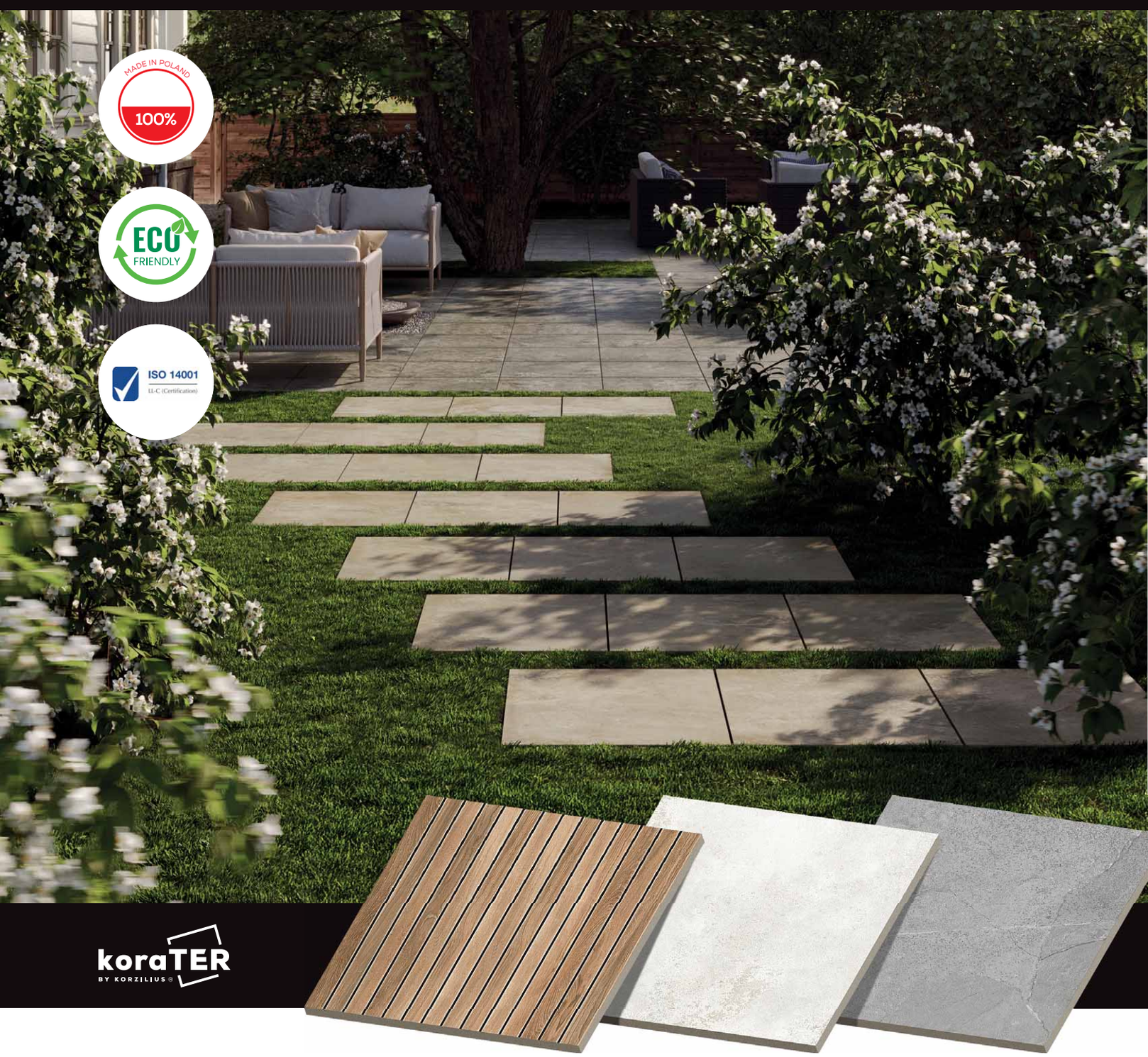
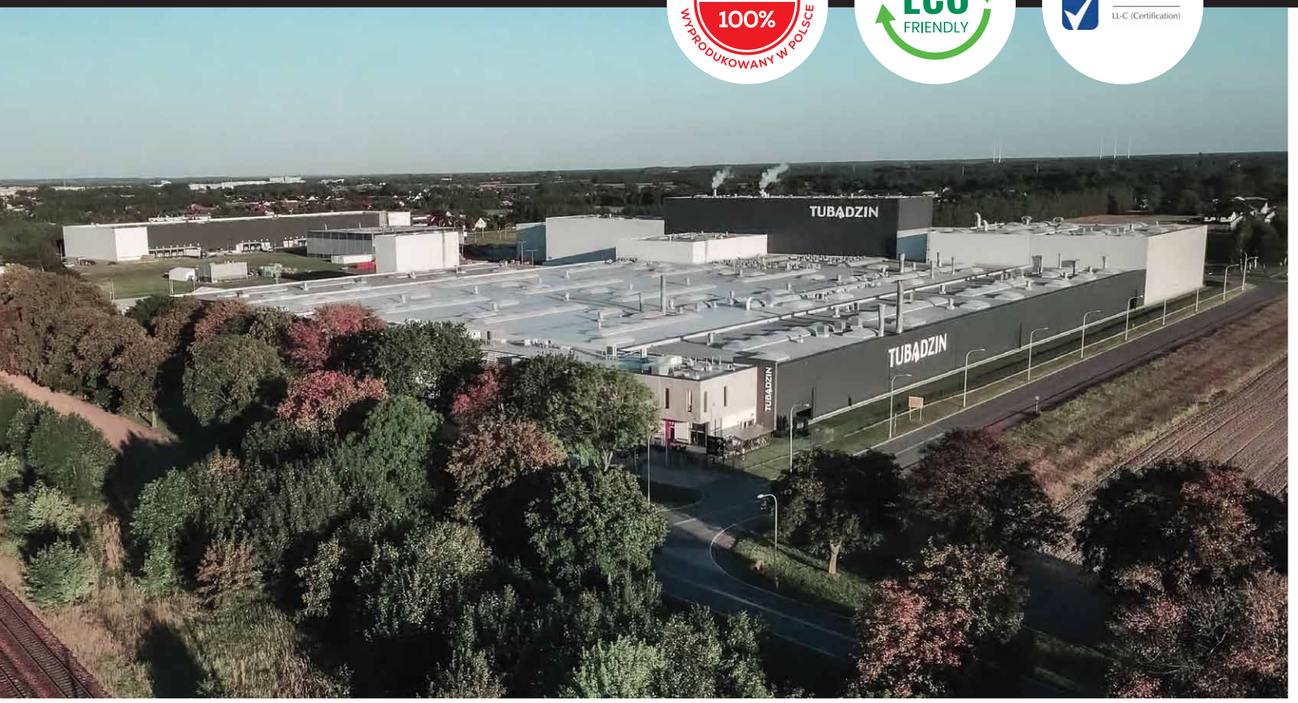
# TUBĄDZIN 2.0cm




