



VILBOGARDEN

PORCELAIN TILES FOR A STYLISH OUTDOOR AMBIANCE

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VILBOGARDEN

*There's no place
like the great
outdoors*

When the sun is shining, you can enjoy life in the fresh air – preferably quite relaxed and in a good mood in your own, private oasis of wellness. A green home designed creatively and with attention to detail is truly a feel-good place, offering additional space for rest and comfort, particularly in the warmer times of the year. Whether its a balcony or a terrace, a garden path or an entrance, a driveway or a carport – with **Vilbogarden** by Villeroy & Boch Tiles, the most beautiful designs around the home are sure to be a great success. High-quality **VilboStone** porcelain stoneware tiles combine the practical properties of ceramics with selected trend designs to create an attractive exterior.

Advantages



Produced using state-of-the-art manufacturing technology, all **Vilbogarden** ranges are light- and colour-fast and weather-resistant as well. That's why, even after many years of exposure to the elements, they still look just as good as they did on the first day. Without any need for special cleaning or upkeep, and without subsequent impregnation. **Vilbogarden** offers a suitable solution for every outdoor concept. The robust tiles are suitable for conventional or loose

laying on a range of foundations. In thickness of 20 mm, they are ready to meet all the demands of outdoor use. The various functional trims, comprising nosing tiles, corners, border tiles and covers, offer perfection down to the finest details. They are produced as custom items to meet the precise requirements of the given building scenario and are available for all **Vilbogarden** ranges.



MATERIAL

VilboStone, high-quality, scratch- and abrasion-proof, solid porcelain stoneware, one-piece with a thickness of 20 mm



ACCESSIBILITY TO VEHICLES

If installed professionally in bonded construction, these tiles can be driven over by vehicles with a permissible gross weight of up to 3.5 t



FROST-PROOF

Frost-proof and weather-resistant when laid professionally



LAYING

Conventional or loose laying on a range of foundations, also suitable for laying on pile foundations



COLOUR-FAST

No changes in colour as a result of sunlight



EASY TO CLEAN

Surface protection with **VilbostonePlus** to prevent against soiling



NON-SLIP

Non-slip class R11/B for outdoor areas



STYLE

Attractive designs for balconies, terraces, pathways and garden paths, entrances, driveways and carports





Floor tiles | BOURGOGNA GARDEN greige

BOURGOGNA GARDEN

*Cosy, natural
ambience*

The BOURGOGNA GARDEN range is characterised by its iridescent colour gradients, which pick up on the characteristic appearance of high-quality natural stone and reproduce it authentically. With its natural look, BOURGOGNA GARDEN creates a contemporary and relaxed atmosphere and fits perfectly into the Modern Country Look.









CHATEAU EDITION ONE GARDEN

*Authentic and
durable*

The porcelain stoneware concept CHATEAU EDITION ONE GARDEN combines authenticity with durability: every single tile reflects the rugged beauty of its historical models. With authentic relief structures, handcrafted edges and elegant colours, the **Vilbogarden** tiles give terraces, gardens and entrance areas an elegant vintage touch. The 20 mm thick tiles are available in a 60 x 60 cm format in the two colours cotto and creme and are very easy to clean thanks to the **VilbostonePlus** surface treatment.









Floor tiles | MEMPHIS GARDEN dark grey

MEMPHIS GARDEN

*Authentic concrete
character*

Minimalist design with charisma – with its appearance inspired by purist facing concrete, the MEMPHIS GARDEN range adds a vivid touch to modern outdoor design scenarios. The three harmonious grey variants featuring delicate plays of colour and a subtle relief conjure up an elegant minimalism in private and public areas.

















Floor tiles | MONT BLANC GARDEN silver

MONT BLANC GARDEN

*Contemporary
natural elegance*

Its vibrant quartzite look makes the MONT BLANC GARDEN range perfect for modern, subtly natural outdoor designs. While the shades of grey in silver, titan and carbon contribute a more minimalist look; the warm, beige sahara introduces a slightly Mediterranean atmosphere. A wide selection of formats makes these tiles extremely flexible and versatile.





















MONTAGNE GARDEN

*Modern beauty that
impresses with its
naturalness*

Both natural and modern: MONTAGNE GARDEN perfectly showcases the charm of natural imperfection. Its subtle relief-textured surface, inspired by quartzite and its natural colours blend harmoniously into any environment. The 20 mm thick **VilboStone** porcelain stoneware tiles in the 60 x 60 and 80 x 80 cm formats offer a high level of slip resistance R11/B and are always safe to walk on. Thanks to the special **VilbostonePlus** finish, they are also easy to clean and durable. MONTAGNE GARDEN is available in five colours, which, thanks to the authentic quartzite design and glittering pyrite effects, make each tile unique and emphasise the natural charm of the surface.









Floor tiles | MY EARTH GARDEN grey multicolor

MY EARTH GARDEN *Design freedom*

No two stones on this Earth are exactly alike, and MY EARTH GARDEN 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.

















Floor tiles | RUSTIC BLEND GARDEN medium grey

RUSTIC BLEND GARDEN

*Powerfully charming
naturalness*

With its natural charm and pure aesthetics, the RUSTIC BLEND GARDEN series creates expressive accents around the home. The 20 mm thick tiles with pronounced veins and grains skilfully play off the variety of textures and colours of natural stone. Fine natural shades derived from grey and beige natural stone enhance the authentic character of the robust, durable tiles, which are particularly hard-wearing, easy to clean and easy to maintain thanks to the **VilbostonePlus** surface finish.









SOLID TONES GARDEN

*Urban designs with
natural charm*

The SOLID TONES architectural system has been extended to include **Vilbogarden** tiles for outdoor use: 60 x 60 cm tiles in a stone look, 20 mm thick, which are perfectly suited for outdoor use and areas subject to heavy wear thanks to their R11/B slip resistance and **VilbostonePlus** surface finish that makes them easy to clean. Available in warm stone, a deep beige, and pure stone, a rich grey, these tiles with their delicate stone look create a natural sense of comfort. They combine the elegance of natural stone textures with practical functionality, offering a stylish solution with the convincing advantages of ceramics.





URBAN JUNGLE GARDEN

*Quiet minimalism
in urban bustle*

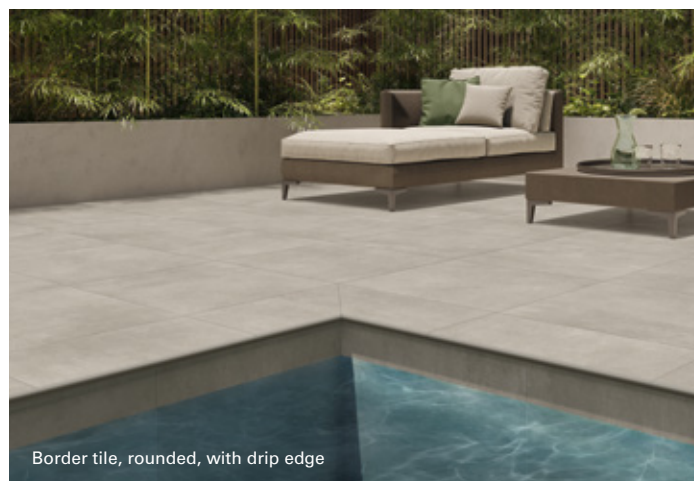
Life is throbbing in the modern urban jungle. What a good feeling it is to shift down a gear and treat oneself to a break. Relaxed setting preferred – preferably outside. With its innovative design, the URBAN JUNGLE GARDEN range is designed with this in mind: A pure concrete look is enlivened with inclusions reminiscent of hand-crafted terrazzo. Depending on your taste, there are three gentle hues that create a cooler or warm atmosphere in the outdoor setting.



