



BELTRAMI

Brachot Family Member

OUTDOOR GUIDE



Enjoying the outdoors year after year

For over thirty years, Beltrami has been offering the latest trends in natural stone and porcelain tiles for indoors and outdoors. Our eye for quality and innovation always ensures unique materials, exceptional applications, remarkable finishes and surprising dimensions.

As a Brachot Family Member, Beltrami can draw on more than 120 years of experience and expertise in natural stone and blended materials like porcelain. Brachot is a global player with an international network of own quarries, suppliers and production sites. This considerably expands your options, also for tiles for patios, driveways, garden paths, outdoor finishings (such as pool copings, stair and block steps) and façade and wall cladding.

This outdoor guide aims to inspire you with our range of tiles for outdoor natural stone and porcelain applications, with matching finishes for a harmonious complete look. Regardless of whether our tiles are used in a country or modern garden, they will always help you to shape the mood of your outdoor environment.

The useful tips scattered throughout this guide will inform you of the many possibilities. If you would like to view our tiles in person, do not hesitate to make an appointment for a visit to our showroom in Harelbeke (Belgium), which also has a landscaped garden outdoor show area. You will get to experience all our materials in their exact shades, applications and finishes in their full glory. Our experts will guide you through your visit with specific advice for your garden or project.

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NATURAL STONE

INCREASINGLY BEAUTIFUL AS TIME GOES BY

Natural stone has an authentic feel. It is a high-quality, sustainable material that feels alive, growing in beauty as time goes by. A patio, facade or driveway in natural stone will develop a charming patina and age beautifully.

Simyra - Brossato

Natural beauty

Natural stone. The term itself says it all: this durable material is shaped by the forces of nature and guarantees pure character and a unique appearance.

Unlimited possibilities

Natural stone has been an inexhaustible source of creative inspiration since time immemorial. It inspires us as well. The choice of formats, colours, materials and finishes is almost unlimited, whatever it is used for, from driveways and patios, footpaths and accent walls to unique façades and pool edgings.

Keda Mix - Natural Cleft



Pietra Bicci - Sensato

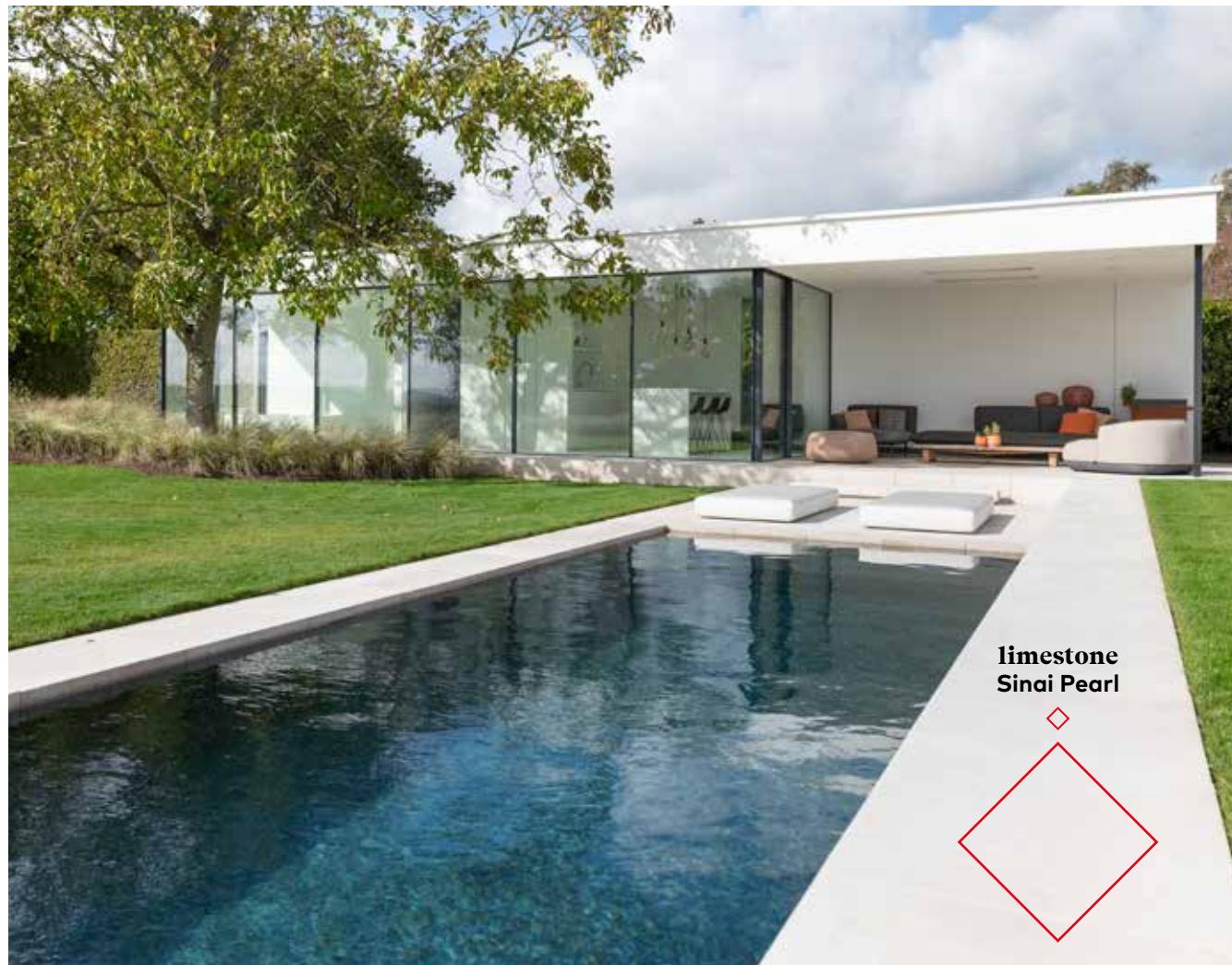


Choice for a lifetime

The sustainability of natural stone is also reflected in the many years of guaranteed pleasure it offers. Your home and project will gain considerable value that will benefit you. In addition to that, natural stone is 100% natural, formed by natural processes over millions of years. There is little or no formation of CO².

Simplicity is a virtue

Maintaining a patio, driveway or façade in natural stone is effortless. The approach should be to live and let live. A heavy shower can do wonders! However, if you would wish to give your terrace a major spring clean after the winter months, we recommend doing so with Lithofin Outdoor Cleaner.



**limestone
Sinai Pearl**

Outdoor oasis of uniformity and peace

Now more than ever, we all consider our garden and outdoor environment as an oasis of peace. A harmonised design coordinating everything from patio tiles to garden paths and pool copings can help us to create such a perfect haven. That is why Beltrami has significantly expanded its range of exterior finishes in various materials.

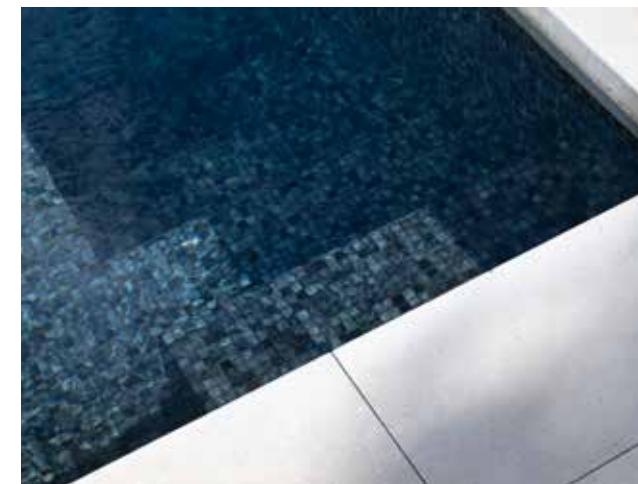
We introduced a new type of pool copings (Type 4, see page 76) and our other types are now also available in additional materials and finishes. Some types of copings will give your pool a sleeker look, whereas others will create a more traditional one.

Beltrami also offers a wide range of exterior finishes. This enables you the choice to have your pool copings, steps, and palisades all in the same material as your patio. Creating an overall effect of perfect harmony throughout your garden or project.

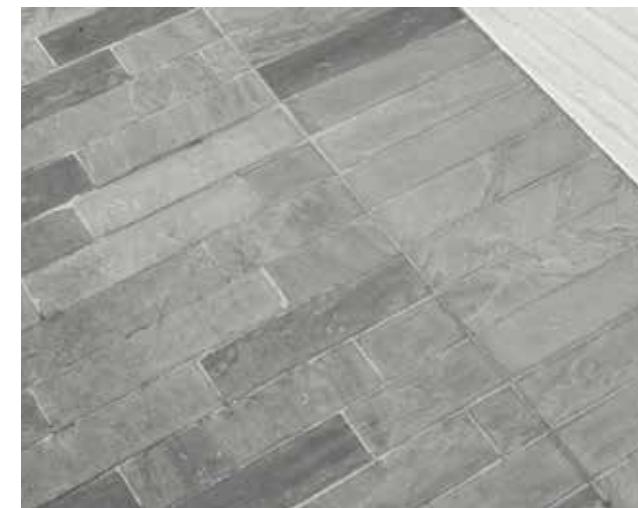
New – Paving bricks!

New to the outdoor range are our paving bricks. These playful, narrow, rectangular tiles in natural stone are now available in new dimensions and materials to help you shape your garden path or driveway.

Sinai Pearl - Sensato



Kandla Grey - Paving bricks



GLOSSARY

FINISHING	EFFECT
Antico	Original, in-house finish of our own that gives the natural stone an aged effect as if the tile has already been used intensively for many years.
Anzano	Semi-rough finish that makes the surface feel somewhat coarse yet matt. Gives the surface a unique feel all of its own.
Aquaflamed	A very robust finish that accentuates the intense, natural colour of the natural stone.
Arenado	Our own finishing process that gives the surface a rough, finely grained look and feel.
Bouchardino	This finish lends the natural stone a fine, bush hammered surface with uneven irregularities. This brings out extra colour accents and nuances in the stone. It is smooth to the touch, with an anti-slip effect.
Brossato	This finish softens the natural roughness of the natural stone, emphasising its intense colours. Pleasant to touch or walk on.
Bush hammered	Working the surface with a pointed hammer creates uneven irregularities in the structure of the tile. Feels rather rough, with an anti-slip effect.
Cleft	The robust, cleft surface has large splinters and hollows in all shapes and sizes, irregularly distributed over the surface. Ideally suited to street paving, driveways and façade cladding.
Flamewashed	A rather solid finish, which highlights the intense, natural colors of the natural stone.
Diamond scoured	Scouring removes irregularities in height or unevenness on the surface. The scouring material is made of grains of industrial diamond that are exceptionally hard and extremely sharp.
Dark hand honed	Scouring the surface lends the natural stone a deep, dark tint. Light colour nuances give the tile a warm, contemporary appearance.
Flamed	The temperature shock after flaming the tile leads to natural cracking on the surface. This gives the natural stone a rough texture. Ideal for outdoor applications thanks to its anti-slip properties.
Hand honed	Scouring the natural stone considerably reduces the traces of sawing. The result is an even surface.

FINISHING	EFFECT
Heritage	The natural ageing process is perfectly imitated with this special finish.
Natural cleft	The untreated, rough surface of certain natural stone types gives attractive results.
Old fine chisel	Based on the well-known, pure craft form. Often used for flagstones and facade cladding. The parallel lines on the surface are typical of this finish.
Sabbiatino	In-house finish that creates a special, pleasant feeling to the touch. Small irregularities in the surface are typical of this finish.
Sawn - diamond cut	Pure, untreated finish for the slab or tile the way it looks after the natural stone block has been sawn. The type of saw determines whether parallel grooves or circular marks can be seen.
Sensato	A mechanical treatment gives the natural stone a soft structure with a pleasurable feel.
Stonewashed	An aged appearance with an idiosyncratic, contemporary touch. Exclusively for Kilkenny Limestone.



kilkenny limestone

Irish authenticity & versatility

Choose Kilkenny Limestone to bring a sustainable, high-quality and authentic blue stone from the Irish countryside into your home. The stone is mined from our own quarries in Kilkenny.

