MARMOCIM® REVOLUTION

> MARMOCIM® CLASSIC





MARMOCIM® REVOLUTION

MARMOCIM® CLASSIC

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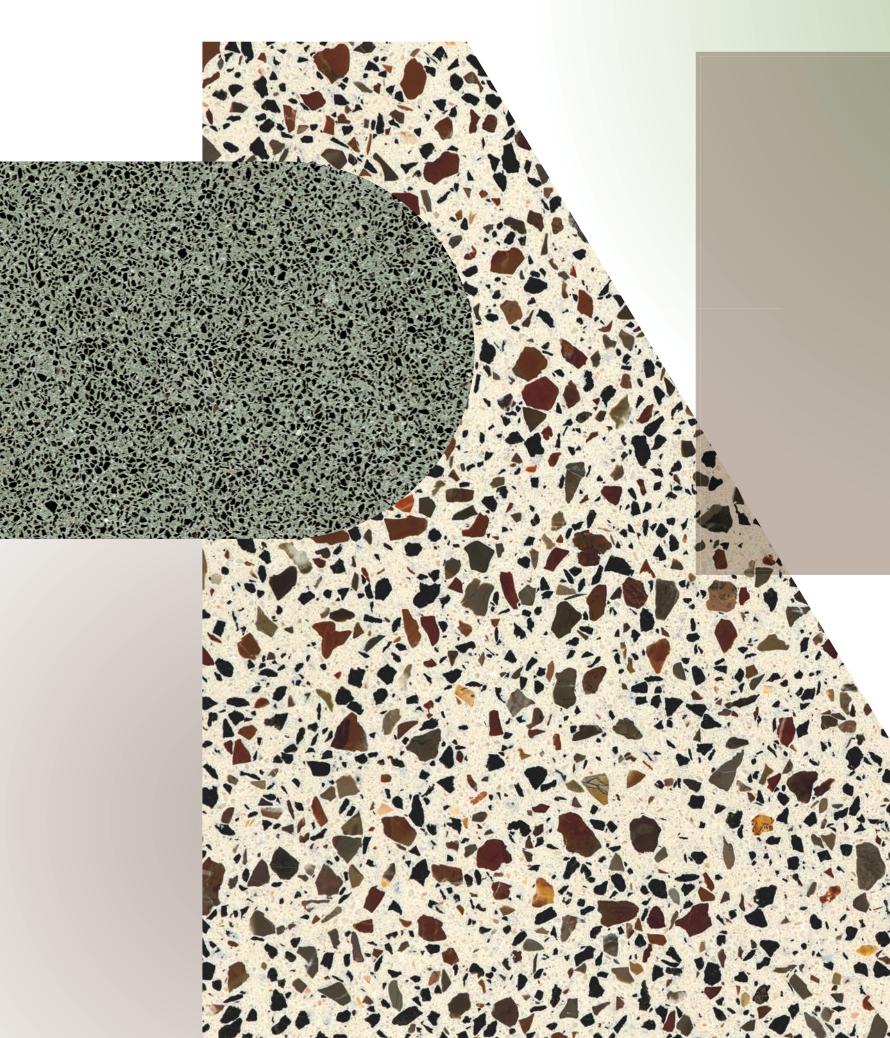


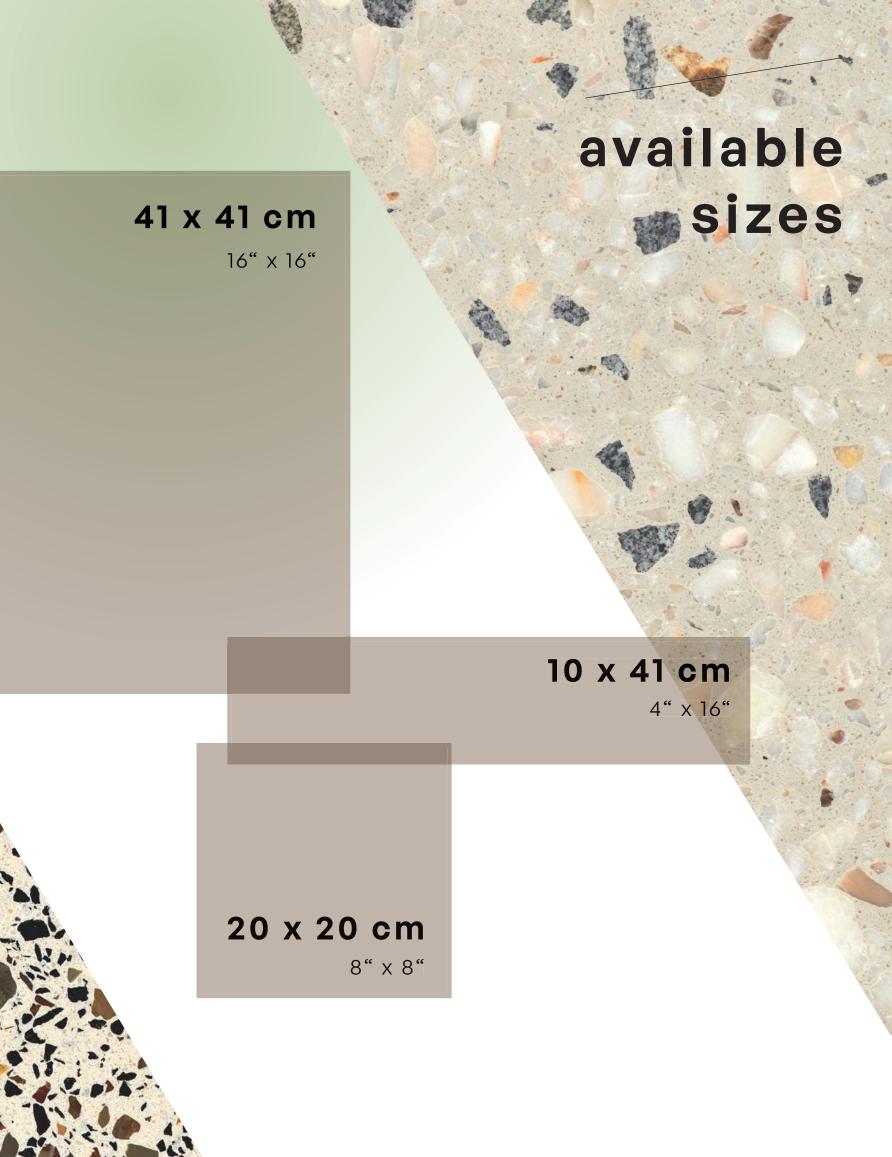
Marmocim® Classic and Marmocim® Revolution are the collections of authentic precast terrazzo - a material consisting of natural stone fragments bonded by Portland cement.

