

## PORCELAIN TILES

# MILESTONE SERIES

www.porcelona.com





Thickness 20 mm. is characterized by its high performance to Impact resistance and Bending Strength as well as its extraordinary anti-slip properties..

The high performance vitrified stoneware, 20mm thick, inspired by Stone, Marble, Concrete and Wood, for designing any outdoor space with exactly the right look. Excellent anti-slip properties and resistance teamed with outstanding versatility, thanks to the many different sizes, finishes, colours and trims. For design that fits perfectly into its context, in absolute stylistic continuity with indoor design schemes,

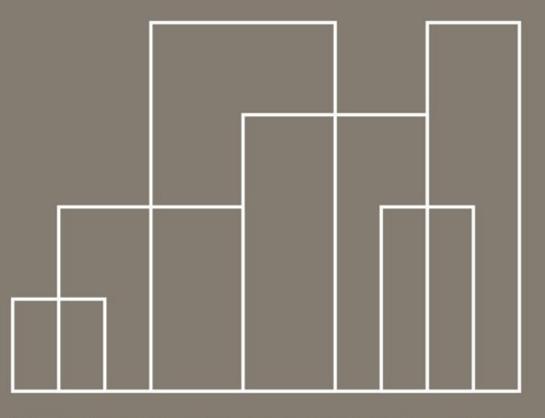
20mm stoneware are in line with the most innovative contemporary trends.

The power of MILESTONE lies in the fact that it is a neutral, exceptionally versatile furnishing material, and in its ability to embody the whole material identity of the ceramic product, transforming it into a container able to bring out the very best in all types of finishes and furnishing elements. has fully exploited this

characteristic feature of colors, coming up with a light, delicate collection with clean-cut, yet profound textures reminiscent of the

material in its most typically original guise, enhanced by a careful selection of subtle details.

SIZES FROM 60X120CM TO 20X20CM
CREATING POSSIBLITY FOR INFINITE CREATIONS



60x120, 120x30, 60x90, 60x60, 60x30, 30x30





# 20<sub>MM</sub>

The 20 mm-thick MILESTONE collections are perfect for outdoor use, for covering terraces, staircases, gardens, paths and driveways, as well as walls, steps etc.

Extra-thick porcelain MILESTONE is the most suitable solution for both outdoor and indoor heavy-traffic floor coverings- such as vehicle spaces in a garage, where it is installed with adhesive - because it is resistant to loads and stresses, waterproof, stain resistant, resistant to chemicals and flame retardant, frostproof, resistant to thermal shock, atmospheric gents and light. From an aesthetic point of view

20mm MILESTONE tiles offer great scope for customization thanks to collections dedicated to great tactile finishes of stone – and to the range of colours, which encompasses light and dark tones, warm and cold shades of grey, white, black, blue, beige, ivory, crema, brown and many more.



