



OUTDOOR TILES





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Floor tiles: MY EARTH OUTDOOR20 grey multicolour

- Highly resistant vilbostone porcelain stoneware for stylish designs in public and private outdoor areas
- One-piece body made of solid, durable ceramic in material thickness of 20 mm
- Light-fast and easy to clean, thanks to vilbostone**plus** surface seal
- Extremely frost-proof and weather-resistant, thanks to low water absorption
- R11/B slip resistance for the high demands in terms of non-slip flooring in outdoor areas, in wet areas too
- Suitable for loose laying in a grit bed or for pile foundations or fixed laying in a mortar bed
- Trendy designs, to match selected 10-mm-thick porcelain stoneware ranges, for a uniform look in living spaces and outdoor areas
- Matching accessories: Custom-made nosing tiles, 20 mm, for functional and aesthetic stairtread solutions and edging tiled areas

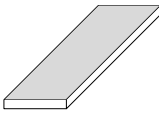
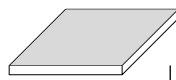
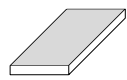
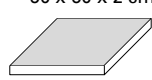
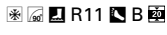
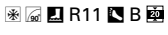
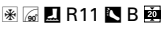
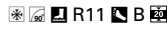












































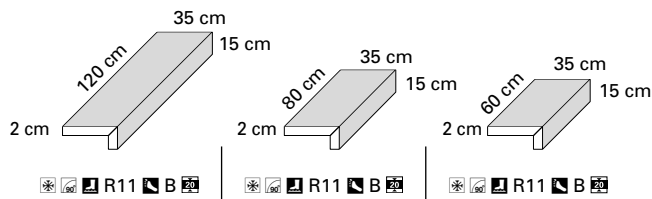
# Overview of products

## Basic tile

|                              |   |      |                           |   | 40 x 120 x 2 cm   | 80 x 80 x 2 cm   | 40 x 80 x 2 cm  | 60 x 60 x 2 cm  |
|------------------------------|---|------|---------------------------|---|---|--|---|---|
|                              |   |      |                           |   |  |  |  |  |
|                              |   |      |                           |   |  |  |  |  |
| CÁDIZ<br>OUTDOOR20           |    | BU2M | sand                      |    |   |  | Art. 2807   | Art. 2803   |
|                              |    | BU1M | chalk<br>multicolor       |    |   |  | Art. 2807   | Art. 2803   |
|                              |    | BU7M | grey<br>multicolor        |    |   |  | Art. 2807   | Art. 2803   |
| MY EARTH<br>OUTDOOR20        |    | RU10 | light beige               |    |   | Art. 2816  | Art. 2806   | Art. 2802   |
|                              |    | RU20 | beige<br>multicolour      |    |   |  | Art. 2806   | Art. 2802   |
|                              |    | RU60 | grey<br>multicolour       |    |   | Art. 2816  | Art. 2806   | Art. 2802   |
|                              |    | RU90 | anthracite<br>multicolour |    |   | Art. 2816  | Art. 2806   | Art. 2802   |
| OAK PARK<br>OUTDOOR20        |    | HR10 | crema                     |    | Art. 2821   |  |   |   |
|                              |    | HR20 | chalete                   |    | Art. 2821   |  |   |   |
|                              |    | HR30 | brandy                    |    | Art. 2821   |  |   |   |
|                              |    | HR80 | cacao                     |    | Art. 2821   |  |   |   |
| TUCSON<br>OUTDOOR20          |  | RN10 | light rock                |  |   | Art. 2819  |   | Art. 2808   |
|                              |  | RN20 | sunny rock                |  |   | Art. 2819  |   | Art. 2808   |
|                              |  | RN60 | warm rock                 |  |   | Art. 2819  |   | Art. 2808   |
|                              |  | RN90 | black rock                |  |   | Art. 2819  |   | Art. 2808   |
| URBAN<br>JUNGLE<br>OUTDOOR20 |  | TC10 | light grey                |  |   | Art. 2888  |   |   |
|                              |  | TC70 | greige                    |  |   | Art. 2888  |   |   |
|                              |  | TC60 | grey                      |  |   | Art. 2888  |   |   |
|                              |  | TC90 | dark grey                 |  |   | Art. 2888  |   |   |
| Material                     |   |      |                           |   | vilbostone unglazed<br>porcelain stoneware,<br>EN 14411-B1a                       | vilbostone unglazed<br>porcelain stoneware,<br>EN 14411-B1a                        | vilbostone unglazed<br>porcelain stoneware,<br>EN 14411-B1a                         | vilbostone unglazed<br>porcelain stoneware,<br>EN 14411-B1a                         |
| Applications                 |   |      |                           |   | Floors – indoors /<br>outdoors  | Floors – indoors /<br>outdoors   | Floors – indoors /<br>outdoors  | Floors – indoors /<br>outdoors  |
| Actual size                  |   |      |                           |   | 395 x 1195 x 20 mm  | 795 x 795 x 20 mm  | 395 x 795 x 20 mm   | 595 x 595 x 20 mm   |
| Joints approx                |   |      |                           |   | 5 mm  | 5 mm   | 5 mm  | 5 mm  |
| Surface   Glaze              |   |      |                           |   | relief   matt vilbostone <sup>plus</sup>  | relief   matt vilbostone <sup>plus</sup>   | relief   matt vilbostone <sup>plus</sup>  | relief   matt vilbostone <sup>plus</sup>  |
| Calculation unit   Packing   |   |      |                           |   | m <sup>2</sup>   loose in box   | m <sup>2</sup>   loose in box  | m <sup>2</sup>   loose in box   | m <sup>2</sup>   loose in box   |
| Price group                  |   |      |                           |   | P122  | P132   | P121  | P120  |
| Special points               |   |      |                           |   |   |  |   |   |