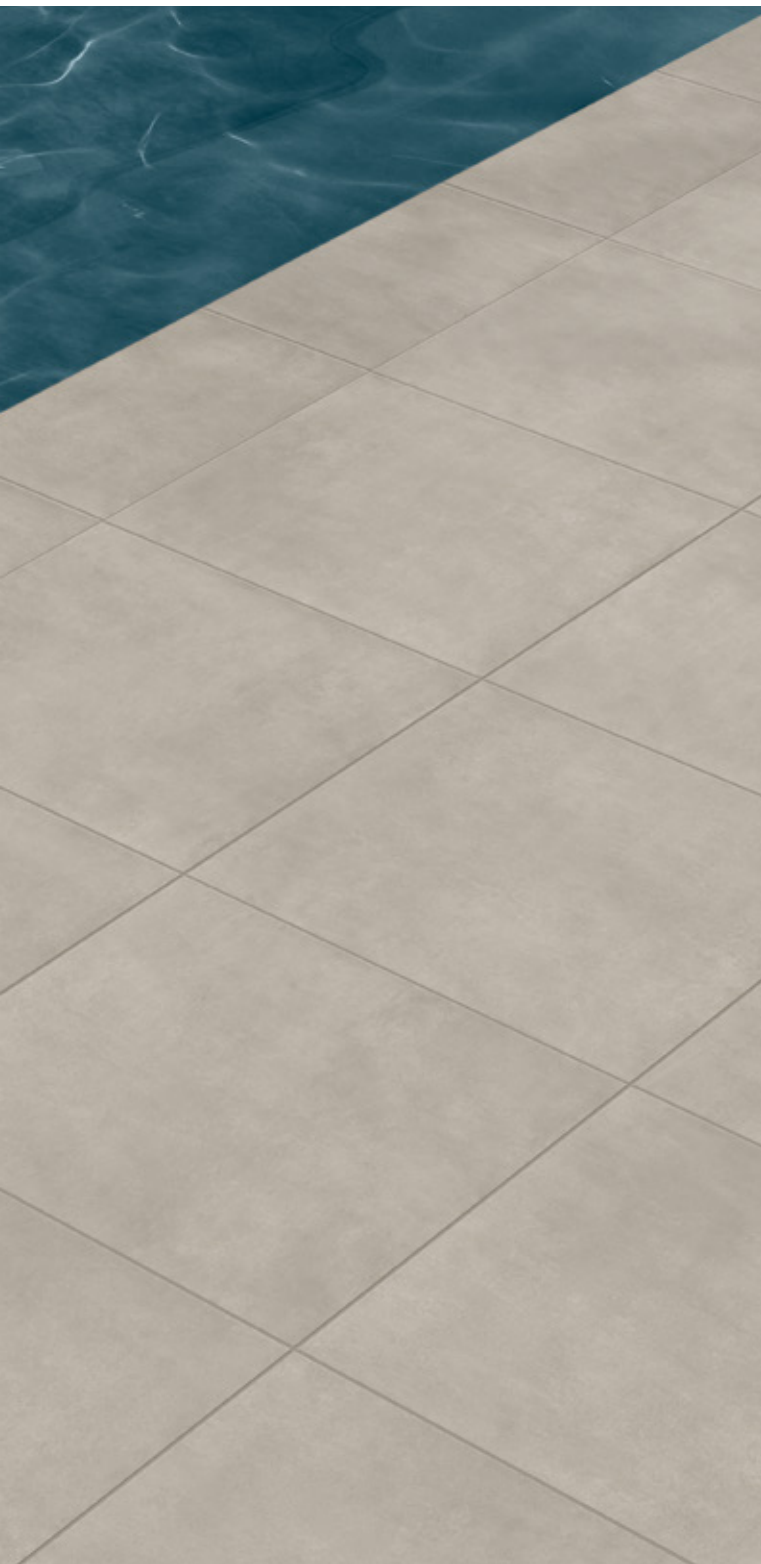




Border tile with drip edge



Border tile, rounded, with drip edge



Functional trims for outside areas

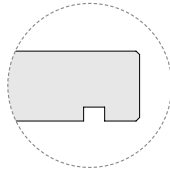
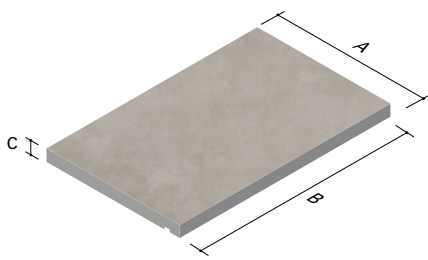
Stylish right down to the finest details - porcelain stoneware functional trims in thicknesses of 20 mm add the final touch of perfection to outdoor tiling. Nosing tiles, border tiles, corners and covers embellish terraces, gardens and private pools.


The custom-made functional trims are available for all **Vilbogarden** ranges.



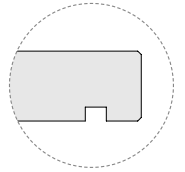
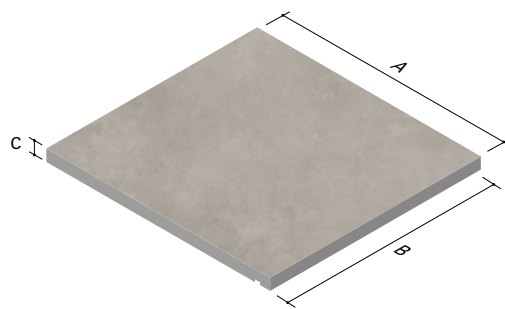
Nosing tile


Border tile with drip edge



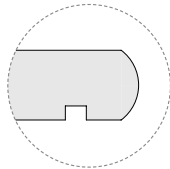
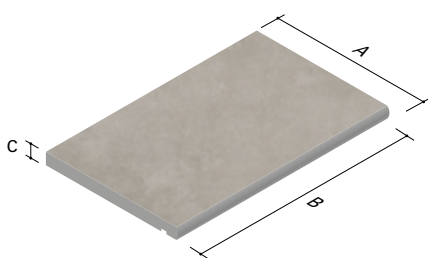
	A (mm)	B (mm)	C (mm)	Art.-Nr.
	295	595	20	28S3
	395	795	20	28S4


Border tile with drip edge



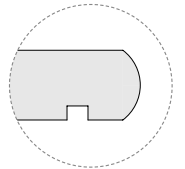
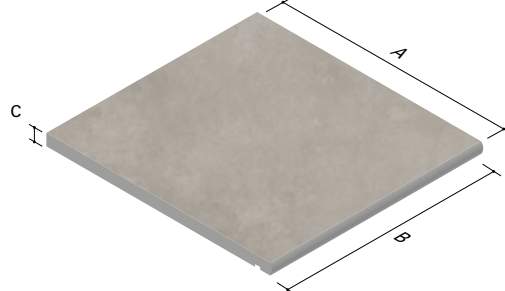
	A (mm)	B (mm)	C (mm)	Art.-Nr.
	595	595	20	28S6
	795	795	20	28S8


Border tile, rounded, with drip edge



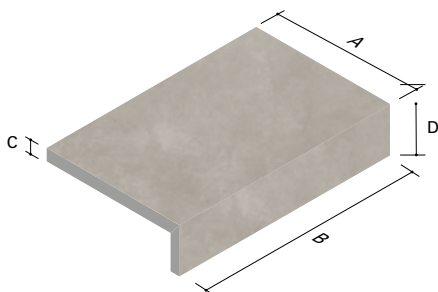
	A (mm)	B (mm)	C (mm)	Art.-Nr.
	295	595	20	28R3
	395	795	20	28R4