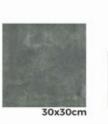


ENRICH\_ SIMPLICITY AT\_ YOUR LIVING

### **Aleut Grafito**

























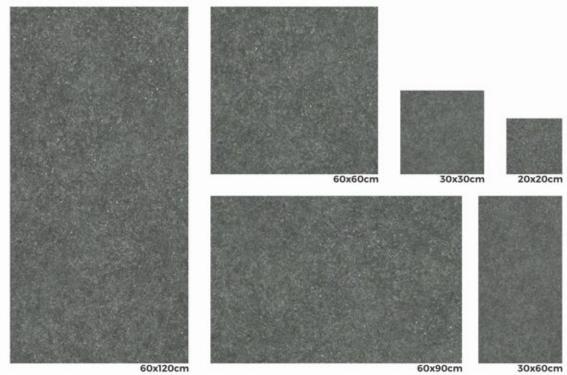






CREATE A MAGNETIC **AMBIANCE** 

### **Fossil Black**























CREATE A
VIBE OF PURITY
AT YOUR SPACE

## **Quartz Gray**















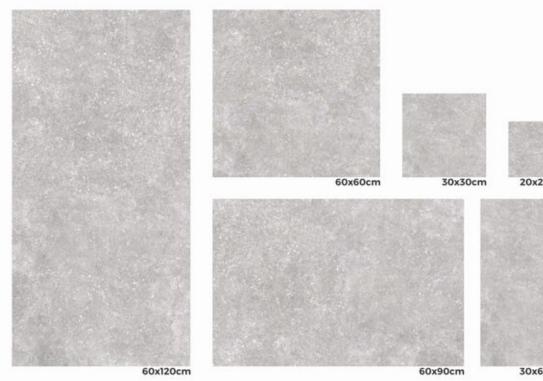






INTACT FILTERED
TRANQUILITY IN
YOUR LIVING

## Tegel B

















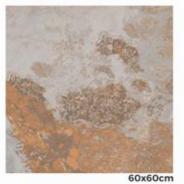




EXHIBIT\_ ULTIMATE\_ CONVIVIALITY

## **Turbo Brown Gray**

































YOUR STYLE
