



Villeroy & Boch

1748

OUTDOOR TILES

for a stylish look all round





Today, one does not have to be indoors to feel good and relax at home, for on warmer days in particular, life moves outside – where people can spend the evening enjoying the day's last rays of sunshine surrounded by nature.

Well-designed outdoor areas can significantly increase the quality of both living areas and commercial spaces, possibly introducing pleasant new uses in the process. Yet another reason why it is best to design them like indoor areas, giving preference to ceramics, an aesthetic and extremely practical choice.

The special OUTDOOR TILES from Villeroy & Boch are brand-name products that are available in a variety of designs and which are extremely durable and robust.

They can be laid on a variety of substrates and are an elegant alternative for enhancing life outdoors.

The OUTDOOR TILES collection offers a variety of advantages compared with other outdoor surfaces:



STYLE:

Uniform appearance of living areas and balconies, terraces, pathways and entrances.



MATERIAL:

vilbostone, high-quality, scratch- and abrasion-proof 20 mm thick brand porcelain stoneware tiles.



FROST-PROOF:

Frost-proof and weather-resistant when laid professionally.



COLOUR-FAST:

No changes in colour as a result of sunlight.



EASY TO CLEAN:

Surface-sealed in the factory with vilbostoneplus to prevent stains.



NON-SLIP:

Non-slip class R11/B for outdoor areas.



RECTIFIED EDGES:

Millimetre-precision cut for laying with narrow joints.









BERNINA OUTDOOR

– *For a safe footing*

Both natural and modern: it is a combination that allows BERNINA OUTDOOR to blend beautifully with numerous furnishing styles. The gentle glimmer of its surfaces is inspired by quartzite, giving it a stylish, natural appearance.

The 20 mm thick *vilbostone* porcelain stoneware tiles in the 60 x 60 cm format boast excellent R11/B slip resistance, meaning they are suitable for lending a touch of elegance and firm footing to outdoor areas as well.

These high-quality tiles are also equipped with *vilbostoneplus*, a surface finish applied at the factory that makes these slip-resistant tiles easy to care for right from the start.

BERNINA OUTDOOR is available in beige, grey and greige – three shades modelled on natural tones that harmonise well with a variety of environments.

Their 20 mm thickness makes these tiles perfect for carports and pavements, for example.







CÁDIZ OUTDOOR

— *simple beauty with a natural look and feel*

Like magnificent extracts from Nature herself, CÁDIZ OUTDOOR tiles exude a fascinating aura of authenticity.

Available in the colours chalk multicolor, sand and grey multicolor, the range offers a contemporary new interpretation of country house style both indoors and out: A concept that is just as popular in urban environments as it is in rural areas.

The easy-care *vilbostone* porcelain stoneware range is available in the large square format 60 x 60 cm and the elegant rectangular format 40 x 80 cm.









LODGE OUTDOOR

– *Naturally connecting indoors and out*

A range that exudes warmth and comfort – LODGE OUTDOOR engenders a desire for living in the open air.

Robust *vilbostone* porcelain stoneware tiles in a high-quality wooden look are a timelessly modern classic.

Their authentic wood grain creates a vibrant appearance that offers appealing alternatives in grey, greige and brown. As a result, the range is perfect for creating an attractive living area outdoors.







MINERAL SPRING OUTDOOR

*– modern style in harmony
with nature*

The fine markings of cross-cut, namely stone that has been cut against the grain, give MINERAL SPRING OUTDOOR its attractive organic appearance. The natural flair of the *vilbostone* porcelain stoneware range stylishly connects indoor and outdoor areas for a harmonious effect.

In the format 60 x 60 cm in beige, greige and grey, these tiles are always an excellent choice for balconies and terraces.







MY EARTH OUTDOOR

– *Design freedom*

No two stones on this Earth are exactly alike, and MY EARTH OUTDOOR was developed with this sense of uniqueness in mind. Each tile is a variation of a simple stone structure with a character all its own. The result: individual surface appearances that are able to fascinate time and again.

