



# INSTALLATION GUIDE

## KEOPE



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# THE IDEAL CHARACTERISTICS FOR CREATING OUTDOOR DESIGNS

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## Product benefits

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High performance, practical, and functional – concentrated in a material that's just 20mm thick.

### EXCELLENT STRENGTH AND DURABILITY

Keope products can be used for outdoor applications including domestic driveways thanks to superior strength and durability. Each tile can withstand breaking loads of over 1000kg per unit.

### STAIN AND CHEMICAL RESISTANT

For a finish that is designed to last there is no equal to the Keope porcelain range. These products feature a unique stain and chemical resistant finish which will keep them looking beautiful for the life of the product.

### OUTSTANDING QUALITY

Made to exacting standards, Keope offer products that are finely formed, perfectly crafted and strong.

### LOW MAINTENANCE

The finely crafted texture of Keope requires minimal ongoing maintenance. All products are resistant to most domestic cleaning agents making them easy to clean with a wide range of commonly available products.

### EXCELLENT SLIP RESISTANCE

All Keope products feature a minimum P5 slip rating which means they are ideal for wet area applications like pools and external ramps.

### MOULD, FROST AND SALT RESISTANT

Keope porcelain can resist degradation from salt, frost and will even resist the growth of mildew and mould.



Excellent strength & durability



Stain & chemical resistant



Mould, frost and salt resistant



Low maintenance



Excellent slip resistance



Outstanding product quality

Benefits

PRODUCT: PECORSI SMART - PIETRA DI FAGGIOLO

# *Bella colore!*

In the tradition of the finest Italian couture, diversity of colour, texture and finish are an essential element of our products. With collections embracing both natural and contemporary inspirations in complementary aesthetics, there are tones and finishes for every setting.

## Soul

Warmth and  
timeless beauty.

**PRODUCT:** WALNUT

## Pecorsi Smart

Contemporary and  
Sophisticated.

**PRODUCT:** PIETRA DI BAGNOLO

## Pecorsi Extra

Striking and textural.

**PRODUCT:** PIETRA DI COMBE

## Pecorsi Quartz

Iconic and elegant.

**PRODUCT:** WHITE

# The Keope Collection

Pecorsi  
Quartz



Black



White

Pecorsi  
Extra



Pietra Di Barge



Pietra Di Combe



Pecorsi  
Smart



Pietra Di Bagnolo

Soul



Walnut



Grey

# standard sizes

## Keope collection

Range	Product	Sizes	Weight	Slip rating	Pieces per box	Boxes per pallet	Breaking Load	Modulus of Rupture	Water absorption	Mean abrasion resistance
Percosi Quartz	Black	596x596x20mm	16.9kg	P5	2	30	>13 KN	>35 MPa	< 0.5%	>0.5m <sup>3</sup>
Percosi Quartz	White	596x596x20mm	16.9kg	P5	2	30	>13 KN	>35 MPa	< 0.5%	>0.5m <sup>3</sup>
Percorsi Smart	Pietra Di Bagnolo	596x596x20mm	16.9kg	P5	2	30	>13 KN	>35 MPa	< 0.5%	>0.5m <sup>3</sup>
Percorsi Extra	Pietra Di Combe	596x596x20mm	16.9kg	P5	2	30	>13 KN	>35 MPa	< 0.5%	>0.5m <sup>3</sup>
Percorsi Extra	Pietra Di Barge RT	596x596x20mm	16.9kg	P5	2	30	>13 KN	>35 MPa	< 0.5%	>0.5m <sup>3</sup>
Soul	Walnut	1200x300mm	15kg	P5	2	16	>13 KN	>35 MPa	< 0.5%	>0.5m <sup>3</sup>
Soul	Grey	1200x300mm	15kg	P5	2	16	>13 KN	>35 MPa	< 0.5%	>0.5m <sup>3</sup>

### The Keope Residential Range has the following Slip Ratings:

Pecorsi Extra | Pecorsi Quartz | Pecorsi Smart | Soul - P5

#### Slip Rating

#### Applications according to Australian Standard HB198:2014

**P5**

External ramps steeper than 1:14 | Swimming pool ramps and stairs

Standard sizes



PRODUCT: PECORSI EXTRA - PIETRA DI BARGE

# THE RIGHT SOLUTION FOR ALL YOUR OUTDOOR NEEDS

- 
1. Laying on sand (for residential applications only)
  2. Laying on concrete
  3. Laying on pavers, supports or pedestals
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# LAYING ON SAND

*Residential only*

For Pedestrian only (no vehicles) eg patios, courtyards and paths

It is recommended to use a qualified experienced trades person.

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## Laying method

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When using the flexible method good drainage allowing water and moisture to drain away from the pavers quickly is critical.

1. The base course shall be gravel road base and be 75 to 100mm thick. The Base course shall be levelled within a tolerance of no more than 5mm from the base of the level in any direction. It shall be of an even thickness and adequate drainage precautions taken. It should be correctly compacted to suit the intended application. There should be no ponding on the surface of the base course as this may cause problems with the integrity of the paving application.