QUOTIENT



**Aleut Crema** 











Benito Black



Belzium Stone Black



Belzium Stone Dark



Benito Gray















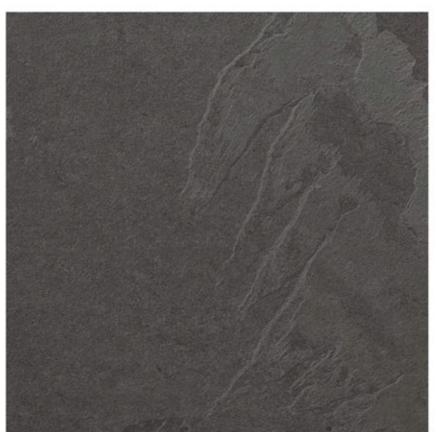








REINTRODUCE
THE CONCEPT
OF LAVISH LIVING



**Black Slate** 

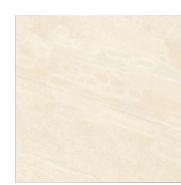




20 ₹ 16 ₹







Cosmic Beige



Cosmos Lvory





DarwinGraffito

Fossil Gray



















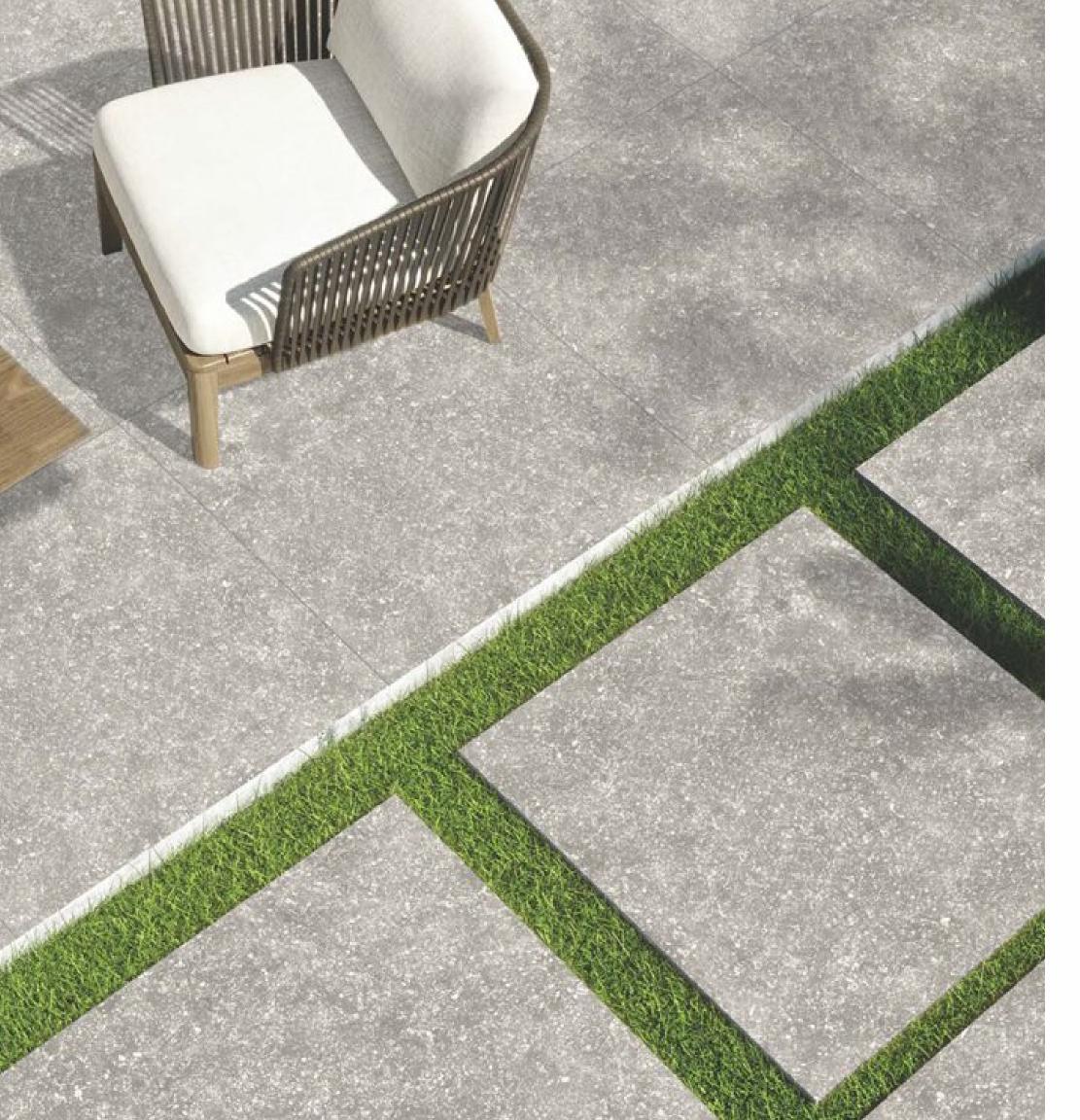


CONVEY
CLARITY IN
YOUR LIFESTYLE



**Gabbaro Crema** 













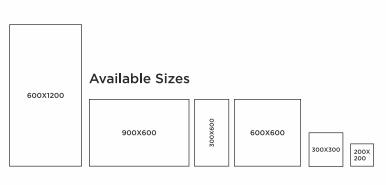
Lego Grey



Hammer Stone Beige



Martin Stone Light