Since it is natural stone from our own quarries, we control the entire process, from extraction to production (sawing and processing) to distribution. Kilkenny Limestone is available as standard in stonewashed, flamewashed, cleft, hand honed and flamed finishes. Other finishes are always possible on request.

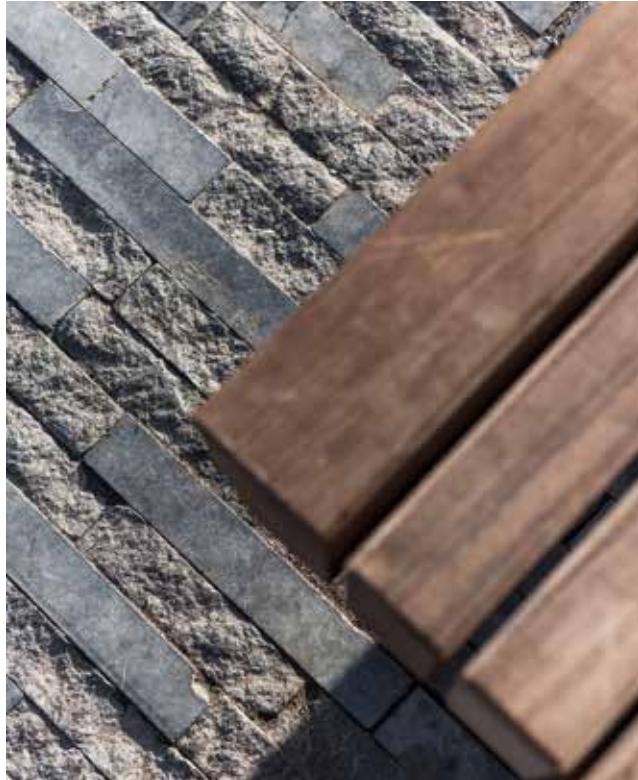
The versatility of Kilkenny Limestone is revealed in countless applications: patios, façades, driveways and paving. Indoors, it can also be used as a wall or floor covering or for other interior finishes. With its blue-grey tint, Kilkenny Limestone integrates perfectly into the most wide range of interior and building styles.

Kilkenny Limestone - Flamewashed



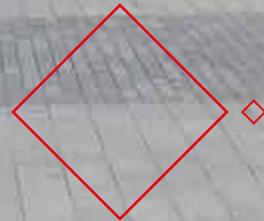
Kilkenny Limestone - Dry Blue Hand Honed (on request)

Kilkenny Limestone - Mix



Kilkenny Limestone - Stonewashed



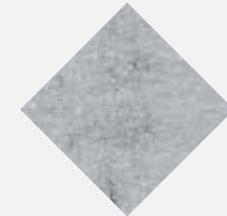


kilkenny limestone
Cleft,
Bush hammered,
Sawn and Flamed

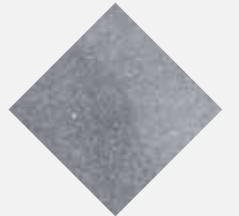
Kilkenny Limestone - Hand Honed



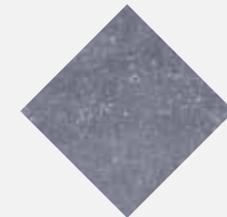
Kilkenny Limestone - Flamed



Hand Honed



Flamewashed



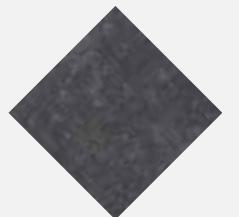
Stonewashed



Cleft



Mix



Flamed

Other finishes are also available on request.



For more information about dimensions, applications, maintenance and installation, visit www.beltrami.eu.



belgian blue stone

Choose charm and tradition

A traditional and widely used natural stone for exteriors is Belgian Blue Stone. This blue stone is a firm favourite that guarantees sustainability, charm and tradition.

The applications of Belgian Belgian Bluestone are almost unlimited. Think driveways, patios, porches, doorsteps, decorative elements and many more outdoors. Or floor and wall coverings, kitchen worktops and fireplace mantelpieces indoors. Thanks to our strong partnership with the Belgian quarry Carrières du Hainaut, Beltrami is always up to date with the latest finishes, formats and applications.

Belgian Blue Stone - Enoskin





b tip

Parking areas and driveways in Klinkstone combine the advantages of two materials in one. The enduring quality of Belgian Blue Stone and the timeless charm of classic brick, complete with playful and surprising laying patterns.

b tip

In order to achieve a beautiful and unified whole, a terrace can be implemented in blue stone with large-format stepping stones in the same style and finishing.



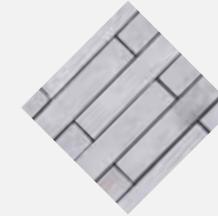
Belgian Blue Stone - Diamond cut

Belgian Blue Stone - Henegouwen Antic

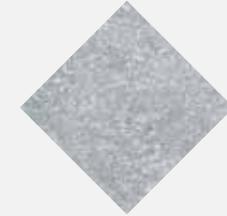


Belgian Blue Stone - Enostyl Light

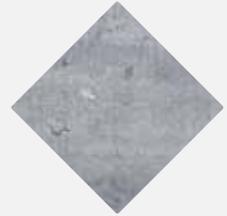




Enopure



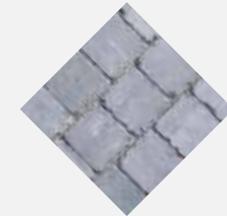
Enostyl Light



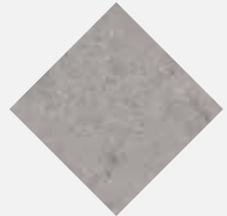
Diamond Cut



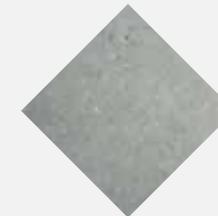
Klinkstone



Henegouwen Antic



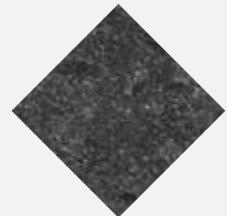
Enoskin



Hand Honed



Blue Flamed



Enoluce



For more information about dimensions, applications, maintenance and installation, visit www.beltrami.eu.

◇ granite

Sleek, solid class

Hardened at great depths, cooled slowly and compressed for millions of years: it has taken a long time for granite to form. This makes it an extremely hard material that is exceptionally resistant to scratching and wear. It is no coincidence that granite is often chosen for façades, squares, patios and driveways.

Granite radiates simplicity and style whatever it is used for: corner pieces, pool copings, steps, patio tiles etc. Shades of light to dark grey contribute to its sleek appearance. However granite is also available in other colours. Ease of maintenance is an added attractive benefit.

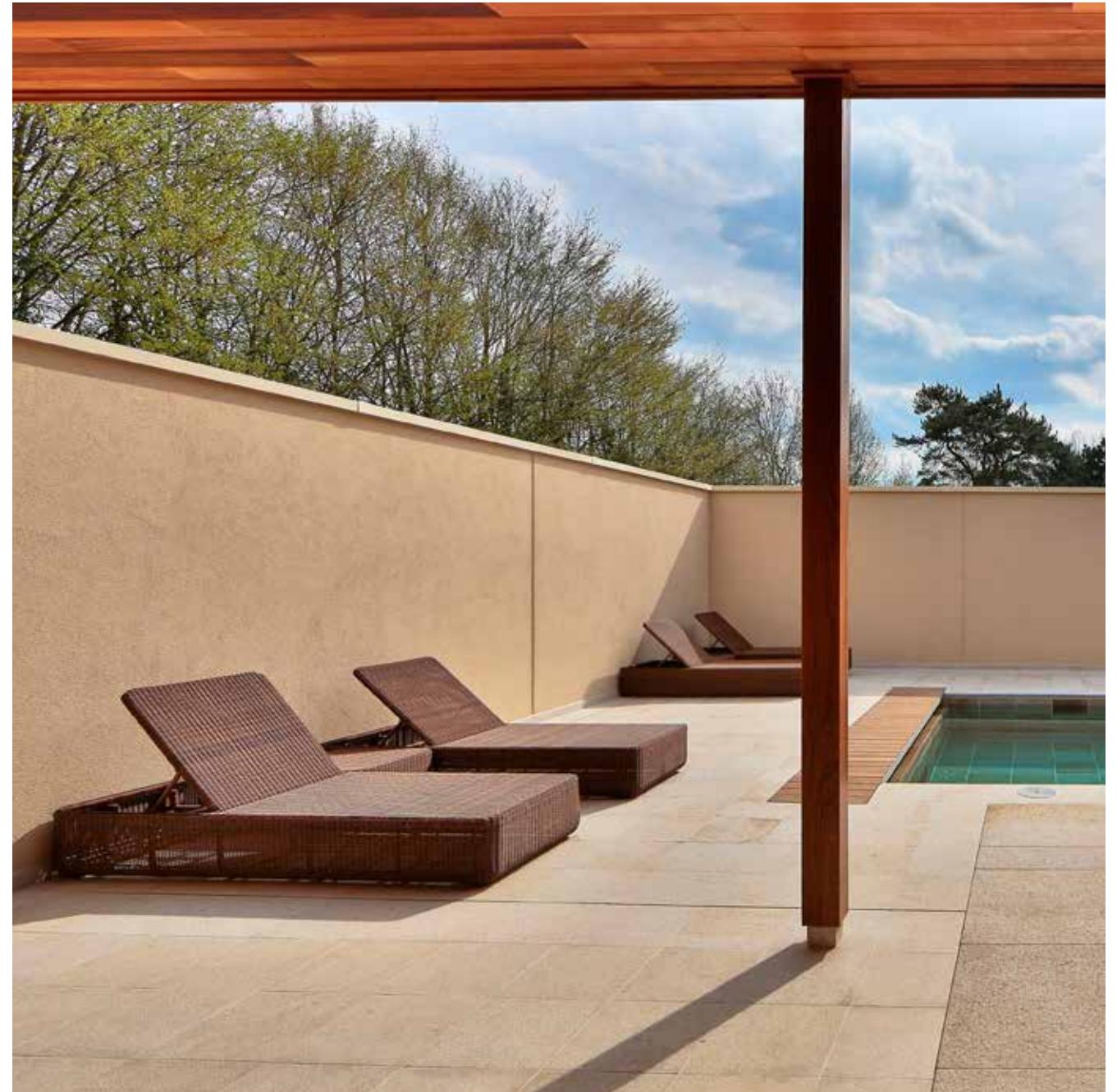
Pepperino Dark - Old Fine Chisel (façade)



Diorite Dark - Flamed



Yellow Rock / Sunrise - Flamed and Bush Hammered





granite
Pepperino Dark



Tarn - Flamed



Granja - Cleft

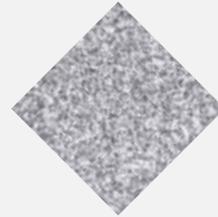


b tip

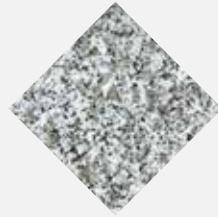
Natural stone also lends itself perfectly for installation on pedestals. Ideal for installing a roof terrace without damaging the roof's waterproofing system. This is a light structure with which the tiles are supported on the 4 corners. Easy draining, installing and levelling are additional advantages of this working method. Also ideal for laying a traditional terrace on an uneven substrate.