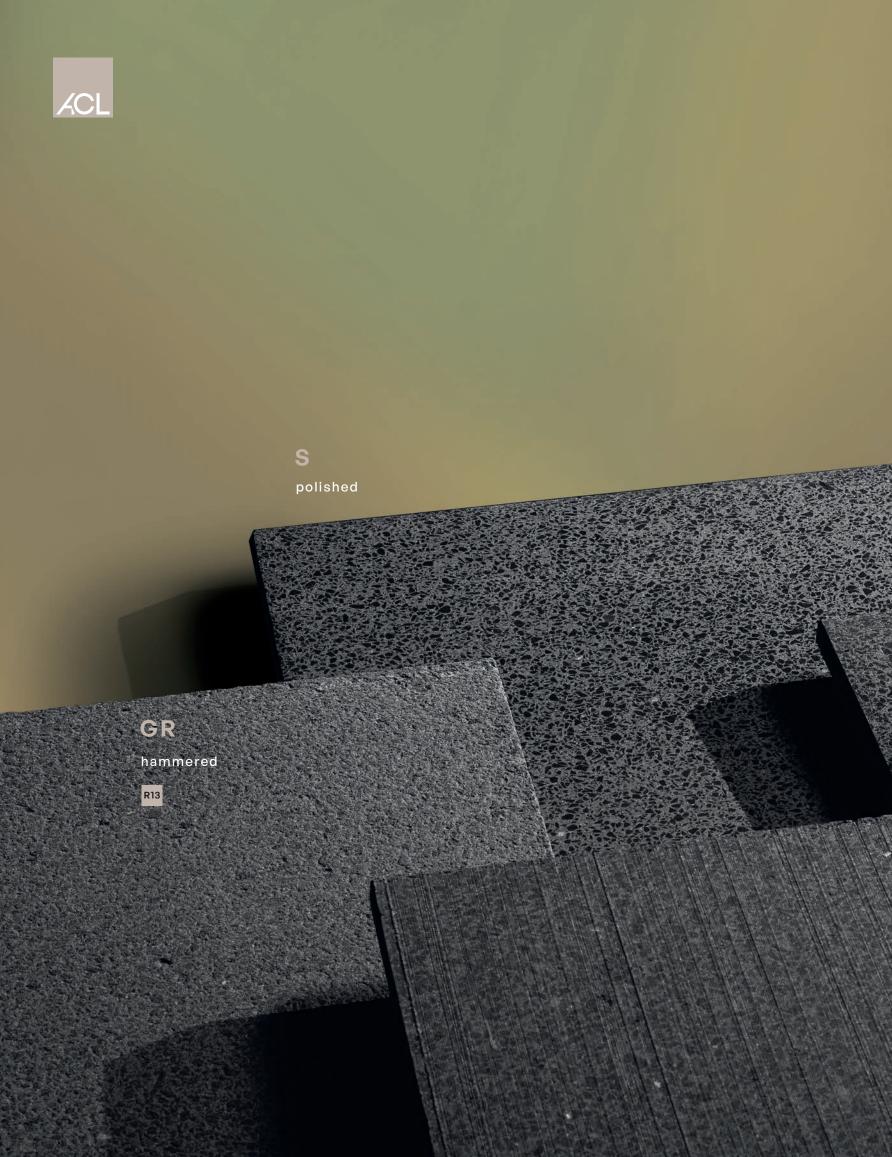
With its extraordinary and timeless elegance, terrazzo is a reminiscence of fascinating Art Deco and chic Mid-century modern style as well as an essential element of contemporary interiors channeling the latest architectural and design trends.

While being highly durable and consistent Marmocim® is equally suitable for high-traffic areas like shopping malls, schools, airport terminals, and hospitals; Marmocim® is also ideal for decorative applications in residential spaces and hospitality establishments.