Border tile, rounded, with drip edge



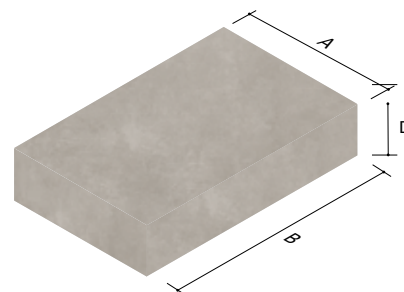
	A (mm)	B (mm)	C (mm)	Art.-Nr.
	595	595	20	28R6
	795	795	20	28R8


Nosing tile



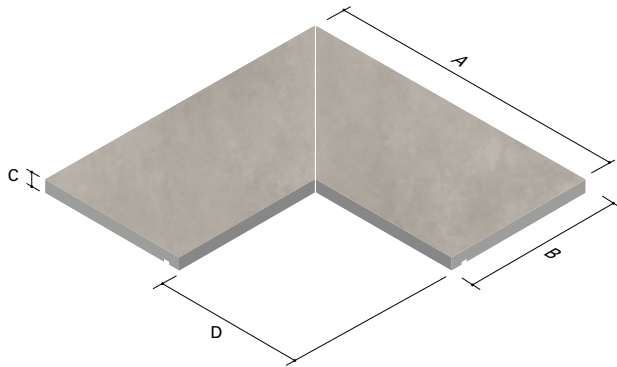
	A (mm)	B (mm)	C (mm)	D (mm)	Art.-Nr.
	350	595	20	145	28W3
	350	795	20	145	28W4


Nosing tile corner (right or left)



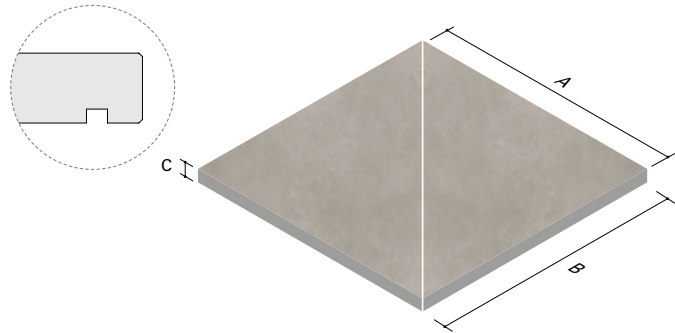
	A (mm)	B (mm)	D (mm)	Art.-Nr.
	350	595	145	28K3
	350	795	145	28K4


Border tile with drip edge - inside corner (2 pieces)



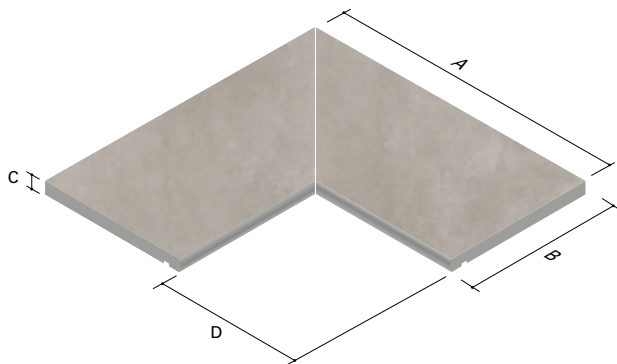
	A (mm)	B (mm)	C (mm)	D (mm)	Art.-Nr.
	591	295	20	296	28F3
	791	395	20	396	28F4


Border tile - inside corner (2 pieces)



	A (mm)	B (mm)	C (mm)	Art.-Nr.
	591	591	20	28E6
	791	791	20	28E8

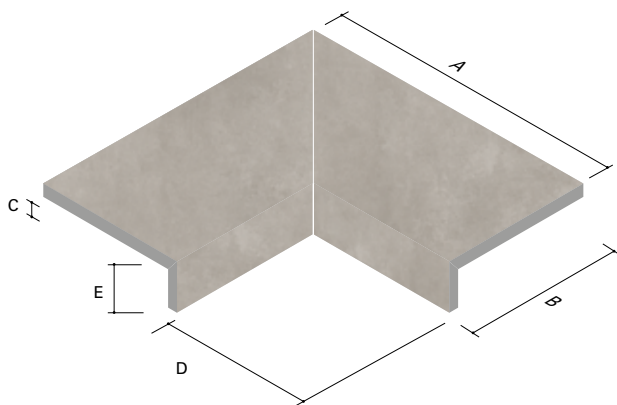
Border tile, rounded, with drip edge - inside corner (2 pieces)




	A (mm)	B (mm)	C (mm)	D (mm)	Art.-Nr.
	591	295	20	296	28E3
	791	395	20	396	28E4

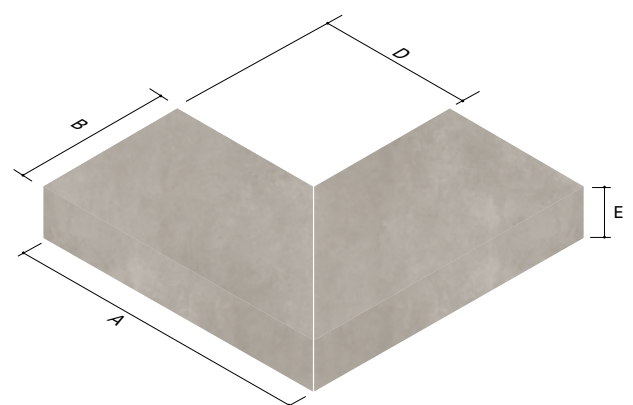
Special order only. Prices and delivery time on request.
The stated dimensions are the maximum dimensions.
Smaller lengths/heights/widths are possible on request.


Nosing tile - inside corner



	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	Art.-Nr.
	591	350	20	296	145	28V3
	791	350	20	396	145	28V4

Nosing tile - outside corner



	A (mm)	B (mm)	D (mm)	E (mm)	Art.-Nr.
	591	350	296	145	28Y3
	791	350	396	145	28Y4

Product
overviews.