Hammer Stone Gray



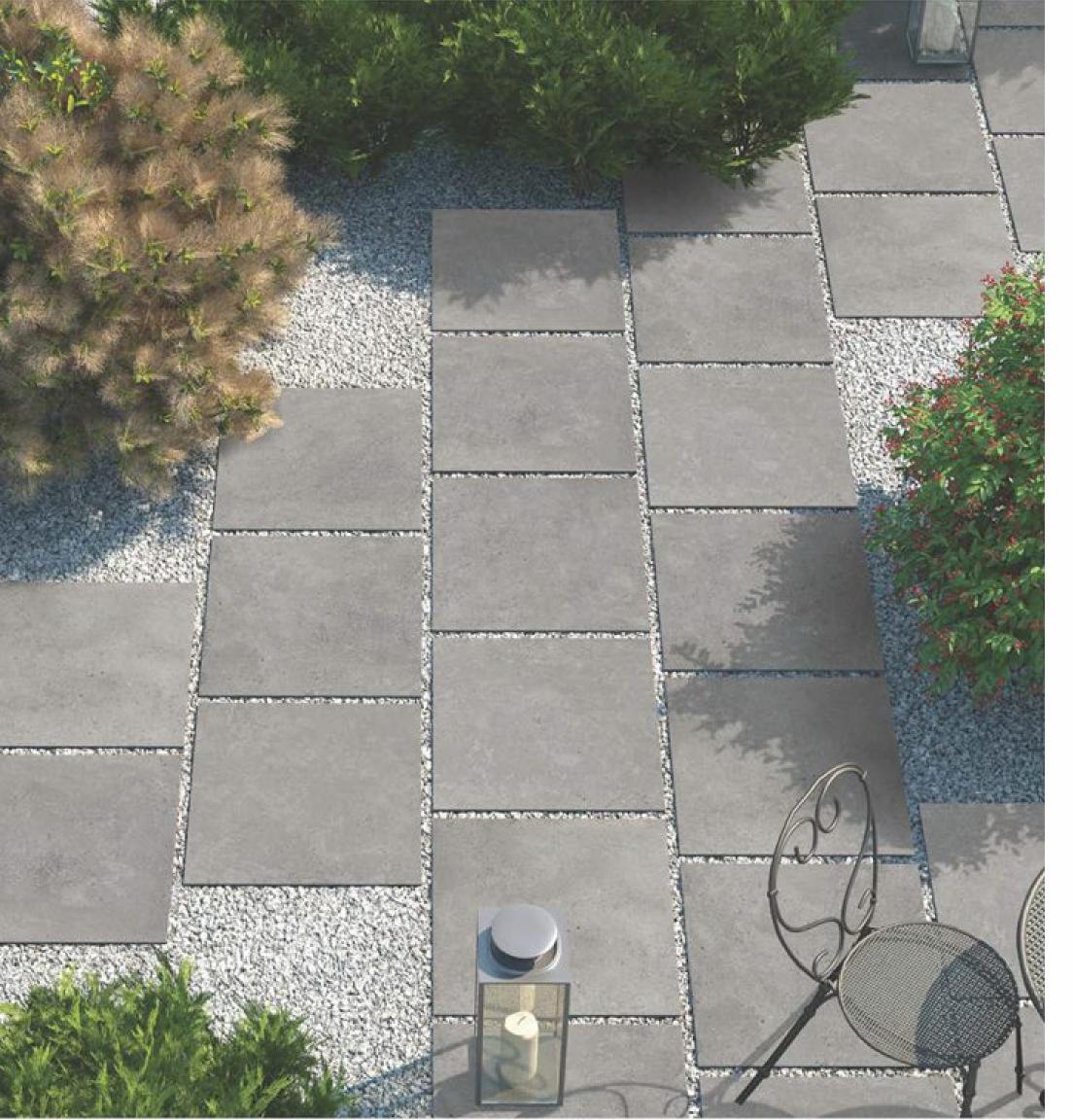




ADD APT
FLARE TO
YOUR SPACE



Miraj Black





20 ₹ 16 ₹









Namur Girs

Orion Sand





Tegel A

Tegel Black



















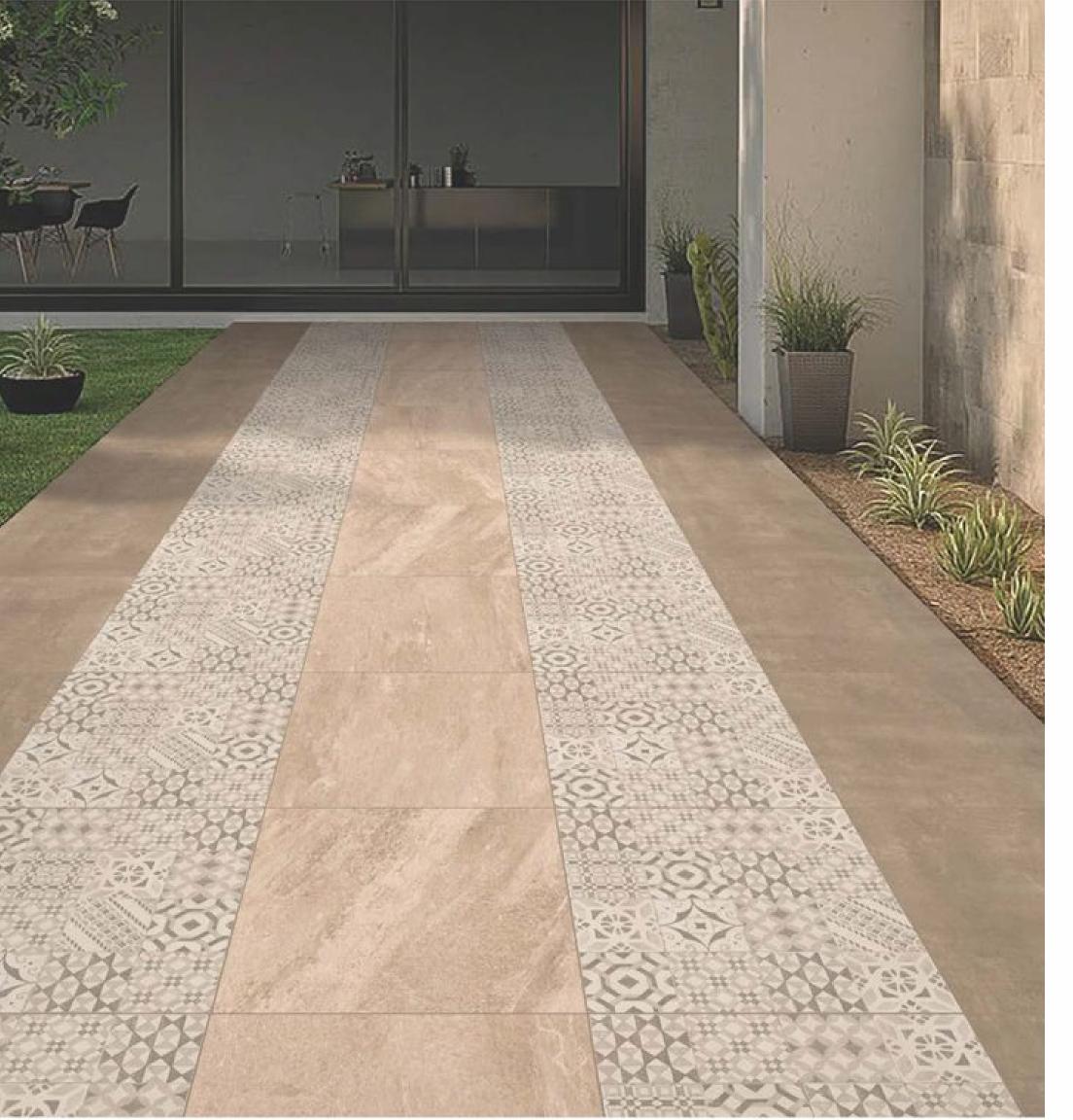


YOUR MIND
STAYS STILL



Tegel M















Tegel G

Tegel Decor 2

Tegel F



























### **UPGRADE YOUR** LUXURIOUS DESIRES





300x1200



Fire Wood Marron





### BUILD A MAGNETIC COMFORT ZONE







Softwood Miel





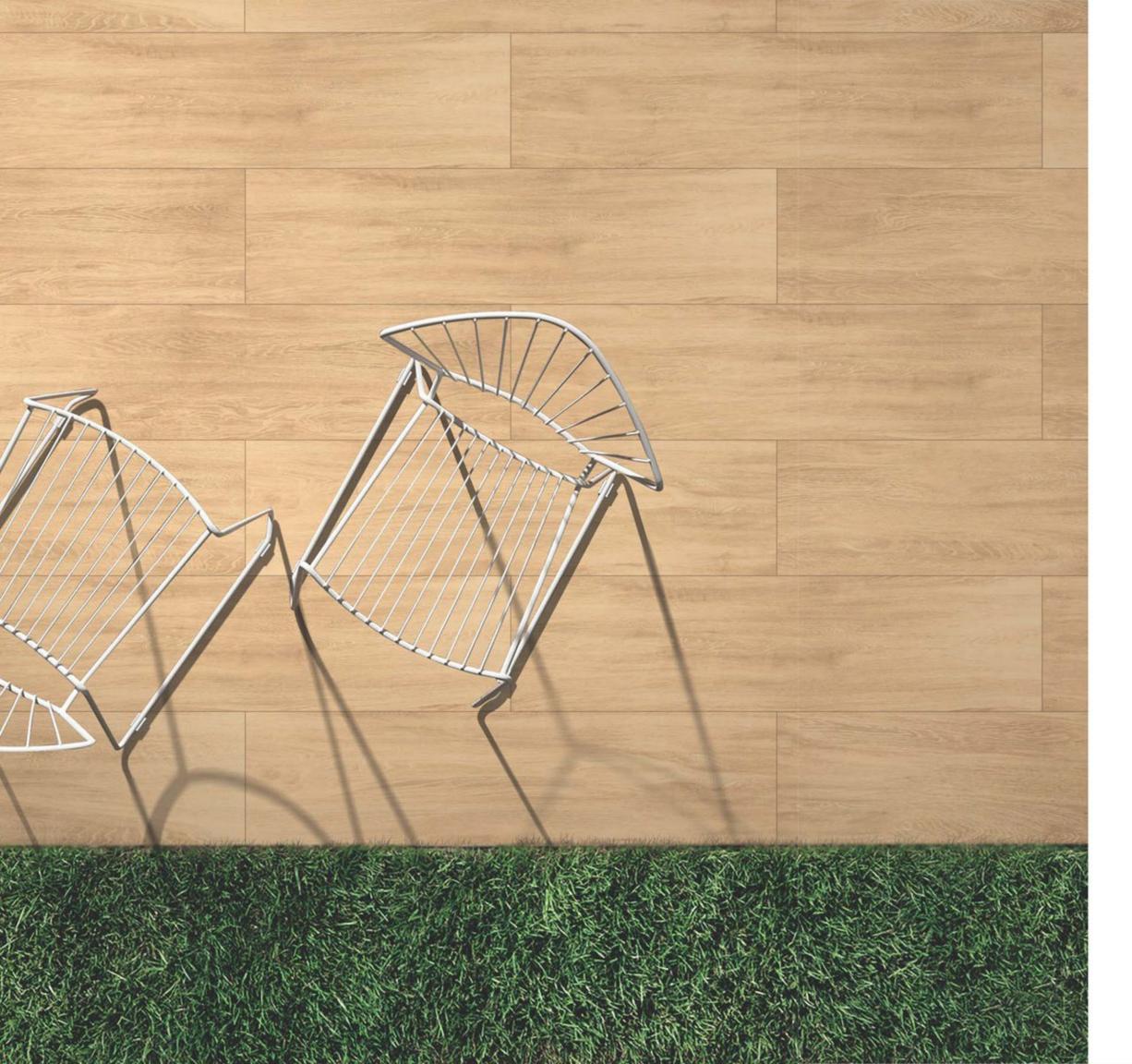
**ASTONISH** ALL WITH YOUR DECOR CHOICES