2. Bedding Sand - cover the sub base with well graded coarse bedding sand. Ensure that the sand is relatively dry and spread evenly then compact with a hand held or mechanical compactor. The thicknesses of the bedding sand should be between 25 and 30mm thick when compacted.
3. Use a screed to level the sand and allow for a slight fall away from any walls to ensure adequate drainage.
4. The pavers can be placed on the bedding sand using grid or string lines to ensure alignment.

5. The perimeter of all paved areas should be provided with edge restraints to prevent lateral spread of the pavers and consequent loss of interlock. An edge beam may be necessary if the paving area doesn't provide restraint such as a wall, kerb, etc. The edge beams are generally constructed using a concrete mix to the relative Australian Standards.
6. Compacting of the pavement can be done using an appropriate compacting plate with the plate covered with a soft layer of material to avoid chipping the surface of the pavers (ie carpet).
7. The joints in the pavers should be between 3 and 5mm and can be filled after compaction with appropriate jointing sand swept into the joints. Spread dry sand over the paved area and brush it into the vertical joints with a stiff bristled broom. Please clean the area of excess sand before final compaction.
8. The area can be re-compacted after the joints have been swept with sand and more sand applied where necessary.
9. Regular checks should be done to ensure that the paving is performing as desired and any maintenance should be carried out to ensure the structural integrity of the paving.

# LAYING ON CONCRETE

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Please note these tips are intended as a guide only and should be used in addition to the relevant Australian Standards for trade practices. Note that installation may vary from site to site with conditions experienced on that site (i.e. soil conditions, pool surrounds, driveways etc.). The contractor should decide if these suggestions are suitable for

their application or require further adjustment. These tips are given in good faith and to the best of our knowledge and experience at the time of printing. In no way do these tips replace the services of professional contractors and/or consultants.

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## The foundation

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The foundation you lay will depend on the traffic that the paved area will support. Please follow the following guidelines:

**Pedestrian traffic only:** reinforced concrete 75mm thick

**Vehicle traffic:** reinforced (F72 mesh) concrete base 100mm thick minimum 25MPa

\* Engineers advice should be sought in the design of all concrete. Contractors should also consider drainage and/or waterproofing issues to minimise the risk of rising humidity which can bring salts contained in the soil or in the bedding layers to the surface.



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## Slope

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When dealing with outdoor stone flooring, special attention must be paid during planning in order to respond adequately to rainwater run-off. This is done by dividing the floor field into different drainage surfaces if necessary and giving them effective slope and perfect flatness. This will

avoid trapping water on the floor surface. The following slopes are recommended:

**Small flooring surfaces:**

gradient > 1%

**Large floor surfaces:**

gradient > 2%

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## Control joints

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Control joints are recommended for the substrate (concrete sub base). The joints in the concrete base should be continued through the mortar bed and grout joint.

Control joints help absorb variations in the flooring caused by temperature swings and other movement in the sub grade, concrete base, mortar or actual product itself. In addition to structural concrete joints, tiled/paved surfaces should also include appropriate control joints every 20m<sup>2</sup> that penetrate

through the stone product and the bedding mix, but not through the concrete substrate.

Generally, the overall floor field is divided into compartments where technical expansion joints are set out in a crosswise and/or longitudinal direction (minimum 5mm joints every five meters).

Use of control joints will greatly reduce the chance of unsightly surface cracks appearing.

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## Control joints

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Given stone is a natural product, variations in colour are inherent characteristics of the product. We suggest selecting product from all pallets delivered whilst laying.

This will enhance the natural look of the product and the overall effect of the area that has been laid.

# LAYING ON PAVERS, SUPPORTS OR PEDESTALS

*for elevating installations such as balconies, roof gardens and terraces*

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K2 porcelain stoneware slabs can be used in conjunction with proprietary elevated support systems.

These support pedestals are fully adjustable and allow the creation of raised floors, allowing for the installation of electrical and water systems in the cavity below.

The project engineer and/or customer must carefully assess the project requirements with regard to the technical specifications of the slabs.

K2 ceramic slabs may fracture on impact if a heavy object falls on it from any significant height. To prevent the risk of damage or injury, it is recommended to check the specific intended use before starting the installation and to follow table for raised installation provided below. In certain conditions, reinforcing must be applied on the back of the slabs.

Dry laying on gravel



# THE ADVANTAGES OF LAYING TECHNIQUES

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## Benefits of a raised floor

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No levelling problems



Allows wiring and piping to be housed



Easy to inspect



Excellent water drainage



Reusable and replaceable



Withstands thermal expansion



Better heating insulation



Adhesive-free system



Quicker installation



Fewer costs



Significantly lighter load as no screed required



# KEOPE

*Italian porcelain stoneware*

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The product images in our brochures give a general indication of colour for your preliminary selection.  
We also recommend you view current product samples before making your final selections.