BOURGOGNA GARDEN 62

PREMIUM | Country | Stone Look

CHATEAU EDITION ONE GARDEN 63

PREMIUM | Country | Stone Look

MEMPHIS GARDEN 64

PREMIUM | Metropolitan | Concrete Look

MONT BLANC GARDEN 65

PREMIUM | Country | Stone Look

MONTAGNE GARDEN 66

PREMIUM | Country | Stone Look

MY EARTH GARDEN 68

PREMIUM | Country | Stone Look

RUSTIC BLEND GARDEN 69

PREMIUM | Country | Stone Look

SOLID TONES GARDEN 70

PREMIUM | Metropolitan | Stone Look

URBAN JUNGLE GARDEN 71

PREMIUM | Metropolitan | Concrete Look

BOURGOGNA GARDEN

PREMIUM | Country | Stone Look

VilboStone
VilbostonePlus

Porcelain stoneware basic tiles

Art. 2869 · 60 x 60 cm
beige



DM20 3
 R11 B

greige



DM70 3
 R11 B

grey



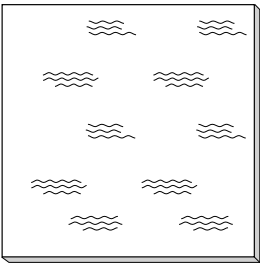
DM60 3
 R11 B

anthracite



DM90 3
 R11 B

Art. 2889
80 x 80 cm



DM20 · DM70
DM60 · DM90
 R11 B

Shade variation



beige 3



greige 3



grey 3



anthracite 3

CHATEAU EDITION ONE GARDEN

PREMIUM | Country | Stone Look

VilboStone
VilbostonePlus

Porcelain stoneware basic tiles

Art. 2895 · 60 x 60 cm

creme



CA10 3

cotto



CA30 3

Shade variation



creme

3



cotto

3

MEMPHIS GARDEN

PREMIUM | Metropolitan | Concrete Look

VilboStone
VilbostonePlus

Porcelain stoneware basic tiles

Art. 2863 · 60 x 60 cm
silver grey



MT06 2

R11 B

warm grey



MT70 2

R11 B

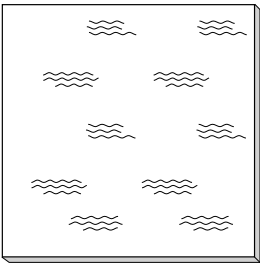
dark grey



MT60 2

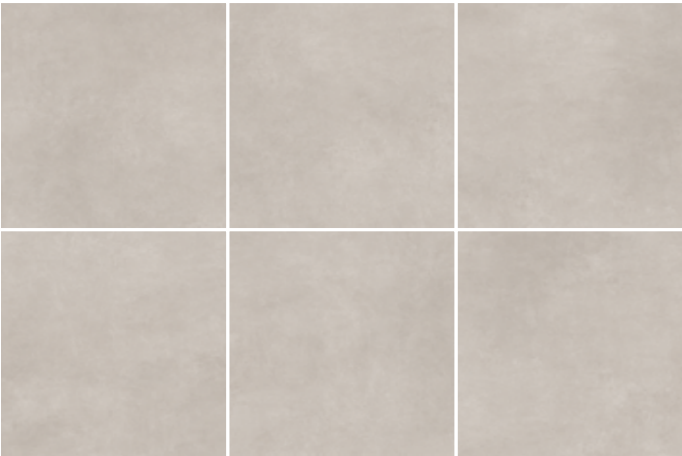
R11 B

Art. 2891
80 x 80 cm



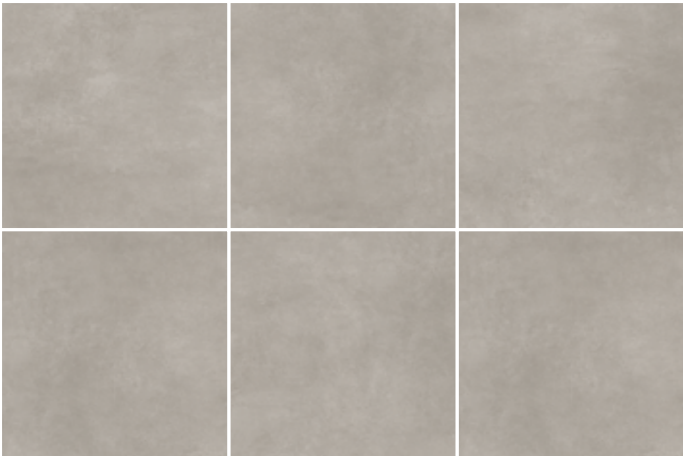
MT06 · MT70 · MT60
 R11 B

Shade variation



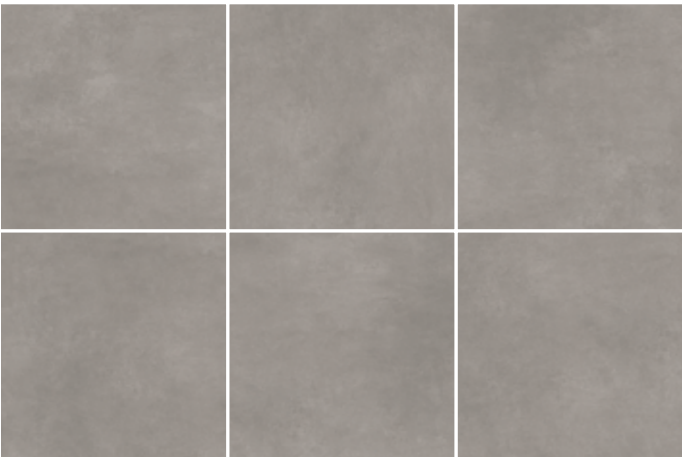
silver grey

2



warm grey

2



dark grey

2

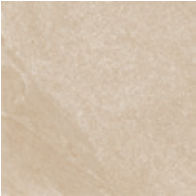
MONT BLANC GARDEN

PREMIUM | Country | Stone Look

VilboStone
VilbostonePlus

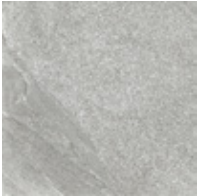
Porcelain stoneware basic tiles

Art. 2869 · 60 x 60 cm
sahara



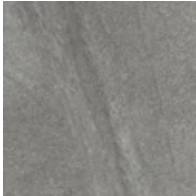
GS20 3
 R11

silver



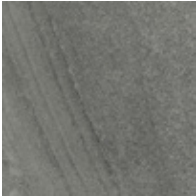
GS06 3
 R11

titan



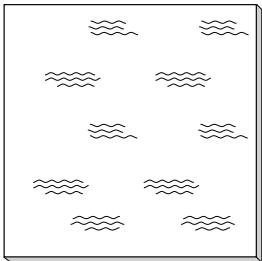
GS60 3
 R11

carbon



GS90 3
 R11

Art. 2889
80 x 80 cm

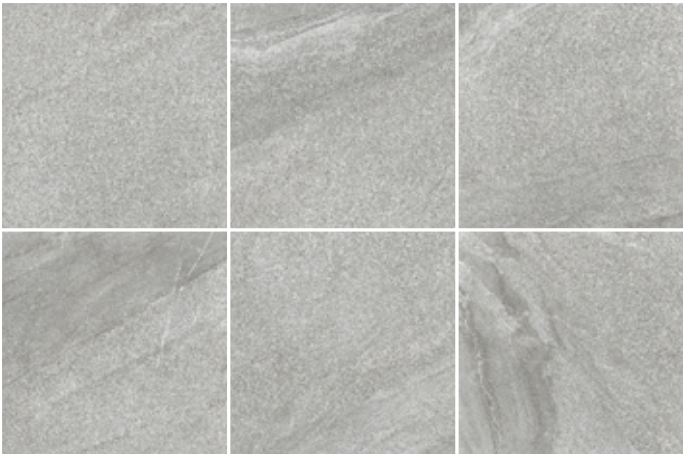


GS20 · GS06
GS60 · GS90
 R11

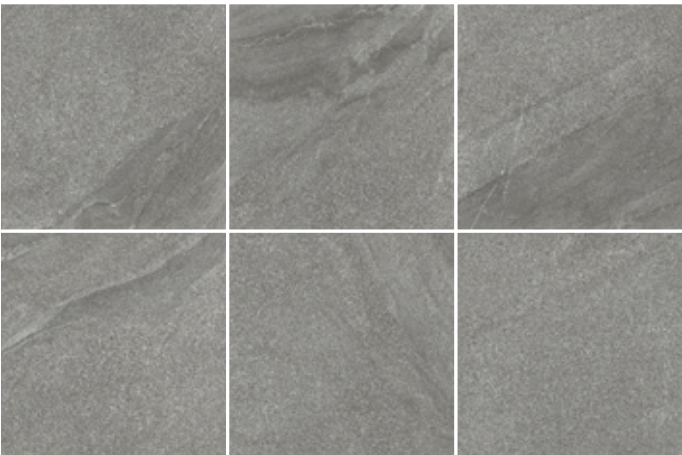
Shade variation



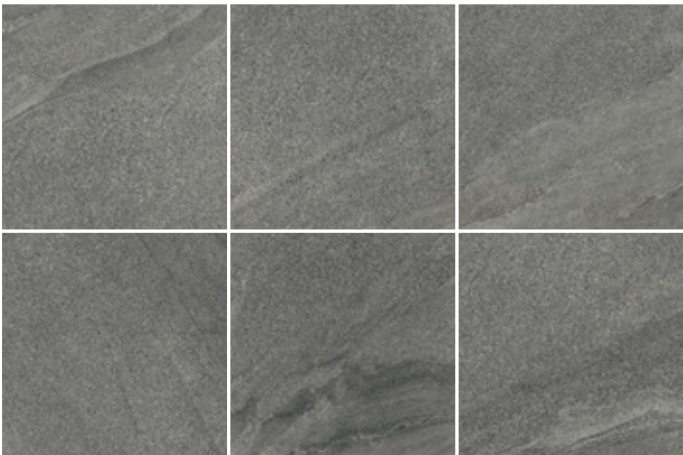
sahara 3



silver 3



titan 3



carbon 3

MONTAGNE GARDEN

PREMIUM | Country | Stone Look

VilboStone
VilbostonePlus

Porcelain stoneware basic tiles

Art. 2864 · 60 x 60 cm

ivory



RC10 3
 R11 B

taupe



RC20 3
 R11 B

silver warm



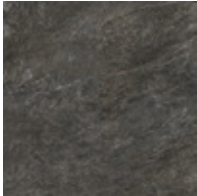
RC70 3
 R11 B

graphite



RC60 3
 R11 B

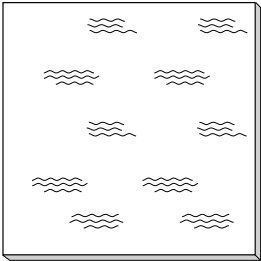
anthracite



RC90 3
 R11 B

Art. 2886

80 x 80 cm



RC10 · RC20 · RC70
RC60 · RC90
 R11 B

MONTAGNE GARDEN

PREMIUM | Country | Stone Look

Shade variation



ivory



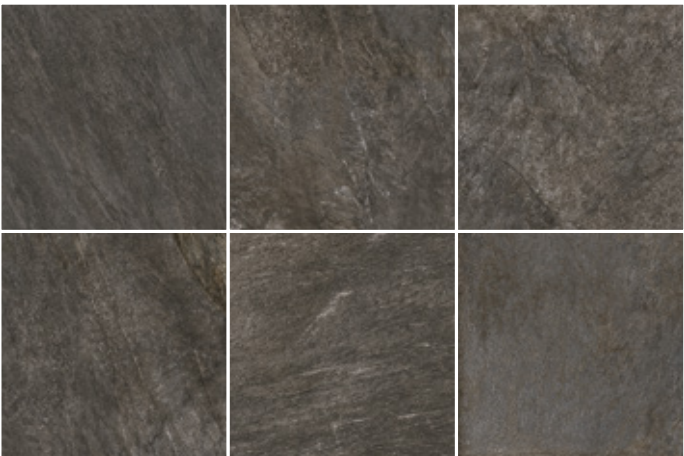
taupe



silver warm



graphite



anthracite



MY EARTH GARDEN

PREMIUM | Country | Stone Look

VilboStone
VilbostonePlus

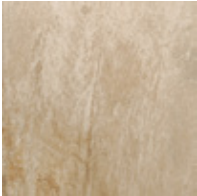
Porcelain stoneware basic tiles

Art. 2802 · 60 x 60 cm
light beige



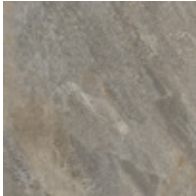
RU10 3

beige multicolor



RU20 3

grey multicolor



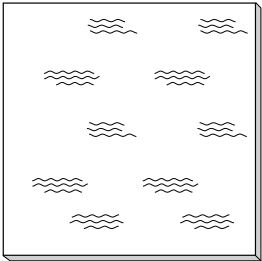
RU60 3

anthracite multicolor



