CRUSIL

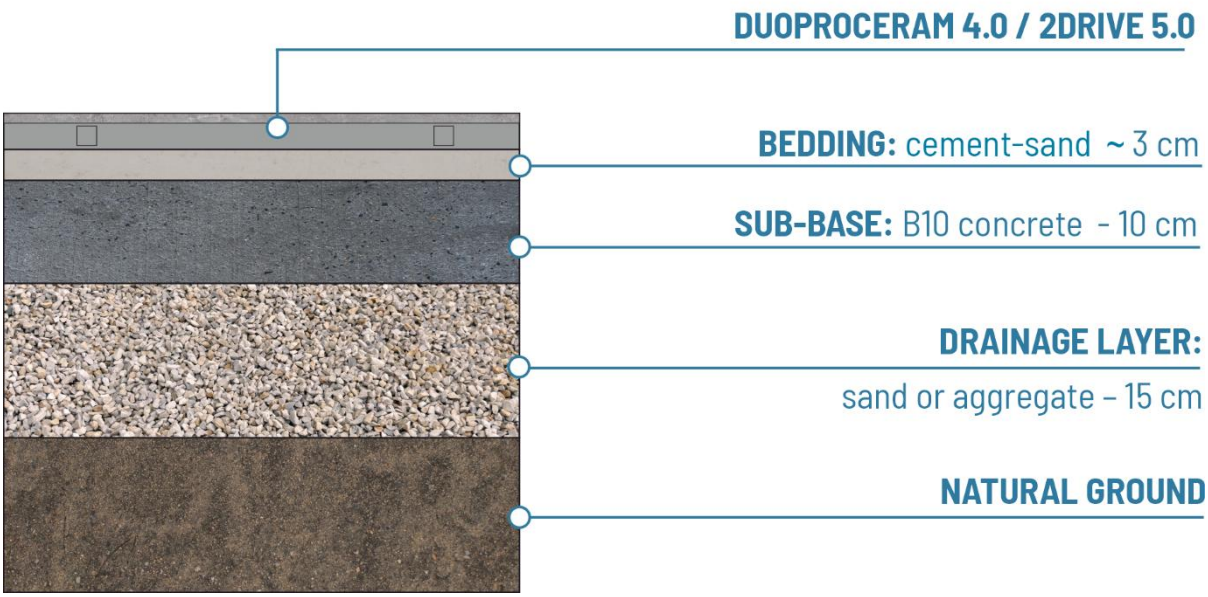
INSTALATION INSTRUCTIONS

REGENT

TERRACE AND DRIVEWAY SYSTEM

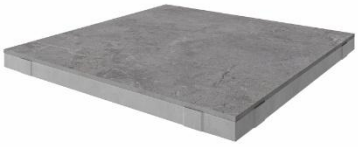
Chalcedonite Active Technology

Foundation Diagram for DuoProCeram / 2Drive Slabs



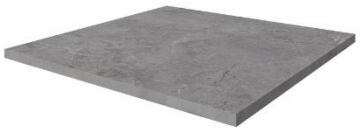
- The cement-sand bedding under the slabs should have a ratio of 1:2, 1:4, 1:6, or 1:8.
- The most commonly used bedding for terraces subjected to pedestrian traffic is in a ratio of 1:4 or 1:6 (cement/sand).
- For driveways intended for vehicles, a bedding ratio of 1:2 should be used.

SYSTEM REGENT



DuoProCeram
60x60x4 cm

DuoProCeram 2Drive
60x60x5 cm



Płyta ceramiczna
60x60x2 cm

STOPNIE SCHODOWE KUBICZNE

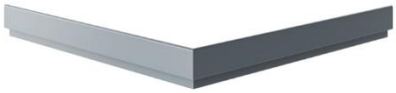
DuoProStep 100 prosty
100x35x15 cm

DuoProStep 60 prosty
60x35x15 cm

DuoProStep 100 narożny
60/60x35x15 cm

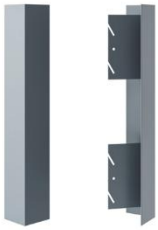
TERRACE ACCESSORIES

Elements of the ceramic palisade



Narożnik 90st zewnętrzny 30x30 cm*

Profil poziomy 214 cm*



Profil pionowy 40 cm*

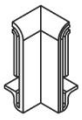
* Material – extruded aluminium

DOSTĘPNE KOLORY:

RAL 7024 Szary grafitowy

RAL 7045 Szary

RAL 8019 Szary brąz



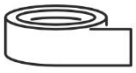
Narożnik wewnętrzny

Łącznik profili

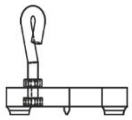
Zakończenie

Pierścień

Spinka



Mikroguma



Uchwyt dystansowy

CERAMIC PALISADE

DuoProCeram 60x60x4 cm

USE OF DISTANCE HOLDER IN INSTALLATION

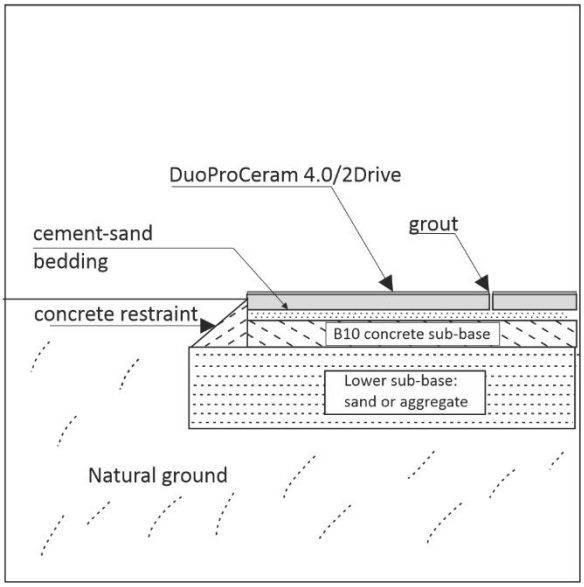
1. DISTANCE HOLDER

a) The distance holder accelerates the installation work and facilitates the alignment of the slabs relative to each other.

b) We place the distance holder at the corners of the tiles, allowing us to see the connections at the corners and determine the force of striking the slab with a rubber mallet, resulting in a joint width of 4 mm.

c) When laying the slabs with the help of the distance holder, we transfer it to the next installation surface at intervals, leaving small crosses that we will remove after placing the grout.

METHOD OF INSTALLING A TERRACE OR DRIVEWAY



1. PREPARATORY WORK

a) Marking out the terrace area, paying special attention to maintaining right angles and the desired level of the surface with the slabs.
b) Excavation, which involves removing the layer of humus, native soil, as well as roots and stones.

2. CONSTRUCTION OF THE BASE

a) The lower drainage layer made of sand or gravel, approximately 15 cm thick, compacted mechanically.
b) The upper structural layer made of B10 concrete, 10 cm thick, compacted mechanically.

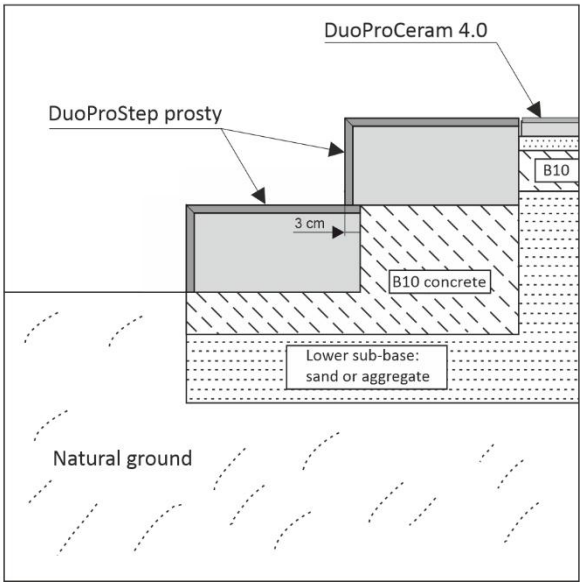
3. INSTALLATION OF DUOPROCERAM SLABS

a) The slabs are installed on a cement-sand bedding approximately 3 cm thick.
b) For the installation of the slabs, we recommend using the spacers included with the product, as well as a spacer handle.
c) Note: Compressors must not be used on the surface of the terrace made from slabs. Height adjustments of the laid slabs should only be done with rubber mallets.

5. FUGING

a) Before starting the grouting process, ensure that there will be no precipitation for 12 hours after the grouting is completed.
b) Polymer sand - VivaSil is applied dry. The surface of the slabs must be dry.
c) Polymer sand - VivaSil is placed in the spaces between the slabs using a brush or spatula.
d) In the next step, mist the surface with water using a nozzle with a spraying function for about 30 seconds for every 3 m². Remove the spacers. The misting must be repeated 3 times.

METHOD OF INSTALLING A TERRACE WITH STEPS



1. PREPARATORY WORK

a) Marking out the terrace area, paying special attention to maintaining right angles and the desired level of the surface with the slabs.
b) Excavation, which involves removing the layer of humus, native soil, as well as roots and stones.