The range is practically predestined for use in large areas, such as those found between residential units. Easy-care *vilbostone* porcelain stoneware tiles are light-fast and retain their authentic look even when subjected to heavy use.

With its natural appearance, the range is used in both private and public areas. The colour variants light beige, beige, grey and anthracite, each in a multi-coloured version, are available – colours whose facets are ever-changing, and which even nature is unable to top.





X-PLANE OUTDOOR

– *A welcoming outdoors*

Cement looks are all the rage - not only for wall and floor coverings, but for all manner of home accessories as well. With their puristic look and timelessly modern designs, they are true all-rounders for contemporary styles and are destined to establish a lasting presence in modern living spaces.

The finely structured surfaces of X-PLANE OUTDOOR offer a popular yet discreet urban look. Available in the colours beige, grey and anthracite, they are equally at home in architectural applications and private living areas.

In addition to the wide range of possibilities offered by this range for interiors in gastronomy and a variety of private settings, its qualities are also appreciated in outdoor areas.

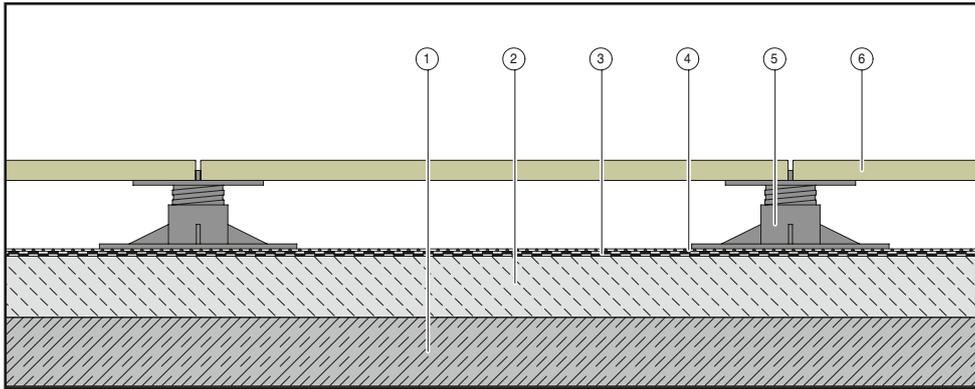
The vilbostone porcelain stoneware tiles harmonise wonderfully with steel and concrete, and are also ideal as a modern counterpoint to all natural materials.





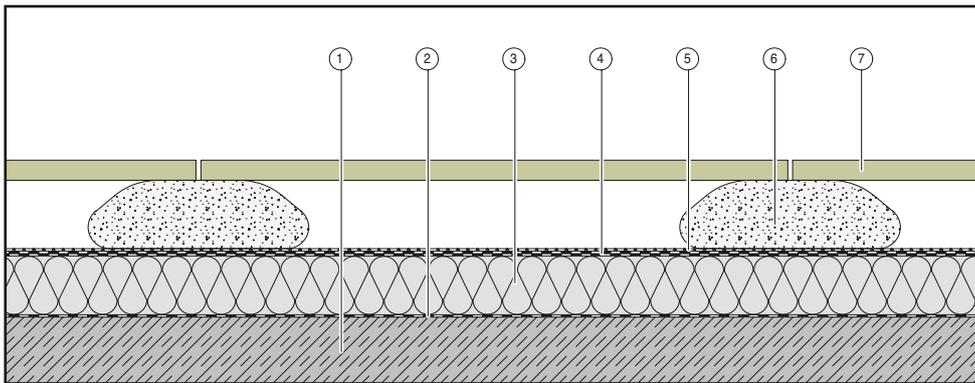
INSTALLATION METHODS

Laying on pile foundations or mortar bags



Loose laying on pile foundations on underground floor slab or concrete cantilever slab

- ① Uncovered floor
- ② Sloping screed
- ③ Seal in accordance with DIN 18195
- ④ Protective mat
- ⑤ Pile foundations
- ⑥ OUTDOOR TILES



