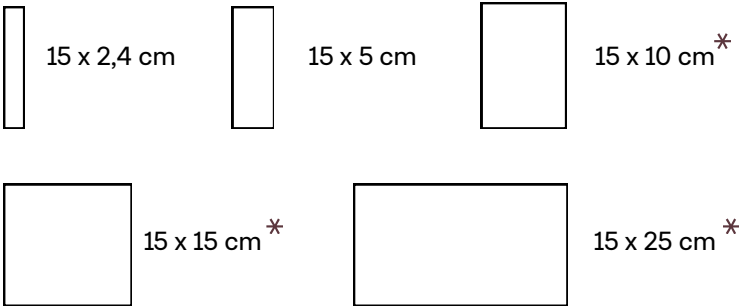
- Raw
- Matte (High-Performance Varnish)
- Glossy (High-Performance Varnish)

MAINTENANCE

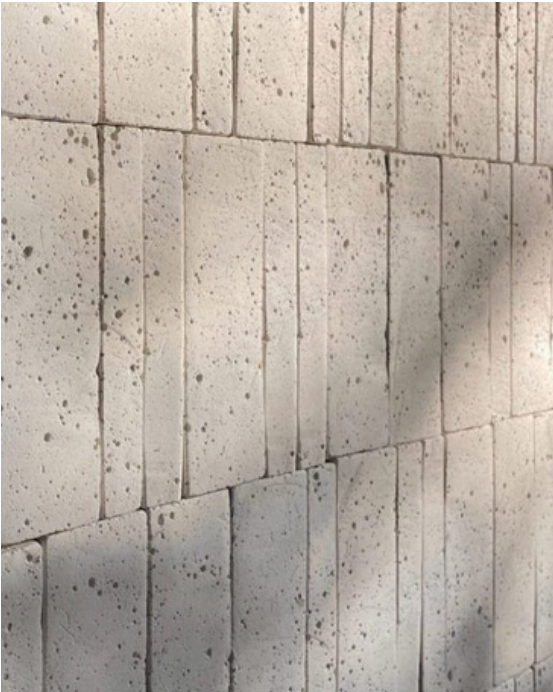
Use a Marius Aurenti pH-neutral cleaner.

TECHNICAL SPECIFICATIONS AND PERFORMANCE

Product appearance: raw, matte or glossy.
Mechanical properties of HPC at 28 days:
Flexural strength (Rf) – 4x4x16 cm prism: 11 MPa
Compressive strength (Rc) – 4x4x16 cm prism: 75 MPa



* Formats available for sale from the second half of 2026



The installation of Carqis tiles must be carried out in accordance with the instructions mentioned below and in compliance with the DTU 52.2 in force.

PREMISES IN QUESTION:
Dry or slightly humid rooms (EA), moderately humid rooms (EB) and humid rooms for private indoor use.
The following floor applications are excluded: exterior, industrial and heavy-traffic areas.

SUITABLE SUBSTRATES

Interior walls:

Applicable substrates:

- Non-waterproofed plasterboard (cardboard faces) and water-repellent plasterboard panels.
- Gypsum block partitions
- Walls constructed from bare cellular concrete blocks
- Plaster coatings on masonry walls and partitions
- Cement-based coatings on concrete walls or masonry walls and partitions
- Concrete walls or prefabricated concrete panels

New or old substrates will be sanded and then mechanically vacuumed. Substrates must be sound, clean, without cracks, cohesive (superficial scraping with a metal object should not cause dust, grit, or flakes; pull-off tensile strength greater than 0.5 MPa, as a general rule), dry, flat (deflection less than 5 mm under a 2-meter straightedge and 1 mm under a 20 cm straightedge), normally porous (between 1 and 5 minutes in the water droplet test), clean (in particular free of grease, dust, and any loose particles), according to the applicable DTU standards.

IMPLEMENTATION CONDITIONS

The choice of adhesive product is made according to criteria defined according to the standardized characteristics and properties declared by the manufacturers, in accordance with the purpose and use of the room or the exposure of the tiled work.

It is essential to strictly adhere to the application instructions for the adhesive used. Refer to the Technical Data Sheet for the adhesive being used.

The bonding should not be carried out on a frozen surface.

STORAGE AND SECURITY

Store in its original unopened packaging, protected from the elements, sunlight, frost, in a temperate location (minimum +15°C)

For more information regarding safety, consult the Safety Data Sheet.