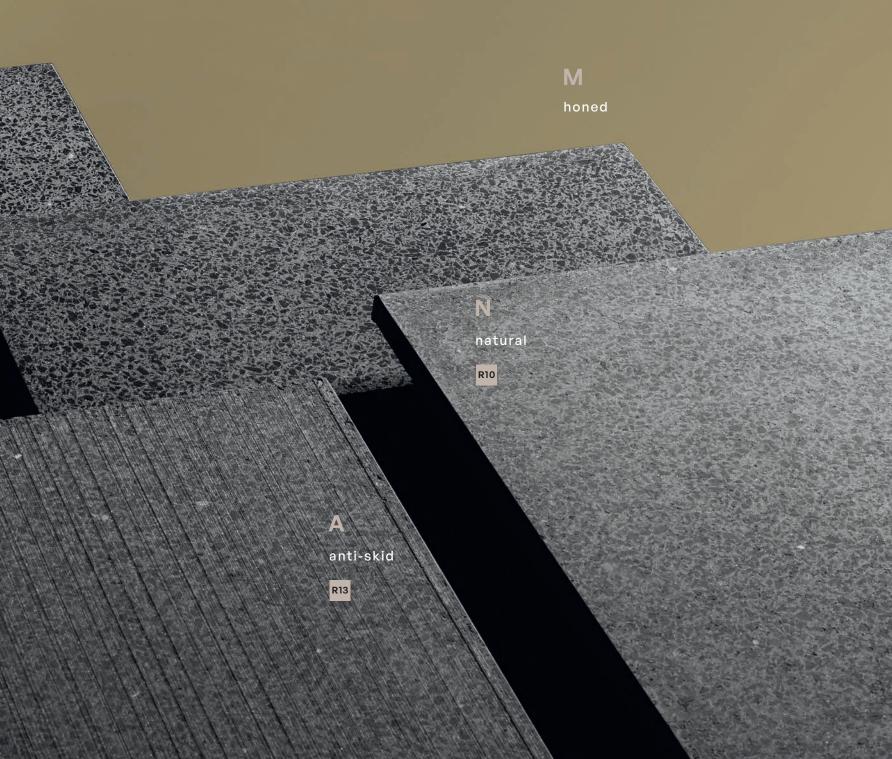
Available in an abundance of colors, various sizes and unique surface finishes; Marmocim® offers practical solutions in implementation of the most impressive and sophisticated projects.



