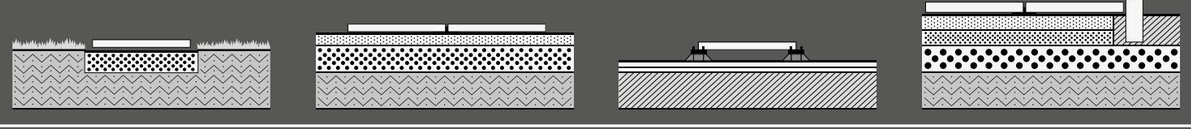
RAKO

Brand of **lasselsberger**group

Authorized dealer:

rako.cz/en



Laying into lawn for garden treads

- 20 mm floor tiles | lawn
- 50 mm gravel
- Soil

Laying into gravel for walking surfaces

- 20 mm tiles (defined by 3–4 mm wide crosses)
- 50 mm gravel 4–8 mm
- 200 mm compacted gravel 8–16 mm
- compacted soil

Laying on targets for walking surfaces on a concrete foundations

- 20 mm tiles
- targets
- waterproofing (PVC foil, SBS asphalt strips, final waterproofing screed)
- geotextiles
- concrete

Laying in gravel for running surfaces and parking spaces (up to 3.5 t)

- 30 mm tiles (defined by 3–4 mm wide crosses)
- 50 mm gravel 4–8 mm
- 50 mm compacted gravel 8–16 mm
- 200 mm compacted gravel 16–32 mm
- compacted soil
- curb (lines the laying and is installed in a 100 mm high concrete bed)

More information about the laying of tiles into lawns, gravel or on supportscan be found at www.rako.eu
How to install the tiles please follow our official RAKO YouTube channel

EU Ecolabel
www.ecolabel.eu
CZ/021/003

RAKO

rako.cz/en

OUTDOOR

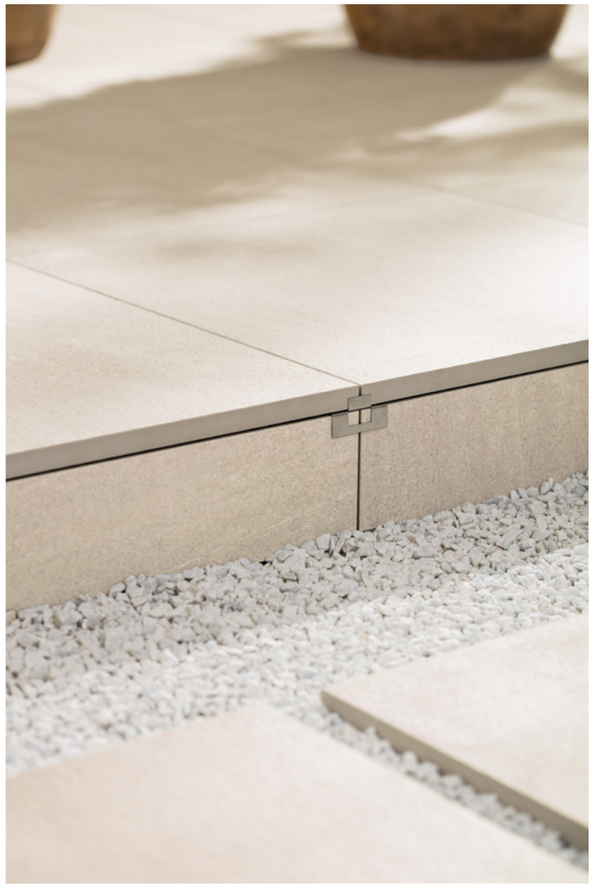
30mm 20mm

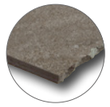
Exterior system solutions:

- garden and yard
- paths/walkways
- terrace and balcony
- swimming pools and surroundings
- public spaces
- driveway and parking place