Loose laying on mortar bags on thermally-insulated, flat-roof construction

- ① Uncovered floor
- ② Vapour barrier
- ③ Tapered insulation
- ④ Seal in accordance with DIN 18195
- ⑤ Separation layer / Protective mat
- ⑥ Mortar bags
- ⑦ OUTDOOR TILES

Advantages:

- Suitable for laying on top of existing coverings if the resulting overall height meets requirements
- Both laying variants can be performed quickly
- When laid on pile foundations or mortar bags, replacing individual OUTDOOR TILES is quite straightforward
- This also allows for the concealment of cables, pipes etc. under the structure

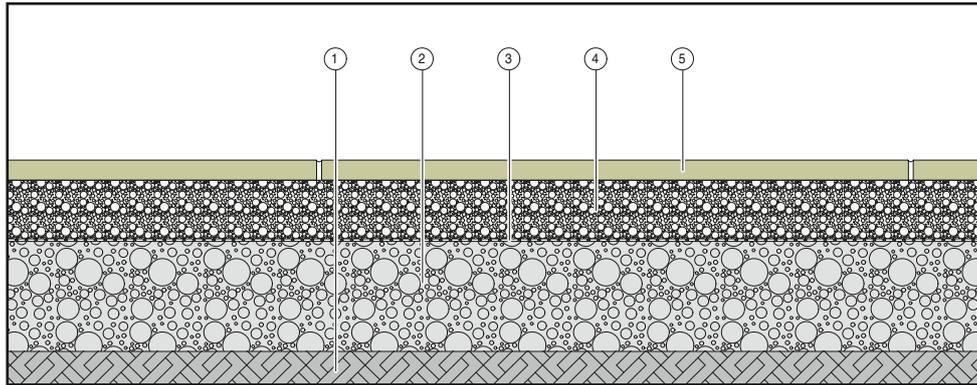
Laying the tiles:

- Prepare the substrate with a slope of at least 2% and seal in accordance with DIN 18195
- In order to protect against mechanical impairment, a protective mat should also be installed
- A vapour barrier is required above heated rooms
- Place the pile foundations (with integrated spacers) or mortar bags in the desired grid and align horizontally
- Lay the OUTDOOR TILES by placing them around the spacers with approx. 5 mm wide joints
- If higher loads are expected, it is recommended that support also be provided beneath the centre of each tile



INSTALLATION METHODS

Laying on gravel beds



Loose laying on gravel bed

- ① Natural soil
- ② Rough gravel support
- ③ Water-permeable covering
- ④ Gravel bed
- ⑤ OUTDOOR TILES

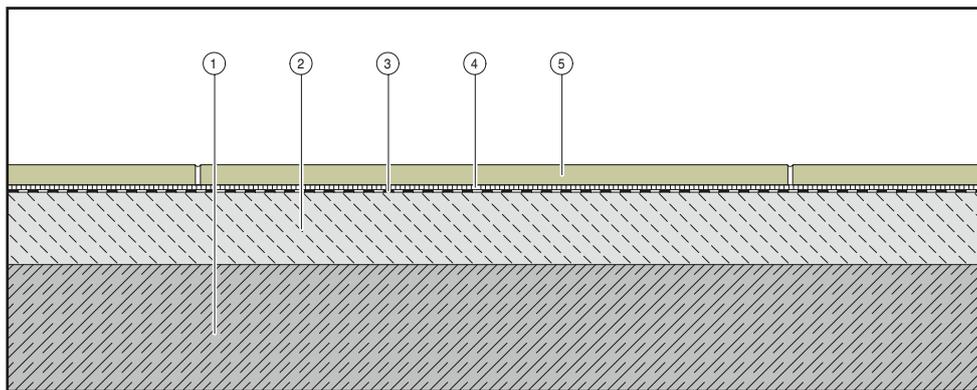
Advantages:

- Suitable for accessible ground-level terraces
- It is possible to simply lay the tiles on concrete slabs or base plates, or on natural, load-bearing substrates
- When laid on gravel beds, replacing individual tiles is quite straightforward

Laying on natural soil:

- Prepare the substrate with a slope of at least 2 % and ensure that it is sufficiently compacted
- The 10 - 30 cm thick mineral supporting layer, comprising mixed gravel, for example, should have a grain size of approx. 0/45 to 0/56 mm
- Application of a water-permeable covering is required
- Create a 3 - 5 cm thick gravel bed that is able to drain
- Lay the OUTDOOR TILES with approx. 5 mm wide joints, check for unevenness and level/shift if necessary
- Fill joints with water-permeable joint sand

Laying on cement screed



Fixed laying in a mortar bed on underground floor slab or concrete cantilever slab

- ① Floor slab
- ② Sloping screed
- ③ Composite seal
- ④ Mortar bed
- ⑤ OUTDOOR TILES

Advantages:

- Suitable for terraces and balconies with low overall heights
- Harmonises well with similar indoor floor coverings

Laying the tiles:

- Prepare the substrate with a slope of at least 2% and seal in accordance with the ZDB leaflet “Composite seals”
- If necessary, apply an additional levelling coat in the event that the deviations in height are too great
- Lay the tiles with approx. 5 mm wide joints in a joint-coordinated pattern (cross joints) using a hydraulically setting thin-bed mortar (Group C2 S2)
- Carry out jointing with hydraulic hardening joint mortar
- The space between the settlement joints in a width of approx. 5 mm can, depending on the expected thermal expansion pursuant to the ZDB flyer, be between 2 and 5 m.