APPLICATION TEMPERATURE

ROOM TEMPERATURE	>+ 5°C and <35°C
SUBSTRATE TEMPERATURE	>+5°C and <30°C

IMPLEMENTATION EQUIPMENT

- Tile cutting tools: dry cutting systems, diamond hole saws, pliers and suitable angle grinders.
- Installation tools: tile adhesive, notched trowel, adjustment spacers to facilitate the adjustment of the flatness of the finished work.

TILE CUTTING

The layout plan prepared beforehand determines the locations for the tile cuts. The cuts are made using the tools described in the section on installation equipment. Particular attention should be paid to circular cuts and the edges of the tiles.

BONDING

To avoid adhesion problems, the back of CARQIS tiles must be dust-free. C2 tile adhesive (1) is applied to the substrate using a trowel (single application), then the product is spread using a notched trowel suitable for the product. Applying adhesive in one pass must not exceed the open time of the adhesive (generally between 10 and 20 minutes).

For 15x15 cm and 15x25 cm formats, it is recommended to apply double-bonding (substrate + back of the tile).

Adhesive consumption and bonding method must comply with the following rules (refer to DTU 52.2):

	ADHESIVE MORTAR CONSUMPTION C2(1)	NOTCHED TROWEL SPECIFICATION
CARQIS TILES 15 X 2.4 CM	1.5 kg powder/m ²	U3 (square teeth of 3 x 3 x 3 mm)
CARQIS TILES 15 X 5 CM	3.5 kg powder/m ²	U6 (6 x 6 x 6 mm square notches)
CARQIS TILES 15 X 10 CM	4 to 4.5 kg powder/m ²	U8 (square teeth 8 x 8 x 8 mm)
CARQIS TILES 15 X 15 CM	4.5 to 5 kg powder/m ²	U9 (square teeth 9 x 9 x 9 mm)
CARQIS TILES 15 X 25 CM	5 to 6 kg powder/m ²	U10 (square teeth 10 x 10 x 10 mm)

(1) Caution: only D1 or D2 adhesive (paste) is recommended for glued installation:

- on a gypsum block partition (S8 classification)
- on a gypsum plaster (S4 and S5 classifications).

Adhesive consumption: 3 kg/m² (V6 spatula – triangular teeth with 6 mm sides)

Adhesive installation on partitions made of water-repellent plaster tiles (S9 and S10 classifications) is excluded in mortar-adhesive and in adhesive (paste).

On concrete substrates, only a C2 adhesive mortar is recommended.

In the case of using 2 different formats of Carqis tiles for the same construction site, use the higher consumption of adhesive mortar and the associated trowel.

In the absence of a specific standard relating to spatulas, for the choice, one should refer to the properties and characteristics announced by the manufacturer of the C2 mortar adhesive.

LAYING THE TILES

The concrete tiles are positioned on the substrate. Any excess adhesive mortar must be removed and the joints cleared. The positioning of the concrete tiles must be careful, as once they are in place, they are difficult to move.