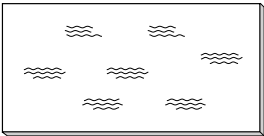
RU90 3

Art. 2816
80 x 80 cm



RU10 · RU60 · RU90

Art. 2806
40 x 80 cm



RU10 · RU20 · RU60 · RU90

Shadevariation



light beige

3



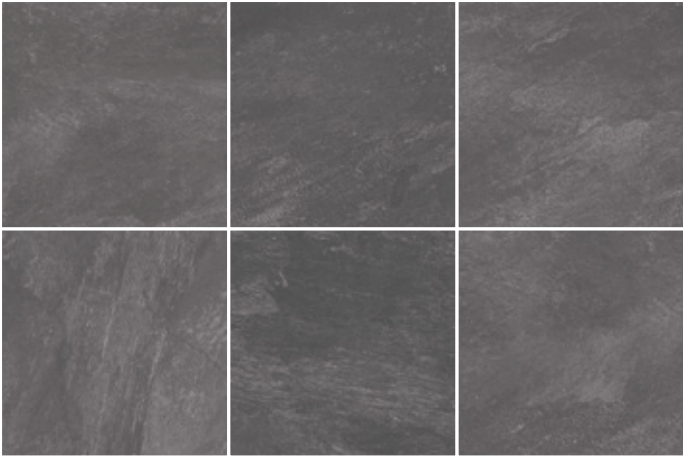
beige multicolor

3



grey multicolor

3



anthracite multicolor

3

Signs & symbols page 72

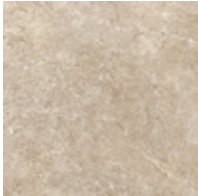
RUSTIC BLEND GARDEN

PREMIUM | Country | Stone Look

VilboStone
VilbostonePlus

Porcelain stoneware basic tiles

Art. 2867 · 60 x 60 cm
beige



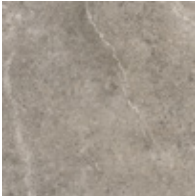
RS20 3
 R11 B

light grey



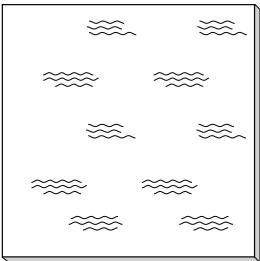
RS60 3
 R11 B

medium grey



RS61 3
 R11 B

Art. 2882
80 x 80 cm



RS20 · RS60 · RS61
 R11 B

Shadevariation



beige 3



light grey 3



medium grey 3

SOLID TONES GARDEN

PREMIUM | Metropolitan | Stone Look

VilboStone
VilbostonePlus

Porcelain stoneware basic tiles

Art. 2863 · 60 x 60 cm

warm stone



PS70 2

R11 B

pure stone



PS61 2

R11 B

Shade variation



warm stone

2



pure stone

2

URBAN JUNGLE GARDEN

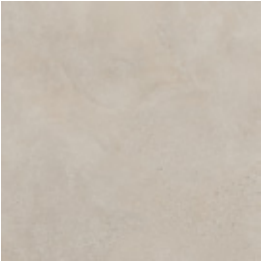
PREMIUM | Metropolitan | Concrete Look

VilboStone
VilbostonePlus

Porcelain stoneware basic tiles

Art. 2888 · 80 x 80 cm

greige



TC70 2 R11

grey



TC60 2 R11

dark grey



TC90 3 R11

Shade variation



greige 2



grey 2



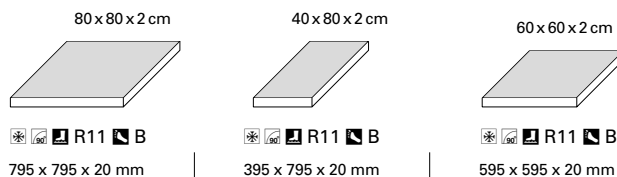
dark grey 3

OVERVIEW OF PRODUCTS

VilboStone VilbostonePlus



Basic tiles
Tile thickness 20 mm



					795 x 795 x 20 mm	395 x 795 x 20 mm	595 x 595 x 20 mm
BOURGOGNA GARDEN		DM20	beige	3	Art. 2889		Art. 2869
		DM70	greige	3	Art. 2889		Art. 2869
		DM60	grey	3	Art. 2889		Art. 2869
		DM90	anthracite	3	Art. 2889		Art. 2869
CHATEAU EDITION ONE GARDEN		CA10	creme	3			Art. 2895
		CA30	cotto	3			Art. 2895
MEMPHIS GARDEN		MT06	silver grey	2	Art. 2891		Art. 2863
		MT70	warm grey	2	Art. 2891		Art. 2863
		MT60	dark grey	2	Art. 2891		Art. 2863
MONT BLANC GARDEN		GS20	sahara	3	Art. 2889		Art. 2869
		GS06	silver	3	Art. 2889		Art. 2869
		GS60	titan	3	Art. 2889		Art. 2869
		GS90	carbon	3	Art. 2889		Art. 2869
MONTAGNE GARDEN		RC10	ivory	3	Art. 2886		Art. 2864
		RC20	taupe	3	Art. 2886		Art. 2864
		RC70	silver warm	3	Art. 2886		Art. 2864
		RC60	graphite	3	Art. 2886		Art. 2864
		RC90	anthracite	3	Art. 2886		Art. 2864
MY EARTH GARDEN		RU10	light beige	3	Art. 2816	Art. 2806	Art. 2802
		RU20	beige multicolor	3		Art. 2806	Art. 2802
		RU60	grey multicolor	3	Art. 2816	Art. 2806	Art. 2802
		RU90	anthracite multicolor	3	Art. 2816	Art. 2806	Art. 2802
RUSTIC BLEND GARDEN		RS20	beige	3	Art. 2882		Art. 2867
		RS60	light grey	3	Art. 2882		Art. 2867
		RS61	medium grey	3	Art. 2882		Art. 2867
SOLID TONES GARDEN		PS70	warm stone	2			Art. 2863
		PS61	pure stone	2			Art. 2863
URBAN JUNGLE GARDEN		TC70	greige	2	Art. 2888		
		TC60	grey	2	Art. 2888		
		TC90	dark grey	3	Art. 2888		
Unit of measure					m ² 41,30 kg 1,56 pce	m ² 45,72 kg 3,31 pce	m ² 41,47 kg 2,78 pce
Par box					0,64 m ² 26,43 kg 1 pce	0,64 m ² 29,26 kg 2 pce	0,72 m ² 29,86 kg 2 pce
Par palett					23,04 m ² 1057,28 kg 40 box	17,28 m ² 790,02 kg 27 box	21,60 m ² 895,80 kg 30 box
Min. sales unit					P (box)	P (box)	P (box)
Calculation unit					m ²	m ²	m ²

TECHNICAL PROPERTIES

VilboStone unglazed porcelain stoneware in acc. with DIN EN 14411, Group BIa (Water Absorption E ≤ 0.5%)