Floor tiles: MY EARTH OUTDOOR grey multicolour on gravel



Floor tiles: MY EARTH OUTDOOR grey multicolour on cement screed

BERNINA OUTDOOR

60 x 60 cm

beige



90° ✱ 20 R11 B



greige



90° ✱ 20 R11 B



grey



90° ✱ 20 R11 B



CÁDIZ OUTDOOR

40 x 80 cm

chalk multicolor



90° ✱ 20 R11 B



sand



90° ✱ 20 R11 B



grey multicolor



90° ✱ 20 R11 B



60 x 60 cm

chalk multicolor



90° ✱ 20 R11 B



sand



90° ✱ 20 R11 B



grey multicolor



90° ✱ 20 R11 B



LODGE OUTDOOR

60 x 60 cm

grey



90° ✱ 20 R11 B



greige



90° ✱ 20 R11 B



brown



90° ✱ 20 R11 B



MINERAL SPRING OUTDOOR

60 x 60 cm

beige



90° ✱ 20 R11 B



greige



90° ✱ 20 R11 B



grey



90° ✱ 20 R11 B



MY EARTH OUTDOOR

40 x 80 cm

light beige multicolor



90° ✱ 20 R11 B



beige multicolour



90° ✱ 20 R11 B



grey multicolour



90° ✱ 20 R11 B



anthracite multicolour



90° ✱ 20 R11 B



MY EARTH OUTDOOR

60 x 60 cm

light beige multicolor



90° * 20 R11 B



beige multicolour



90° * 20 R11 B



grey multicolour



90° * 20 R11 B



anthracite multicolour



90° * 20 R11 B



X-PLANE OUTDOOR

60 x 60 cm

beige



90° * 20 R11 B



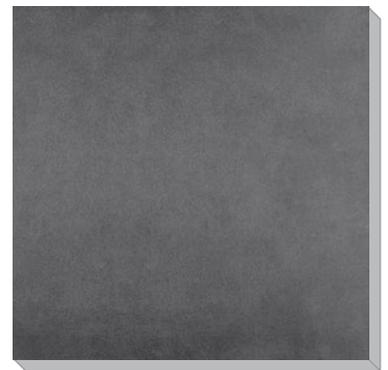
grey



90° * 20 R11 B



anthracite



90° * 20 R11 B



90° = Rectified
* = Frostproof DIN EN ISO 10545-12

R11 = Anti-slip in workshop areas
B = Anti-slip in barefoot areas

20 = Tile thickness 20 mm
1 2 3 4 = Shade variation

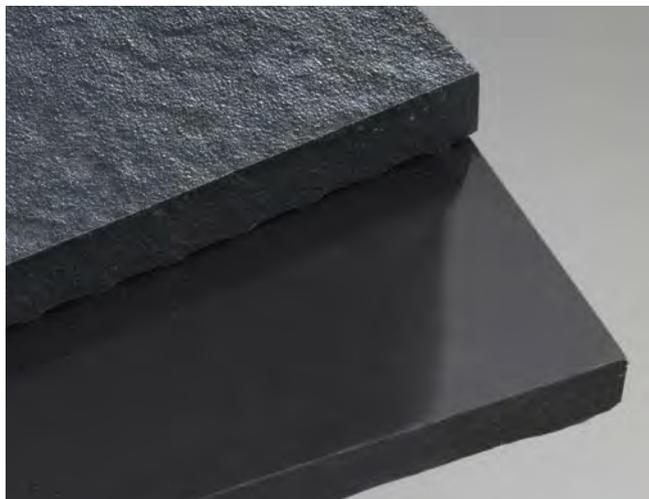
CLEANING AND CARE

General

On account of their properties, tiles are considered to be easy to clean. The cleaning methods and cleaning agents must, however, be adapted to the type of floor and local conditions.

It should be noted that hydrofluoric acid and related substances are able to attack or destroy the surface of porcelain stoneware tiles.

Consequently, no cleaning agents containing hydrofluoric acid are to be used!

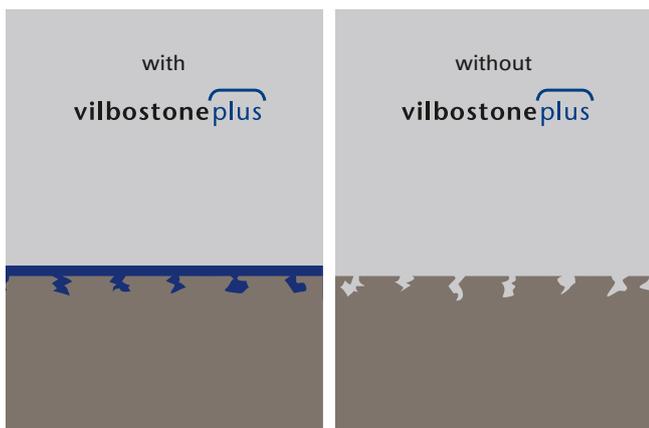


vilbostone

Porcelain stoneware

vilbostone porcelain stoneware permits a wealth of different surface designs featuring unusual colour and sheen effects.

vilbostone porcelain stoneware is available both glazed and unglazed, with a matt, polished, rough-polished or relief surface finish and in various classes of slip resistance.



vilbostoneplus

Unglazed *vilbostone* porcelain stoneware with a matt or rough-polished surface finish have the **vilbostoneplus** seal, which renders the tiles particularly resistant to dirt and stains. During the manufacturing process, the structure of the tile surface is sealed in order to further increase the tiles' resistance to staining and dirt, as a result of which subsequent treatment with impregnating agents is no longer necessary.

Cleaning

| Final cleaning after tiling / Basic cleaning | Product and dosage | Cleaning equipment |
|--|--|---|
| Loose dirt | - | Broom and vacuum cleaner |
| Cement film, mineral soiling, such as limescale deposits, soap residue | Acidic cleaner (available from specialist retailers) | Sponge, scrubbing brush, brush, cloth, microfibre cloth |
| Grease, oils, waxes, cosmetics, shoe marks | Alkaline cleaner (available from specialist retailers) | Sponge, scrubbing brush, brush, cloth, microfibre cloth |
| Routine cleaning | | |
| Normal dirt, such as dust, light dirt, street dirt | Neutral cleaning agents (available from specialist retailers) | Broom and vacuum cleaner Sponge, scrubbing brush, brush, cloth, microfibre cloth |

Please note: All of the information we provide about cleaning, care and removing stains from ceramic tiles is based on the latest knowledge and material research. It is, however, of a general nature and cannot cover every single eventuality. Therefore, please observe the instructions provided by the cleaning agent manufacturer.