koraTER
BY KORZILIUS®

MODERN
# TERRACE TILES

TUBADZIN




## ABOUT THE COMPANY

The Tubądzin Group is one of the most recognisable ceramic tile manufacturers in Poland. Based 100% on Polish capital and producing exclusively in Poland, it has been setting design trends and introducing innovative solutions for 40 years. It is a pioneer in the production of large-format tiles with dimensions of up to 120 × 275 cm.

Ceramika Tubądzin products are made from natural and noble raw materials. Thanks to modern technology, the tiles faithfully reproduce the look of wood, marble or concrete and can be used in any space - not just the bathroom. The brand collaborates with prominent design and cultural creators, including Maciej Zień, Anna Rudak, Malwina Konopacka and Dorota Koziara. The company is also involved in numerous educational and social initiatives.

Caring for the environment is one of the pillars of the company's operations. Colour pigments that are safe for health and nature are used to decorate the tiles. Tubądzin consistently implements the principles of sustainable development and invests in innovative technologies such as Continua+ or the state-of-the-art ATM 36 spray dryer to reduce energy consumption and $CO_2$ emissions. The brand also actively supports environmental projects, raising the environmental awareness of local communities.

## NEW STANDARD IN PAVING

The work of a paving engineer means facing challenges on a daily basis that are not visible on projects: unstable ground, changing climate and high expectations of the client. The choice of ceramics for the exterior often arouses scepticism. This is due to concerns about the brittleness of the material, the difficulty of processing or the possibility of cracking after winter. The 20 mm thick koraTER tiles are designed to completely eliminate these risks and thus achieve high functional qualities. It is a product dedicated to professionals whose priority is structural durability and long-term customer satisfaction.