2. CONSTRUCTION OF THE BASE

a) The lower drainage layer made of sand or gravel, approximately 15 cm thick, compacted mechanically.
b) The upper structural layer made of B10 concrete, 10 cm thick, compacted mechanically.

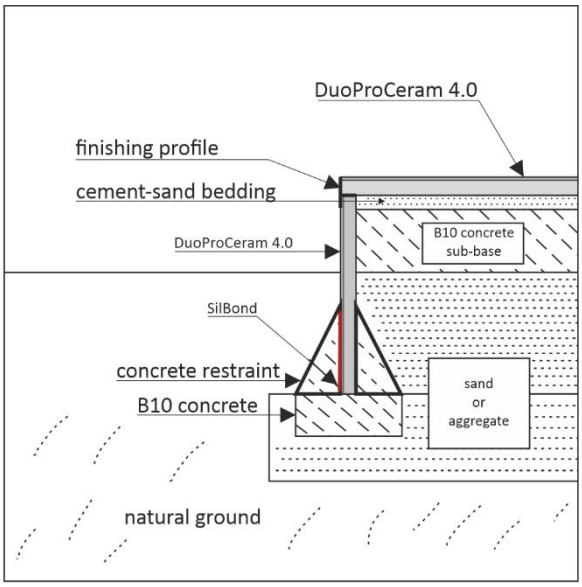
3. INSTALLATION OF DUOPROCERAM SLABS WITH DUOPROSTEP STEPS

a) The slabs are installed on a cement-sand bedding approximately 3 cm thick.
b) For the installation of the slabs, we recommend using the spacers included with the product and a spacer handle.
c) DuoProStep steps should be laid directly on a foundation made of concrete (minimum class B10) with a thickness of at least 10 cm.
d) DuoProStep steps must be installed level, according to the above diagram, with a 3 cm overlap when laying more than one DuoProStep step.
e) Vertical gaps between the steps should be sealed with silicone to prevent grout from leaking out of the terrace surface before it sets.
f) Note: Compressors must not be used on the surface of the completed terrace. Height adjustments of the laid slabs and steps should only be made using rubber mallets.

4. FUGING

a) Before starting the grouting process, ensure that there will be no precipitation for 12 hours after the grouting is completed.
b) Polymer sand, VivaSil, is applied dry. The surface of the slabs must be dry.
c) Polymer sand, VivaSil, is placed in the gaps between the slabs using a brush or spatula.
d) In the next step, mist the surface with water using a nozzle with a spraying function for about 30 seconds for every 3 m². Remove the spacers. The misting must be repeated 3 times.

METHOD OF INSTALLING A TERRACE WITH EDGING



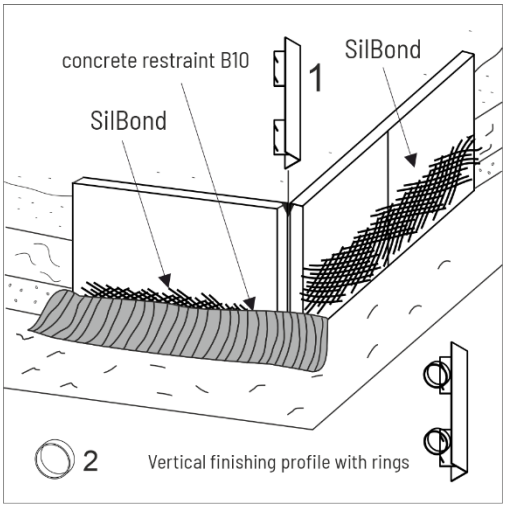
Edging (ceramic border) made from DuoProCeram terrace slabs 60x60x4 cm.

1. PREPARATORY WORK

a) Marking out the terrace area, paying special attention to maintaining right angles and the desired level of the surface with the slabs.
b) Excavation, which involves removing the layer of humus, native soil, as well as roots and stones.

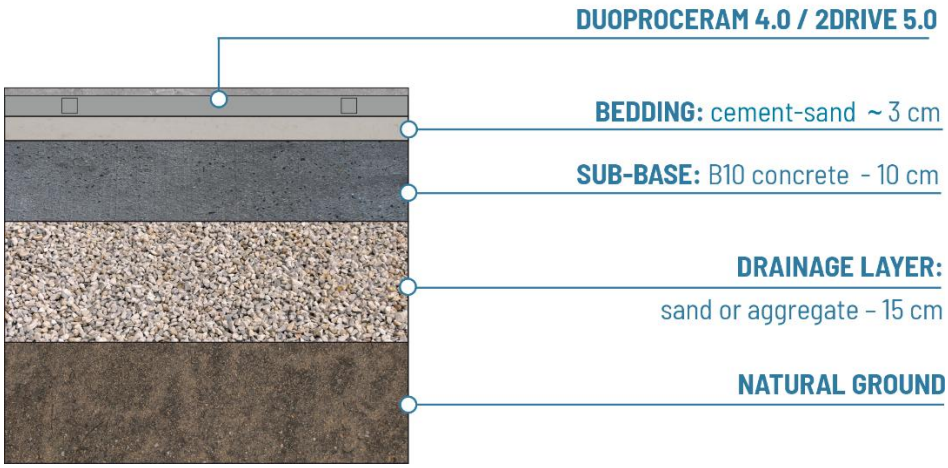
2. INSTALLATION OF EDGING WITH DUOPROCERAM SLABS