Softwood Perla





# MERGE\_ SIMPLICITY WITH\_ THE MAGNIFICENT



600x1200





Strom Wood Beige





### EXPLORE THE UNIQUE FLOORING CONCEPT







**Strom Wood Brown** 

# **MODULE SERVICE**

DIFFERENT SIZES, GREATER FREEDOM.
CUSTOMIZE YOUR PAVING. CHOOSE YOUR COLOR

Servizio Modulare. Formati Differenti, Grande Liberta. Personalizza Il Tuo Pavimento, Scegli Il Tuo Colore. Modulieren Bedienung. Verschiedene Grossen, Grossere Freiheit. Personalisieren Wahle Deine Farbe. Moduler Service. Differentes Tailles, Plus Grande Liberte. Personnalisez Votre Pave. Choisis Ta Couleur.

| <b>60x60</b><br>24"x24" |  |
|-------------------------|--|
| <b>30x60</b> 12*x24*    |  |
|                         |  |

Module 1\*

60x120 = 40% 60x60 = 20% 60x90 + 30x60 = 40%

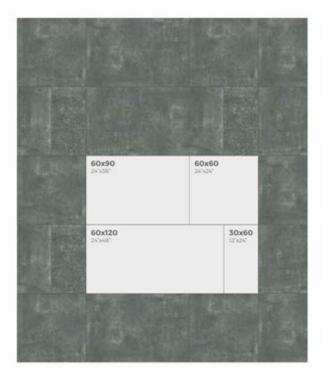
Available in all colors 60x120
Disponibile in tutti i colori 60x120
In allen Farben erhältlich 60X120
Disponible dans toutes les couleurs 60X120

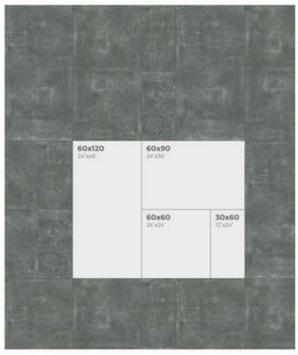
| <b>30x60</b><br>12*x24* | 60x60<br>24"x24"     |  |
|-------------------------|----------------------|--|
|                         | <b>30x60</b> 12"x24" |  |

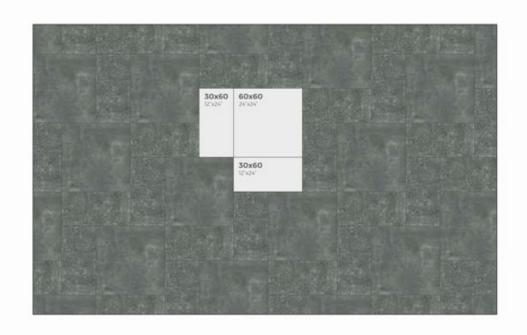
Module 2\*

60x60 = 50% 30x60 = 50%

Available in all colors 60x60 and 60x90
Disponibile in tutti i colori 60x60 e 60x90
In allen Farben erhältlich 60x60 und 60x90
Disponible dans toutes les couleurs 60x60
& 60x90





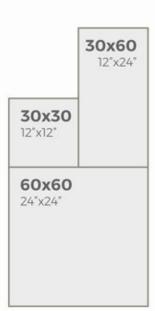


<sup>\*</sup>Available in 2/3 weeks. Disponibilità in 2/3 settimane. Verfügbar in 2/3 Wochen. Disponible dans 2/3 semaines.

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### Module 3\*

60x60 = 57% 30x30 = 14% 30x60 = 29%

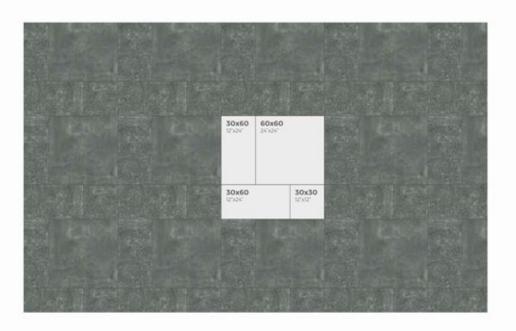
Available in all colors 60x60 & 60x90
Disponibile in tutti i colori 60x60 & 60x90
In allen Farben erhältlich 60x60 & 60x90
Disponible dans toutes les couleurs 60X60 & 60x90



### Module 4\*

60x60 = 44% 30x60 = 45% 30x30 = 11%

Available in all colors 60x60 and 60x90
Disponibile in tutti i colori 60x60 e 60x90
In allen Farben erhältlich 60x60 und 60x90
Disponible dans toutes les couleurs 60x60
& 60x90

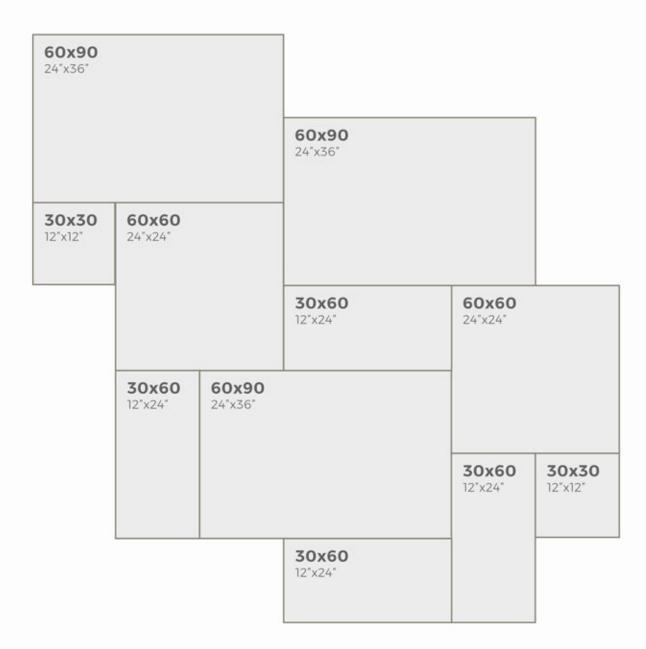


<sup>30</sup>x30 22x2x 40x60 2xx2x

<sup>\*</sup>Available in 2/3 weeks. Disponibilità in 2/3 settimane. Verfügbar in 2/3 Wochen. Disponible dans 2/3 semaines.