### BIA PARAMETERS: ABSOLUTE FROST RESISTANCE

The foundation of the system's reliability is that it belongs to the BIa group (**according to EN 14411**). The water absorption limited to **less than 0.5** per cent makes the material almost completely waterproof. In practice, this is a guarantee of safety for the contractor - the lack of water absorption eliminates the risk of frost bursting the structure - and this is a very common basis for complaints about external paving by customers.

### PRESSURE AND BENDING STRENGTH

The class of the product is evidenced by hard data: a bending strength of **50 MPa** and high breaking strength. **For the 120x60 format, it is approximately 13,000 N, and for 60x60 a minimum of 10,000 N.** Such high parameters give the paving worker the confidence that the tile will withstand the great point pressure and will not be damaged during installation, even under conditions of intensive use by the investor.

### EASY TO KEEP CLEAN

**The koraTER tiles use an innovative Micro- and Nano-Granilla finish**. Unlike traditional glazing or porous concrete, this technology encloses the surface, making it dramatically easier to remove mud and deposits.

### AESTHETICS AND SAFETY

A unique glaze has been used on the koraTER tiles, thanks to which, on the one hand, maintaining cleanliness is no problem at all, and on the other: **the tiles retain the high slip resistance parameter R11B**. The combination of these features makes the surface aesthetically pleasing and easy to clean, while also being safe for users.

## PRODUCT FEATURES

**SIMPLE TILE CLEANING**
The process is easy and hassle-free - even for difficult stains such as chewing gum.

**CHEMICAL RESISTANCE**
Products resistant to salt and chlorinated water, as well as to chemicals used on a daily basis.

**SIMPLE INSTALLATION**
No glue or grout required.

**THERMAL RESISTANCE**
Thanks to the thermal resistance of the tiles, high frosts and sudden temperature spikes do not cause cracking.

**ANTI-SLIPPING**
High safety class for use. Also when you are barefoot.

**RESISTANCE TO STRESS**
High resistance to high mechanical loads.

**RECYCLING**
Products created from natural raw materials and fully recyclable.

**MOBILITY**
The tiles can be dismantled and re-laid elsewhere.

**DURABILITY OF COLOUR**
No fading, retaining the original colour for many years.

**RICH DESIGN**
A wide range of design variants offers a multitude of design possibilities.

## MODERN DESIGN

ORGANIC NOBILITY OF TILES WITH A STONE PATTERN

RAW MODERNITY OF A TILE WITH A CONCRETE STRUCTURE

CLOSE TO NATURE WOOD-PATTERNED PANELS



## APPLICATION

Terraces, balconies, entrance areas, verandas,

Facilities of a commercial nature.

Hotel open-air venues, restaurants, restaurant gardens.

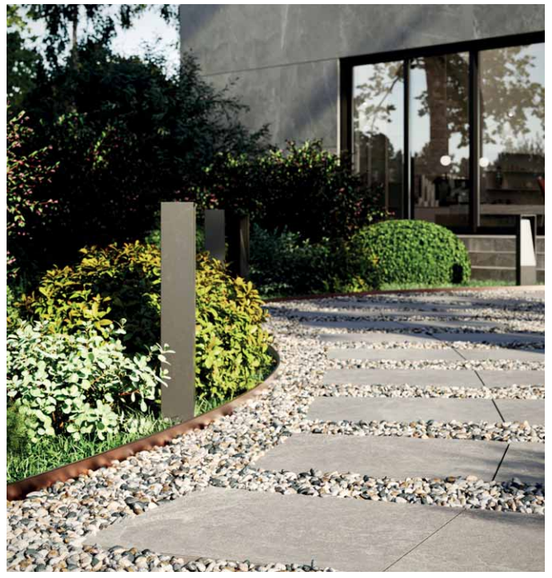
Green spaces, parks and gardens.

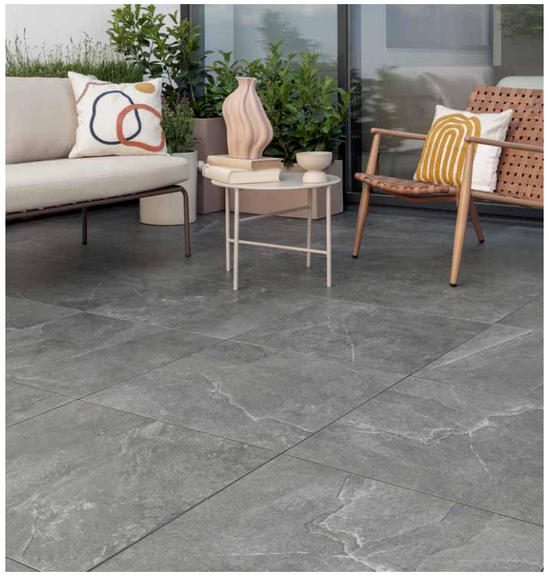
Barbecue areas, gazebos.