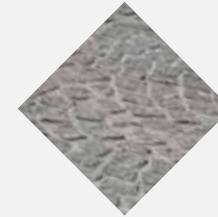
 **imperial dark
Aquaflamed**



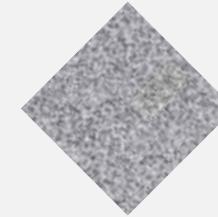
Blanc Perlé
Flamed



Tarn
Flamed



Granja
Cleft



Talila Grey
Flamed



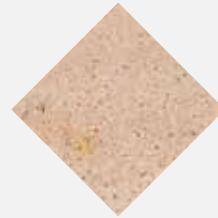
Pepperino Dark
Old Fine Chisel



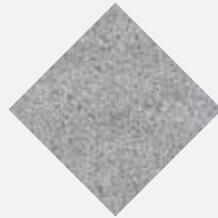
Pepperino Dark
Anzano



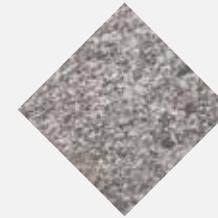
New Twilight
Flamed-Brushed



Yellow Rock/Sunrise
Flamed



Diorite Dark
Flamed



Steel Grey
Flamed



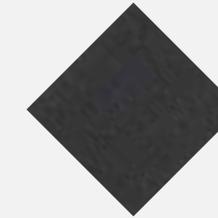
Pepperino Dark
Flamed



Pepperino Dark
Cleft



Black-I Extra
Anzano



Black-I Extra
Flamed



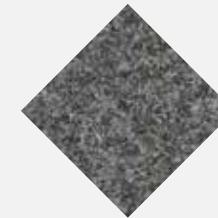
Yellow Rock/Sunrise
Bush Hammered



Labrador Antique
Flamed



Imperial Dark
Aquaflamed



Nari Black
Flamed



Ming Black
Aquaflamed



For more information about dimensions,
applications, maintenance and
installation, visit www.beltrami.eu.

◆ basalt

An everlasting classic

Basalt is a volcanic stone made of hardened lava, which gives the stone its primarily grey colour. Like granite, it is a very hard material. The colour and structure of basalt is an excellent complement to modern, minimalist styles of living.

Basalt has been used for centuries as paving because of its great durability. It is also suitable for driveways, patios and façade claddings.

Vinabasalt - Natural Cleft





Vinabasalt
Natural Cleft

 For more information about dimensions, applications, maintenance and installation, visit www.beltrami.eu.

◇ limestone

Sunshine in the rain

Limestone is a sedimentary stone that often contains fossils. It comes in various colours including cream, brownish grey and even dark grey. Limestone exists in two varieties: soft, porous white stone or the hard variety. French white stone is the most famous. It is often used as a patio tile in dry, sunny climates.

The harder version is perfect for our Western climate. It is also used indoors as a floor or interior finish with a warm, southern touch. Limestone is available in many formats and finishes. It is a popular material that is easy to maintain.

Muschelkalk - Arenado (on request)



Sinai Pearl - Sensato



Raja Black - Natural Cleft



Noce - Arenado



Simyra - Brossato



b tip

Interior and exterior spaces look larger and more restful when the same natural stone is used both in and around the home. This guarantees a successful architectural whole where unity and harmony preside.



**limestone
Pietra Bicci**

Jinin Stone - Natural Cleft (crust) (on request)

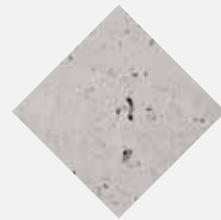


Tandur Grey - Natural Cleft





Noce
Diamond Cut



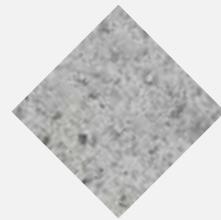
Noce
Arenado



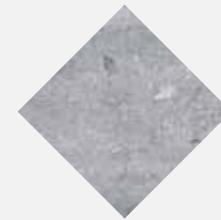
Vieux Bleue Belge
Versailles



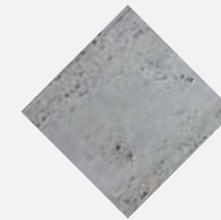
Muschelkalk Mooser
Arenado



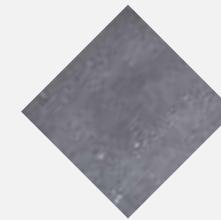
Breccia Verde
Flamed-Brushed



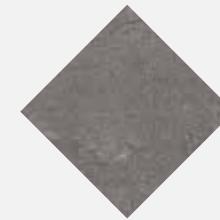
Asian Blue
Tumbled



Travertin Classic Beige
Arenado



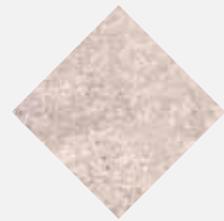
Asian Blue
Antico



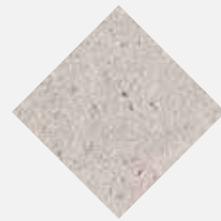
Tandur Grey
Natural Cleft



Tandur Grey
Heritage



Muschelkalk
Sensato



Sinai Pearl
Sensato



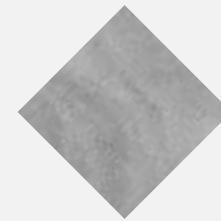
Simyra
Brossato



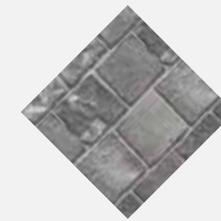
Sinai Pearl
Sabbiatino



Travertin Classic Beige
Antico



Vinh Blue
Hand Honed



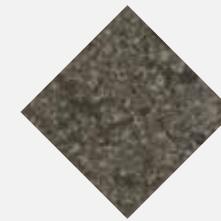
Raja Black
Natural Cleft



Muschelkalk
Antico



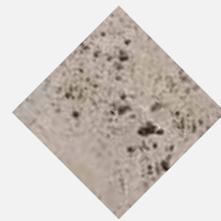
Muschelkalk Eibelstadter
Sensato



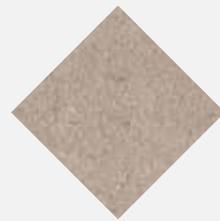
Muschelkalk
Brossato



Simyra
Antico



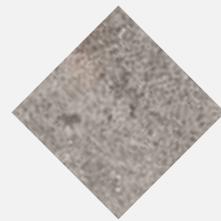
Pietra Bicci
Sensato



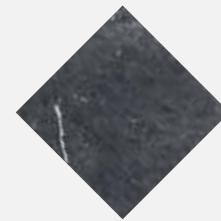
Sinai Pearl
Bouchardino



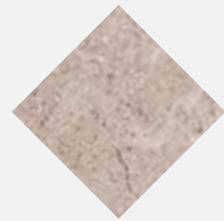
San Pietro
Arenado



Jinin Stone
Anzano



Asian Blue
Dark Honed



Sinai Pearl
Antico



Pietra Di San Lorenzo
Sensato



Muschelkalk Eibelstadter
Antico



Tandur Yellow
Heritage



Tandur Yellow
Natural Cleft



For more information about dimensions, applications, maintenance and installation, visit www.beltrami.eu.

◇ sandstone

Rough, soft and summery

Sandstone offers the perfect combination of a rough texture and a soft, warm colour. The stone can be used almost universally, and is an excellent choice for patios, driveways and paving, whether you want a rustic look in a country setting or a high-quality visual asset for a modern home.

The colours of sandstone vary from soft grey and blue to gold and pink. Some types of sandstone are porous, which makes them more suitable for dry, sunny locations.

To contribute to sustainable and responsible extraction and purchasing of this material, Beltrami supports the TruStone Initiative for Fair Sandstone. Find out more at www.imvoconvenanten.nl/en/trustone

Keda Mix - Natural Cleft



Kandla White Beige - Setts



Kandla Grey - Kandla Ochre and Mandana Red



b tip

A home in a contemporary minimalist architectural style receives a sober and timelessly uniform character from a full facade clad in sandstone. Truly something for purists, nature lovers and those looking for added value!



Kandla Grey
Natural Cleft



Kandla White Beige
Natural Cleft



Kandla White Beige
Setts



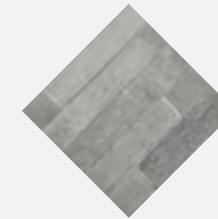
Keda Mix
Setts



Kandla Ochre
Natural Cleft



Kandla Ochre
Setts



Kandla Grey
Paving bricks



Kandla Grey
Setts



Mandana Red
Paving bricks



For more information about dimensions,
applications, maintenance and installation, visit
www.beltrami.eu.

FAIR SANDSTONE?

What does Fair Sandstone mean?

In India, where popular sandstone products such as Kandla Grey and Kandla Ochre are purchased, working and living conditions are sometimes dubious. Beltrami aims to promote more sustainable trade on various fronts, although this is not to be confused with philanthropy.

Fair Sandstone means transparency, risk awareness, action and monitoring. It means traceability in the supply chain all the way back to the quarry. Rather than being silenced, any problems found are reported.

No Child Left Behind

In 2014, Beltrami joined the worldwide 'Stop Child Labour' campaign with 'No Child Left Behind'. The project is based on the vision that every child has the right to a childhood and a decent education. This is achieved through long-term support to the NGO Manjari to give the local families a better life. The improvements achieved in recent years include: obligatory age checks, more teachers and the creation of eight centres to raise awareness among parents and children even before they reach school age. This has resulted in a significant drop in child labour in the region and a strong increase in the number of children attending school again.

More info: www.nochildleftbehind.co.uk.



The local NGO **Manjari** team working to get children out of work and into schools.

Realised projects since 2014 (Budhpura - India)



30% more schoolchildren and **593** children removed from work.



7 fully **functional schools** and double the number of teachers.



69 **cobble producers** have banned child labour. Monitoring by the local federation with fines for violations.



Emancipation of women: **17** **self-help groups** have been set up, as well as training for women.



Raising awareness of **social rights** and assistance in applying for pensions and benefits, among other things.



586 **workers** affiliated with an accident insurance scheme.