SLIP RESISTANCE

Slip resistance of floor tiles

The EU Construction Products Regulation No. 305/2011 requires floor coverings to be safe to use. This imposes the observance of special requirements pertaining to slip resistance in areas where a danger of accidents is to be assumed. The corresponding standards were drawn up by the Committee for workplaces (ASTA) and published in form of technical regulations.

These standards include requirements pertaining to slip resistance - leaflet "ASR A1.5/1,2 - Technical Regulations for workplaces - Floors" (previously BGR 181 for commercial areas) and, for barefoot areas, leaflet "DGUV Information 207-006 - Floor coverings for wet barefoot areas" (previously BGI/GUV-I 8527, updated June 2015), published by the German Statutory Accident Insurance (DGUV).

Slip-resistant coverings in publicly accessible areas are distinguished according to those that are walked over barefoot or in footwear. No regulations apply as yet in the area of private use, e.g. private bathrooms or kitchens.

The requirements stipulated by the slip resistance are defined in the regulations mentioned below.

With our slip-resistant tiles, you will find the symbols

-  slip resistance in commercial areas,
-  slip resistance in barefoot areas

and information about the relevant classification groups.

Slip-resistance properties in commercial applications

Responsible institutions:

Federal Institute for Occupational Health and Safety, Friedrich-Henkel-Weg 1-25, D-44149 Dortmund - www.baua.de

Main Association of Employers' Liability Insurance Associations, Alte Heerstraße 111, D-53757 Sankt Augustin - www.dguv.de

Area of application:

Floors in work rooms and work areas where there is a risk of slipping

Regulations:

„BGV Professional Association regulations for occupational safety and health“ (Published by: Main Association of Employers' Liability Insurance Associations) Leaflet „ASR A1.5/1,2 - Technical Regulations for workplaces - Floors“ (Published by: Federal Institute for Occupational Health and Safety, Committee for workplaces - ASTA)

Test method:

DIN 51130 - Testing of floor coverings; determination of slip resistance; work rooms and work areas subject to higher risk of slipping.

Walking method:

inclined plane

Assessment groups:

| | angle of inclination | |
|------------|----------------------|-------------------|
| | Lower limit value | Upper limit value |
| R9 | 6° | 10° |
| R10 | > 10° | 19° |
| R11 | > 19° | 27° |
| R12 | > 27° | 35° |
| R13 | > 35° | |



| | | | | |
|------------------------|--------------------------|--------------------------|--------------------------|----------------------|
| R9: 6° – 10° | R10: 10° – 19° | R11: 19° – 27° | R12: 27° – 35° | R13: > 35° |
|------------------------|--------------------------|--------------------------|--------------------------|----------------------|

The slip resistance of tiles is tested on an inclined plane with a predetermined angle of inclination and classified according to rating groups R9 to R13.

SLIP RESISTANCE

Slip-resistance properties in barefoot areas

Responsible institutions:

German Statutory Accident Insurance (DGUV),
Glinkastraße 40, D-10117 Berlin - www.dguv.de

Area of application:

Wet barefoot areas, e.g. in swimming pools, hospitals, as well as changing rooms, washrooms and showers in sports centres and workplaces for which the statutory accident insurance agencies are responsible.

Regulations:

Leaflet „DGUV Information 207-006 - Floor coverings for wet barefoot areas“ (previously BGI GUV-I 8527, updated version of June 2015)

Published by: German Statutory Accident Insurance (DGUV)

Test method:

DIN 51097; Testing of floor coverings; determination of slip-resistance; barefoot areas exposed to wet.