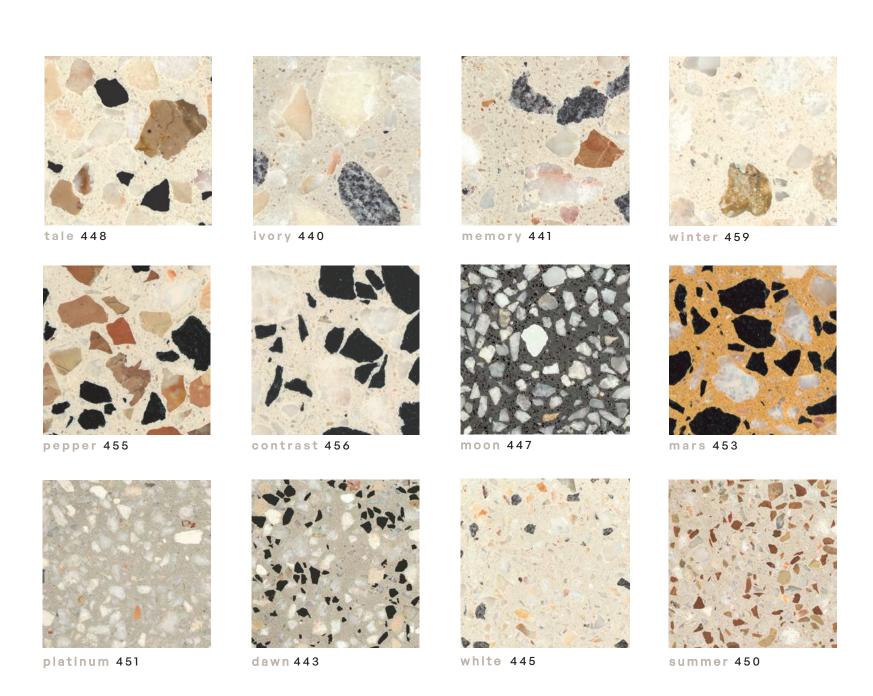


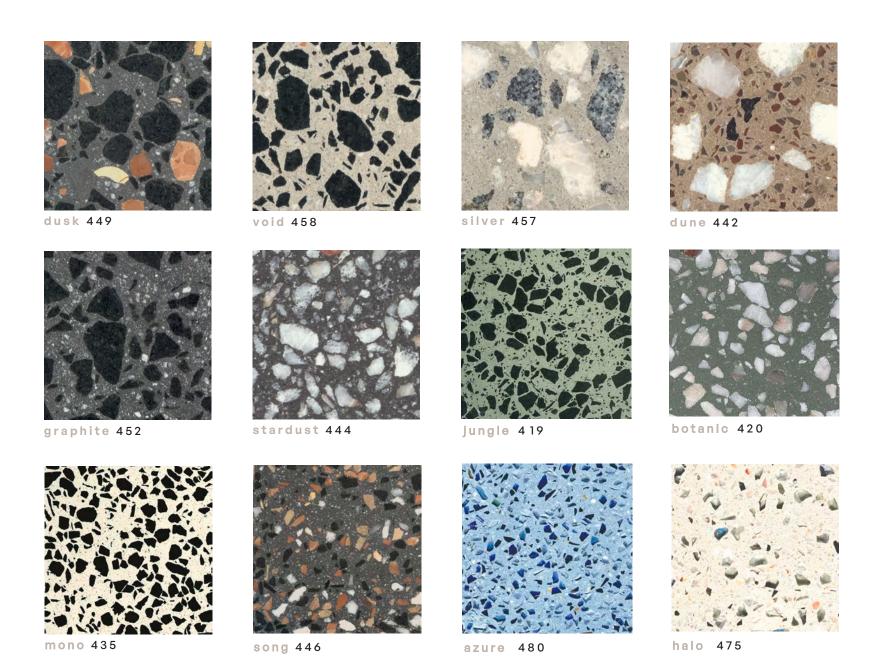


surface finishes

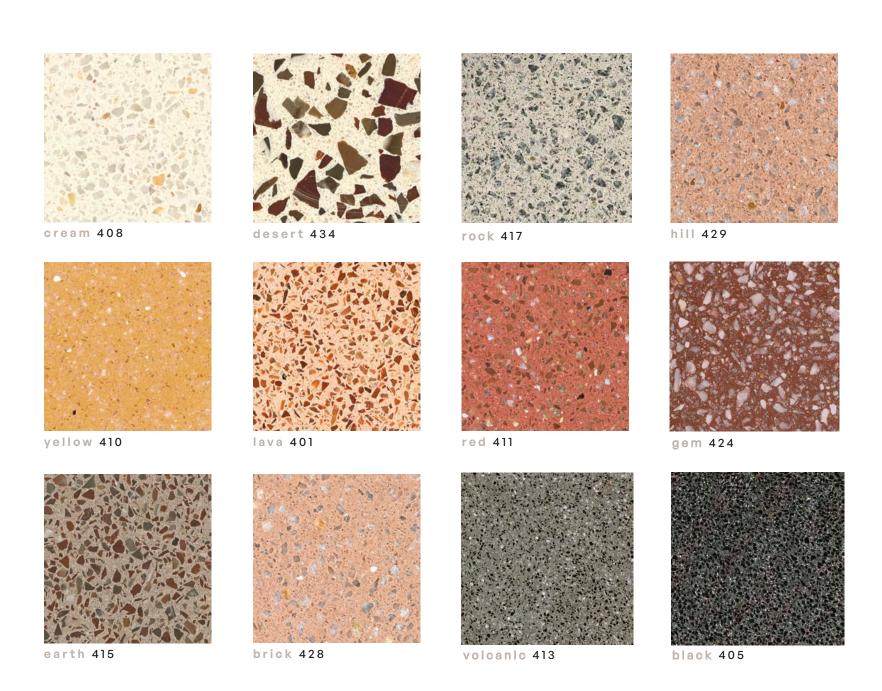


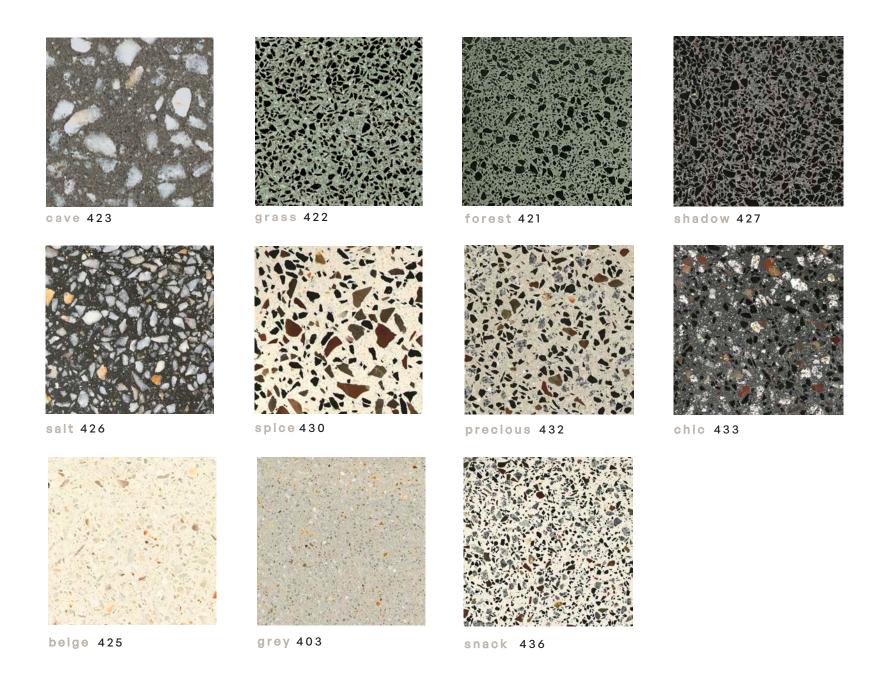
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MARMOCIM® CLASSIC









