

SUPER HARD  
**KERAMIK 3** 

# INSTALLATION MANUAL

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- LAYING ON SCREED WITH GLUE
- LAYING ON WET SAND WITH CEMENT
- RAISED LAYING WITH SUPPORTS
- LAYING ON GRAVEL
- LAYING ON SAND
- LAYING ON GRASS



# LAYING ON SCREED WITH ADHESIVE

The advanced technical features of the Super Hard Keramik 3 cm (1 3/16") collections, combined with an adhesive laying technique on screed, allow users to create perfectly stable and exceptionally hard-wearing surfaces. Stone Gres slabs used with this solution can withstand both moving and parked vehicles. Ideal for heavily frequented areas, in particular for squares, pavements, or ramps.

## ADVANTAGES:

- Maximum stability over time
- Ideal for areas open to vehicle traffic
- Ideal for areas frequented by large numbers of pedestrians

## INTENDED USE:

- Driveways
- Pool sides
- Terraces
- Car parking
- Residential areas
- Commercial areas
- Outdoor stairs
- Garage ramps



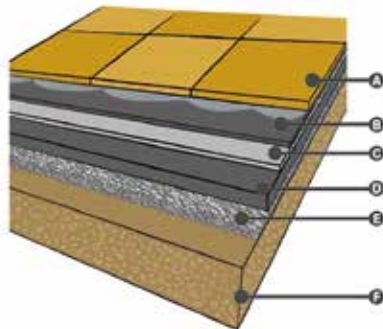
DRIVE-OVER

Expansion joints are necessary and joints must be filled with cementitious grout.

## INSTALLATION

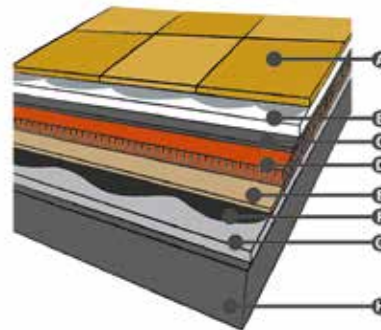
### EXAMPLE OF LAYING ON GROUND

- A SUPER HARD KERAMIK 3 CM® slabs
- B Concrete screed (may include electro welded mesh)
- C Reinforcement layer
- D Concrete screed
- E Loose stone foundation (gravel)
- F Soil



### EXAMPLE OF LAYING ON FLAT COVERING

- A SUPER HARD KERAMIK 3 CM® slabs
- B Concrete screed
- C Separation layer
- D Thermal insulation element
- E Vapour barrier
- F Waterproof layer
- G Sloping screed
- H Floor



## WHAT YOU NEED:



Slabs



Level



Toothed spatula



Porcelain Stoneware Adhesive



Cementitious grout



Acid detergent



Cross spacers

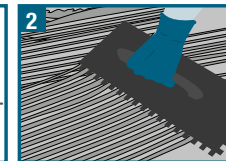


Sponge float

## INSTRUCTIONS:



Realize a state of art screed and clean the residues.



Spread the adhesive homogeneously.



Slabs must adhere to the adhesivelayer.



Use the cross spacers to assure an equal joint.



Once the laying is complete, proceed with the grouting.



Clean with a water and buffered acid solution to remove residues.



# LAYING ON WET SAND WITH CEMENT

The slabs are laid on a base of sand mixed with cement. This technique guarantees the slabs long term stability and their vehicle accessibility. It also allows to lay the slabs straight on the floor screed avoiding the high costs of the levelling screed arrangements.



## ADVANTAGES:

- Maximum stability over time
- Ideal for areas open to vehicle traffic
- Ideal for areas frequented by large numbers of pedestrians

## INTENDED USE:

- Driveways
- Pool sides
- Terraces
- Car parking
- Residential areas
- Commercial areas
- Outdoor stairs
- Garage ramps



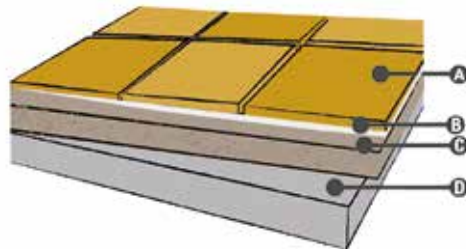
DRIVE-OVER

Expansion joints are necessary and joints must be filled with cementitious grout.