JOINT WIDTH

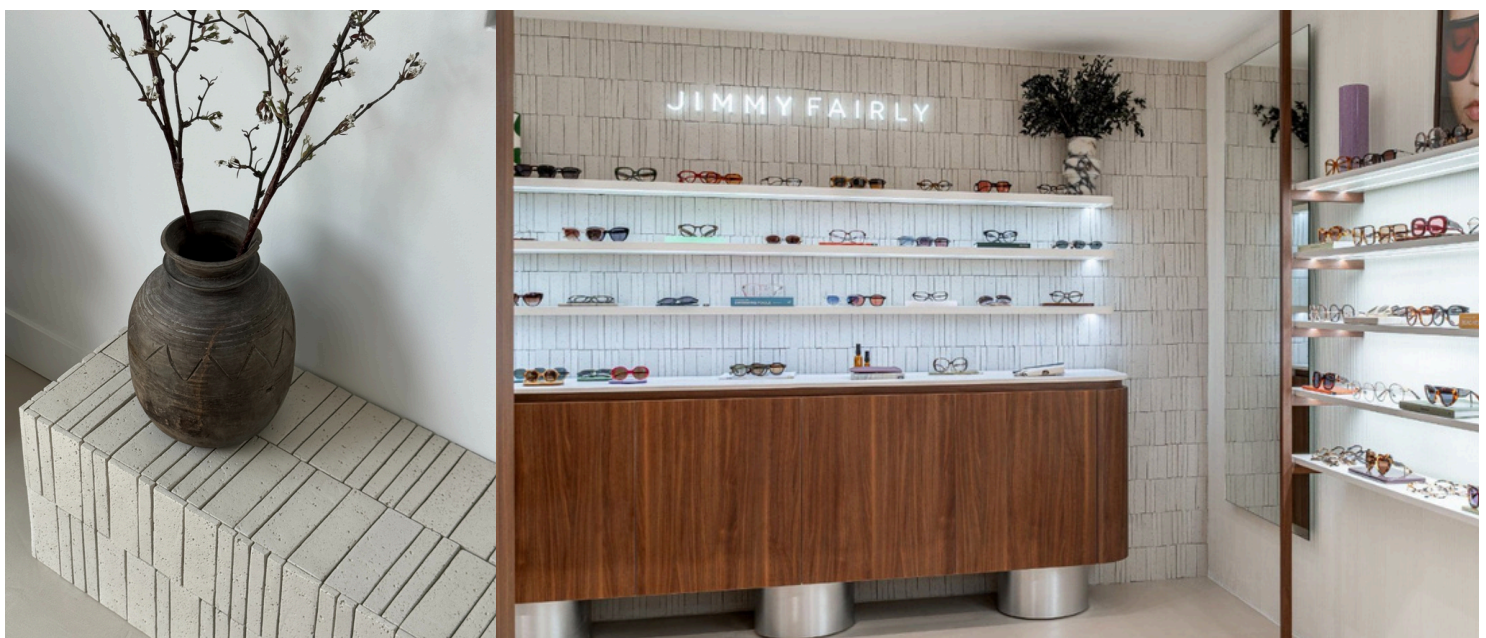
Zero-joint installation is not permitted. Installations with aligned or staggered joints are covered in this document. The minimum joint width is 2 mm.

GROUTING

With a standard-setting grout, grouting can be done the following day at average temperatures (15°C to 20°C). For temperatures below 15°C (cold and/or damp weather), this timeframe may be longer. To ensure a neat and precise application of the grout, we recommend using a piping bag.

CARQIS TILE CLEANING AFTER GROUTING

Cleaning removes installation residue. Cleaning should be done with water after the joints have been filled, before the jointing mortar has fully set.

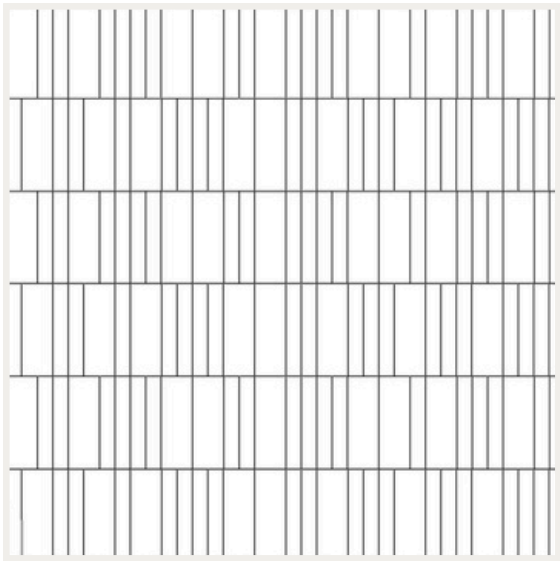


CARQIS, INSPIRING LAYOUT IDEAS: MONOCHROME PATTERNS

Carqis innovates in its material to bring a uniqueness and a new aesthetic, to play with nature and light through the relief and surface texture of each tile.

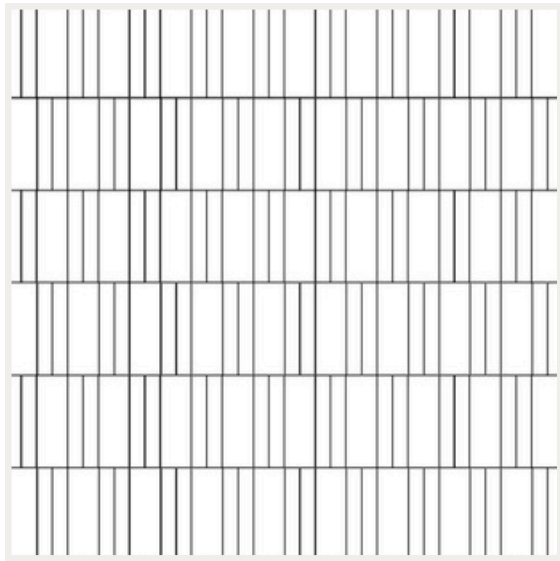
We recommend laying two small 2.5 x 15 cm tiles for one large 5 x 15 cm tile.