Walking method:

sloping plane

The slip resistance of tiles is tested on an inclined plane with a predetermined angle of inclination and classified according to rating groups A to C.

If barefoot areas are also to be walked over in footwear, the requirements of ASR A1.5/1.2 must also be observed.

Classification groups and areas of application:

| Classification group | Lower limit value | Upper limit value | Areas |
|---|-------------------|-------------------|---|
| A  | 12° | 18° | Barefoot hallways and sanitary areas (mainly dry) Individual and group changing rooms with lockers Pool floors in the non-swimmer areas, where the water level exceeds 80 cm Sauna and relaxation areas (mainly dry) |
| B  | > 18° | 24° | barefoot hallways and sanitary areas, if not classified in A Showers and shower areas Steam baths Area surrounding the disinfectant sprayers Pool surrounds Pool floor in the non-swimmer areas, where the water level is less than 80 cm Pool floor in the non-swimmer areas in the tide effect pool Lift slab floors Paddling pools Steps and ladders outside the pool area provided these are not assigned to C Accessible surfaces of diving platforms and diving board installations which are not allocated to C. Sauna and relaxation area, provided they are not assigned to A |
| C  | > 24° | | Steps and ladders leading into the water Stairways leading to diving boards and water slides Surfaces of diving platforms and diving boards in the length which is reserved for the diver (the slip-resistant surface of the diving platforms and diving boards must lead around the front edge where it is gripped by users' hands and toes). Foot basins Inclined pool borders Kneipp pool, foot pool Ramps in the pool rim area with an inclination of > 6% |

ADVANTAGES OF CERAMIC TILES

Ceramic is a fascinating and inspiring material that has been popular for thousands of years and that is increasingly used in modern interior design. Hardly any other housing material combines so many positive properties at the same

time as providing inspiration for countless creative living ideas for a beautiful home. Tiles from Villeroy & Boch meet high technical and aesthetic standards and offer advantages in terms of a healthy home environment and energy savings.



Good for health

Ceramic tiles are simply ideal for a healthy living environment. Whether glazed or unglazed, their surfaces are highly impervious. Mites and other microorganisms that cause a large number of allergies don't stand a chance. Ceramic itself does not give off any vapours or smells and, for this reason, is also recommended in terms of building biology.



Energy-efficiency saves costs

For underfloor heating there is no better covering than ceramic, which boasts good thermal conductivity and heat storage capacity and is also anti-static. A pleasant and efficient side effect: on hot summer days, tiles also help to keep things cool.



Barrier-free living and design

Today, bathrooms in particular should not have any unnecessary thresholds. Tiles and mosaics are perfect for barrier-free, walk-in and wheelchair-friendly showers and baths. Provided with non-slip surfaces, tiles also ensure a secure footing.



Safety underfoot

Vilbostone porcelain stoneware tiles make ideal floor coverings for both indoors and outdoors. It is precisely here that the non-slip properties of tiles come into their own, offering a secure foothold, even when it's wet.



Frost resistance

Vilbostone porcelain stoneware tiles are frost-proof and weather-resistant when laid professionally and therefore also suitable for use in outdoor areas.

ADVANTAGES OF CERAMIC TILES



Environmentally-friendly and natural

The high quality of Villeroy & Boch tiles in terms of both workmanship and product concept ensures the necessary durability and sustainability. They are made of natural components that occur naturally in almost unlimited quantities. They are also manufactured by means of environment-friendly processes and a large proportion of the production waste is recycled. Tiles can also be disposed of in an environmentally safe manner.



Easy care

Tiles are naturally hygienic and easy to clean. The cleaning methods and cleaning agents must thus be adapted to the type of floor and local conditions.



Colour-fastness

Tiles are colour- and lightfast and their appearance will not even be affected by exposure to direct sunlight.



Their good looks are undiminished over time

Tiles from Villeroy & Boch are durable and do not wear down, even after decades of use. They are largely scratch- and crack-resistant. Falling embers from open fires, stoves or cigarettes that will cause lasting damage to other floor coverings can be removed without a trace from tiles.