summer M 450



dusk M 449

MARMOCIM° CLASSIC



cream M 408

CEMENTBRICK
CK 30





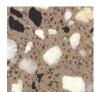




MARMOBRICK REVOLUTION



MB S 449



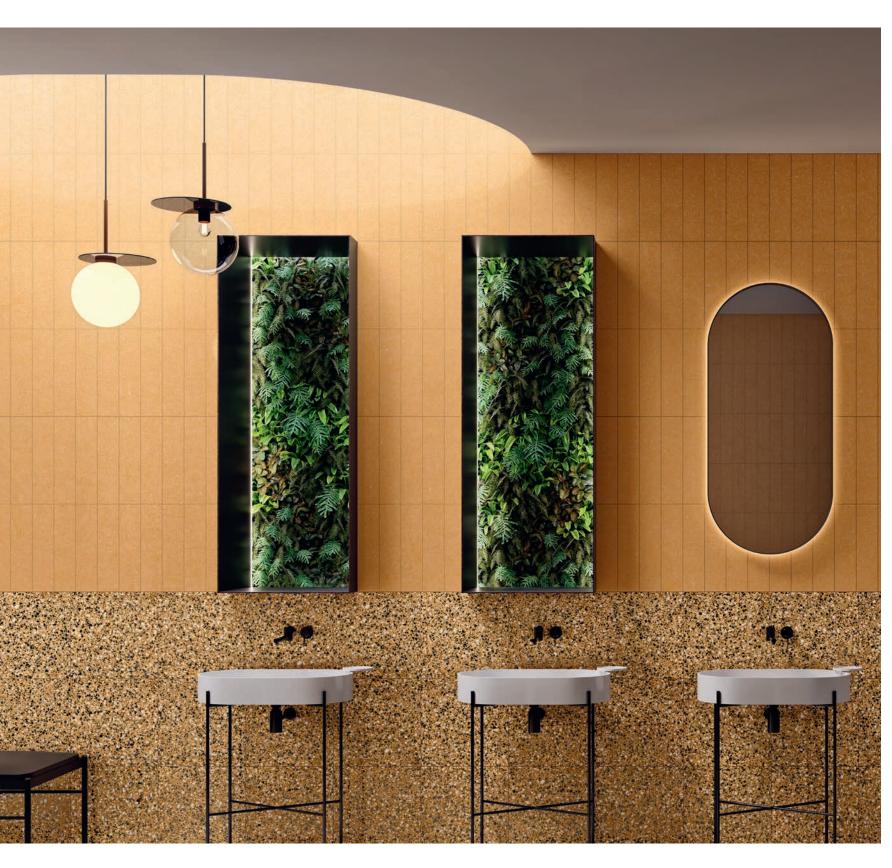
MB S 442



MB S 459

CONCRESTRIP

CS 28 N



MARMOCIM® REVOLUTION

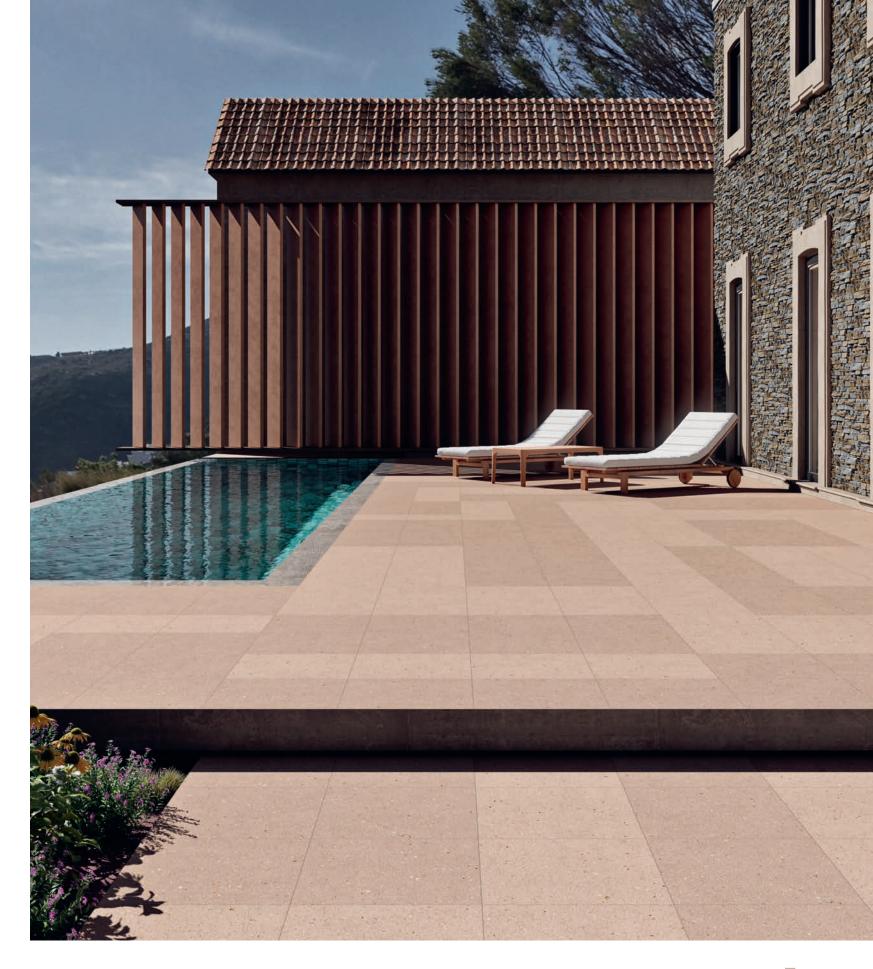
MARM BRICK REVOLUTION





mars S 453

MB S 410



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SIENA **SN** 10

hill GR 429





MARMOCIM® REVOLUTION



tale GR 448



tale M 448

RISCADO PLUS RCP 22 N





MARMOCIM® REVOLUTION



memory N 441



stardust N 444



MARMOCIM® CLASSIC





earth N 415

earth M 415