Grouping: Table ZA.1.1 Outdoor floor covering



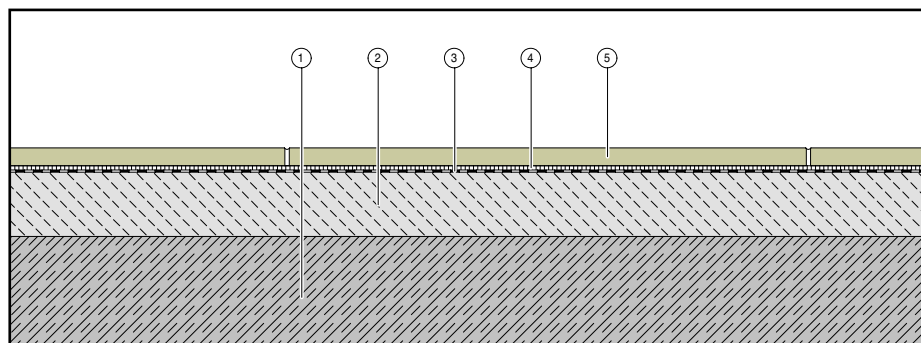
Characterization	Test according to DIN EN ISO	Requirements	Test result 40 x 80 cm	Test result 60 x 60 cm
Dimensions	10545-2	Compliance to the tolerances required	Passed	Passed
Surface quality	10545-2	min. 95 % free from visible defects	Passed	Passed
Water absorption % by weight	10545-3	≤ 0,5 / individual max. 0,6%	< 0,5	< 0,5
Modulus of rupture in N/mm ²	10545-4	min. 35 N/mm ² individual min. 32 N/mm ²	≥ 45	≥ 45
Breaking strength	10545-4	min. 700N (thickness <7,5 mm) min. 1.300N (thickness ≥7,5 mm)	≥ 11.200	≥ 11.200
Breaking load	10545-4	Declared value	≥ 5.700	≥ 11.400
Resistance of impact (Measurement of the rebound coefficient)	10545-5	Declared value	≥ 0,55	≥ 0,55
Resistance to deep abrasion	10545-6	max. 175 mm ³	≤ 145	≤ 145
Linear thermal expansion from ambient temperature to 100° C in K ⁻¹	10545-8	Declared value	Not tested	Not tested
Thermal shock resistance	10545-9	Declared value	Not tested	Not tested
Moisture expansion in mm/m	10545-10	Declared value	Not tested	Not tested
Frost resistance	10545-12	Required	Passed	Passed
Resistance to household chemicals and swimming pool salts	10545-13	min. class B	A	A
Resistance to acids and alkalics - low concentration	10545-13	Declared value	LA	LA
Resistance to acids and alkalics - high concentraton	10545-13	Declared value	HA/HB	HA/HB
Resistance to staining	10545-14	min. class 3	Class 5	Class 5
Release of lead and cadmium	10545-15	Declared value	Not tested	Not tested
Minor differences in colour	10545-16	ΔEcmc < 1.0	Not tested	Not tested
Determination of slip-resistance – commercial area	CEN/TS 16165	Declared value	R11	R11
Determination of slip-resistance – barefoot area	CEN/TS 16165	Declared value	B	B

LAYING VARIANTS

In recent years, ceramic tiles made of unglazed porcelain stoneware, pursuant to DIN 14411, Group Bla (water absorption $\leq 0.5\%$) and with a thickness of 20 mm, have become indispensable in the selection of materials for the planning and realisation of private and public outdoor areas. The ZDB flyer on 'Outdoor Tiles' provides a complete description of covering designs for ceramic slabs. Ceramic slabs can accomplish a lot, and in many respects their properties exceed those specified in the regulations and flyers for the materials commonly used in landscape gardening. VILBOGARDEN tiles are perfectly suited for the different installation options. Given their high weight, at a thickness of 20 mm, VILBOGARDEN tiles can be depended upon to remain in place.

If the installation is to be carried out according to ZTV Path Construction, the VILBOGARDEN tiles must be installed in bonded form. With their extremely high breaking load, when used as self-supporting slabs, VILBOGARDEN tiles are the perfect material to use on pile foundations or load-bearing grid structures. The following pages offer a summary of the most important technical information and recommendations for processing as well as the areas of application and use. These are general recommendations. The local installation scenario and the recognized rules of technology must be factored into any planning and execution. All the information provided here is non-binding.