## INSTALLATION

### EXAMPLE OF LAYING ON SCREED

- A SUPER HARD KERAMIK 3 CM® slabs
- B Adhesive for porcelain stoneware
- C Sand with cement levelling screed
- D Floor screed



The proposed diagrams and indications are purely indicative of the type of application: please refer to the specific regulations in force in your country in order to lay the floor to the highest technical standards.



## WHAT YOU NEED:



Slabs



Level



Sand



Cement



Concrete mixer



Rubber mallet



Toothed spatula



Vibro compactor

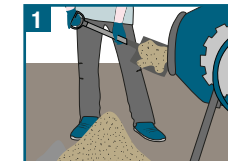


Porcelain stoneware adhesive

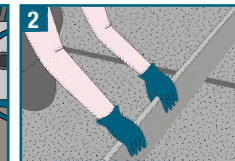


Crocette cross spacers

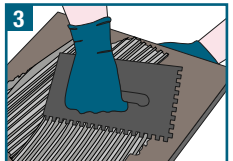
## INSTRUCTIONS:



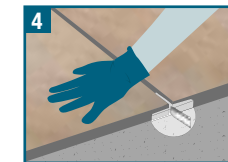
1 Prepare the mixture of sand and cement in the concrete mixer, two parts of cement by weight per ten parts of sand. Cement and water in equal parts.



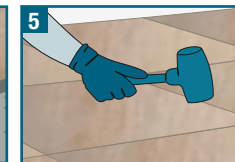
2 Lay the mixture over the existing screed and level it guaranteeing a slope of at least 2%. The layer thickness must be between 5 to 7 cm (2" - 3") to guarantee drive-over.



3 Spread the adhesive for porcelain stoneware on the back of the slabs.



4 Lay the slabs with the aid of the Crocette cross spacers.



5 Use the rubber mallet to level the slabs.



6 Once the laying is complete, proceed with the grouting.

## RAISED LAYING WITH SUPPORT

Floating paving is composed by a series of modular and adjustable supports, that easily and safely adapt to all paving types. Designed to guarantee an homogeneous surface, without bringing radical changes to the existing structure, as well as to eliminate humidity problems, water infiltrations, passage of electric cables and pipes, floating paving solutions allow easy and quick inspections and rainwater efficient drainage.

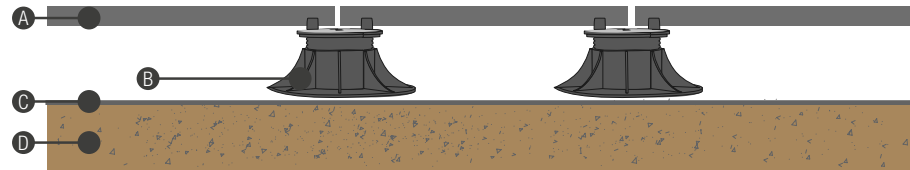
### INTENDED USE:

- Residential areas
- Commercial areas
- Terraces
- Garden, courtyard or patio

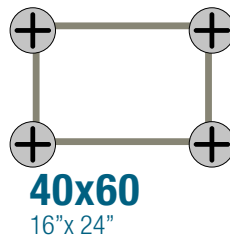
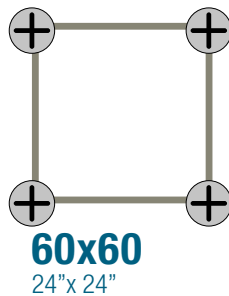
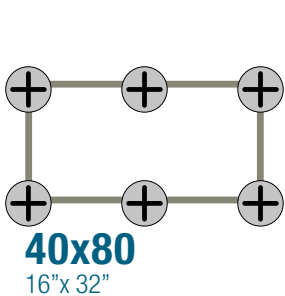
## INSTALLATION

### EXAMPLE OF RAISED LAYING

- A SUPER HARD KERAMIK 3 CM® slabs
- B Adjustable/fixed supports
- C Waterproof sheath
- D Screed with maximum slope of 5%



## LAYING ADVISE



### WHAT YOU NEED:



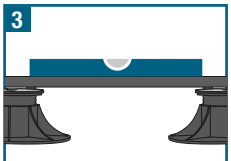
### INSTRUCTIONS:



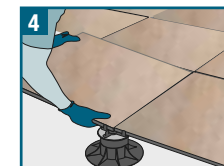
Realize a state of art screed and clean the residues.