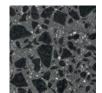


MARMOCIM® CLASSIC

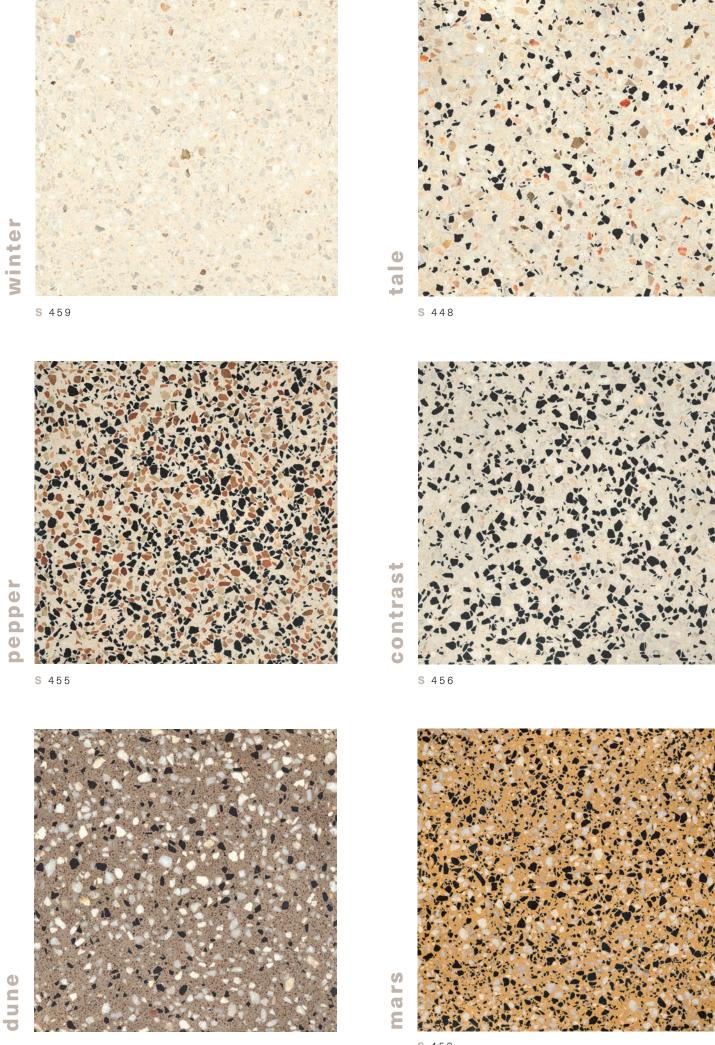
MARMOCIM° REVOLUTION



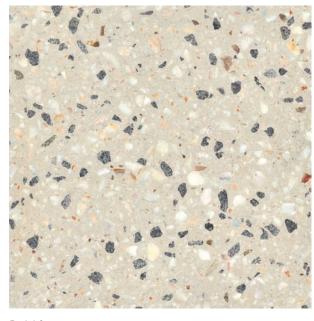


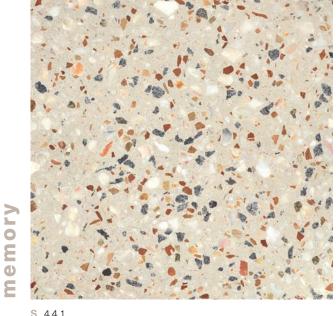


graphite S 452



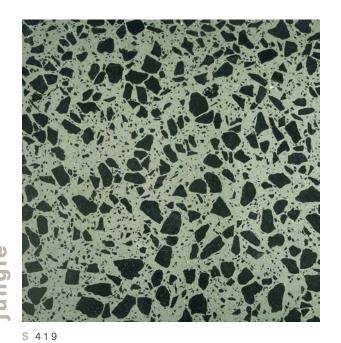
S 442 **S** 453





S 440



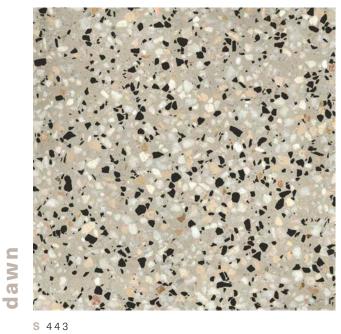


MARMOCIM® REVOLUTION

S 420

botanic

\$ 452 \$ 451

















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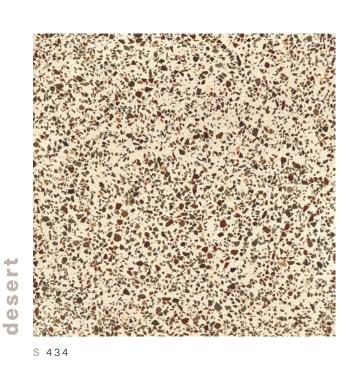




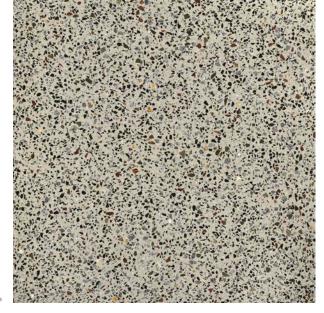


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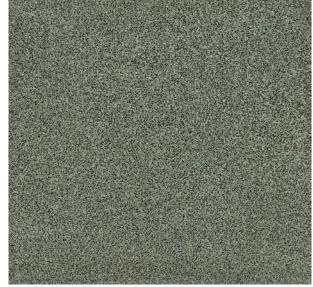