Areas of fountains, pools and water reservoirs.

Garages, driveways, car parks.









**Grand Cave Graphite STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

PEI III ✓ ✓ R 11 B*

**Grand Cave Graphite STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

**Grand Cave Brown STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

PEI III ✓ ✓ R 11 B*

**Grand Cave Brown STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

* Slip resistance for bare feet





**Grand Cave Ivory STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

PEI IV ✓ ✓ R 11 B*

**Grand Cave Ivory STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

**Grand Cave Grey STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

PEI IV ✓ ✓ R 11 B*

**Grand Cave Grey STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

* Slip resistance for bare feet





## TORANO



**Torano White STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

**Torano White STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |

* Slip resistance for bare feet

## MASSA

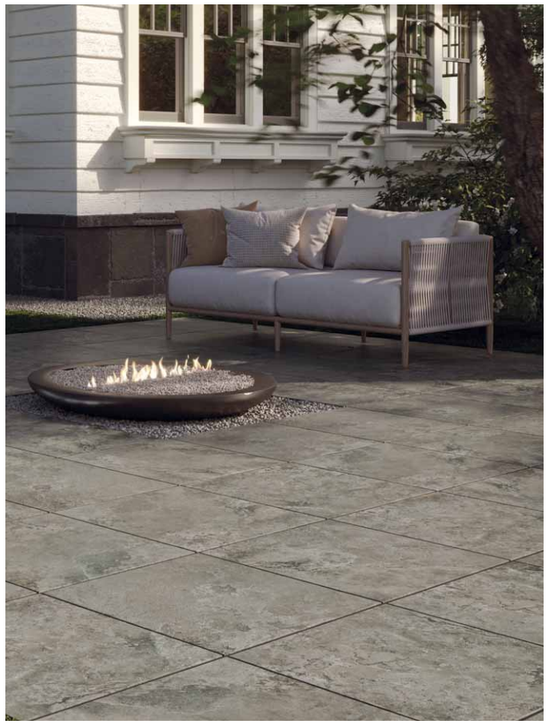


**Massa STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

**Massa STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |

* Slip resistance for bare feet



## ESCALA



**Escala Brown STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |

## WOOD DECK



**Wood Deck STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| | | | |
|---|---|---|---|
| PEI III | ✓ | ✓ | R 11 B* |





## LAVISH



**Lavish Grey STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |

## PATIO WOOD



**Patio Wood STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |



* Slip resistance for bare feet

* Slip resistance for bare feet



## AMIR STONE



**Amir Stone ivory STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |

## CAFFEINE BEIGE



**Caffeine beige STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

**Caffeine beige STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |

## CAFFEINE GREY



**Caffeine grey STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |

## CAFFEINE GRAPHITE



**Caffeine graphite STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| | | | |
|---|---|---|---|
| PEI III | ✓ | ✓ | R 11 B* |