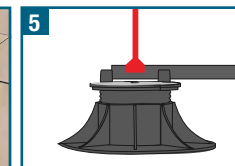
Place the supports in relation to the dimensions of the used tile.



Verify the proper levelling of the laid slabs (slope ≥ 1%).



When laying, check that the joint width is always constant.



Finished the laying, adjust the supports height with the adjusting key.



This system is particularly recommended in areas where drainage of the water in the underlying soil is a problem, and also for concrete floor screeds, such as on balconies or terraces. The slabs can be laid dry by simply placing them on top of the previously prepared gravel base, without the need of porcelain stoneware adhesives. This means the slabs are easily levelled out on top of the gravel and are ready for use immediately afterwards.



DRIVE-OVER

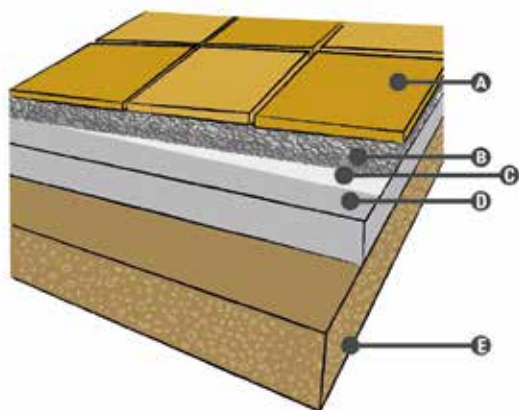
## INTENDED USE:

- Residential areas
- Footpaths
- Terraces
- Garden, courtyard or patio

## INSTALLATION

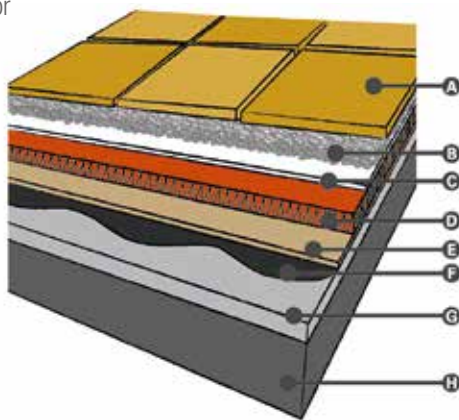
### EXAMPLE OF LAYING ON GROUND

- A SUPER HARD KERAMIK 3 CM® slabs
- B Gravel
- C Non-woven fabric
- D Drainage layer
- E Soil



### EXAMPLE OF LAYING ON FLAT COVERING

- A SUPER HARD KERAMIK 3 CM® slabs
- B Ballast layer of gravel
- C Separation layer
- D Thermal insulation element
- E Vapour barrier
- F Waterproof layer
- G Sloping screed
- H Floor



The proposed diagrams and indications are purely indicative of the type of application: please refer to the specific regulations in force in your country in order to lay the floor to the highest technical standards.



## WHAT YOU NEED:



Slabs



Level



Gravel



Rubber mallet



Cement



Vibro compactor

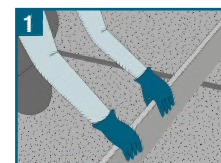


Adhesive for outdoor

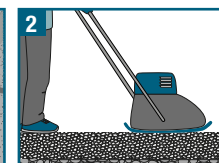


Crocette cross spacers

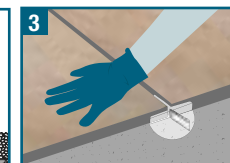
## INSTRUCTIONS:



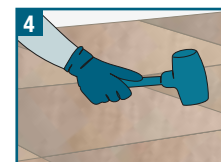
Over the non-woven fabric or the separation layer, lay the gravel (10/30 cm 4"-12"). To give more stability can be added a binder.