MONOCHROME #1



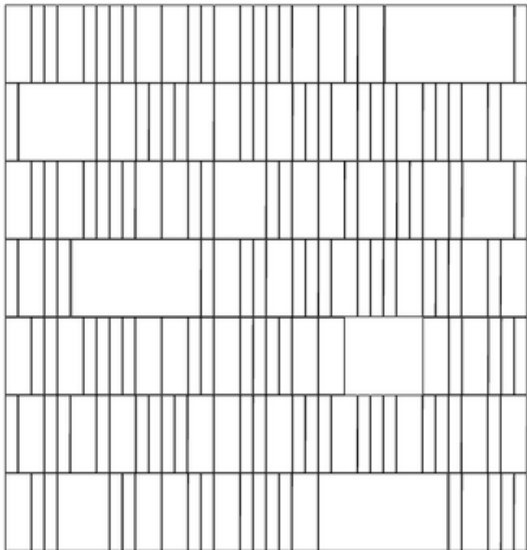
Per 1 m²:
140 tiles 2.5 x 15 cm and 70 tiles 5 x 15 cm

MONOCHROME #2



Per 1 m²:
140 tiles 2.5 x 15 cm and 70 tiles 5 x 15 cm

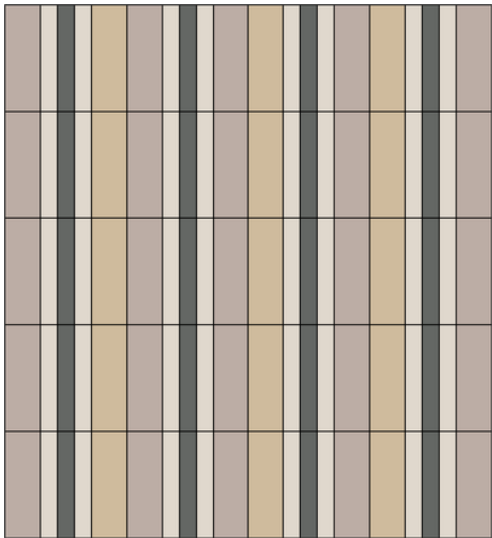
MONOCHROME #3



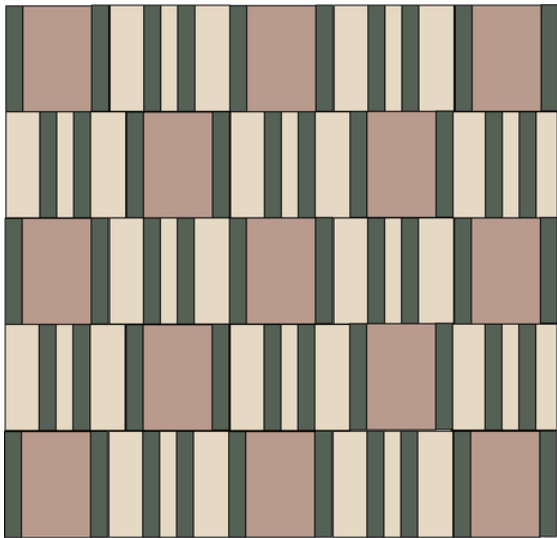
CARQIS, INSPIRING LAYOUT IDEAS: PATTERNS

The new Carqis formats open up new possibilities for wall design. Designed to create graphic and textured patterns, they transform walls into true architectural elements and instantly give character to a room.