Aesthetic selection available to cover all tastes

There are an unlimited number of colours, designs and finishes. As design media, they offer solutions for every style and taste. Tiles cannot be considered in isolation here, but form an integral part of the overall design scenario and are of crucial importance to the room concept and a harmonious interior.

Tiles by Villeroy & Boch meet every aspect of the international parameters required for “sustainable building”.

All over the world, our tiles feature in architectural projects that are classified by the German DGNB, the American LEED and the British BREEAM. The closed manufacturing processes that include both traditional and state-of-the-art technologies, such as digital print, meet the very highest environmental standards. All raw materials used in the ceramic mass, glazes and pastes, as well as for packaging the tiles, are evaluated according to strict ecological principles.

The entire manufacturing process avoids emissions into the water, soil and air that would have a detrimental effect on the environment. Heat recovery and continuous energy-efficiency measures, as well as environmentally aware waste management, are testimony to the environmental

compatibility of our production. At least 85% of the waste produced is recycled. The waste water generated by the manufacturing process and the solids it contains are almost entirely re-used. Thanks to heat recovery, CO₂-emissions can be reduced by about 3000 tons per year.

Not only manufacturing considerations but also the lasting quality of the designs of our tiles earn them the “sustainable building” accolade at international level. Both manufacture and the products themselves are continuously assessed in accordance with the latest independent system and product certifications.

For further information about projects and certifications, as well as videos and brochures about our environmental management, please go to www.respecting-nature.com

Certification – DIN EN ISO 9001

The DIN EN ISO 9001 quality management system has been documenting the ongoing optimisation of work processes throughout the company since 1995.

Certification – DIN EN ISO 14001

Based on the plan-do-check-act cycle and ongoing improvement in environmental performance, DIN EN ISO 14001 specifies the main requirements for identification, monitoring and supervision of direct and indirect environmental aspects in the company.

All certifications are carried out by Bureau Veritas.



EMAS validation

V & B Fliesen GmbH was the first German tile manufacturer to participate in the EMAS (Eco-Management and Audit Scheme), currently the strictest test system for environmental criteria, at Merzig and La Ferté-Gaucher. It calls for a continuous, performance-oriented and regularly measurable optimisation process in which employees must also be involved.

In 2016, Villeroy & Boch was certified for another three years by an external environmental auditor.

CE mark

The CE mark indicates that the product complies with the requirements of the corresponding EU directive – in particular with regard to health protection and the safety of users and consumers – and may thus be freely circulated on the Community market.

At www.villeroy-boch.com/ce you will find information on compliance with requirements for the CE mark by porcelain stoneware, glazed vitreous and nonvitreous products from Villeroy & Boch Tiles.

Ecological, environmentally friendly production

V & B Fliesen GmbH has been awarded the Environmental Product Declaration (EPD) label by the IBU (Institut für Bauen und Umwelt e.V.). The Environmental Product Declaration provides relevant, verifiable and comparable information on the environmental impact of products. This certification allows architects and planners to utilise our products in all properties that have been certified as satisfying the BREEAM, LEED, DGNB or other comparable international requirements for sustainable building.

The IBU, as the administrator of the German EPD program, is part of the ECO PLATFORM, through which it works to promote the harmonisation of national EPD programmes at the European level.

Declaration of Performance in accordance with the Construction Products Regulation [BauPVO]

305/2011 (EU) dated 9 March 2011:

The Declaration of Performance specifies the characteristics that are applicable in accordance with the product standard DIN EN 14411 for which our compliance is obligatory. In our company this applies to the following product groups:

- Porcelain stoneware (Group BIa)
- Vitreous stoneware (Group BIb)
- Nonvitreous stoneware (Group BIII)

This can be viewed and downloaded from our homepage at www.villeroy-boch.com/pvo.



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Shades and dimensions subject to the usual tolerances. We reserve the right to make technical modifications to the range and alter colours.