Level the soil with the aid of a vibro compactor, to guarantee stability over the time. A slope of at least 2% is needed to ensure the right water drainage.



Lay the slabs with the aid of the Crocette cross spacers.



Use the rubber mallet to level the slabs.



Once the laying is complete, proceed with the grouting.

## LAYING ON SAND

The slabs can be laid dry by simply placing them in the desired position, without the need adhesives. This means the slabs are easily levelled out on top of the sand and are ready for use immediately afterwards. This allows users to change the paving at any time or reuse the same material several times, even in different locations.



DRIVE-OVER

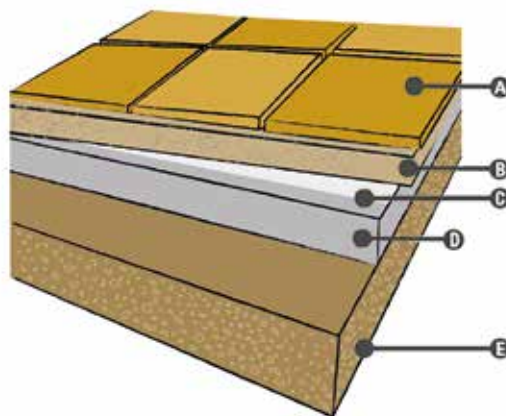
### INTENDED USE:

- Residential areas
- Footpaths
- Terraces
- Garden, courtyard or patio

## INSTALLATION

### EXAMPLE OF LAYING ON GROUND

- A SUPER HARD KERAMIK 3 CM® slabs
- B Sand
- C Non-woven fabric
- D Drainage layer
- E Soil



### WHAT YOU NEED:



Slabs



Vibro compactor



Level



Adhesive for outdoor



Sand

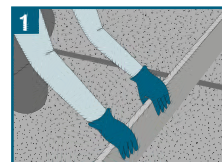


Rubber mallet

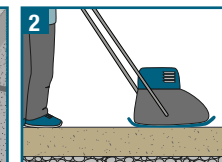


Crocette cross spacers

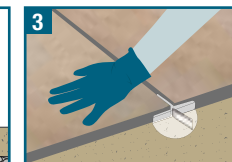
### INSTRUCTIONS:



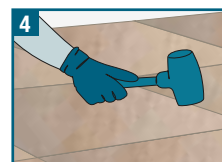
Over the non-woven fabric lay the gravel (2-5 cm 1"-2"). A slope of at least 2% is needed to ensure the right water drainage.



Level the soil with the aid of a vibro compactor, to guarantee stability over the time.



Lay the slabs with the aid of the Crocette cross spacers.



Use the rubber mallet to level the slabs.



Once the laying is complete, proceed with the grouting.

## LAYING ON GRASS



DRIVE-OVER

Where there are lawns slabs can be dry laid on top of grass without using any adhesives. This allows users to change the paving at any time and reuse the same material several times.

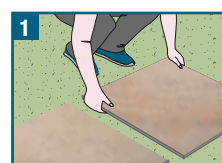
Dry-laying does not require specialized installers and the slabs are ready for use as soon as the job is finished.

### INTENDED USE:

- Residential areas
- Footpaths
- Gazebo
- Garden, courtyard or patio



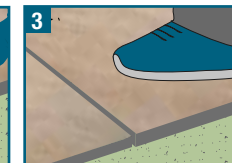
### INSTRUCTIONS:



Arrange the slabs on the ground to define the correct positioning and the preferred distance.



Make sure the distance between the slabs is the same.



Step on the slabs, insisting on the edges to match them well to the ground.

The proposed diagrams and indications are purely indicative of the type of application: please refer to the specific regulations in force in your country in order to lay the floor to the highest technical standards.

## NOTES

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LOOK OUR LAYING VIDEOS,  
CLICK OR SCAN THE QR CODE



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**KERAMIK** 3<sup>rd</sup>

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