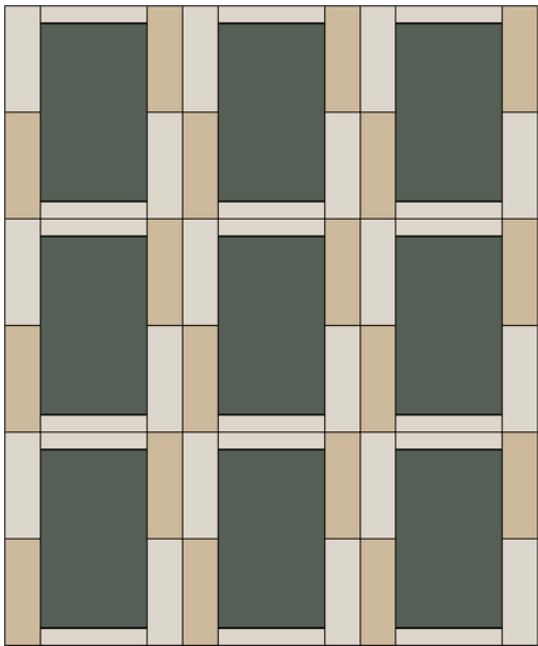
PATTERN #1



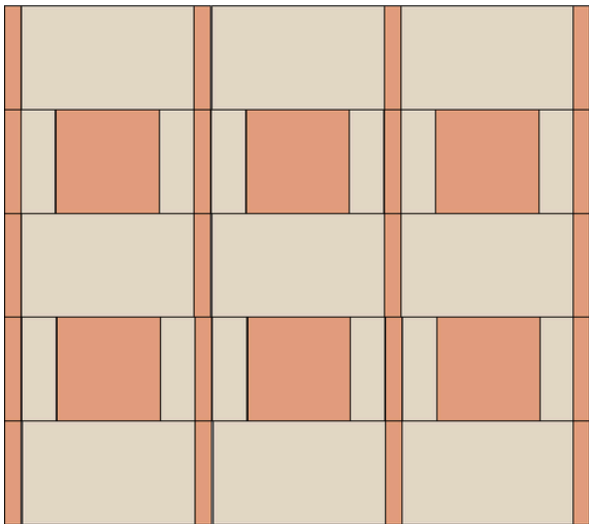
PATTERN #2



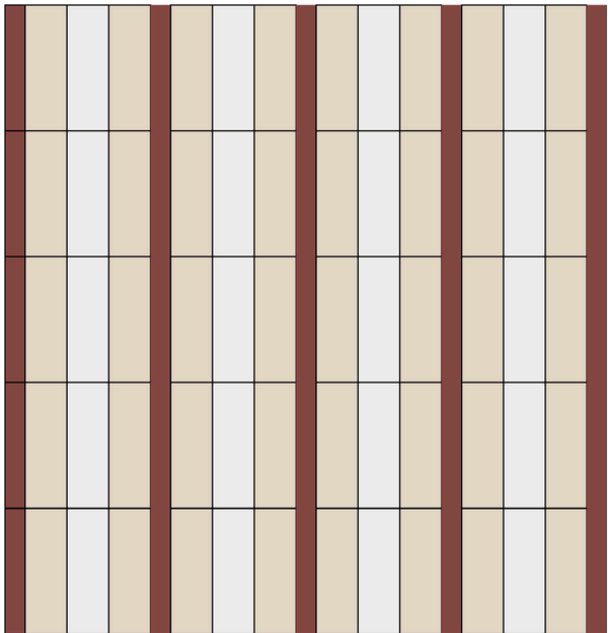
PATTERN #3



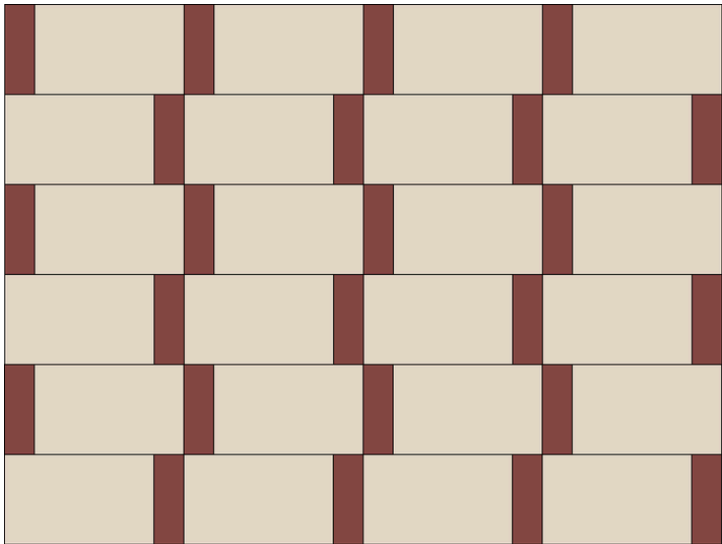
PATTERN #4

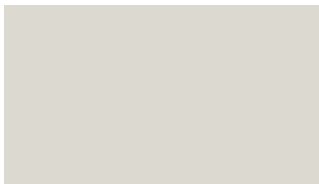


PATTERN #5



PATTERN #6

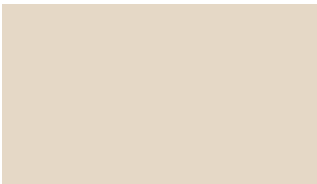




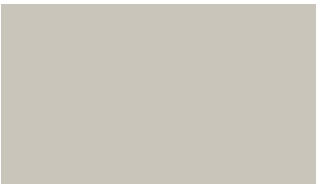
Voile 000B



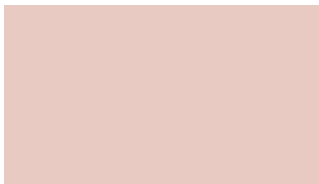
Corde 027C



Lin 018B



Poivre Blanc 000C



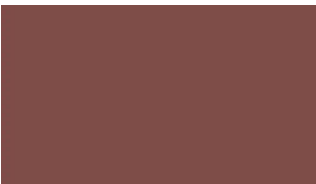
Rose tendre 081B



Cappuccino 054D



Muscade 063E



