

INSTALLATION ON GRAVEL

1. Excavate the soil at least 4" deep in warm and dry climate or 6" for colder, wetter climates.
2. Compact the soil and ensure it is sloped (>2%) to avoid stagnation of water. *OPTIONAL: place a layer of geotextile to keep the gravel from sinking into the soil.*
3. Place and compact a layer of crushed stone or gravel (size 1/6-1/3" gravel) Compact, wet down and screed.
4. Place a layer or geotextile (optional) to separate next layer of gravel.
5. Place and compact a fine layer of gravel (1/12-1/15" gravel). Compact, wet down and screed.
6. Ensure the surface is level using a straightedge. A slight slope of (>1% is recommended to ensure proper drainage)
7. Begin installation of porcelain pavers at least 1/8" wide using a tile spacer to ensure proper installation. *DO NOT install porcelain pavers touching together or rubbing together.*
8. Ensure the floor is level with a straight edge and use a rubber hammer to correct small differences in height.
9. Installation of the perimeter is needed to minimize movement and upheaval.
10. Fill the joints with polymeric sand or a fine sand (0-1/8")



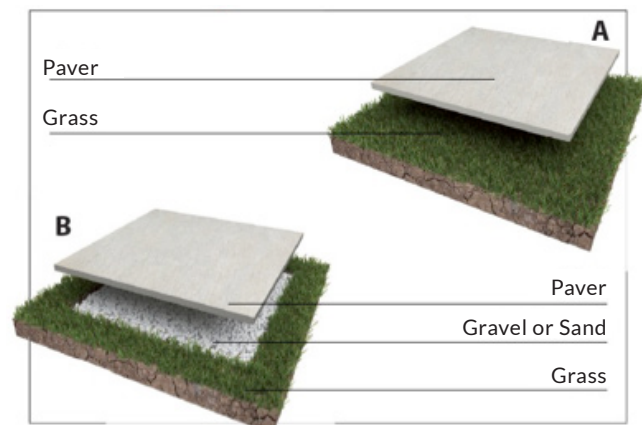
INSTALLATION ON GRASS

DIRECT (A):

Set the tile on the grass leaving 1 1/2" - 2" wide joints to all the grass to grow. Results will be long lasting but stability will be subject to soil movements.

ON GRAVEL (B):

Remove the grass from the area underneath paver. Dig 2" deep in warm or dry climates; 3" for colder climates and compact the soil. Fill the excavated area with gravel (1/6-1/3" sized granules and compact) Install porcelain paver.



INSTALLATION ON SAND

DIRECT:

Compact and level the sand and dry set the porcelain tiles directly



INSTALLATION ON CONCRETE

Porcelain pavers set in mortar are appropriate for virtually any paver application ranging from pedestrian to vehicular traffic. The concrete mortar system requires the pavers to be bonded directly to a mortar setting bed. The thickness of the base and subbase materials is dependent on the traffic loads and on the subgrade conditions.

RESIDENTIAL PATIOS:

The concrete base should be a minimum of 4" thick.

COMMERCIAL WALKWAYS:

In many cases, the thickness of the pavement system and any required reinforcement will be determined by the load-bearing capacity of the soil and pavement and freeze thaw cycles.

DRAINAGE:

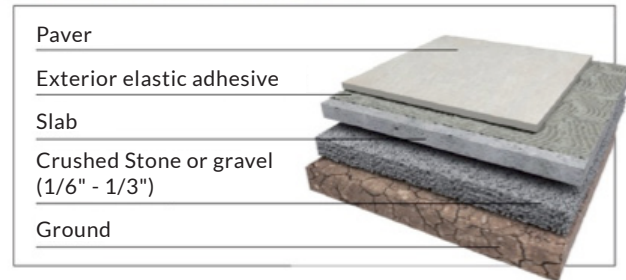
A minimum slope of ¼" per 20mm or 2% grade is required. Surface drainage is optional and recommended.

MOVEMENT JOINTS:

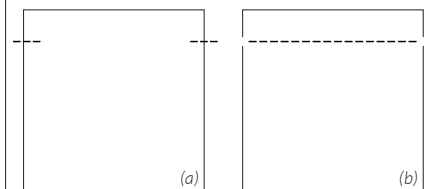
Follow ANSI specification A108.01-3.7 "Requirements for Movement Joints: Preparations by Other Trades" or TCNA detail EJ-171 "Movement Joints—Vertical & Horizontal". Do not cover expansion joints with mortar.

MORTAR SETTING BEDS:

- Use ANSI 118.4 or 118.15 thin set mortar.
- Installation must conform to ANSI A108.5. Use a properly-sized notch trowel to ensure proper coverage
- Ambient temperature should be maintained above 50° F (10° C) or below 100° F (38° C) for 72 hours to achieve proper bond.



CUTTING INSTRUCTIONS



When cutting pavers with a wet saw or grinder, it is advisable to pre-cut the front and back of your cutting line approximately two inches to release tension.^(a) Then make final cut slowly. ^(b)