2020

quarzit outdoor





PORCELLANATO SMALTATO · KENTAUR · GRES

quarzit outdoor

60×60
R11
B
V3
R

DAR66735
PEI 5 ○ 96 l m²
matt
20mm

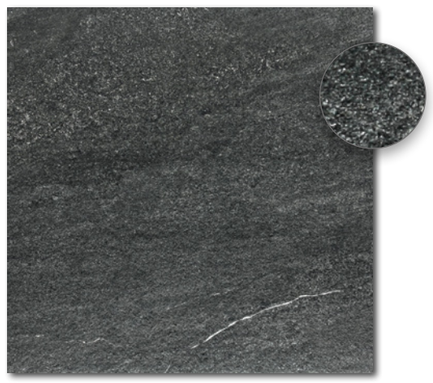
DAR69735
PEI 5 ○ 112 l m²
matt
30mm

beige

DAR66737
PEI 5 ○ 96 l m²
matt
20mm

DAR69737
PEI 5 ○ 112 l m²
matt
30mm

grey



DAR66739
PEI 4 ○ 96 l m²
matt
20mm

black

DAR66736
PEI 4 ○ 96 l m²
matt
20mm

brown

DAR66738
PEI 4 ○ 96 l m²
matt
20mm

DAR69738
PEI 4 ○ 112 l m²
matt
30mm

dark grey

DCH66736* brown
DCH66735* beige
DCH66737* grey
DCH66738* dark grey
DCH66739* black
○ 92 l ks
matt
20mm

* Production by order.

piazzetta outdoor

60x60
R11
B
V3

DAR66787
96 l m²
matt

beige

20mm

DAR66788
96 l m²
matt

light grey

20mm

DAR66789
96 l m²
matt

black

20mm

DCH66787* beige
DCH66788* light grey
DCH66789* black
96 l m²
matt

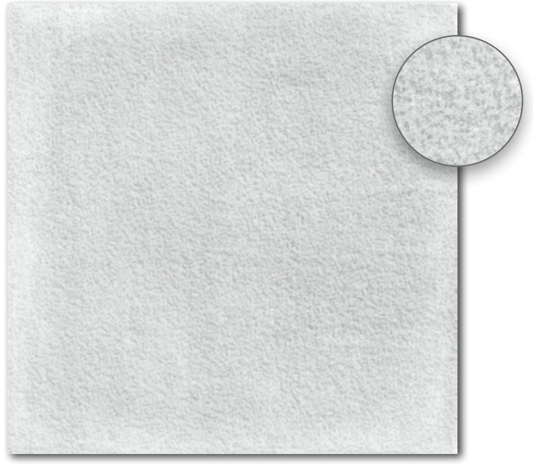
20mm

* Production by order.


quarzit outdoor
R11
B
R
V3
30mm
60×60cm
RAKO
OUTDOOR
30mm
20mm
Exterior system solutions
2020
rako.cz/en
quarzit outdoor
piazzetta outdoor
rebel outdoor
kaamos outdoor
saloon outdoor
R11
B
R
V3
20mm
60×60cm