Riviera 081F



Terre d'argile 054F



Terre de Sienne 018E



Sofia 018E



Platinum XVF



Malachite 207E



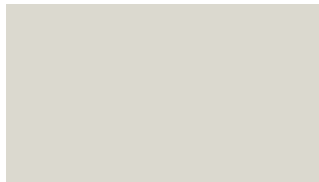
Gris plomb 180C



Tarente 252E



Gris éléphant 000E



Coton 045B



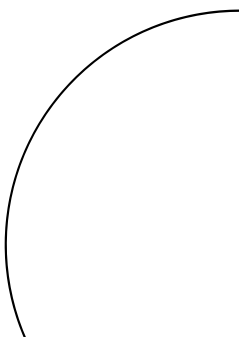
Thym 288C

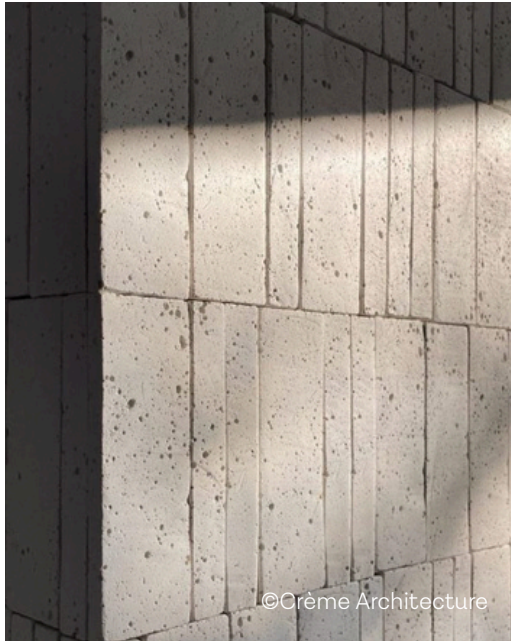
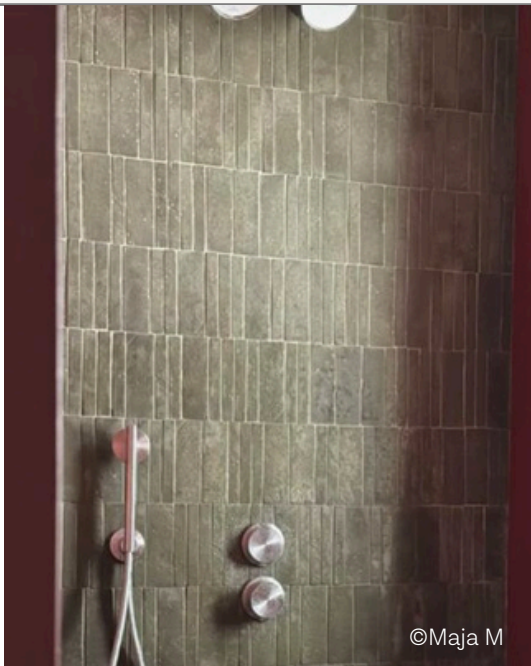


Vert Cendré 315E



Gibraltar 351F







WALL/CEILING AND WALL/FLOOR CONNECTION

Under no circumstances should Carqis tiles come into contact with the underside of the ceiling or with the raw or finished floor.