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<sup>\*</sup>Available in 2/3 weeks. Disponibilità in 2/3 settimane. Verfügbar in 2/3 Wochen. Disponible dans 2/3 semaines.

# DIFFERENT SIZES, GREATER FREEDOM. CUSTOMIZE YOUR PAVING. CHOOSE YOUR COLOR

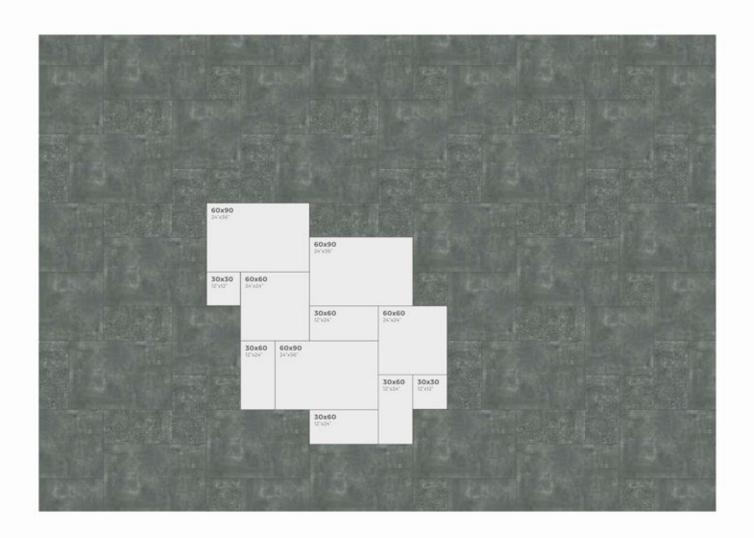
#### Module 5\*

90x60 = 56%

60x60 = 25%

30x60 = 13%

Available in all colors 60x90 & 60x120
Disponibile in tutti i colori 60x90 & 60x120
In allen Farben erhältlich 60x90 & 60x120
Disponible dans toutes les couleurs 60x90 & 60x120



# The 20 mm Thick stoneware collections are perfect for outdoor uses like for covering terraces, staircases, gardens, paths and driveways, as well as walls, steps etc.

It is thus possible to create continuity between indoor and outdoor floor coverings. 20mm stoneware tiles can be installed dryon gravel, grass, a raised floor and sand, or with adhesive on screed.

#### **DRY LAYING**

Put dry in support Trockene verlegung Durch Auflage Get in the heat right now



**GRASSY GROUND - Grass - Race - Grassy soil** 

To lay the paving, place the tiles in a steping stone arrangement. It is important to estimate the numbers of steping stone needed to complete the path, then arrange the tiles at an equal distance apart.



**GRAVEL - Ghiaia - Choose - Gravier** 

Lay the tiles on gravel to obtain an even surface with minimal joints of 5mm even on large areas, guaranteeing excellent rainwater run-off.

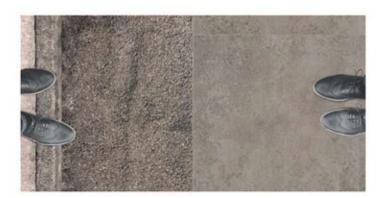


SAND - Sabbia - Sand - Sable

Keep the sand wet at the time of laying to get the perfect even surface.

### LAYING ON WET SAND WITH CEMENT

Put your fresh fresco with mixed cement ghiaia Verlegung auf nassen Sand mit Cement I put a bird gravel mixed honey



### TRADITIONAL WAY OF LAYING WITH ADHESIVE

CX1 is grey cement based polymer modified quick set tile adhesive. It gives excellent bond on cementitious surfaces like concrete and plaster. CX1 Adhesive forms a waterproof barrier between two surfaces and has excellent 'grab' properties.

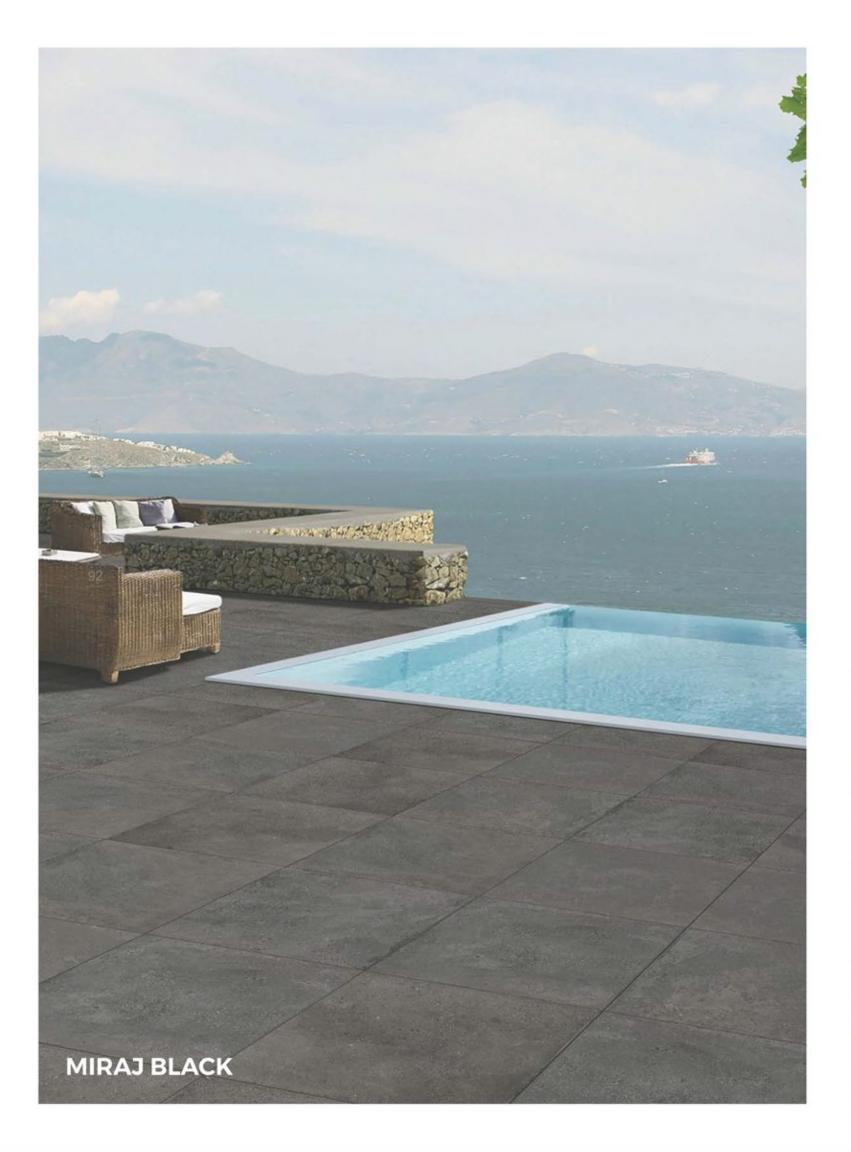


#### RAISED LAYING WITH SUPPORT

An extremely easy system to inspect that allows for the installation of a system of irrigation, pipes, cables and lighting below the floor. Slabs are repositionable to facilitate maintenance of the underlying items.