◆ slate

From top to bottom

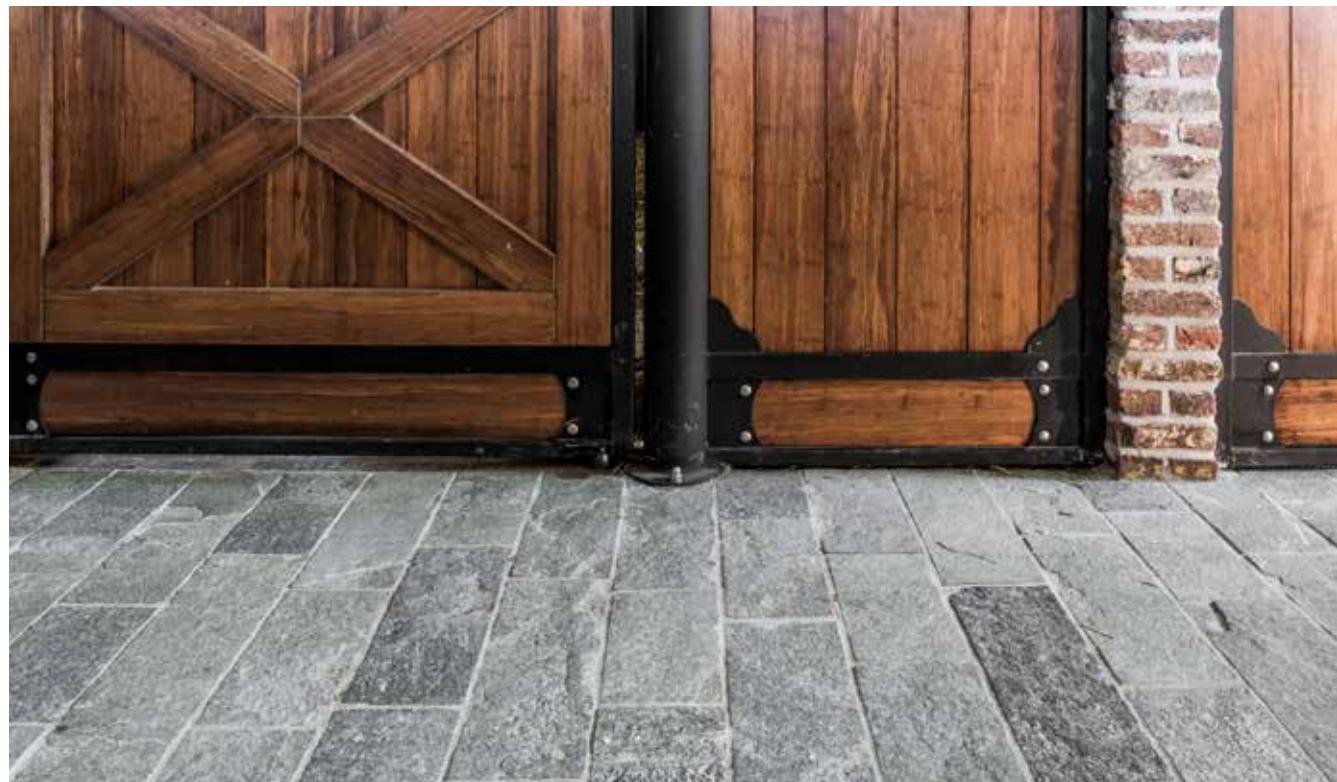
Slate is a natural stone in layer formations, with many different colours and a rough, natural appearance. That makes it suitable for the most wide-ranging of building styles, from traditional and rustic to modern and minimalist.

Slate is found almost everywhere in the world. Therefore it offers great value for money. The material is best known as a roof covering: it can take a few knocks. But why not try slate for a floor, wall or facade, indoors or outdoors? An exciting choice for those who dare.

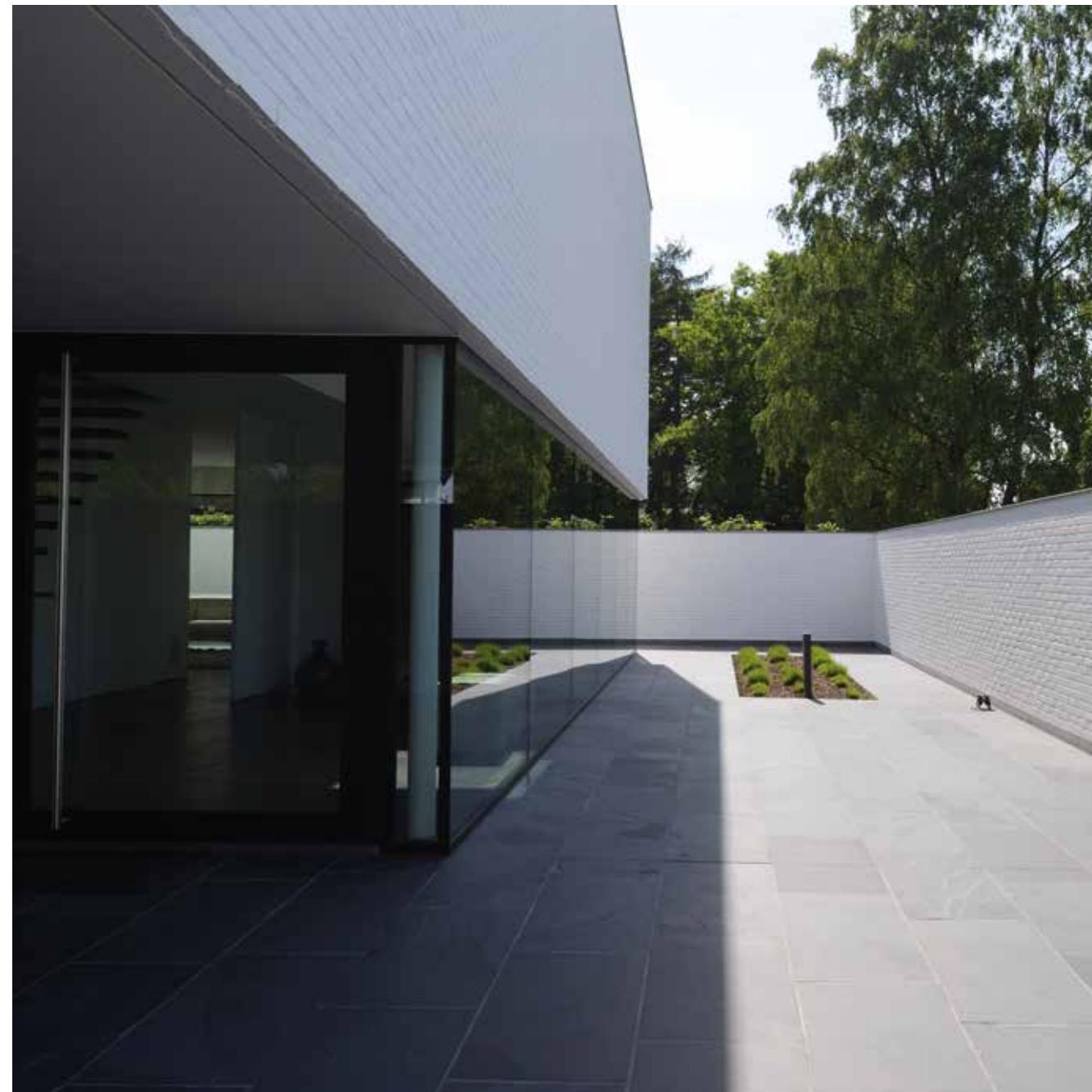
Black Slate - Natural Cleft



Kavalas - Natural Cleft



Black Slate - Natural Cleft





Kavalas
Natural Cleft



Montauk
Natural Cleft



Black Slate
Natural Cleft

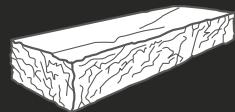


For more information about dimensions, applications, maintenance and installation, visit www.beltrami.eu.

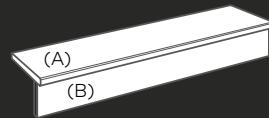
◇ exterior finishing

At Beltrami, you can be assured of suitable finishes to design an outdoor space in harmony with your chosen patio tiles. The range of exterior finishes has now been considerably extended to offer you the perfect match. These include kerbs, steps, large treads and palisades, which are available in various materials, finishes and formats..

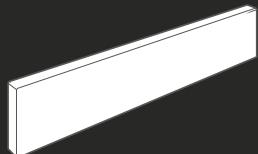
PLEASE NOTE! These are not technical drawings.



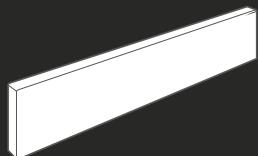
Large Treads



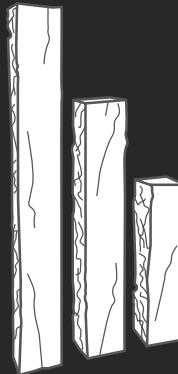
Steps (A) & Risers (B)



Kerbs



Standard piece - finished on all sides



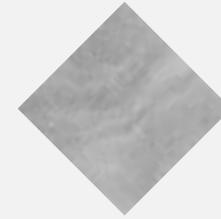
Palisades

Kilkenny Limestone - Flamed (façade) and Dry Blue Hand Honed (stairs) (on request)

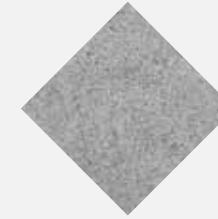




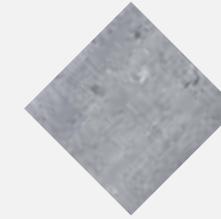
Kandla Grey
Natural Cleft



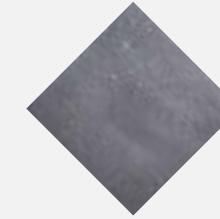
Vinh Blue
Hand Honed



Diorite Dark
Flamed



Belgian Blue Stone
Diamond Cut



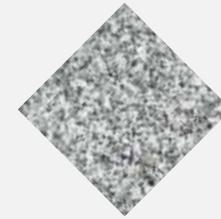
Asian Blue
Antico



Imperial Dark
Aquaflamed



Sinai Pearl
Antico



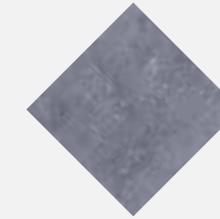
Tarn
Flamed



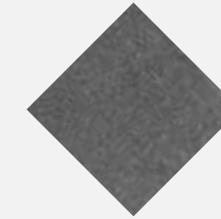
Kilkenny Limestone
Flamed



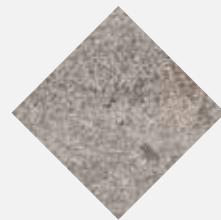
Pepperino Dark
Flamed



Kilkenny Limestone
Stonewashed



New Twilight
Flamed-brushed



Jinin Stone
Anzano



Kandla Ochre
Natural Cleft



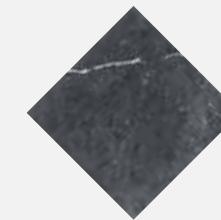
Tandur Yellow
Heritage



Tandur Grey
Heritage



Ming Black
Aquaflamed



Asian Blue
Dark Hand Honed



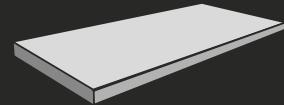
For more information about dimensions,
applications, maintenance and
installation, visit www.beltrami.eu.



◇ pool copings

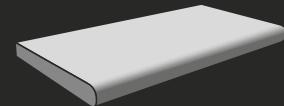
To completely integrate a swimming pool into the garden, you can use pool copings to guarantee a perfect transition. Choose from our wide range of copings based on popular choices of material and the accompanying outdoor finishes.

The copings are available in four types. New for this year is type 4, with a 180° rounded, overhanging edge. The finish is adapted to the surface treatment.



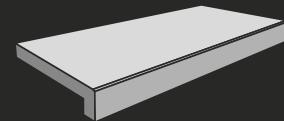
POOL COPINGS TYPE 1

With straight bevelled edge, honed or hand honed.



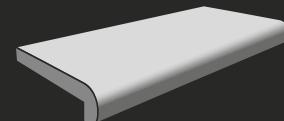
POOL COPINGS TYPE 2

With 180° rounded edge, same finish as surface.



POOL COPINGS TYPE 3

With straight overhanging edge, honed.



POOL COPINGS TYPE 4

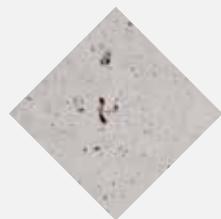
With 180° rounded overhanging edge, same finish as surface.