CONNECTION TO SANITARY FIXTURES AND WALL PENETRATIONS

The connection between the sanitary fixtures and the wall, as well as any wall penetrations, must be treated before laying the Carqis tiles to prevent any water infiltration (see NF DTU 60.1). After the tiles are laid, the 5 mm gap between the edge of the sanitary fixture and the first row of tiles is filled by the tiler with a sanitary sealant conforming to standard NF EN 15651-3. A profile can be used instead of sealant.

EXTERNAL AND INTERNAL CORNERS

Accessories or profiles as defined in NF DTU 52.2 P1-2 can be used for the mechanical protection of the edges and corners of the cladding elements, the joining of the cladding element with other materials and the making of the corners of tiled surfaces.

These profiles are designed for adhesive installation and their thickness must match the thickness of the cladding element. They are embedded in the C2 adhesive mortar during the installation of the Carqis tiles.

These profiles can be made of ferrous metal (stainless steel for example) or non-ferrous metal (aluminum or brass for example) or plastic material in different shapes and colors.

MOVEMENT, PERIMETER OR EXPANSION JOINTS

This is a dedicated space, filled during the finishing work with a sealant conforming to standard NF EN ISO 11600, which will not stain the ceramic tiles. A metal profile or a PVC profile with a compressible insert can also be used. These are provided approximately every 60 m² (which corresponds to horizontal joints at most every 6 m and vertical joints at most every 10 m).

For damp or communal premises, a 25E "sanitary" sealant is used.

Given the specific characteristics of the materials and construction sites, it is necessary to assess the risks through preliminary validation tests tailored to the project. These tests must be carried out, in agreement with the installer, by the sealant supplier according to one of the two ISO standards 16938-1 or 16938-2.

COLUMNS AND CURVED SURFACES

The maximum permitted width of Carqis tiles depends on the radius of curvature R of the substrate, according to the table below:

RADIUS OF CURVATURE (IN CM)	15	60	140	250
MAXIMUM WIDTH (IN CM)	5	10	15	20

On posts or curved surfaces, Carqis tiles must be laid using double gluing with a consumption of adhesive product that ensures full adhesive coverage, without air pockets around the tile perimeter.

FLATNESS

The tolerances of the finished surface are identical to those of the substrate, plus the tile tolerance. The lippage is the difference between the edges of two adjacent tiles, measured perpendicular to the bonding plane. It is due to the tolerances of the substrate and the manufacturing of the tiles. The permissible lippage must be less than one-third of the joint width between the tiles, plus the tile tolerance.

FINAL APPEARANCE

The final appearance of the coating is assessed at a distance of approximately 1.65 m, with non-grazing lighting (angle between the coating and the incident natural or artificial light greater than 45°).

JOINT ALIGNMENT

A 2m straight edge should not show a difference in alignment greater than 2mm, plus the tolerance allowed on the dimensions of Carqis tiles.

RETURN TO SERVICE

The premises can be occupied at least the day after the joints are completed. In all cases, it is advisable to refer to the instructions provided in the jointing mortar manufacturers' technical data sheets.

Additional information

Carqis tiles are handmade and unique products.

The care taken in their manufacture does not prevent variations in appearance and color.

Carqis tiles offer a matte or glossy surface protection.

Despite the high performance and qualifications of this protection, it is not insensitive to long and repeated exposures which can damage Carqis tiles.

Avoid prolonged or continuous contact with aggressive chemicals such as acids, bases, vinegar, solvents, bleach, hand sanitizer, steam, boiling oils, and other harsh chemicals.

Splashes of hand sanitizer on the surface of Carqis tiles can cause irreversible damage. It is essential to thoroughly protect any surfaces that may be exposed to it.

MARIUS AURENTI

For 40 years, Marius Aurenti has been innovating to improve the performance of decorative materials and the sensations they provide.

A mineral and plant aesthetic, close to Nature, to which our works pay homage and for which our environmental commitment is total.

Marius Aurenti is also present, through its training and support, alongside quality French craftsmanship which, every day in our workshops as well as in the field, strives to make each place unique, beautiful and timeless.



www.mariusaurenti.com +33 (0)9 87 87 65 75