# Overview of products

## Nosing tile\*



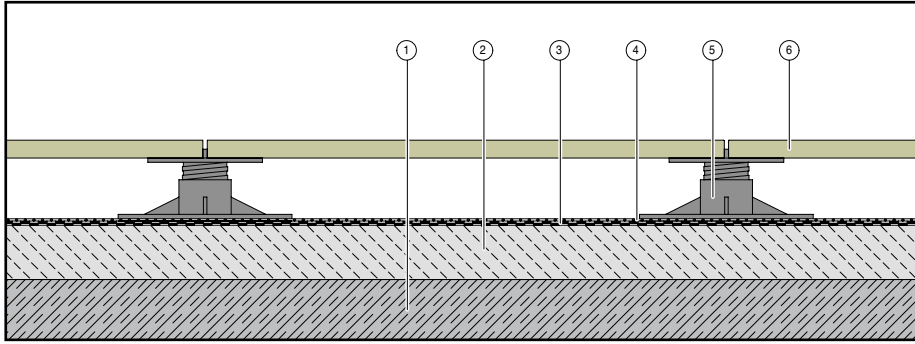
|   |   |   |                            |      |  |                              |
|---|---|---|----------------------------|------|--|------------------------------|
|   | Art. 2884   | Art. 2883   | sand                       | BU2M |  | CÁDIZ<br>OUTDOOR20           |
|   | Art. 2884   | Art. 2883   | chalk<br>multicolor        | BU1M |  |                              |
|   | Art. 2884   | Art. 2883   | grey<br>multicolor         | BU7M |  |                              |
|   | Art. 2884   | Art. 2883   | light beige                | RU10 |  | MY EARTH<br>OUTDOOR20        |
|   | Art. 2884   | Art. 2883   | beige<br>multicolour       | RU20 |  |                              |
|   | Art. 2884   | Art. 2883   | grey<br>multicolour        | RU60 |  |                              |
|   | Art. 2884   | Art. 2883   | anthracite<br>multicolour  | RU90 |  |                              |
| Art. 2885   |   |   | crema                      | HR10 |  | OAK PARK<br>OUTDOOR20        |
| Art. 2885   |   |   | chalette                   | HR20 |  |                              |
| Art. 2885   |   |   | brandy                     | HR30 |  |                              |
| Art. 2885   |   |   | cacao                      | HR80 |  |                              |
|   | Art. 2884   | Art. 2883   | light rock                 | RN10 |  | TUCSON<br>OUTDOOR20          |
|   | Art. 2884   | Art. 2883   | sunny rock                 | RN20 |  |                              |
|   | Art. 2884   | Art. 2883   | warm rock                  | RN60 |  |                              |
|   | Art. 2884   | Art. 2883   | black rock                 | RN90 |  |                              |
|   | Art. 2884   |   | light grey                 | TC10 |  | URBAN<br>JUNGLE<br>OUTDOOR20 |
|   | Art. 2884   |   | greige                     | TC70 |  |                              |
|   | Art. 2884   |   | grey                       | TC60 |  |                              |
|   | Art. 2884   |   | dark grey                  | TC90 |  |                              |
| vilbostone unglazed<br>porcelain stoneware,<br>EN 14411-B1a | vilbostone unglazed<br>porcelain stoneware,<br>EN 14411-B1a | vilbostone unglazed<br>porcelain stoneware,<br>EN 14411-B1a | Material                   |      |  |                              |
| Floors – indoors /<br>outdoors                              | Floors – indoors /<br>outdoors                              | Floors – indoors /<br>outdoors                              | Applications               |      |  |                              |
| 350 x 1195 x 145 mm x<br>20 mm                              | 350 x 795 x 145 mm x<br>20 mm                               | 350 x 595 x 145 mm x<br>20 mm                               | Actual size                |      |  |                              |
| 5 mm  | 5 mm  | 5 mm  | Joints approx              |      |  |                              |
| relief   matt vilbostoneplus                                | relief   matt vilbostoneplus                                | relief   matt vilbostoneplus                                | Surface   Glaze            |      |  |                              |
| Piece   loose   | Piece   loose   | Piece   loose   | Calculation unit   Packing |      |  |                              |
| E164  | E155  | E144  | Price group                |      |  |                              |
| Custom-made production. Delivery time on request.           |   |   | Special points             |      |  |                              |