Sinai Pearl - Sensato - Type 1

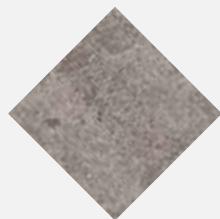




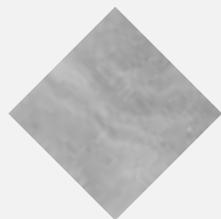
Kandla Grey
Natural Cleft



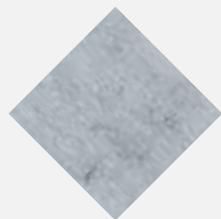
Noce
Arenado



Jinin Stone
Anzano



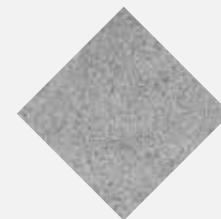
Vinh Blue
Hand Honed



Kilkenny Limestone
Hand Honed



Pepperino Dark
Flamed



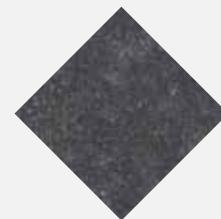
Diorite Dark
Flamed



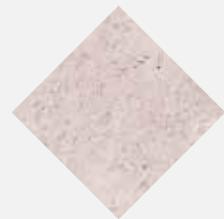
Pepperino Dark
Anzano



New Twilight
Flamed-brushed



Kilkenny Limestone
Flamed



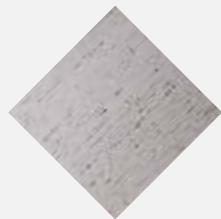
Noce
Diamond Cut



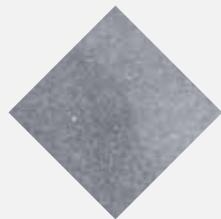
Kandla White Beige
Natural Cleft



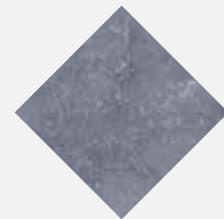
Sinai Pearl
Sensato



Travertin Classic Beige
Arenado



Kilkenny Limestone
Flamewashed



Kilkenny Limestone
Stonewashed



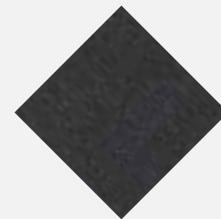
Diorite Dark
Anzano



Imperial Dark
Aquaflamed



Ming Black
Aquaflamed



Black I Extra
Anzano



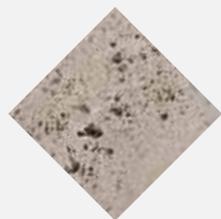
Simyra
Brossato



Sinai Pearl
Antico



Pietra Di San Lorenzo
Sensato



Pietra Bicci
Sensato



Tandur Yellow
Heritage



Tandur Grey
Heritage



For more information about dimensions, applications, maintenance and installation, visit www.beltrami.eu.

panels

Coarse class for every style

Whether you have a traditional rustic home or a sleek, modern house, Beltrami's natural stone strips create an impressive accent wall indoors or outdoors. These cut strips of natural stone are arranged together on a backing for quick and easy installation.

The natural stone panels give your wall a rough, authentic finish. With different materials, formats and types, and colours ranging from light grey and rust to brown, grey and black, these panels are an asset to any style. Unique effect guaranteed.

Black Quartz - Stoneskin strips



b tip

B-Rocks in Grey Quartz magically transform even the most boring wall into a real eyecatcher. This grey quartzite is kept naturally rough for a tough, authentic look. The stone strips are fastened onto boards for quick and easy installation.

Also available in Rusty Quartz and Rusty Slate.



Grey Quartz - B-Rocks

Rusty Quartz - B-Rocks





b tip

Stoneskin strips are often combined with other building materials like wood, crepi and more. As the very name of this "Stoneskin" finishing suggests, a facade or wall covering is created with the 'natural stone skin'. These cut strips of natural stone are arranged together on a backing for quick and easy installation!



panels
Woodstone Grey



Travertin Silver
Stoneskin Strips



Woodstone Grey
Stoneskin Strips



Nero Santiago
Minipanel



Asian Wood
Stonepanel



Grey Quartz
B-Rocks



Ardesia Nera
Stonepanel



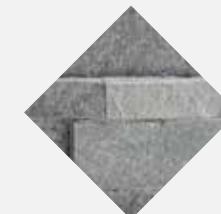
Grey Pearl
Stonepanel



Oyster
Stoneskin Strips



Travertin Classic Beige
Stoneskin Strips



Silver Grey
Stonepanel



Bluestone
Stoneskin Strips



Black Quartz
Stoneskin Strips



Rusty Quartz
B-Rocks



Rusty Slate
Minipanel



Rusty Slate
Stonepanel



Rusty Slate
B-Rocks



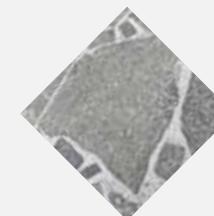
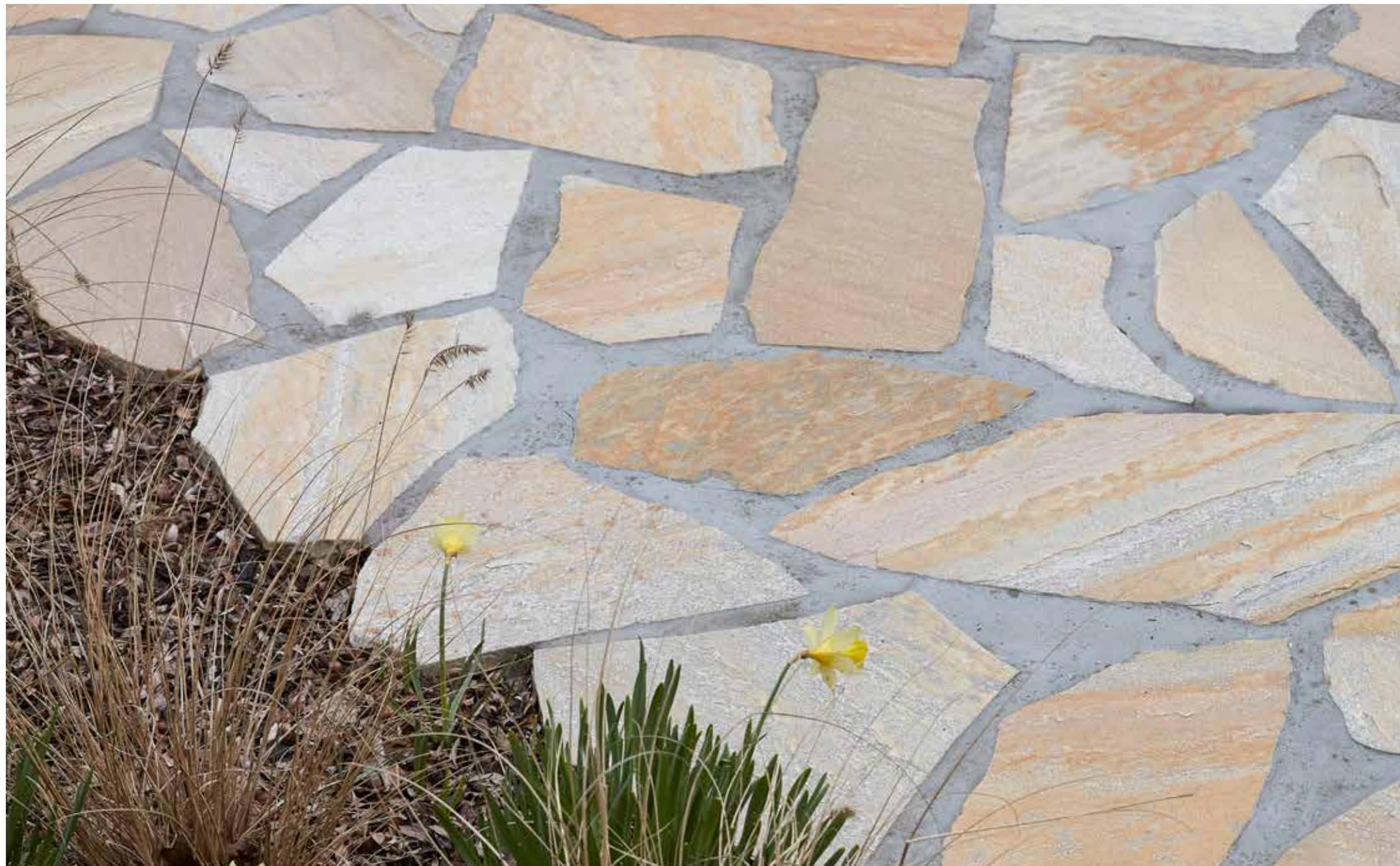
For more information about dimensions,
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installation, visit www.beltrami.eu.

◇ opus incertum

It's back in fashion, although it was never really out: opus incertum, or 'crazy paving' as many people call it. This paving method has been used for many centuries. Now that vintage looks are in vogue, the opus incertum technique is gaining popularity again as a finishing for interior floors, patios and garden paths. The playful placing of irregular pieces of stone creates an unusual, artistic effect.

Kavalas - Opus Incertum

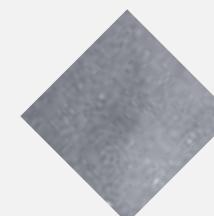




Kavalas



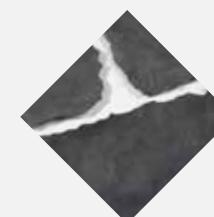
Gobi Yellow



Kilkenny Limestone



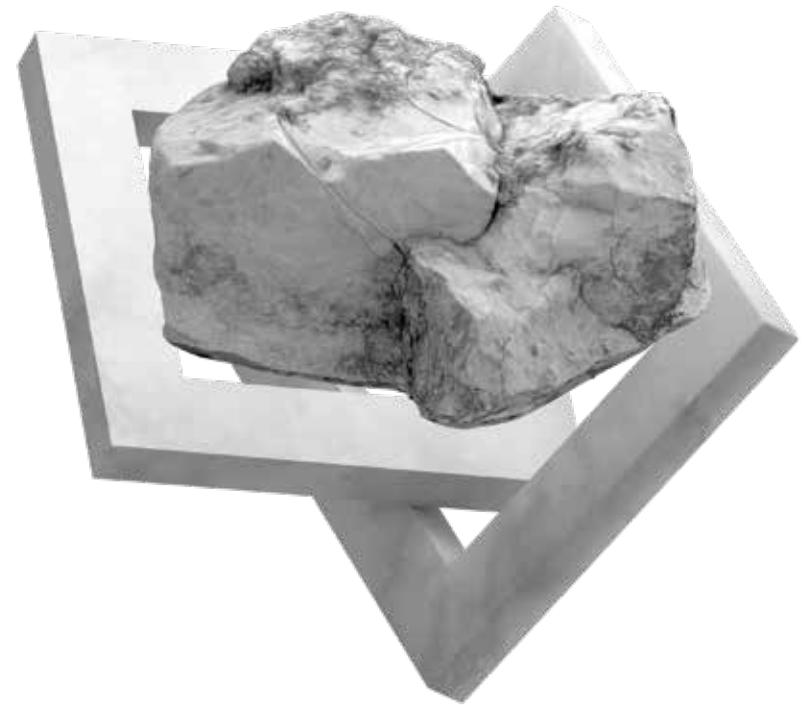
Muschelkalk



Black Slate



For more information about dimensions, applications, maintenance and installation, visit www.beltrami.eu.



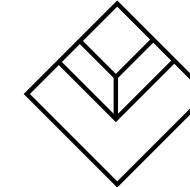
PORCELAIN

UNIQUE CHARACTERISTICS

Pepper Dark - Naturals collection

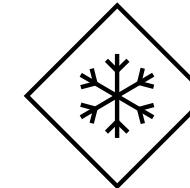
Porcelain is hugely popular. It is not hard to see why they offer a perfect combination of easy maintenance and a huge range of design possibilities. Porcelain tiles also have excellent anti-slip properties.

With two series of porcelain outdoor tiles, Beltrami offers a range of possibilities. In the OCS series, contemporary and high-quality designs with a favourable price-quality ratio take centre stage. In our Manifattura Italiana series, you can expect outdoor porcelain tiles in sandy nude colours, subtle grey tones and warm wood designs.



Rectified

Thanks to their straight, rectified sides and angles, the tiles can be installed quickly and tightly with small joints.