S 433

MARMOCIM® CLASSIC earth

cave





S 422

grass





S 423 **S** 421



S 413

volcanic





S 405

black

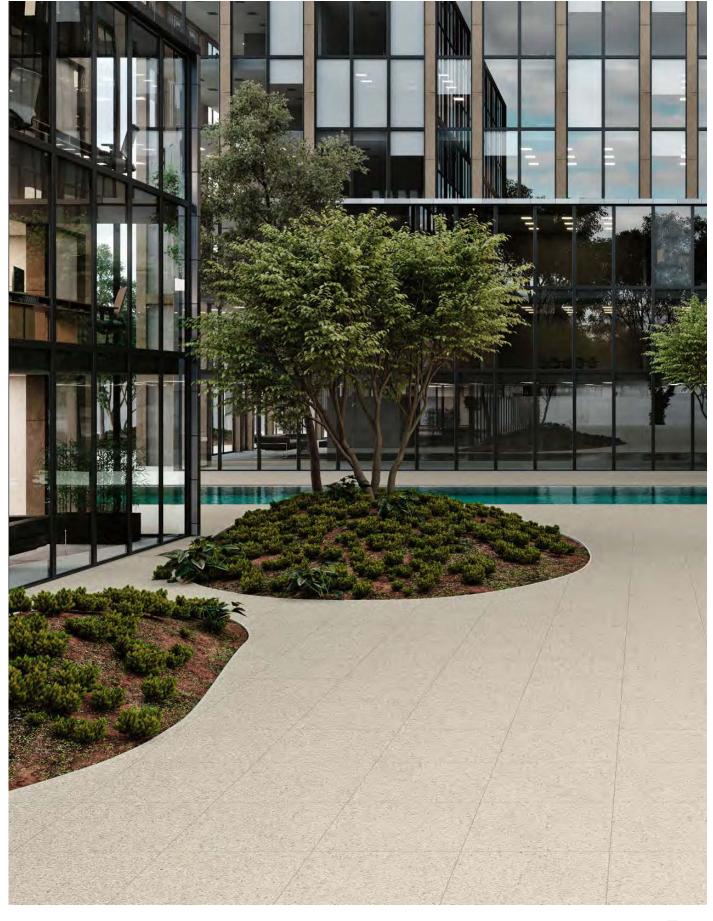








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beige GR 425

accessories



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Step DS with 3 grooves with or without bevel



Step DS with bevel



Braille Pavement to aid the blind and visually impaired



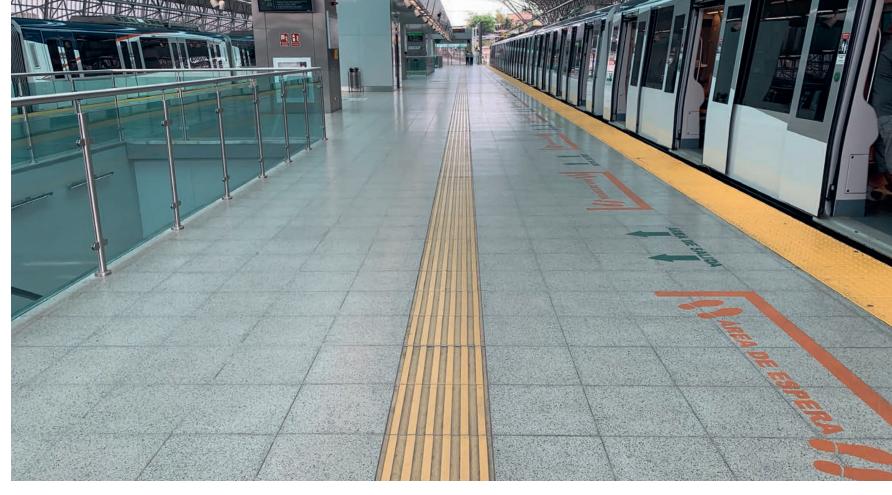
Step DGR, with bevel



Step DA with 3 grooves with or without bevel



Step DA with bevel



S Example of Braille

Metro stations in Panama city - line 2

technical features

M honed dimensions weight pallet wooden box **GR** hammered 7,3 kg /piece 36,6 Kg /m² 410 x 410 x 18mm 30 m² | ± 1300 Kg 35,42 m² | ± 1 320 Kg flat elements 45,72 m^2 | \pm 1960 Kg R10 N natural 100 x 410 x 18mm 200 x 200 x 18 mm * 1,75 Kg/piece R13 bullnose **A** anti-skid 410 x 70 x 18mm

CE Marking **EN 1339**

S polished

 $*200 \times 200 \times 18 \text{ mm Sharp edge}$

Application on façades available for all models.

COLOURS

These tiles are made from natural granulated stones and therefore VARIATIONS IN TONE AND COLOUR SHADES MAY OCCUR, as stone is a natural material.

Slight variations in the granulometry and colour tones of the products may occur due to the characteristics of the materials and the photographic reproduction in catalogues and other printed or electronic material.

Due to the usual use of cleaning products that contain chemicals, mainly based on acids and ammonia, for cleaning and maintenance, we do not recommend using Marmocim on the bathroom floor (urinals and toilets).

marmocim® laying

Surface preparation

To achieve the best possible result, ensure that the installation surface is free of residue, cracks and dust. Check the surface is level and repair any irregularities.

Cuts and holes

Pieces can be cut using a suitable cutting >1hp and with water cooling system.. Smaller cuts can be made with a dry grinder. For drilling holes, use a diamond twist drill with the diameter adjusted to the required hole size.