\* The depth of the tile and height of the edging can be specified as required.  
The nosing tile can be used to edge a tiled area or as a stair tread.



# 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 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:

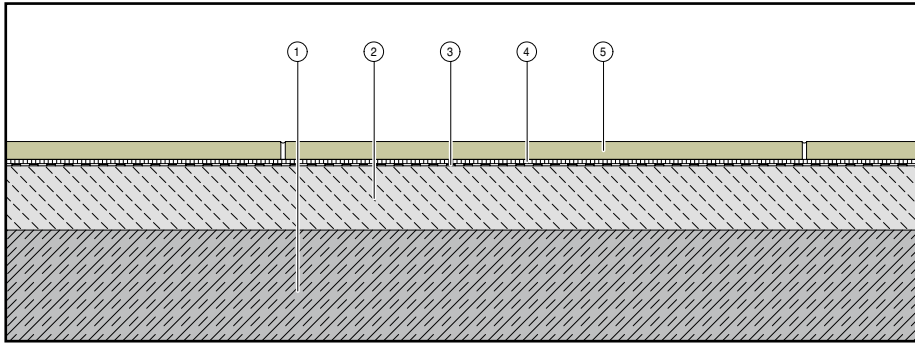
- Prepare the substrate with a slope of at least 2% and seal in accordance with DIN 18531-5
- In order to protect against mechanical impairment, a protective mat should also be installed over the waterproofing
- A vapour barrier is required above heated rooms
- Place the pile foundations or mortar bags (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





# Laying variants

## 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 acc. with DIN 18531-5
- ④ Mortar bed
- ⑤ OUTDOORTILES

### Advantages:

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

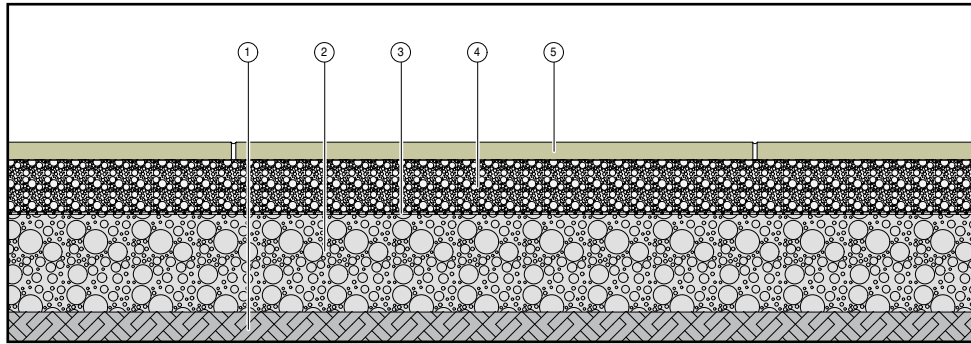
### Laying the tiles:

- Prepare the substrate with a slope of at least 2% and waterproofing in accordance with DIN 18531-5
- If necessary, apply an additional levelling coat in the event that the deviations in screed 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.