* Slip resistance for bare feet

* Slip resistance for bare feet

## CORTE IVORY



**Corte ivory MAT**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

**Corte ivory MAT**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |

## CORTE BROWN



**Corte brown MAT**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

**Corte brown MAT**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

| | | | |
|---|---|---|---|
| PEI III | ✓ | ✓ | R 11 B* |

* Slip resistance for bare feet





## FUSE BEIGE



**Fuse beige**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |

## FUSE GREY

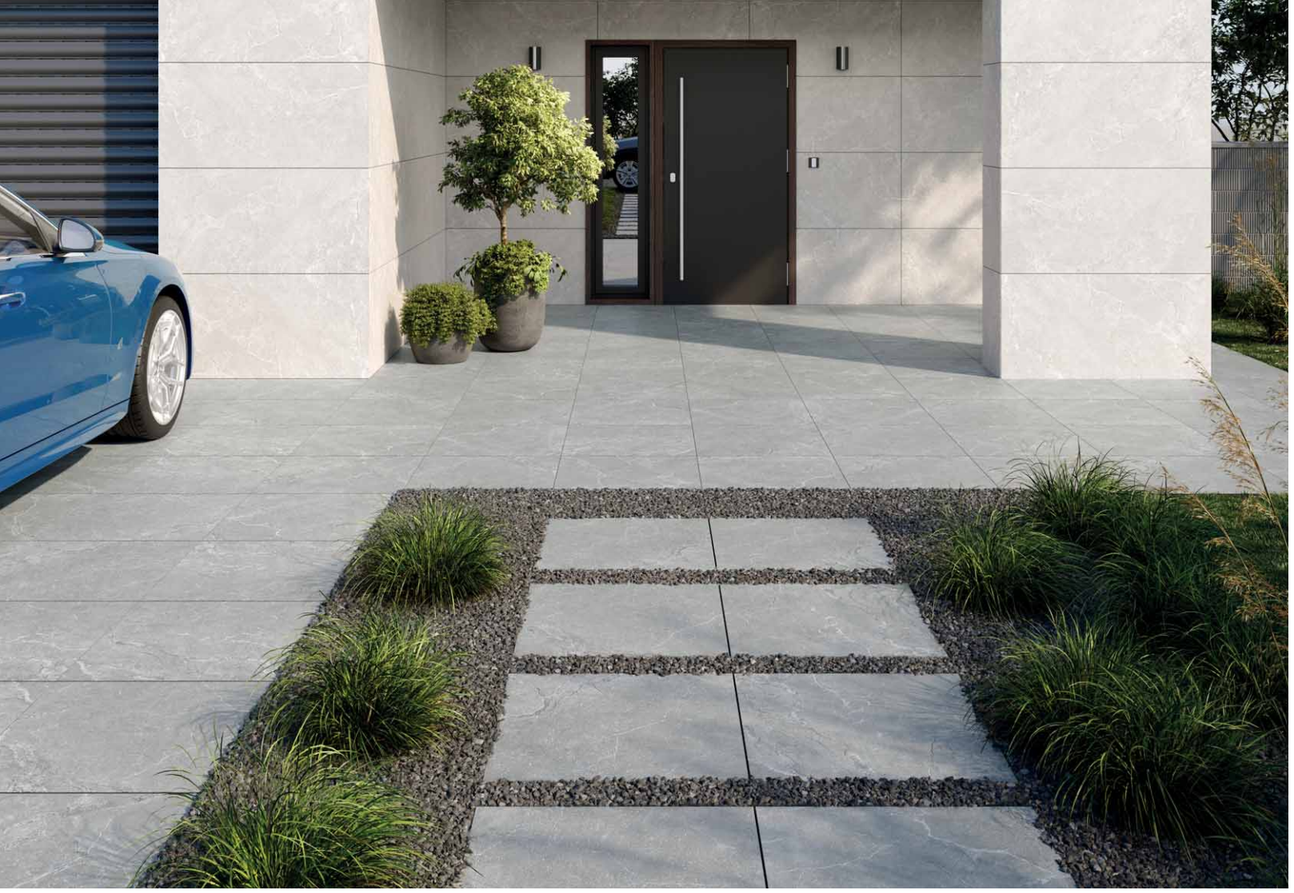


**Fuse grey**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| | | | |
|---|---|---|---|
| PEI IV | ✓ | ✓ | R 11 B* |



* Slip resistance for bare feet



## RECCO BEIGE



**Recco beige STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| PEI IV | | | R 11 B* |
|---|---|---|---|
| | ✓ | ✓ | |

## GOBI IVORY



**Gobi ivory STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| PEI IV | | | R 11 B* |
|---|---|---|---|
| | ✓ | ✓ | |

**Gobi ivory STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

## GOBI GREY



**Gobi grey STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| PEI IV | | | R 11 B* |
|---|---|---|---|
| | ✓ | ✓ | |

**Gobi grey STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

## TRINO BEIGE



**Trino beige STR**
PORCELAIN TERRACE TILE
598 × 598 × 20 mm

| PEI IV | | | R 11 B* |
|---|---|---|---|
| | ✓ | ✓ | |

**Trino beige STR**
PORCELAIN TERRACE TILE
598 × 1198 × 20 mm

* Slip resistance for bare feet

* Slip resistance for bare feet

# INSTALLATIONS

One great advantage of **koraTER®** tiles is flexibility in the way they are installed.
This allows to focus solely on aesthetic qualities of individual collections during purchase.
|The place and the substrate on which the panels will be fixed are not limited in any way.