# SPECIAL PIECES PEZZI SPECIALI BESONDERE STÜCKE PIÈCES SPÉCIALES

# ALL COLORS AND DESIRED FORMATS ARE AVAILABLE UPON REQUEST

The special pieces are obtained from standard sizes available in the catalogue, with the condition of the maximum size of the same slab.

### DISPONIBILI A RICHIESTA IN TUTTI I COLORI E FORMATI DESIDERATI

I pezzi speciali vengono ricavati dalle misure delle lastre standard disponibili a catalogo con il vincolo della dimensione massima della stesssa lastra.

AUF ANFRAGE IST DIE ANFERTIGUNG VON ALLEN FARBEN UND FORMATEN AUS UNSERM KATALOG-SORTIMENT MÖGLICH Die Sonderanfertigungen werden aus der, in Katalog verfügbaren Standardgrößen,

# DISPONIBLE SUR TOUTES LES COULEURS ET LES TAILLES SOUHAITÉES

Les pièces spéciales seront obtenues à partir des dimensions standard disponibles dans le catalogue, à condition que les dimensions maximales de la même dalle soient respectées.







### **KERAMIK TUMBLED**

TUMBLED - FIEL



FOSSIL BLACK



FOSSIL BLACK





FOR
TUMBLED STONE
20x20cm

### STEP/COPING

GRADINO / COPERTINA - STUFE / ABDECKPLATT - MARCHE / COUVERTINE



FOSSIL BLACK FOSSIL GRAY

### **BLOCK STEP**

GRADONE - BLOCKSTUFE - MARCHE BLOC



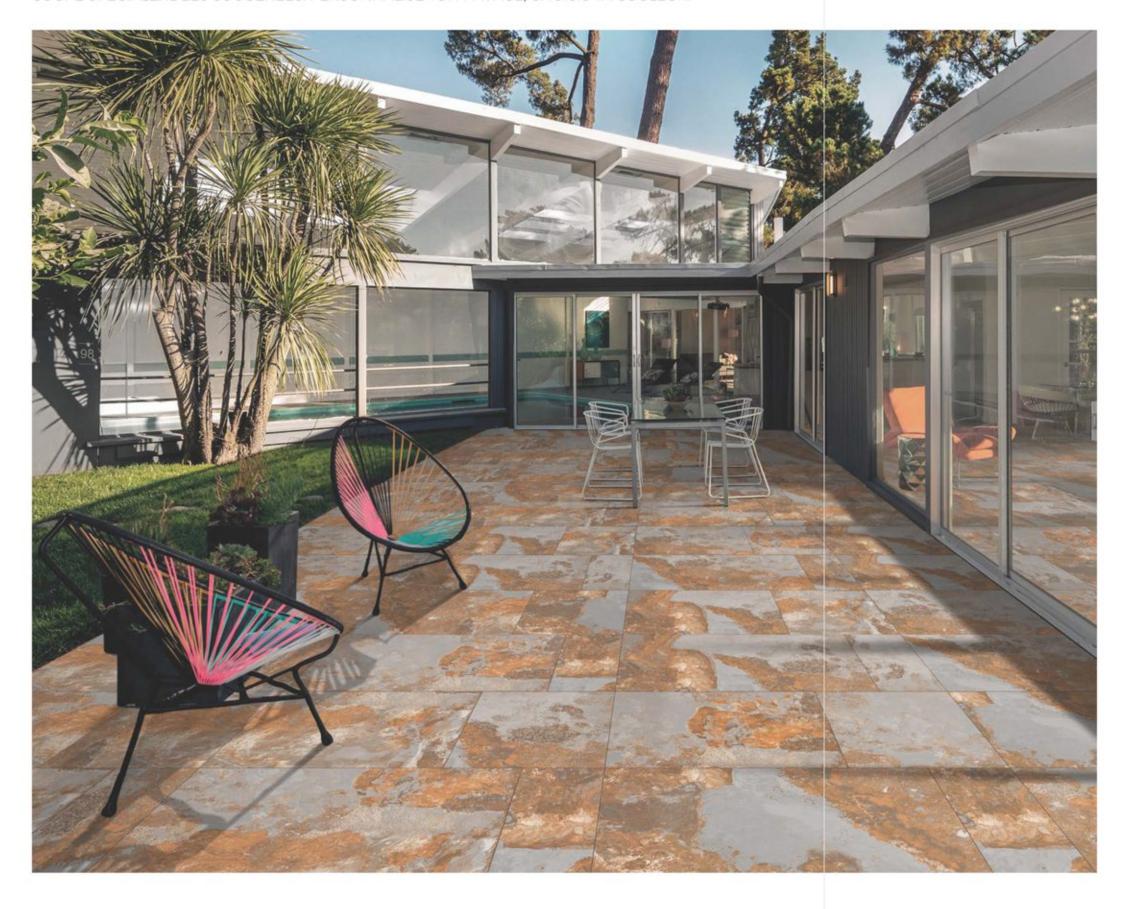
### STEP WITH BULLNOSE

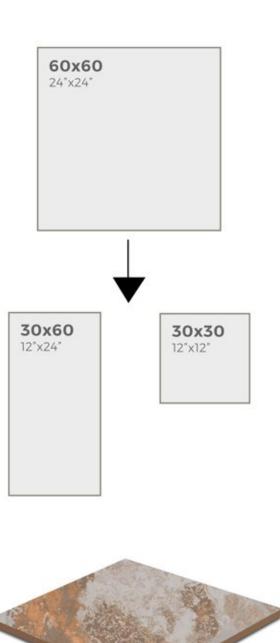
GRADINO / BORDO TORO - STUFE MIT RUNDER KANTE - MARCHE AVEC NEZ VU ARRONDI



# SPECIAL CUTS SUGGESTED IDEAS CUSTOMIZE YOUR PAVING, CHOOSE YOUR COLOR

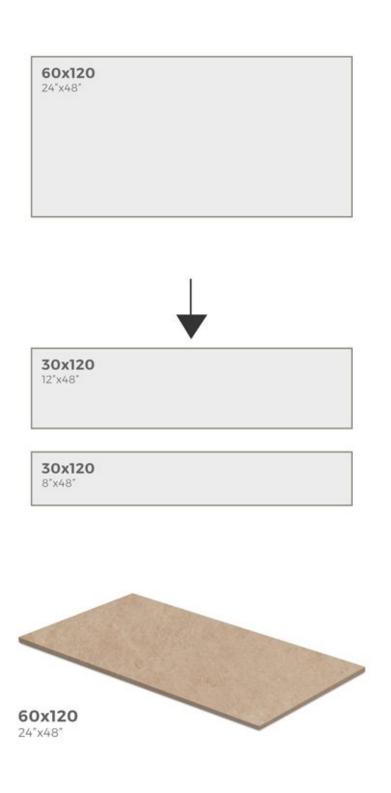
SPECIAL CUTS. SUGGESTED IDEAS. CUSTOMIZE YOUR FLOOR, CHOOSE YOUR COLOR. SPEZIALSCHNITT. VORGESCHLAGENE IDEEN. PASSEN SIE IHRE PFLASTERUNG AN, WÄHLEN SIE IHRE FARBE. COUPE SPÉCIALE. IDÉES SUGGÉRÉES. PERSONNALISE TON PAVAGE, CHOISIS TA COULEUR.





Available in all colors 60x60 Disponibile in tutti i colori 60x60 In allen Farben erhältlich 60x60 Disponible dans toutes les couleurs 60x60

60x60 24"x24"

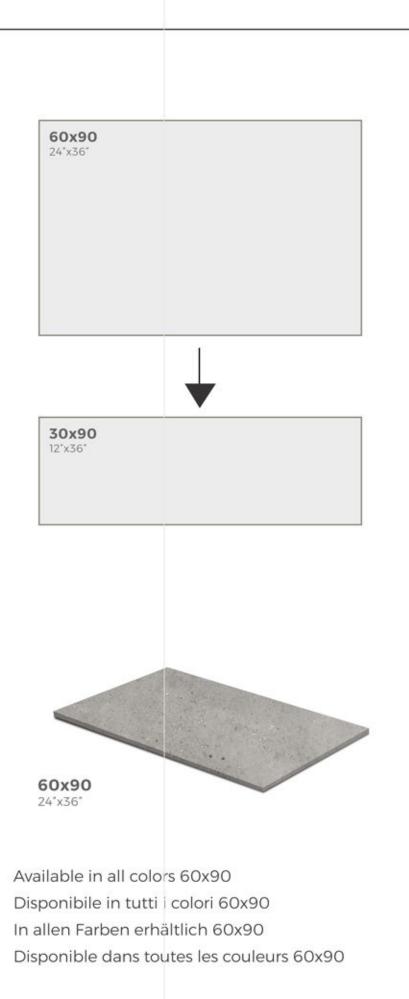


Available in all colors 60x120

Disponibile in tutti i colori 60x120

In allen Farben erhältlich 60x120

Disponible dans toutes les couleurs 60x120





# Recommendations on installation of ceramic products\_\_\_\_\_

### **Installation Technique**

The adhesion, considered as the strength of the union between the ceramic piece and the support, plays an important role in the quality of the ceramic tile. A good adhesion must ensure a firm hold of new ceramic materials with low porosity, resistance to abrasion, to ice, large formats, as well as the assembly or installation of these in industries, large commercial areas, facades, etc., make Adhesive products are developed.

The knowledge acquired about the use of special adhesives, make the process of placement in thick layer (mechanical adhesion) is replaced by a system of placement with thin layer (chemical adhesion) that offers clear advantages, especially related to the quality of the work both in terms of adhesion and hardness. So a suitable adhesive will be chosen depending on the surface of the placement and the type of the ceramic tile.

It is very important that in the placement of the ceramic tile the tools and suitable tools are used (notched trowel, white rubber mallet, spirit level and suction cup). We must also consider important that the support or base of placement must be very clean of any stain rest of plaster, paint, etc. so that the adherence can perform its functions over time.

### **Installation Technique Movement Joints**

To execute a correct installation of the ceramic product, itis necessary to always respect the movement joints: structural, perimeter, dilation and placement.

### **The Structural Joints:**

They must always be respected as detailed in the project, fixed by the specialized engineer or architect.

### **Perimeter Joints:**

They must be continuous and their width must not be less than 8 mm. Its mission is to isolate the ceramic pavement from other coated surfaces such as wall-floor encounters (they are hidden by placing the skirting board), pillars, doors.

Omitting the perimeter joints is one of the most frequent causes of the lifting of the ceramic tile.



### **The Partition Boards:**

We will allow the existing deformations caused by the thermal variations between the tiles, the layer and the support. The large support surfaces covered with ceramic product must be subdivided into smaller ones, delimited by partition joints, whose function is to prevent accumulation of dilatations and contractions. In floors that are going to be subjected to intense pedestrian traffic, rolling with hard wheels or dragging heavy loads, it is necessary to use specific partition joints and suitable for heavy loads.

### **Installation Joints:**

For safety to any structural movement (dilation - contraction), it is always necessary to place the separation joint, which will be left between all the adjacent ceramic tiles.

It is recommended not to do the placement with separation less than 2/3 mm. The advantages of the placement joints are several, they contribute to absorb the deformations produced by the support and moderate the stresses that are generated in its lower part when subjected to load. The accumulated tensions can produce the lifting of the tiles. They also have an important aesthetic function, enhancing the beauty of ceramics. The joints can receive a flat finish, flush with the tiles, or recessed concave. Its field of application is that of interior and exterior coatings.

Low-porosity, deformable and water-resistant joint sealants are also found. It is suitable for facades, pavements subjected to heavy traffic and premises with persistent presence of water. For premises that are frequently subject to the presence of acids and alkalis in premises for food or sanitary use, it is necessary to use base sealants; reactive resins of two components such as epoxy sealants. This type of grouting material is characterized by its composition based on synthetic resins (usually epoxy resin). Its main properties are: resistance to chemical products, bacteriological resistance, very good resistance to moisture and excellent resistance to abrasion.

The minimum separation between the product must not be less than 2-3 mm for interiors and 3-5 for exteriors.

Classification of sealants according to EN138888 standard.

#### CONCRETE BASED CEMENT SEALERS Cg2

Optional ARW (high resistance to abrasion and low water absorption).

### SEALANTS BASED ON REACTIVE RESINS RG

Generally of two components, epoxy based, resistant to chemical products, they are completely waterproof and of high resistance to compression.

Do not use placement joints whose composition contains micronized *carbon* (black smoke), should always be avoided.