# 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 OUTDOOR TILES
- as necessary with contact layer

### 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:

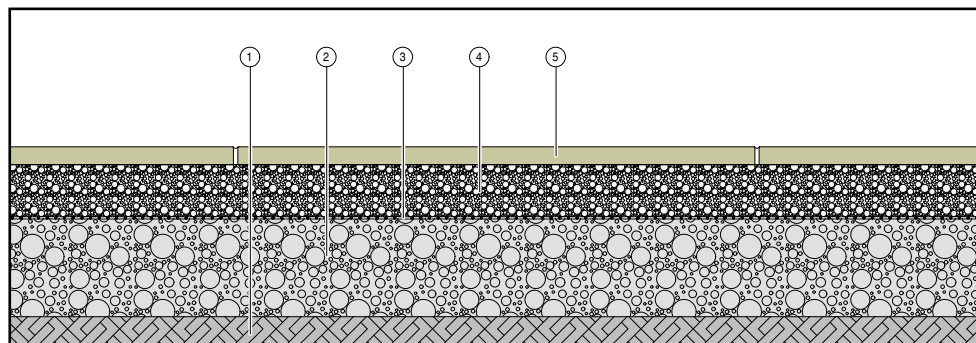
- The substrate must be sufficiently compacted
- The 20 - 40 cm thick mineral supporting layer, comprising mixed gravel, for example, should have a grain size of approx. 0/32 to 0/56 mm
- Application of a water-permeable covering is required
- Create a 3 - 5 cm thick gravel bed that is able to drain
- Lay the OUTDOOR TILES with approx. 5 mm wide joints. A bonding course should be applied to the back of the tiles to reduce subsequent shifting and tilting of the tiles.
- Fill joints with water-permeable joint sand
- Surface slope of at least 2%





# Laying variants

## Laying on drainage mortar with contact layer



Fixed laying on drainage mortar

- ① Natural soil
- ② Rough gravel support
- ③ Water-permeable covering
- ④ Drainage mortar
- ⑤ OUTDOOR TILES  
with contact layer

### 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

### Laying on natural soil:

- The substrate must be sufficiently compacted
- The 20 - 40 cm thick mineral supporting layer, comprising mixed gravel, for example, should have a grain size of approx. 0/32 to 0/56 mm
- Application of a water-permeable covering is required
- Drainage mortar must be applied in a thickness of at least 5 cm and up to 10 cm, depending on the load
- A suitable contact layer must be applied to the back of the tiles during installation
- Lay the OUTDOOR TILES with approx. 5 mm wide joints
- Fill joints with water-permeable joint sand
- Surface slope of at least 2%

## Technical Properties

vilbostone unglazed porcelain stoneware in acc. with DIN EN 14411, Group BI<sub>a</sub> (Water Absorption E<sub>b</sub> ≤ 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 <sup>2</sup>  | 10545-4                      | min. 35 N / mm <sup>2</sup><br>individual min. 32 N / mm <sup>2</sup> | ≥ 45                   | ≥ 45                   |
| Breaking strength  | 10545-4                      | min. 700N (thickness <7,5 mm)<br>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 <sup>3</sup>  | ≤ 145                  | ≤ 145                  |
| Linear thermal expansion from ambient temperature to 100° C in K <sup>-1</sup> | 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 alkalis - low concentration                            | 10545-13                     | Declared value  | LA                     | LA                     |
| Resistance to acids and alkalis - high concentration                           | 10545-13                     | Declared value  | HA                     | HA                     |
| 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                     | ΔE <sub>cmc</sub> < 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                      |