## INSTALLATION ON GRASS

**APPLICATION**

GARDEN, SQUARE




**1 /** Grass
**2 /** **koraTER®** terrace clinker tile
**3 /** Compacted ballast 5-8 cm
**4 /** Soil

- Laying the terrace clinker tiles properly and stably on grass is relatively easy and can be successfully done independently. First of all, the grass has to be carefully cut and the soil has to be selected to a depth of approx. 5-8 cm. Then the space is filled with a 3/6 mm aggregate. It is important to consider the thickness of the clinker tile when compacting the base. It should not protrude above the level of the cut grass in order not to hinder lawn care.
- The advantage of this solution is that the clinker tiles can be laid anywhere, and it is easy to adjust their position or level.

## INSTALLATION ON TERRACE SUPPORTS

**APPLICATION**

TERRACES, BALCONIES

- When deciding to install the terrace tiles on supports, care must be taken to ensure a suitable load-bearing substrate. It should include slopes and have waterproofing. The chosen brackets - fixed or adjustable - are placed on the surface thus prepared. The supports must be laid according to a design carried out strictly in accordance with the recommendations of their manufacturer.

- The brackets are fitted with special spacer strips to ensure that the same distance is maintained between the tiles. The slots provide drainage so that water does not accumulate on the terrace.
- The free space that is created between the substrate and the tiles can be used to run, for example, a water system for watering the plants. An additional advantage of this installation solution is that the appearance of the terrace can be modified at any time, as the components are not permanently connected to each other.
- The great advantage of the koraTER® tiles is the free choice of installation method. This allows us to focus solely on the aesthetic qualities of the individual collections during the purchasing process. The location and the substrate on which the panels will be fixed are not a limitation.



**Installation of terrace tiles on non-adjustable supports**




**1 /** **koraTER®** terrace clinker tile
**2 /** System footings
**3 /** Waterproof insulation
**4 /** Concrete foundation and slope

**Installation of terrace tiles on adjustable supports**





## INSTALLATION ON DRAINAGE MORTAR

**APPLICATION**

DRIVEWAYS, GARAGES, INDUSTRIAL FACILITIES




**1 /** **koraTER®** terrace clinker tile
**2 /** Clinker tile adhesive
**3 /** Concrete drainage
**4 /** Compacted gravel
**5 /** Soil

- In areas subject to increased loads, the clinker tiles can be installed by means of adhesive. The substrate requires several layers to be prepared to ensure the stability and strength of the usable surface. The bottom layer, laid directly on the ground, is a compacted gravel over which concrete is poured. The drainage concrete layer should be 8 to 10 centimetres thick. The clinker tiles are installed using adhesive to the base course.
- Bonded clinker tiles can be tightly grouted. To ensure effective drainage, the surface should include a slope of 1.5 - 2%.
- In case of large usable surfaces, expansion gaps should be planned, dividing the entire area into sectors not exceeding 16 m2.
- Adhesive-on installation minimises the risk of the clinker tiles shifting.

## MONTAŻ NA PIASKU

**APPLICATION**

TERRACE, GARDEN

- In areas where increased load-bearing capacity is not required, the terrace clinker tiles can be installed on sand or gravel bedding.
- In order to prevent overgrowth of plants, a non-woven fabric is laid directly onto the ground as the first layer of substrate. Then, to ensure effective drainage, aggregates of decreasing fraction are used sequentially, where a layer of sand or 3/6 mm aggregate should be placed directly under the clinker tiles.
- Inthistypeofinstallation,thejointsarenotfilledinordertoensurethefreeflow of water. If it is important to prevent the tiles from moving sideways, they can be fixed in two ways: by applying a contact layer of adhesive mortar underneath or using special-purpose spacers.




**1 /** **koraTER®** terrace clinker tile
**2 /** Permeable aggregate layers of decreasing fraction
**3 /** Non-woven fabric against overgrowth
**4 /** Soil

# TECHNICAL SPECIFICATIONS

In addition to their striking design, **koraTER®** clinker tiles are distinguished by their durability and a range of functional properties.
They are resistant to external influences, including salt used in the winter season to thaw slippery surfaces.
They are made of fully frost-resistant ceramic material.
The surface structure of all **koraTER®** terrace clinker tiles is non-slip.