Frost resistant

Our porcelain tiles are impervious to moisture and temperature changes. They are also fully frost-proof.



Anti-slip

All tiles have a minimum anti-slip value of R11, making them excellent for outdoor use. The anti-slip surface is also very durable.



Pedestals

Thanks to their nearly perfect calibration, our light and easily placeable porcelain tiles are perfectly suitable to be installed on pedestals.



OCS stands for Outdoor Ceramics, or porcelain tiles for outdoor applications. This range of outdoor porcelain tiles at a favourable price-quality ratio consists of contemporary and high-quality designs divided into four collections, each with its own look-and-feel. You can choose from various colours, patterns and formats. So you can find the right tile for every living style.

Biscuit Grey - Tea-time collection



Tea-time collection

A warm pallet of colours, with subtle beige and grey shade variations. Tea-time radiates sleek minimalism.



Latte



Cappuccino Beige



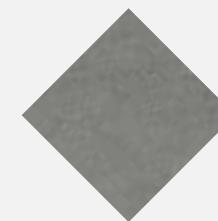
Almond Beige



Biscuit Beige



Biscuit Grey



Cappuccino Grey



Biscuit Dark



The tiles are 2 cm thick and rectified.

Naturals collection

Inspired by nature. Top of the line tiles in various natural stone designs, ranging from travertine to basalt, from granite to quartzite look. These tiles will retain their deep colour year after year, even through the most extreme weather.



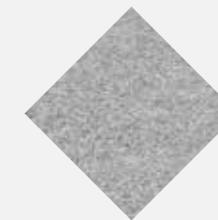
Pepper Dark



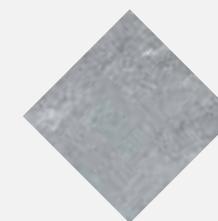
Travertino



Belgian Grey



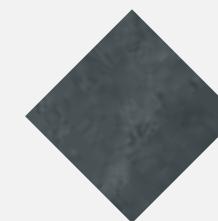
Pepper Dark



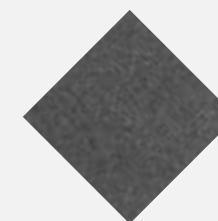
Grey Quartzite



Ardosia Multi



Ardosia Black



Basaltino



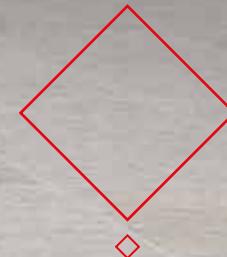
The tiles are 2 cm thick and rectified.



b tip

Did you know that... porcelain tiles are incredibly easy to maintain. And this thanks to their non-porous properties and complete stain resistance.

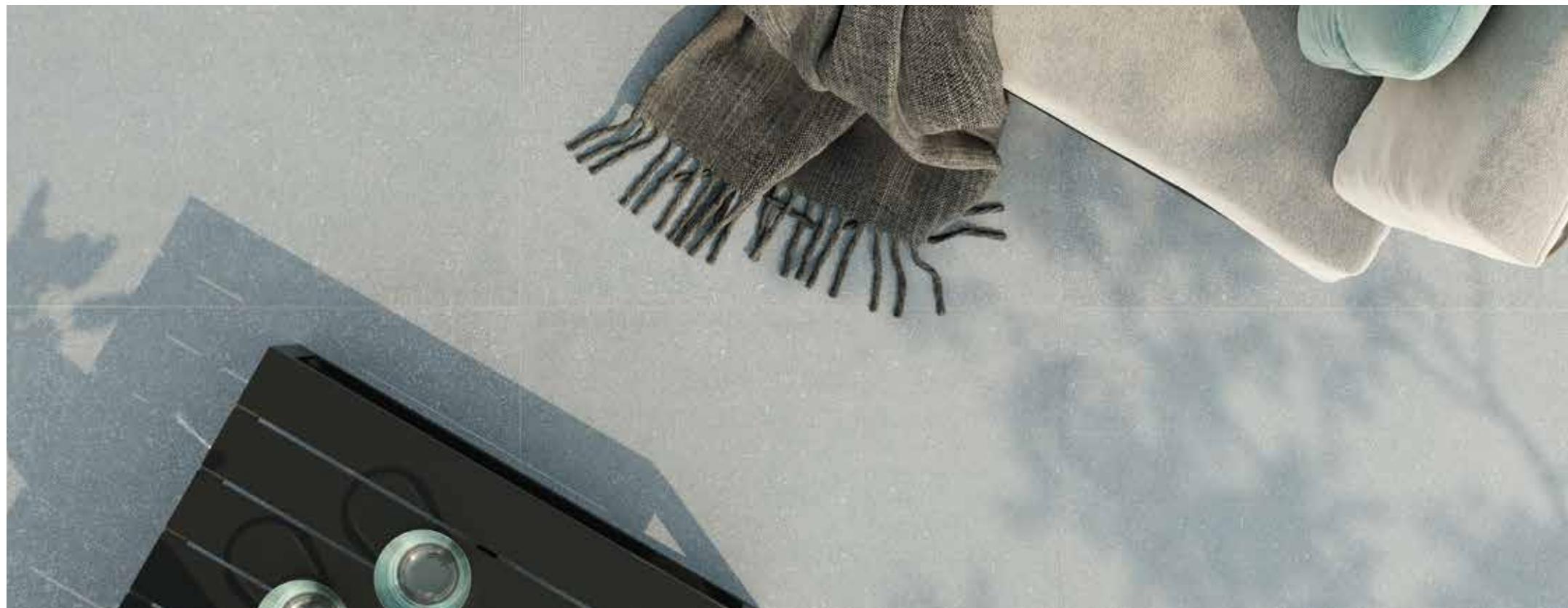
Porcelain can also be installed on pedestals without any problems. Thanks to their anti-slip properties, they also make your terrace particularly safe.



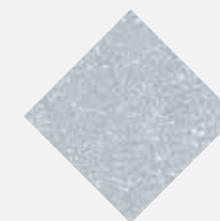
OCS
Belgian Grey

Bluestone collection

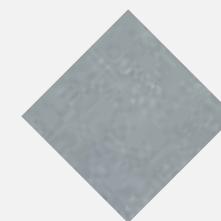
Timeless charm. The design, structure and surface can hardly be distinguished from the natural stone it imitates. Budget friendly, easy to install, strong, and very low-maintenance. A unique colour pallet of light to dark grey shades to enjoy for a lifetime.



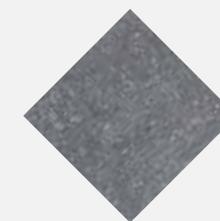
Light Grey



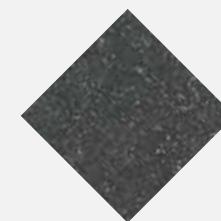
Light



Light Grey



Grigio



Dark



The tiles are 2 cm thick and rectified.

Cemento collection

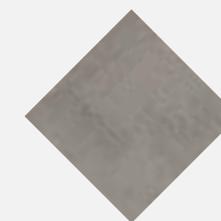
A modern, minimalistic look? Cemento perfectly reproduces the familiar and attractive nuances of concrete. These large format tiles match the outdoor easily to any interior design choice.



Light



Light



Dark

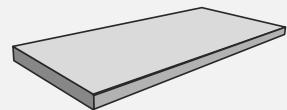


The tiles are 2 cm thick and rectified.

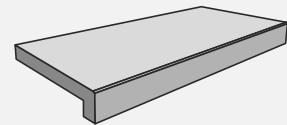
ocs pool copings

The great demand for high-quality outdoor porcelain tiles means that the range of accessories, such as pool copings, is also increasing.

Type 1 is the traditional coping with straight edge. Type 3 has an overhanging edge, giving it a sleeker look. Both types are available in the popular materials from the OCS range.



POOL COPINGS TYPE 1
With straight bevelled edge.



POOLS COPINGS TYPE 3
With straight overhanging edge.

Biscuit Beige - Tea-time collection

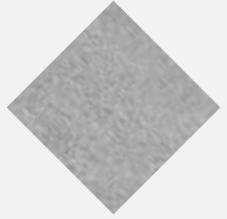




Travertino
Naturals collection



Light
Cemento collection



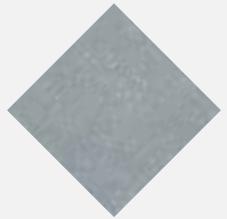
Pepper Dark
Naturals collection



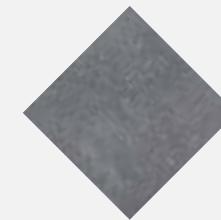
Biscuit Beige
Tea-time collection



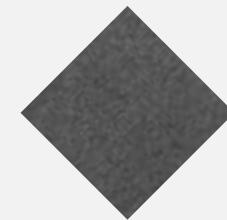
Biscuit Grey
Tea-time collection



Light Grey
Bluestone collection



Grigio
Bluestone collection



Basaltino
Naturals collection

manifattura italiana

The Manifattura Italiana range is Made in Italy and consists of four collections. They are rectangular tiles in a variety of natural looks. Be inspired by the warm nude colours, soft greys and atmospheric wood patterns.

Miele - Legno collection



Pietra Arena collection

The pleasant look of sand stone, combined with the many advantages of a full body porcelain product. The warm, neutral shades perfectly complements the unique atmosphere of the inside space.



Avorio



Avorio



Beige



Grigio



The tiles are 2 cm thick and rectified.

Quarzo Grigio collection

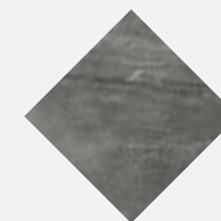
A dark grey porcelain stone verging on blue in colour and a low-metamorphic grade sandstone rock. Light-coloured vein markings brush over the surface which is soft to the touch, yet extremely resistant.



Chiaro



Chiaro



Scuro



The tiles are 2 cm thick and rectified.

Romano collection

An interpretation of the back side of travertine slabs with slight imperfections, less evident and almost faded surface graphics. The style is in line with the 'raw' trend: the charm of irregular surfaces, interpreted with elegance and sophistication.



Beige



Beige



Grigio



The tiles are 2 cm thick and rectified.

Legno collection

Enjoy the best of both worlds. The warm and natural look and feel of wood, combined with all the advantages of outdoor porcelain tiles. Available in 3 colours, in shades of brown and grey.



Silver



Luce



Miele



Silver



The tiles are 2 cm thick and rectified.

How can I maintain my outdoor natural stone tiles?

Natural stone hardly requires any maintenance. Apart from a thorough clean after installation and some annual maintenance, you can simply let nature take its course. A heavy shower and some sunshine will do all the work for you.

Another characteristic of natural stone is that it follows a natural ageing process. After a few years, your patio, drive or stairs will look different, but that is exactly what makes natural stone such an intriguing material.

The first (thorough) clean

Once your outdoor tiles have been laid and grouted, they will need a thorough clean. Give them a good scrub with **Lithofin MN Power Clean** to easily remove all cement haze, grout and dust particles. Repeat until the surface is completely clean.

Spring clean

After the frost of winter and the leaves falling in autumn, you are advised to thoroughly clean and condition your natural stone patios, paths, stairs, walls and drive with **Lithofin MN Outdoor Cleaner**. This product quickly acts to remove damp and dark stains and discolouration caused by plants, trees or flowers. After just a few minutes, your stone surfaces will look bright and clean again.

Daily maintenance

The daily cleaning of your outdoor natural stone tiles is a breeze. A heavy shower will work wonders on grease stains after a barbecue, for example. So simply let nature take its course!



Tips

- ◆ Never use a pressure washer. The powerful water jet will damage the joints and open up the pores in the tiles, making them more likely to turn green.
- ◆ After years of service, your patio will definitely benefit from a good clean with **Lithofin MN Power Clean**. This will remove general dirt such as grease stains, cleaning product residue, gloss layers and so on.