### **CLEANING TIPS**

The following table lists the cleaning products best suited to each type of stain. To conserve more time the properties and the beauty of the porcelain stoneware / polished and semi-polished it is necessary the placement of carpets / mats at the entrances to the paved places; The mat retains the minerals that may remain stuck in the shoe sole.

| Typeofstain  | Cleaningagent  |  |
|--|--|--|
| Cement and calcareous residues   | Cleaning products based on descaling acids               |  |
| Oxide deposits   | Descaling  |  |
| Oils   | Universal solvent, turpentine, acetone, alcohol          |  |
| Fat  | Ammonia, universal solvent, turpentine, acetone, alcohol |  |
| Tar or bitumen   | Universal solvent, turpentine, acetone, alcohol          |  |
| Painting   | Universal solvent, turpentine, acetone, alcohol          |  |
| Rubber or rubber   | Universal solvent, turpentine, acetone, alcohol          |  |
| Beer or wine   | Ammonia, descaler  |  |
| lodo   | Dilute bleach  |  |
| Blood  | Dilute bleach  |  |
| Coffee, tea or juice   | Universal solvent, turpentine, acetone, alcohol          |  |
| Ink or mercromine  | Universal solvent, turpentine, acetone, alcohol          |  |
| Nicotine Universal solvent, turpentine, acetone, alcoho peroxide, diluted bleach |  |  |





### **ENVIRONMENTAL STEWARDSHIP**

VITRIFIED TILES is a standard-bearer for eco-sustainable industry and has helped to make ceramic tile production a closed-cycle process. Throughout the entire process, has developed a system for the collection and reuse of reject output, process wastewater and the raw materials it contains, and the heat generated in a number of phases. Environmental quality criteria are applied to the entire manufacturing cycle, limiting consumption of natural resources and environmental impact, through the restoration of quarries' landscape and vegetation, controlled waste management, the optimization of energy consumption and the recycling of industrial wastewater.

The safety of the staff who work in the plants is another absolute priority: we performs constant checks on occupational health and safety levels, making any technical and organizational changes required, including through direct involvement of its employees, to whom the company offers continuous educational and training courses to guarantee compliance with the set safety and environmental standards.

"The Earth is what we all have in common." — Wendell Berry

"We share this planet, our home, with millions of species. Justice and sustainability both demand that we do not use more resources than we need." — Vandana Shiva

"Nature is painting for us, day after day, pictures of infinite beauty." — John Ruskin

"The proper use of science is not to conquer nature but to live in it." -Barry Commoner

'In our every deliberation, we must consider the impact of our decisions on the next seven generations." -Iroquois maxim

# HIGH PERFORMANCES, PRACTICAL AND FUNCTIONAL



UNIFORM APPEARANCE Aspetto uniforme Gleichmäßiges Aussehen Aspect uniforme



MEDIUM COLOR VARIATION Media variazione cromatica Mittlere Farbunterschiede Variation chromatique moyenne



LIGHT COLOR VARIATION Bassa variazione cromatica Geringe Farbunterschiede Variation chromatique basse



HIGH COLOR VARIATION Alta variazione cromatica Starke Farbunterschiede Variation chromatique haute



RECTIFIED WITH BEVEL Rettificato con smusso Richtig mit Abschrägung Rectifié avec biseauter



NATURAL CURBS Natürliche Ränder Bords naturels Bordi naturali



HOMOGENEOUS MIXTURE THROUGHOUT ALL PLATE MASS Impasto omogeneo in tutta la massa della piastra Einheitliche Mischung in der gesamten Steinmasse Gâchage homogène dans toute la masse de la plaque



COLORED MIXTURE TO INTEGRATE WITH SURFACE COLOR Impasto colorato per integrarsi al colore della superficie Eingefärbte Mischung zur Integration mit der Oberflächenfarbe Gâchage coloré pour s'assortir à la couleur de la surface



GUARANTEED ANTI-SLIP R10 Garanzia antiscivolo R10 Rutschbeständigkeitsgewähr R10 Antidérapant garanti R10



GUARANTEED ANTI-SLIP R11 Garanzia antiscivolo R11 Rutschbeständigkeitsgewähr R11 Antidérapant garanti R11

#### COLOR WARNING

Color shades shown in this catalog are merely indicative because the printed output undergoes significant changes compared to the original color.

The color shade of the slab can vary between different sizes of the same color.

#### LAYING ADVICE

It is advisable to create the appropriate transverse and longitudinal gradients during levelling or compacting, in order to ensure optimal drainage of the floor. We recommend the incorporation of a drainage substrate in order to facilitate runoff and prevent water pooling. It is also advisable to lay the slabs with a minimum joint of 3mm.

Given the frost resistance of porcelain stoneware, the L'Altra Pietra series offer a water absorption value closed to zero. This property could lead to localised pooling of water on the floor, even if the slabs are laid properly.

### **TECHNICAL SPECIFICATION**

| Sr.No      | CHARACTERISTICS             | STANDARD AS PER IS<br>15622:2006 GROUP BIA | MEAN VALUE OF<br>VITRIFIED TILES |
|------------|-----------------------------|--|----------------------------------|
| Regulatory | Properties                  |  |                                  |
| 1          | Deviation in Length & Width | ±0.5%                                      | ±0.1%                            |
| 2          | Deviation in Thickness      | ±5.0%                                      | ±3.0%                            |
| 3          | Straightness of Sides       | ±0.5%                                      | ±0.1%                            |
| 4          | Rectrangularity             | ±0.5%                                      | ±0.1%                            |
| 5          | Surface Flatness            | ±0.5%                                      | ±0.2%                            |
| 6          | Glossiness                  | As per mfg.                                | Matt surface                     |
| Structural | Properties                  |  |                                  |
| 7          | Water Absorption            | <0.5%                                      | ≤0.10%                           |
| 8          | Apparent Density            | >2.0 g/cc                                  | >2.10 g/cc                       |
| Massive M  | echanical Properties        |  |                                  |
| 9          | Modulus Rupture             | Min. 35 N/mm²                              | Min. 40 N/mm²                    |
| 10         | Impact Resistance           | As per mfg.                                | Min. 0.55                        |
| Surface Me | echanical Properties        | · · · · · · · · · · · · · · · · · · ·      |                                  |
| 11         | Surface abrasion resistance | As per mfg.                                | Min. Class 5                     |
| 12         | MOH's Hardness              | As per mfg.                                | Min. 5                           |
| Thermo Hy  | drometric Properties        |  |                                  |
| 13         | Frost Resistance            | No Damage                                  | No Damage                        |
| 14         | Thermal Shock Resistance    | No Damage                                  | No Damage                        |
| 15         | Moisture Expansion          | Nil  | Nil                              |
| 16         | Crazing Resistance          | No Damage                                  | Min. 10 Cycle                    |
| Chemical F | Properties                  |  |                                  |
| 17         | Chemical Resistance         | No Damage                                  | No Damage                        |
| 18         | Stain Resistance            | Resistance                                 | Resistance                       |
| Safety Pro | perties                     |  |                                  |
| 19         | Anti Skid (COF)             | As per mfg.                                | Matt < 0.75                      |
| 20         | Fire Resistance             | As per mfg.                                | Fire Proof                       |



1203, RK WORLD TOWER, NR, 150 FEET RING RD SHEETAL PARK, SHASTRI NAGAR, DHARAM NAGAR SOCIETY, RAJKOT, GUJARAT 360006, INDIA

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