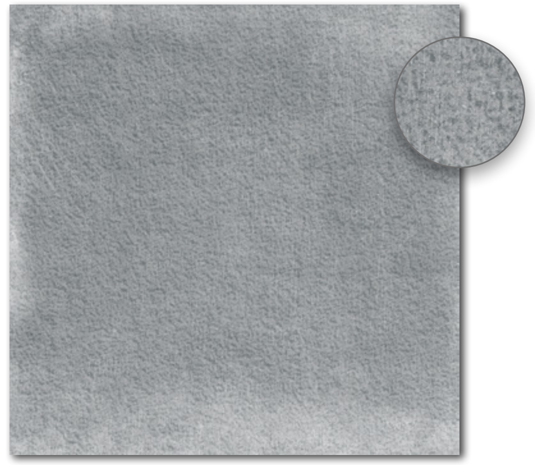
rebel outdoor

60×60
R11
B
V3



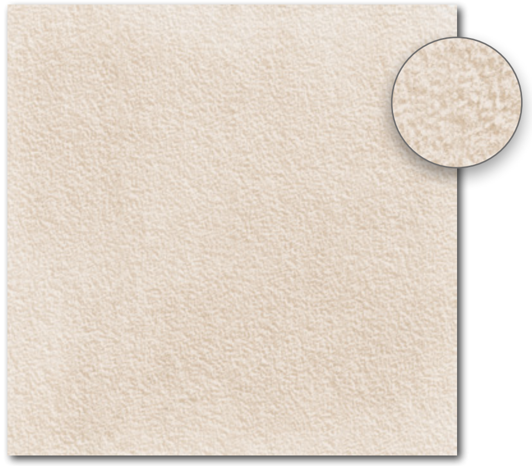
DAR66741
PEI 5 96 | m²
matt
20mm

grey



DAR66742
PEI 4 96 | m²
matt
20mm

dark grey



DAR66743
PEI 5 96 | m²
matt
20mm

beige

DCH66741* grey
DCH66742* dark grey
DCH66743* beige
92 | ks
matt
20mm

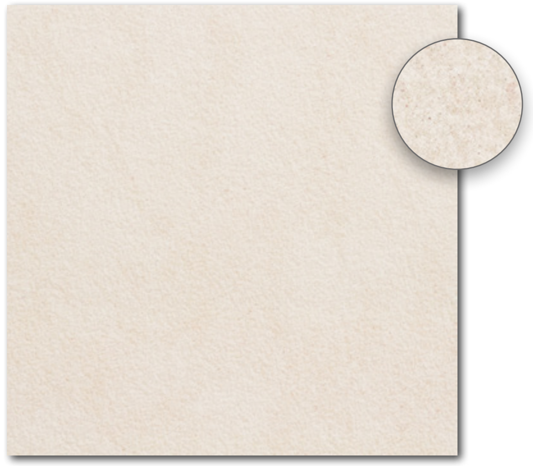
* Production by order.

Product	cm	mm	EN		ks/m²	m²		m²	kg	kg/m²	brutto kg
floor tile (QUARZIT, REBEL, SALOON 20 mm)	60×60	598×598×20	EN 14411:2016, annex G Bla GL	2	2,8	0,72	30	21,60	32,0	44,4	985
floor tile (KAAMOS, PIAZZETTA)	60×60	598×598×20	EN 14411:2016, annex G Bla UGL	2	2,8	0,72	30	21,60	32,0	44,4	985
floor tile (QUARZIT 30 mm)	60×60	595×595×30	EN 14411:2016, annex G Bla GL	2	2,8	0,72	22	15,84	48,4	67,2	1 065
step tile	60×60	598×598×20	STO č.030 - 049916	2	-	-	-	-	32,0	-	-

kaamos outdoor

kaamos outdoor

60×60
R11
B
V3



DAR66585
96 | m²
matt
20mm

ivory

DAR66587
96 | m²
matt
20mm

grey

DAR66586
96 | m²
matt
20mm

beige

DAR66588
96 | m²
matt
20mm

black

DAR66589
96 | m²
matt
20mm

beige-grey

DCH66587* grey
DCH66585* ivory
DCH66586* beige
DCH66588* black
DCH66589* beige-grey
92 | ks
matt
20mm

* Production by order.

saloon outdoor

saloon outdoor

60×60
R11
B
V3

DAR66746
PEI 4 | 96 | m²
matt

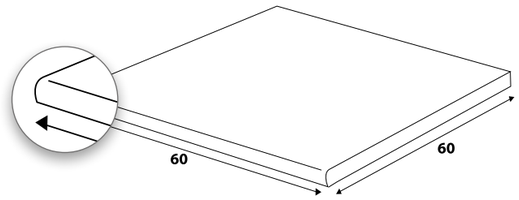
beige

20mm

DAR66747
PEI 4 | 96 | m²
matt

light brown

20mm



DCH66746* beige
DCH66747* light brown
92 | ks
matt

20mm

RAKO OUTDOOR – the laying of ceramic tiles in a dry technique

Laying on grass

A durable solution of walk-on surfaces of gardens, garden pavements or pergolas. When laying ceramic tiles on grass, we use gravel (crushed aggregate) that unlike sand does not absorb water and therefore does not dilate when frozen. The layer of gravel fraction 4–8 mm should reach the height of 50 mm. The RAKO OUTDOOR tiles with the thickness of 2 cm is prevented from moving by the surrounding soil and gravel and blends seamlessly into the lawn or pebbles in the space.