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 in
- ④ acc. with DIN 18531-5
- ⑤ Thin-bed mortar
- ⑥ VILBOGARDEN tiles

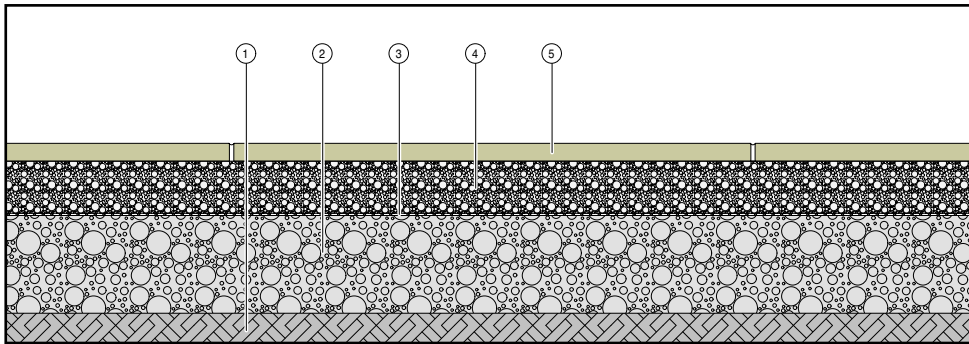
Areas of application

Terraces, balconies, outdoor areas with low overall height in residential construction, hotels, sports and wellness areas and healthcare facilities, in buildings for culture and education, office and industrial buildings, etc. Installed appropriately on suitable terrain, these tiles can be driven over by motor vehicles.

① Underground floor slab or concrete cantilever slab
② Sloping screed
③ Composite seal Recommendation: Thin bed drainage, bottom ventilation, isolation. Here, suitability for areas subject to use by vehicles must be checked and the suitable system selected.
④ Thin-bed mortar
⑤ VILBOGARDEN tiles
Joints: hydraulically setting thin-bed mortar for outdoor use!! Movement joints suitable to thermal load/expansion
Slope: Surface slope of at least 2%

LAYING VARIANTS

Laying on gravel beds as necessary with contact layer/Bonding course



Loose laying on gravel bed

- ① Natural soil
- ② Rough gravel support
- ③ Water-permeable covering
- ④ Gravel bed
- ⑤ VILBOGARDEN tiles as necessary with contact layer

Unbonded installation	Bonded installation
Areas of application Private terraces and paths; outdoor lounges in hotels, sports and wellness areas, buildings with healthcare applications; cultural buildings; schools and kindergartens, etc.	Areas of application Private and public spaces and paths, garage driveways, private car parking spaces, etc.
Paving NOT suitable for vehicle traffic.	Paving SUITABLE FOR VEHICLE TRAFFIC outside of road traffic for vehicles with a permissible gross weight of up to 3.5 t. Can occasionally be driven over by vehicles with a permissible gross weight of up to 20 t with wheel loads of max. 5 t, e.g. for care and maintenance work.
① natural/load-bearing soil	① natural/load-bearing soil
② Bearing course/frost-protection layer	② Bearing course/frost-protection layer
③ water-permeable covering	③ If necessary water-permeable covering – depending on the load
④ gravel bed without binder, water-permeable	④ Drainage concrete, thickness in accordance with load (if necessary additional drainage concrete for high loads)
⑤ VILBOGARDEN tiles 20 mm with border, if necessary contact layer	⑤ VILBOGARDEN tiles 20 mm with contact layer (Flex adhesive) largely full-surface, applied only to the backs of the tiles
Joints: unbonded, water-permeable sand joint, 3-5 mm or bonded, water-permeable joint with binder consisting of cold-curing resin or polybutadiene as permeable joint* 3-5 mm !! Movement joints *suitable to thermal load/expansion.	Joints: bonded, water-permeable joint with binder consisting of cold-curing resin or polybutadiene as permeable joint* 3-5 mm !! Movement joints *suitable to thermal load/expansion.
Slope: Surface slope of at least 2%	Slope: Surface slope of at least 2%

Recommendations:

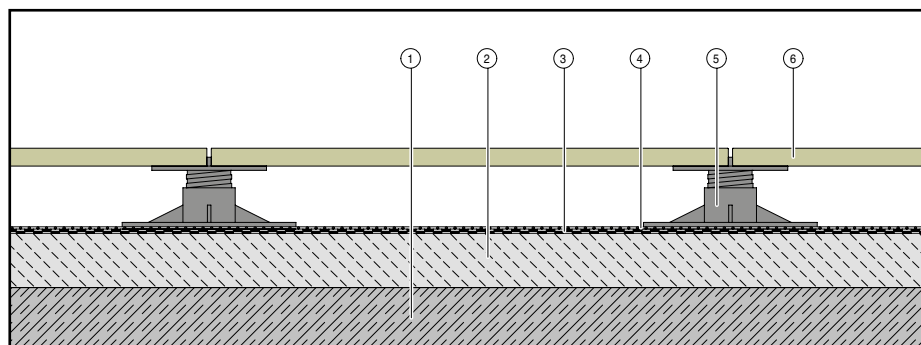
- Installing joint junctions secures slabs loosely installed in a gravel bed.
- In the case of loose installation, a border must be installed at the free ends.
- Junctions to buildings or fixed elements must take installation of spacing joints into account.

Technical rules and information

ZDB flyer entitled 'Belagskonstruktionen mit Fliesen und Platten außerhalb von Gebäuden' ('Outdoor Tiled and Paved Coverings')

LAYING VARIANTS

Laying on pile foundations or mortar bags



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

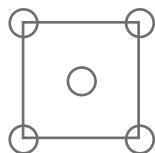
- ① Uncovered floor
- ② Sloping screed
- ③ Seal in accordance with DIN 18531-5
- ④ Protective mat
- ⑤ Pile foundations / mortar bags
- ⑥ VILBOGARDEN tiles

Load-bearing capacity of the tiles with 20-mm thickness

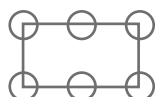
Format 60 x 60 and 80 x 80, breaking load/strength of 13,500-15,000 N



Tiles in 60 x 60-cm format can be subjected of loads of up to 250 kg with 4 pile foundations at the corners.



Tiles in 80 x 80-cm format can be subjected to loads of up to 250 kg with 4 pile foundations at the corners and an additional pile foundation in the middle.



Tiles in rectangular formats of 40 x 80 and 40 x 120 cm can be subjected to loads of up to 200 kg with 4 pile foundations at the corners and one at each of the long sides.

Installations on roof terraces must take wind loads into account. Suitable structural elements must be installed, e.g. roof parapets and/or special constructions offered by providers of pile-foundation systems. Taking the load distribution into account, it is possible to set up whirlpools, decorative water basins, planters, etc., within the scope of the disclosures on load-bearing capacity provided above, if carried out correctly following a review of the installation scenario on site. Loads above and beyond these will require special measures and consultation of a structural planner.

The quantity and load specifications shown here are for information purposes only. As the number of pile foundations depends on the recommendations of the system manufacturers and the local installation scenario, V&B Fliesen GmbH can assume no liability for the installed overall construction.

General information for usage

Planters, furniture and umbrellas must have a bearing surface of at least 250 cm² (16 x 16 cm) or, for 4 bearing surfaces, at least 3 x 3 cm per bearing. For smaller bearing surfaces, the possible total weight is reduced. Objects must be placed in such a way as to ensure even distribution, so that the entire weight does not first rest on a point or an edge. When using objects with metal feet, the tiles must be protected through underlayment of softer, load-bearing buffers, e.g. made of plastic.