# **FAQ.** Frequently asked questions.

**What is the durability of Tubądzin 2.0 ceramic terrace tiles?**
It is one of the materials with the highest impact resistance parameters. Their breaking strength is close to 1 tonne per cm2. This means that, if the ground is properly prepared, they can be used for car driveways.

**Are Tubądzin 2.0 ceramic terrace tiles non-slip? What is the ‚barefoot' certification?**
Yes, KoraTER terrace tiles have high slip resistance parameters of R11 and barefoot slip resistance of B. This makes them safe
for „wet" use even without shoes.

**Is Tubądzin 2.0 ceramic terrace tile resistant to staining (oil, wine etc.)?**
Yes, the glazed tile has very high stain resistance parameters. As a result, it is not an absorbent material like paving or stone, it does not require impregnation and removing dirt is simple.

**What should I use to clean such a terrace made of Tubądzin 2.0 tiles?**
A unique glaze has been used on Tubądzin 2.0 tiles, thanks to which maintaining cleanliness is not a problem - basic household chemical products and basic floor cleaning tools are sufficient. The panels are also acid-resistant.

**Won't insects nest under the terrace?**
The void is ventilated and dry, which is no more conducive to the presence of insects than a regular garden.

**Are tiles slippery in winter?**
They have a slip resistance rating of R11, so are safer than standard domestic tiles.

**Is the tile surface resistant to fungi/moss?**
Tubądzin 2.0 terrace tiles are not porous, so they are less vulnerable to fungi or moss. A unique glaze has been used in the production of the tiles, which makes cleaning the tiles effortless.

**What if something heavy falls on it?**
The tile may break, but it takes 30 seconds to replace - just pick it up and put in a new one.

**Do I need to grout them?**
No, in a ventilated system and on the aggregate, empty joints are left for water drainage. The paving system is grouted with polymeric sand, washed sand or drainage grout.

**Can they be laid over old tiles?**
Yes, if the subfloor is stable, you can install the brackets directly onto the old tiles.

**Will the tiles fade in the sun?**
No, tiles are UV resistant (unlike composite).

**Can they be laid on glue?**
You can (e.g. on a driveway), but you lose the main advantage - water drainage.

**Can Tubądzin ceramic terrace tiles be combined with Monolith Tubądzin living room tiles?**
Yes, the advantage of Tubądzin 2.0 tiles is design consistency with interior tiles. This allows a seamless transition from the living room to the terrace while maintaining the colour scheme and pattern.

**Should Tubądzin 2.0 terrace tiles be placed on 4 or 5 bases?**
The number of supports depends on the format of the tiles, their offset from each other and the elevation of the terrace. For standard 60x60 tiles, 4 supports are sufficient for a terrace height of approx. 20 cm. For higher terraces, 60x120 tiles and offsets, additional supports must be used.

**What is the minimum height of the bracket?**
From 2 mm (fixed pads) to over 900 mm (adjustable brackets).

**Are the brackets frostproof?**
Yes, they are made of polypropylene to withstand a range from -30°C to +60°C.

**How do you finish the sides of a terrace?**
Special masking clips or eaves profiles are used. Often also concrete edging as with concrete paving.

**Won't the supports damage the waterproofing (felt)?**
SBR rubber protective pads under the supports are used.

**Doesn't the terrace ‚rumble' on the supports?**
The use of rubber spacers on the bracket heads effectively dampens sound.

**Won't the water stand under the terrace?**

- With cantilevered installation, a gradient is achieved on the substructure and the panels are laid flat.
- When installed on aggregate, a slope is achieved on the ground and on the terrace surface.

**TILES ON VEHICLE DRIVEWAYS.**

**Are they suitable for a car driveway?**
Yes, but only when installed wet (bonding) or on a very carefully prepared semi-dry substructure.

- **The high resistance to dirt from tyre marks and oil makes them a better choice than paving stones.**
- **Is 20mm thick enough?** Yes, the strength parameters of the 20 mm are fully sufficient. For the interiors of garages, car showrooms, porcelain stoneware tiles with a standard thickness of 6-10 mm are successfully used. The 20mm tile has much better performance.
- **Adhesive mounting**: Requires full support (combination method - adhesive to substrate and to tile). The substrate is a reinforced concrete slab.
- **Installation on the substructure**: Thick stabilising layer (20-30 cm gravel) + cement-sand ballast.

**Important**: Plastic supports are not used on driveways (risk of crushing and lateral instability when turning the wheels).

TUBĄDZIN

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