a) Before installing the edging, the lower part of the DuoProCeram slab (up to a minimum height of 20 cm) on the ceramic side should be primed with SilBond bonding mortar.
b) The installation begins with setting the corner of the DuoProCeram slabs in a vertical position.
c) Next, install the vertical terrace profile (1), which secures the outer edge of the edging/border. The profile is inserted from the top.
d) Then, install the reinforcing rings (2) from the inside of the corner.
e) Concrete supports made of B10 concrete are created at the height of the primed surface of the slab, meaning a minimum depth of 20 cm, forming wedge-like supports.



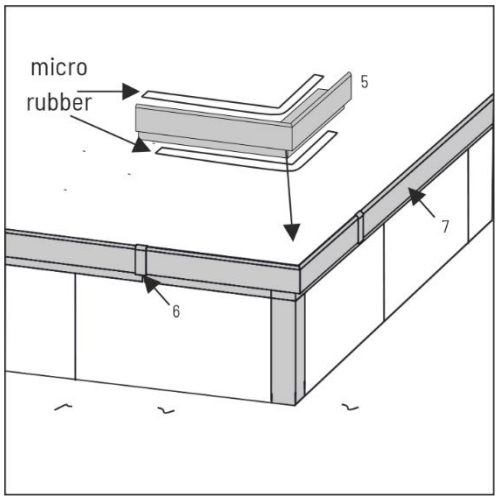
3. CONSTRUCTION OF THE BASE INSIDE THE TERRACE WITH EDGING

a) The lower drainage layer made of sand or gravel, approximately 15 cm thick, compacted mechanically.
b) The upper structural layer made of B10 concrete, 10 cm thick, compacted mechanically (using a lightweight plate compactor).
c) The upper layer of the base should be constructed to a level of -2 to -3 cm below the upper edge of the edging slabs.



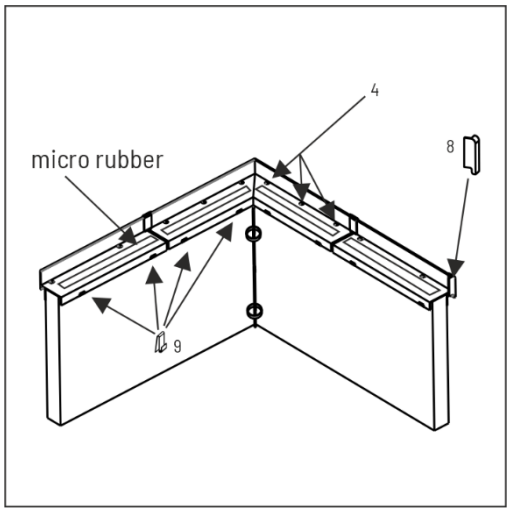
4. INSTALLATION OF HORIZONTAL TERRACE PROFILES

a) Install the micro-rubber tape at the bottom and top of the profile. When applying the tape, be careful not to cover the water drainage holes (4).
b) Attach the external terrace profile (5) to the corner edges of the DuoProCeram slabs.
c) Connect the profiles using connectors (6) (7). At the ends of the horizontal profiles, install left or right end caps (8).
d) On the inner side of the profiles, install reinforcing clips to secure the horizontal profiles at the edges (9).



5. INSTALLATION OF DUOPROCERAM SLABS

a) We install the slabs on a cement-sand bedding approximately 3 cm thick.
b) For slab installation, we recommend using the spacers included with the product and a spacer handle.
Caution: do not use compactors on the surface of the terrace made of slabs. Adjusting the height of the laid slabs should only be done with rubber mallets.



6. GROUTING

a) Before starting grouting, make sure that there will be no rainfall within 12 hours after the completion of grouting.
b) Apply VivaSil polymeric sand dry. The slab surface must be dry.
c) Place VivaSil polymeric sand in the spaces between the slabs using a brush or trowel.
In the next step, spray the surface with water using a spray nozzle for about 30 seconds per 3 m2. Remove the spacer crosses. Repeat the water spraying 3 times.