Frequently asked question

If there is a specific stain on your outdoor tiles and you can't wait for nature to take its course, this is how the most common stains can be removed from natural stone. View the stain guide on page 124.

Sinai Pearl - Antico



Stain guide natural stone

If there is a specific stain on your outdoor tiles and you can't wait for nature to take its course, this is how the most common stains can be removed from natural stone:

Type of stain	Lithofin product
Concrete paint	Lithofin Wax-Off
Diesel oil	
Wood stain	
Resin	
Candle wax	
Glue	
Water-based paint	
Oil	
Oil-based paint	
Vegetable fat	
Silicone	
Lubricating oil	
Paint splashes	
Grease stains	
Fruit stains	Lithofin MN Power Clean
Grass	
Emulsion	
Water-based wall paint	
Soot	
Wine	
Merbeau timber bleeds	Lithofin MN Builders' clean
Plaster	
Rust on granite	Lithofin MN Outdoor Cleaner
Organic discolouration	
Rust on granitoid stones	Lithofin BERO*
Rust on limestone stones	Lithofin Rost-Ex

* do not use on acid sensitive natural stone such as limestone and marble

The right maintenance for every type of natural stone and outdoor porcelain

Natural stone and blended materials are a strong and durable choice. Proper maintenance is very important to keep enjoying these materials throughout your lifetime.

It is important to always bear these tips in mind:

- Choose your tiles and materials based on the application.
- Make sure you choose the right maintenance product.
- If you want to give your patio a thorough clean after the winter months, use Lithofin Outdoor Cleaner.
- The maintenance of your natural stone patio or drive is a breeze. "Live and let live" should be your motto: a hefty rain shower can do wonders. This is slightly different for outdoor porcelain tiles, for which suitable products are available.



A natural stone floor is for life

This saying is only true if the right high-quality products are used during installation. Beltrami offers you a range of accessory products. Each and every one of them has been tested on our natural stone and has proven its efficacy, so we don't hesitate to offer our full guarantee for these products when they are correctly applied.

- ◆ BELTRAFLEX
Tile adhesive (per 25 kg bag)
- ◆ BELTRAJOINT BEIGE
Grout (per 25 kg bag)
- ◆ BELTRAJOINT GRAY
Grout (per 25 kg bag)
- ◆ BELTRAMIX
10 liter can
- ◆ MARBLEGLUE OTTOSEAL S70
Colours in stock: white - manhattan - jasmine - concrete grey - bathroom grey - anthracite - other colours on request.

Sinai Pearl - Sabbiatino



Installation guidelines

General

When you choose natural stone for exterior flooring, you have to take into account whether your floor will be used as a terrace or a driveway. It is clear that a floor does not need to be as thick in the first case as it does in the second. Normally, a thickness of 3 cm is sufficient. If it is not to be used to support a vehicle, sometimes even a thickness of 2 cm is enough (depending on the type of natural stone). Slate can even be thinner (1 to 1.5 cm).

Order all your tiles at the same time. Tiles from different batches can vary in shade. Be sure to order enough material. Additional deliveries can vary in shade. You also need to take in account the wasted cut offs (depending on the size of the natural stone and the extent and shape of the surface that needs tiling). For square sized tiles about 5 to 10 % is wasted, for random lengths allow for wastage of 3 to 5 %. Consult the technical data sheet of the material to find out

By mixing the tiles from the different pallets, colours will be harmonised.

Every garden has its own character. A square terrace can be aligned with any part of the garden: with the rear façade, the hedge or the garden fence, or it can be placed centrally. Because the length and width are equal, a square terrace does not directly influence the layout of the garden.

Tiles placed diagonally give the garden a more spacious feeling.

An ideal terrace should be flat, so that tables and chairs are stable. However, the surface of a terrace should not be slippery, nor should it be too rough for children to play on. It could be painful when they fall.

The format of the terrace depends on its use. Generally, a terrace should be big enough for daily use. Each person needs about 2.5 m² for sitting, but there must also be room to walk around and sufficient space for the table and chairs. A rectangular terrace can be laid to make your garden appear wider or longer. This can be achieved by the arrangement of the tiles. If you want to make your garden look wider, lateral stripes will emphasise the width. This can be done with, for example, contrasting colours. If you want to accentuate the length of your garden path, then stripes can be laid in the direction of the path.

The width of the driveway: the average car is approximately 1.8 m wide, so a driveway 2.5 m wide - the width of an average parking space - seems sufficient. However, to unload the car, it is useful to be able to fully open the doors. For this reason a better width for a driveway is between 3.2 and 3.5 m

Make sure that the connection of the tile floor to the façade of the house is lower than the level of the damp course in the wall.

Stagnant water is natural stone's worst enemy. For this reason, thought must be given to good drainage from the start. A porous foundation is very important. A slope must be installed to enable water to run off as much as possible, 1 to 2 cm per metre as a rule. The slope must be angled so that the water is carried away from the building.

When making the connection between the façade and the tiles, an expansion joint should be installed. The natural stone will expand in the sun and contract when cooling down or in frost. When the expansion joint is forgotten, the expansion and contraction of the tile cannot take place naturally and the tile will eventually break.

Thus foresee an expansion joint between the terrace and the facade. The expansion joint should be moisture-proof and elastic (frost-resistant kit or profile). Always adhere to the following rules regarding expansion joints for large terraces:

- Dark shades exposed to the sun: terrace greater than 25m² or a length of more than 5 m.
- Light shades exposed to the sun: terrace greater than 36m² or a length of more than 6 m.
- Dark shades not exposed to the sun: terrace greater than 36m² or a length of more than 8 m.
- Light shades not exposed to the sun: terrace greater than 36m² or a length of more than 10 m.

Please note: for strips regulations are more rigid. (see 5)

Never install tiles one against the other. With smooth surfaces, like Blue Stone, the joints can be rather narrow (4 to 5 mm). However, most natural stones are not so uniform and joints from 8 to 10 mm are not exceptional. For terraces, such a joint is necessary to enable the process of expansion and contraction to take place. Finally, grouting the joints would in most cases be impossible, as too much cement remains stuck to the rough surface. For this reason a grouting tool (thinnest: 5 mm) should be used. Avoid installing tiles with irregular or offset joints. Some materials in our range are sufficiently thick and hard wearing to allow for irregular or offset joints. Plaats de tegels bij voorkeur niet met een verspringende voeg of op halfsteensverband. Enkele materialen uit ons gamma zijn echter voldoende dik en sterk om dit toch toe te laten.

Do not slide the tiles over each other or they may become scratched.

With the exterior installation of natural stones, do not forget to take

into consideration that, apart from the mechanical tensions to be imposed upon them, the most important influences on tiles are due to the climate. In particular, the sudden changes from damp to dry weather or from freezing to thawing conditions. In addition, various human activities, such as pedestrian and vehicular traffic, sudden impacts, etc., will have an effect on the exterior floor.

When working with slate and quartzite, the back of the tiles must be coated with a vinyl solution, composed of BELTRAMIX, white sand and white cement. This must be applied at least 24 hours before installation.

1. Installation on a cement drainage layer

For a terrace, the foundation must be laid under the frost line, around 40 cm below the level of the floor:

- a hardcore drainage foundation, firmly installed and dammed, of around 20 to 30 cm.
- granulated concrete of around 15 cm. Composition: 150 kg cement per m²

of granules 8/22 or 10/20.

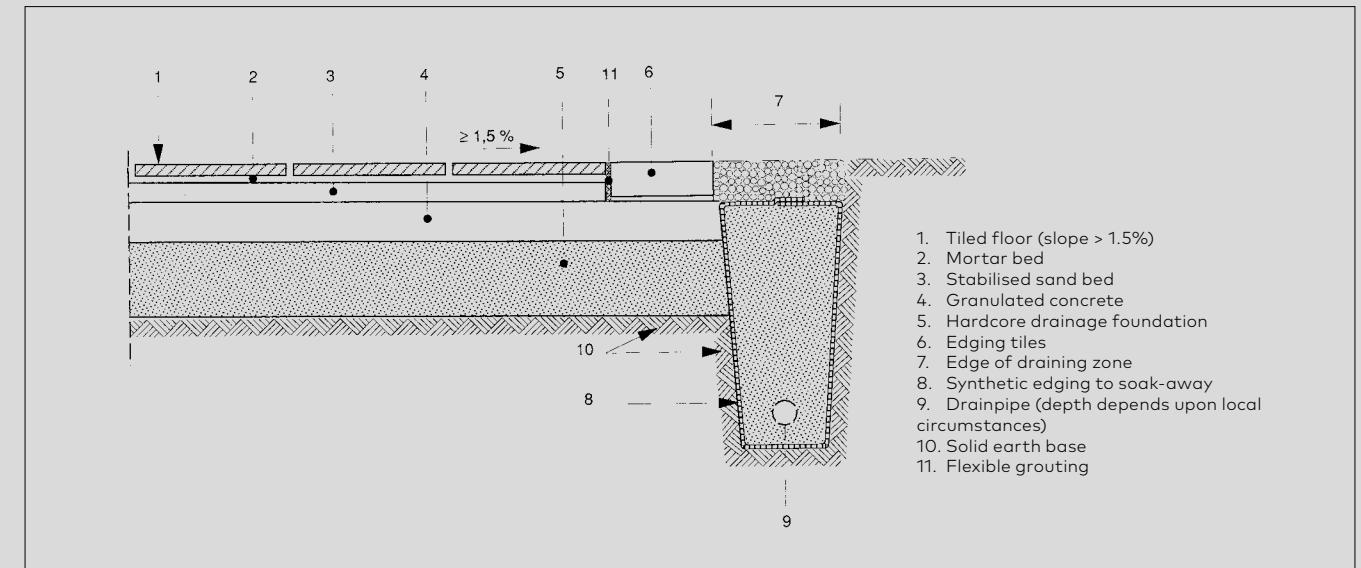
- stabilised sand bed of around 5 cm. Composition: washed river sand 0/5 or 0/7, mixed with white cement, slightly damp and well tamped in. Proportions: 9 parts sand to 1 part cement.
- mortar bed of maximum 3 cm. The tiles are laid fully in the mortar, not 'dotted'. Composition: white sand 0/2 mm mixed with white cement. Proportions: 4 parts sand to 1 part cement.
- Tiling

2. Installation on a concrete base

Avoid this method of installation because concrete holds stagnant water, which can freeze within the terrace. Additionally, concrete has a greater shrinkage coefficient which, in the long term, can cause cracks in the tiles. If, nevertheless, you have a concrete base structure, proceed as follows:

Lay a drainage mat on the concrete (e.g. a Trauba-plus from Schlüter). You can choose between 2 options to proceed:

A. Lay a reinforced bed with a minimum thickness of 5cm. Allow this top



layer to dry thoroughly (minimum 28 days). After this, coat the calibrated tiles (BELTRALINE) with a suitable adhesive (BELTRAFLEX) and lay them on the reinforced bed. The main advantage of this method is that the terrace has no contact with the base concrete and can therefore react to changing weather conditions.