Recommendations

To ensure the best possible result, it is crucial that the pieces are protected and that no one walks over the floor within the first 24 hours after installation. Use neutral detergents for the daily maintenance and care of the tiles and payers.

Security

The preparation and laying of the pieces must always be carried out using ppe (personal protective equipment), such as protective gloves, footwear, glasses, and hearing protection when cutting. It is also important to ensure compliance with all manual handling of loads recommendations and regulations.

Mortars and glues

The type, installation surface and purpose of the pieces (indoor or outdoor, wall or floor, etc.) Must be taken into account selecting the appropriate adhesive glues, cements and mortars.

Spread the adhesive or cement using a 10mm notched trowel to obtain maximum contact to the surface.

Joints for tile-laying

The use of joints in the tile-laying process is essential to ensure the correct application of the wall and floor tile pieces. In addition to their aesthetic and technical functions, joints also ensure better alignment of the materials and correction of possible rregularities on the installation surface. The joints must be the same colour as the piece and must be cleaned, for example with sisal after the required time specified by the manufacturer.

Regulations and standards

This document is intended as a guide only, and compliance to all regulations and standards of the country where the tiles/pavers are being installed must be ensured.

Packaging & waste management

Cardboard and plastic packaging should be disposed of at locations available for recycling and recovery of waste within the country of installation, such as eco-points or through other systems.

Material

For best visual results, mix and match pieces from different

marmocim® application

- 1. Use Class C2 flexible adhesive cement and follow the manufacturer's instructions;
- 2. Spread the adhesive cement in a fine yet thorough layer onto the installation surface to ensure uniform coverage making minor levelling corrections, if needed;
- 3. Use a notched trowel to spread the adhesive cement and work in small sections at a time on the installation surface;
- 4. Always use the double gluing technique (i.e. spread the adhesive on the installation surface and also on the back of the tile/paver;
- 5. Place the tiles/pavers onto the spread adhesive and tap gently with a white rubber mallet to ensure optimal contact across the entire adhesive surface of at least 90%;
- 6. Regularly ensure the adhesiveness of the glue spread and do not expose it to air for prolonged periods of time, otherwise it will develop a film and its effectiveness will be reduced.
- 7. Gently lift an occasional tile/paver to check that the bonding technique used is providing maximum contact between the tiles/pavers and the surface;
- 8. Use standard width spacers to ensure uniform joints between the tiles/pavers.
- 9. Remove any adhesive residues between the tiles/pavers to avoid problems in the grouting process;
- 10. Wait at least 24 to 48 hours before filling the joints. During this period, avoid any kind of traffic on the tiled surface.

filling the joints

- 1. It is recommended to place joint spacers of 2 mm thickness between the pavers and use spacers with 4 mm thickness along the outer edge of the installation surface;
- 2. Expansion and control joints must be taken into consideration. These are intended to withstand the dimensional variations of the surface. Never lay tiles/pavers directly over expansion or control joints;
- 3. Seal the expansion and control joints with a flexible sealer suitable for the purpose and in the desired colour;
- 4. Prepare the grouting mixture according to the manufacturer's instructions;
- 5. Apply flexible sealer to the expansion & control joints with a nozzled gun or similar, to minimize sealer contact with the tile/paver surface. Apply the grouting in a diagonal direction to the other joints to ensure optimal coverage and no gaps;
- 6. Clean off any excess grouting immediately after filling the joints with a clean damp sponge, and then wipe the tile/paver surface with a dry cloth. Avoid any traffic on the paved area in the next 24 hours;
- 7. After this 24-hour period, the floor must then be protected using suitable sheeting to avoid soiling, staining and contamination until all work on the project has been completed. At the end of the installation, we recommend using a surface waterproofing product from our range for optimal floor care. Suggestion: BLOCK PROTECT MARMO Apply the product with the surface dried. Block Protect Marmo is ready to be used and can be applied evenly with a brush or spray, in the case of highly absorbent material, apply 2 coats, wet, on wet. Remove the excess (product that enters Marmocim) with a dry cloth before total drying. Wait at least 48 hours to assess the effectiveness of the treatment. Carry out preliminary tests on the surface to be treated, in order to avoid possible undesirable effects.

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marmocim®

Product Features and Palletization	Wooden Box 1100 x 1100 x 1000 mm (staclable)	Pallet 1200 x 1000 mm (non-stackable)
Dimensions (Length x width x thickness)	410 x 410 x 18 mm	410 x 410 x 18 mm
Items/Pallet	272 units	178 units
Items/sqm	5,95 units	5,95 units
sqm/ltem	0,168 sqm	0,168 sqm
sqm/Pallet	45,72 sqm	30 sqm
Average weight/sqm	± 42 kg	± 42 kg
Average weight/Item	± 7,30 kg	± 7,30 kg
Average weight/Pallet	± 1960 kg	± 1300 kg

Technical Specifications			
EN 1339 - "Concrete paving flags - Requirements and test methods"			
Intended use	Internal Flooring	External Flooring	
Emission of asbestos	Approved	Not Relevant	
Breaking Strength (MPa)	≥ 5	≥ 5	
	1339 USRV ≥ 30	USRV ≥ 30	
Slip/ Skid Resistance DIN	151097 Class A	Class A	
Thermal Conductivity [W/(mk)]	1,24	Not Relevant	
External fire performance	Not Relevant	Not Relevant	
Durability	Satisfactory	Satisfactory	
Reaction to fire	Class A1	Not Relevant	

evolving towards design & innovation

MADE IN PORTUGAL



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