Laying on gravel

An ecological solution of walk-on surfaces of terraces, pavements, pergolas or parking places. Thanks to a permeable base, we return water into the bedrock, not draining it from the landscape through drainages. Before the laying, we remove the soil first. The bottom of the trench should have a required slope of 2 % and the base layers should be of the same thickness in every place. The tiling process itself should follow the 2 % slope for better drainage of water and impurities of the surface. We distinguish between tiling of walk-on and drive-on surfaces.
In case of a walk-on laying, we cover compacted soil with a 200 mm layer of coarse gravel (8–16 mm) that is compacted again using a vibratory plate. The second 50 mm layer consists of finer gravel (4–8 mm) that is spread evenly in a demanded slope and not compacted anymore. We lay the 2 cm RAKO OUTDOOR tiles onto the gravel base and settle it with a rubber mallet or a tapping plane. For the delimitation of tiles to each other, we use tile spacers, 3–4 mm for outdoor use. Joints provide continuous drainage of water from the surface and evaporation of humidity from the base. We hem the tiling with pebbles or with grass, we can also use concrete curbs.
For drive-on surfaces, we spread a 200 mm layer of coarse 16–32 mm gravel onto compacted soil and compact it again. The second 50 mm layer consists of finer gravel (8–16 mm), evenly spread and compacted. The third 50 mm layer of gravel (4–8 mm) is evenly spread, but is not compacted. We lay the 3 cm RAKO OUTDOOR tiles into the gravel base and settle it with a rubber mallet or a tapping plane. For the delimitation of tiles to each other, we use tile spacers, 3–4 mm for outdoor use. Joints provide continuous drainage of water from the surface and evaporation of humidity from the base. For hemming of the tiling, we use concrete curbs. The ending with curbs for drive-on surfaces lowers the risk of horizontal movement of the tiles.
The joints can be filled with fine silica sand or a mixture of silica sand and resin that prevent the joints from washing out.

Laying on targets

Laying on targets is a dry laying technique, based on the use of a system of supports, the so-called targets for terraces, balconies, roofs or public areas, offering an easy access to cabling, water drainage or the hydro-insulation during operation. The supporting base is mostly a concrete slab that should have an inclination of 2 % from the object. Before the installation of the targets, we first cover the concrete with a hydro-insulation layer. Most commonly, a hydro-insulation PVC foil with a reinforced grating is used (min. thickness 1.5 mm). Less common, but high-quality are modified SBS asphalt stripes with reinforcing grating (min. thickness 4 mm) or final surface hydro-insulation coatings. The PVC foil is underlaid with geotextile fabric to lower the risk of perforating the foil by sharp bumps of the concrete surface. For smooth concrete, we use thin geotextile fabric with the weight of 150 g/m², and for a rough surface, a thicker material with the weight of 300 g/m² is used. A poorly made hydro-insulation under the targets is commonly the weakest part of the laying process.
In case of targets, we can either choose adjustable (screwing) or fixed targets (layered onto each other). Thanks to adjustable targets, we can level-out e.g. slanting terraces into horizontal surfaces. We do not recommend horizontal laying for targets with fixed height. The levelling of the slope is difficult and the tiling is not stable. For tiling on targets, we use the RAKO OUTDOOR tiles with the thickness of 2 cm, where the crucial factors are the break resistance and the tile weight that has a key influence on the stability of the tiling (1 tile weights 16 kg). Laying on targets is not intended for being loaded with cars, it is only suitable for walking traffic.

* Production by order.