B. On top of the drainage mat you continue with the traditional way of installing: stabilised sand bed, mortar and tiling. (see 1)

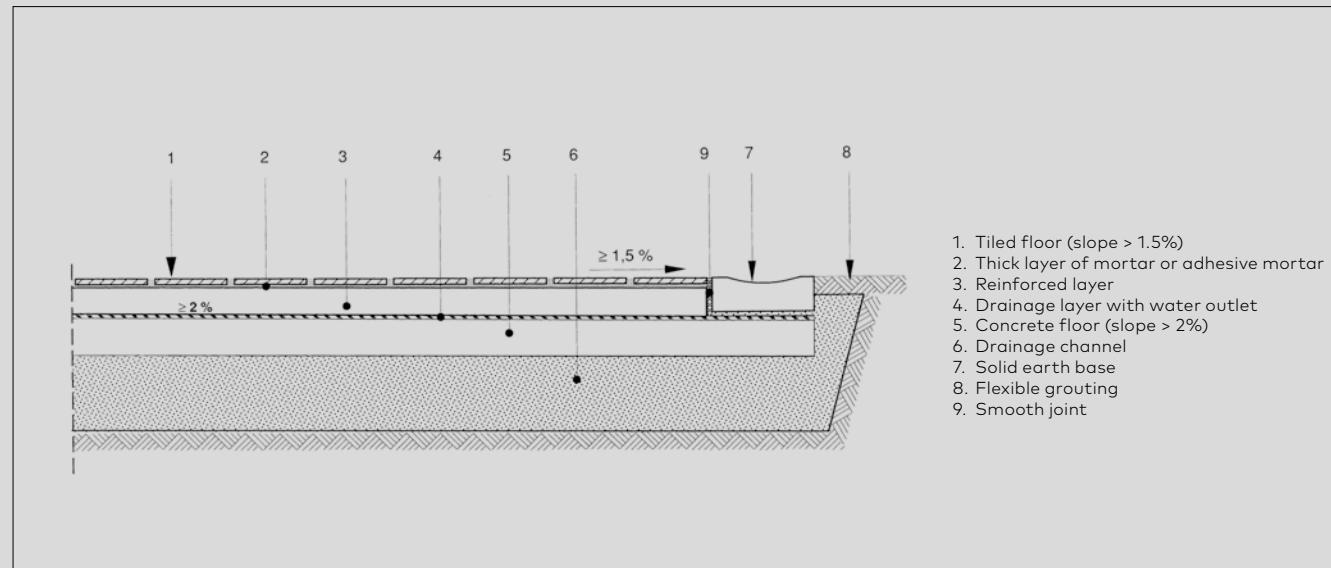
3. Installation on tile supports

This method is often used for roof terraces and balconies. However, it is also suitable for ground floor terraces provided it is not used by vehicles. N.B: for this method of installation the natural stone must have a minimum thickness: certainly no thinner than 3 cm, depending on the type

of material. The base must be completely level. Any unevenness can be corrected with roofing felt. The tile support determines the width of the joint.

4. Installation on mortar sacks

This method can be used in the same situations as for installation on tile supports. The tiles are laid on plastic sacks filled with mortar. You can decide for yourself the width of the grouting (minimum 4 to 5 mm). By using spacers, the perfect grout width can easily be controlled. As long as the mortar in the sacks does not harden, the tiles can be laid and levelled.



1. Tiled floor (slope > 1.5%)
2. Thick layer of mortar or adhesive mortar
3. Reinforced layer
4. Drainage layer with water outlet
5. Concrete floor (slope > 2%)
6. Drainage channel
7. Solid earth base
8. Flexible grouting
9. Smooth joint

5. Installation of panels

Flooring

1. Installation on a cement drainage layer

- For a terrace or driveway the foundation must be laid under the frost line, around 40 cm below the level of the floor. (cfr Belgian Building & Research Institute magazine nr.4/1990)
- a hardcore drainage foundation, firmly installed and dammed, of around 20 to 30 cm.
- granulated concrete of around 15 cm. composition: 150 kg cement per m³ granules 8/22 of 10/20.
- stabilised sand bed of around 5 cm. composition: washed river sand 0/5 or 0/7 mm mixed with white cement, slightly damp and well tamped in. Proportions: 9 parts sand to 1 part cement. Mortar bed of maximum 3 cm. The tiles are laid fully in the mortar, not 'dotted'. Composition: white sand 0/2 mm mixed with white cement. Proportions: 4 parts sand to 1 part cement.

- Panels.

2. Installation on a concrete base:

- Avoid this method of installation on a concrete base, because concrete (not porous) holds stagnant water, which can freeze, within the terrace. Additionally, concrete has a greater shrinkage coefficient which in the long term, can cause cracks in the tiles. If, nevertheless, you have a concrete base structure, proceed as follows:
- Lay a drainage mat on the concrete (e.g. a Traubamat from Schlüter). You can choose between 2 options to proceed:
 - 2A Lay a reinforced bed with a minimum thickness of 5 cm. Allow this top layer to dry thoroughly (minimum 28 days). After this coat the strips with a suitable adhesive (BELTRAFLEX) and lay them on the reinforced bed. The main advantage of this method is that the terrace has no contact with the concrete base and can therefore react to changing weather conditions.
 - 2B On top of the drainage mat you continue with the traditional way of installing: stabilised sand bed, mortar and tiling. (see 1)

When fixing strips as an external floor, no matter which of the above method is chosen, you need to consider the following rule. If the surface is greater than 20 m² or a length of more than 3 m (exposed to the sun) or 5 m (not exposed to the sun), expansion joints across the stabilised sand and mortar bedding (1.) or the screed (2.) are indispensable. When making the connection between the façade and the strips an expansion joint must be installed. The expansion joint should be moisture- proof and elastic (frost-resistant kit of profile). The flooring must be installed with a slope of 1.5 % to enable water to run off as much as possible and the slope must be angled so that the water is carried away from the building. The connection of the strips with the façade needs to be lower than the water embankment membranes in the façade. The external joint widths are 4 to 6 mm. The grout is Beltrajoint.

Wall cladding

The strips are installed with Beltraflex (min 0,5 en max 1,5 cm thickness) on a dry and sufficient sticking background.

Double bonding is necessary, this means that both the back of the strips and the wall are covered with adhesive. The joints must be left open for several days (a minimum of 3 days when the weather is damp), so that the moist can evaporate through these joints. The thickness of the joints depends on the stone you use, please consult the technical data sheet of the material used. The grout is Beltrajoint. During the grouting it is important to clean the strips in order to avoid a cement film. The Stoneskin strips and the hand cleft strips are installed without joints.

6. Installation of B-Rocks

The B-rocks should be installed with Beltraflex (min 0,5 and max 1,5 cm thick) on a dry and sufficient sticking background. Double bonding is necessary, this means that both the back of the strips and the wall are covered fully with adhesive. When fixing as a wall cladding, make joints as close as possible as it is not recommended that the joints be grouted. For cladding corners we advise using the corner pieces. Do not sprinkle with water after fixing.

How can I maintain my outdoor porcelain tiles?

Porcelain tiles are manufactured with high-quality raw materials that are put under extremely high pressure and baked at very high temperatures. They can withstand freezing temperatures and are therefore suitable for all outdoor environments. Their low water absorption also makes porcelain outdoor tiles virtually maintenance-free. It is impossible for any dirt, moss or mould to stick to their surface.

You can achieve the very best long-term results by maintaining your patio tiles properly.

Step 1

After installation, clean your patio with **Lithofin KF Cement Residue Remover** to remove any grout haze and construction debris.

Step 2

Clean periodically with **Lithofin KF Intensive Cleaner** diluted in some water. Scrub, wait for 5 minutes and then rinse with water.



Tips

- Avoid the use of any sealers and oily maintenance products. Due to the porcelain tiles' low porosity, such products will form a greasy layer on the surface.
- Always follow the instructions on the packaging of the maintenance products.

Frequently asked questions

How can I remove barbecue grease stains from my patio tiles?

The rain and sun will make such stains disappear by themselves. If you want to remove the stains more quickly yourself, you can clean your patio with **Lithofin KF Intensive Cleaner**.

How can I remove stains made by leaves, fruit or soil from my patio tiles?

Lithofin MN Outdoor Cleaner has been specially developed for thoroughly cleaning outdoor stone surfaces, such as patios, paths and stairs. This maintenance product is perfect for removing discolouration or stains caused by trees, flowers or plants.

Pepper Dark - Naturals collection



Installation of porcelain

General

- After delivery on site, the tiles must be adequately protected from wind and rain.
- Broken or damaged material is to be used where possible by sawing off the damaged part.
- Important: "Installation is acceptance": this means that after installation no complaints will be accepted, except for hidden faults.
- Carefully mix the tiles to achieve harmonious appearance of colours and shades.

Advice

- The joint between the tiles and the brickwork must be lower than the level of the damp proof course.
- Expansion joints are to be provided along all fixed elements around and on the patio: brick walls, kerbs, pillars etc.
- Provide adequate expansion joints: Surfaces exposed to the sun: every 20 m² or 4 linear metres. Surfaces not exposed to the sun: every 25 m² or 5 linear metres.
- Fit the tiles on a slope of 1.5% - away from the brickwork - to avoid stagnant water on the surface.
- The minimum joint width outdoors is 5 mm. Approximately 4 weeks after jointing, clean once only with a ce-ment residue remover (e.g. Lithofin KF cement residue remover) to get rid of any cement residue.

1. Installation on a wet bed

- Sub-foundation: minimum 15 cm of rubble, well rolled.
 - Foundation: lean or no fines concrete, minimum 10 cm.
- Composition: 150 kg cement per m³ - 8/22 or 10/20 granulate.
- Reinforced screed: minimum 5 cm. Composition: washed river sand (0/5 mm) mixed with max. 250 kg cement per m³ sand.
 - Apply adhesive to both surfaces (contact surface 100 %)
 - OCS Porcelain Tiles.

2. Installation on a concrete bed

- Foundation: traditional concrete bed
- Drainage mat + separation mat follow the manufacturer's installation instructions here
- Apply adhesive to both surfaces (contact surface 100 %)
- OCS Porcelain Tiles.

3. Installation on tile supports

- The surface on which the tile supports are placed must be sufficiently strong and load-bearing.
- Avoid water stagnation on the surface by, for example, providing a slope (\pm 2 cm per 1m).
- For square tiles larger than 60/60 cm, provide an extra tile support in the middle of the tile. Depending on the size, 6 to 8 tile supports are required for rectangular tiles.

Chiaro - Quarzo Grigio collection



TRENDSETTER IN TILES



Showroom and garden park

In our 1,650 m² showroom in Harelbeke (Belgium), you will discover our natural stones for indoors and outdoors. The accompanying landscaped garden park is a source of inspiration for those looking for natural stone or porcelain tiles for the patio. Our tiles come in all finishes and sizes. You will also have a chance to see some exciting, high-quality materials for your home's drive and cladding. Beltrami has also complemented its range of standard tiles with personalised tiles. They give you endless freedom in your choice of materials, dimensions and finishes.

Request a personal tour

If you would like to visit us, you can make an appointment online for a personal tour that will give you plenty of time to discover our natural stone and porcelain collection. We will be happy to advise you on the various materials, finishes, dimensions and applications. And if you prefer to select your own unique piece of flooring or cladding, you can simply choose your favourite tiles from our available stock. Experience the added value our materials offer and make the right choice for each application.

Make your appointment at info@beltrami.be.



By appointment only:

Monday - Friday: from 9:00 until 12:30 and
from 14:00 until 17:00 - Saturday: from 8:30 until 12:00

Venetiëlaan 22, 8530 Harelbeke (Belgium)

Photography

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Picture: Nicolas Vantomme
- pg. 11 Kandla Grey - Paving Bricks
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- pg. 16 Kilkenny Limestone - Mix
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Carrières du Hainaut
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CRAFTING VALUE FOR FUTURE GENERATIONS

www.beltrami.eu

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As an innovator in tiles in natural stone and blended materials (such as porcelain), Beltrami offers a wide range of materials for indoor and outdoor applications: from floors and wall coverings to patio, driveway, paving and façade cladding. Beltrami invests strongly in creative innovation and quality, which is reflected in daring finishes, special formats, unique materials and special applications.

Beltrami is a Brachot Family Member.

 **BRACHOT** – Landscape & Surface Materials