Recommendation

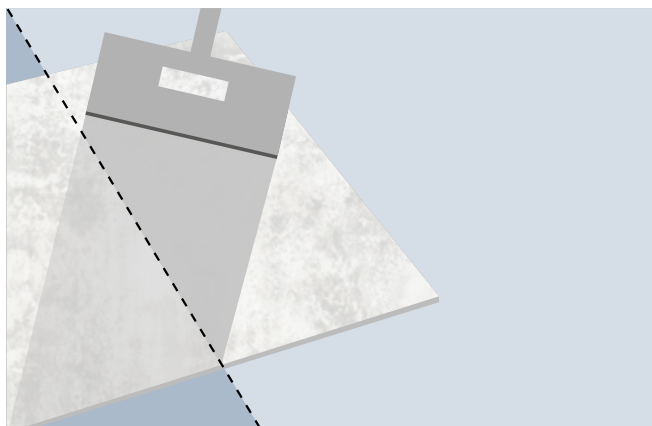
In the event of particular safety requirements, a suitable glass-fibre mesh, for example, can easily be applied to the underside of the tiles.

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!



Insusceptible to staining and soiling

VilbostonePlus

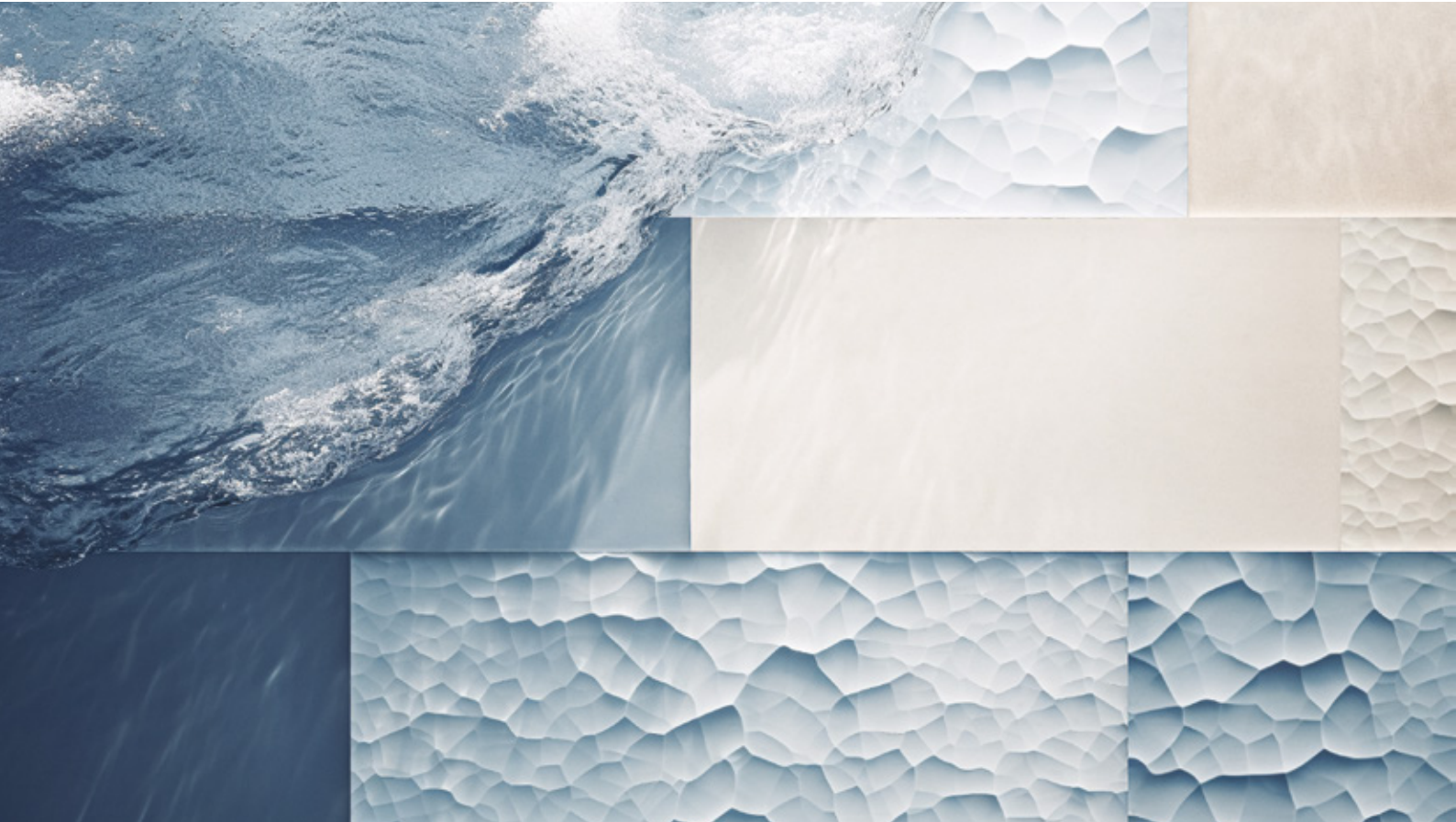
During the manufacturing process for coloured porcelain stoneware, the unglazed ceramic is provided with the **VilbostonePlus** finish, markedly reducing the tiles' susceptibility to staining and soiling. The porcelain stoneware produced with **VilbostonePlus** ensures high resistance to mechanical strain, chemicals, wear and abrasion and is particularly easy-care.

Cleaning

Final cleaning after tiling / Basic cleaning	Product and dosage	Cleaning equipment
Loose dirt	-	Broom and vacuum cleaner
Cement film, mineral soiling, such as lime-scale 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.

Sustainability – Thinking and acting responsibly for the future of future generations.



Developing durable materials and designs, using natural resources sparingly and using environmentally friendly production methods – V&B Fliesen GmbH has been focusing on sustainability for many years, aware of its responsibility towards future generations.

Currently, all divisions and processes are aligned with the new growth strategy of the European Green Deal, which sets important sustainability goals. These include achieving zero net greenhouse gas emissions by 2050 and ending dependence on fossil fuels.

For climate protection

A central building block in the direction of a sustainable future is the continuous improvement of energy efficiency: through investments in state-of-the-art facilities, special energy efficiency projects, process optimizations and digitalization measures, it has been improved by 8 percent in the past two years. In the future, most of the electricity demand will also be covered by the company's own photovoltaic systems, and the first PV systems are in operation.

In addition, the use of resources is steadily reduced. Thanks to new burner systems and consistent use of waste heat, significantly less natural gas is already being consumed in the production facilities than before. At the same time, the circular economy is being expanded: the production wastewater and the solids it contains are almost completely recycled. In this way, tiles can be produced that contain up to 30 percent recycled materials. In order to reduce the ecological footprint even further, the products have also been modified: with the conversion of the wall tile thickness to 7 mm, less ceramic mass is used. This saves valuable resources and reduces CO2 emissions during production and transport.

For sustainable construction

Villeroy & Boch tiles are certified with the international EPD label (Environmental Product Declaration) and thus meet all the criteria for sustainable construction. The globally recognised certification allows architecture and planning offices to use Villeroy & Boch tiles in all properties that are classified according to BREEAM, LEED, DGNB, QNG or other comparable international declarations.



The careful use of resources is a central goal of Villeroy & Boch Tiles. Learn more about our commitment to sustainable production:

villeroy-boch-tiles.com/about-us/sustainability

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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.