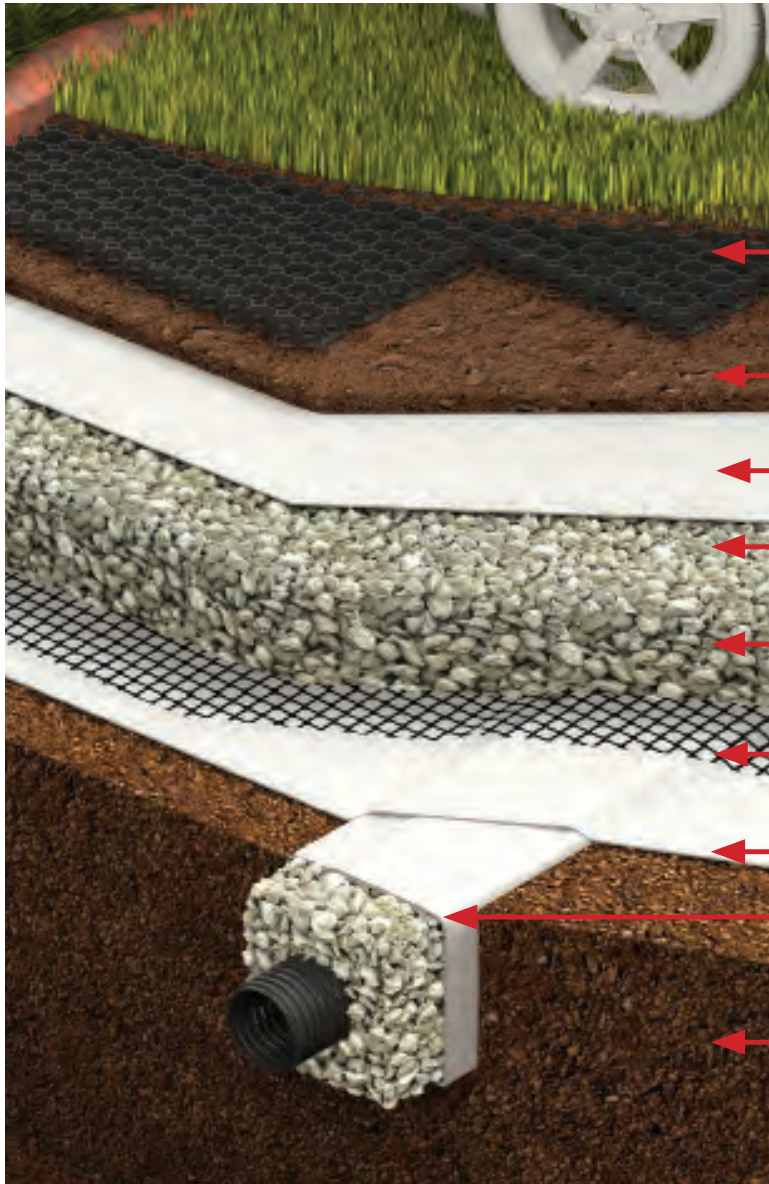


# INSTALLATION GUIDE

## SUREGREEN PP40

### POROUS PAVER GRASS FINISH



PP40 Paver filled within 5-7mm of the surface with a 60:40 rootzone, then seeded

Bedding layer 35-50mm thick 60:40 rootzone

Geotextile fabric

Free draining sub-base angular stone within a 5-45mm size range

Sub base thickness between 100-380mm

Optional Geogrid

Geotextile fabric

Optional drainage system

Sub-grade

Prior to any work on site, it is highly advisable a site survey, even if only a rudimentary one, is done.

#### Installation notes:

- If there is a slope of more than 5%, where there is a grass finish requirement, it is advisable to enquire for technical advice.
- It will need to be considered that SUREGREEN PP40 porous plastic pavers will require an edge retention system / kerb of some kind. This should be as substantial as 150mm x 150mm concrete road kerbs, steel, plastic or treated timber.
- It may be prudent to check if the type of soil on the surface is the same 200 to 400mm under the surface.

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### POROUS PAVER GRASS FINISH



**1) The sub-grade:** Excavate ground to create a sub-grade at the bottom of the profile. This layer will be the required depth and formation based on the type and frequency of traffic using the soil after installation and the ability of the existing soils to handle imposed loadings. The sub-grade could finish could be as little as 100mm or as much as 500mm below the existing surface.

It is advisable that the sub-grade is compacted. On top of the bottom layer, unroll and place a geotextile onto the prepared subgrade. A geo-grid can also be applied to reduce the depth of sub-base used and also reduce the amount of spill caused by works.

**2) The sub-base layer:** On top of the sub-grade a sub-base layer needs to be installed. The depth of this layer would have been pre-determined at an earlier date. The sub-base needs to be composed of a free draining sharp angular fill material (angular stone / aggregate), 95% of which the particle size is of a mixed nature between 5mm to 45mm (DOT type3 or similar) with reduced fine content which would produce a stable and porous sub-base / hard-core after compaction. The sub base needs to be compacted to the required depth. At the top of the sub-base a second geotextile separation layer needs to be installed.

**3) The Bedding layer:** On top of the of the geotextile covering the angular stone sub-base construction, a layer of approximately 40mm of 60/40 root-zone sandy soil should be placed and compacted. This bedding layer should be no less than 35mm deep to allow good grass root structure to grow and no more than 50mm deep after compaction to avoid possibly compromising the structural integrity of the construction profile. The root-zone layer will need to be levelled off to provide an even surface for the SUREGREEN PP40 plastic pavers to be laid.

**4) Laying SUREGREEN PP40:** SUREGREEN PP40 should be laid from above onto the prepared rootzone bedding layer, working from one corner laying adjacent paving grids into their connectors. SUREGREEN PP40 plastic paving grids can be cut on-site using a handsaw, jig-saw or other mechanical saw to match site / client requirements, shapes and obstacles.

**5) Filling the pavers:** SUREGREEN PP40 should be filled nearly to the top with the root-zone leaving a gap of approximately 5mm off the top. This layer can be brushed in and not compacted. Overfilling is likely to cause unnecessary compaction of the root-zone when trafficked leading to bad retention of the grass layer. SUREGREEN PP40 grass paver filled surface can then be seeded, fertilized and watered in if necessary. Rolling in turf is not advised.

#### Notes on Rootzone:

Experience has shown to achieve the best long term results and optimum working conditions for SUREGREEN PP40 grass pavers when a grass finish is required the soil fill should be 60/40 Root-zone. Root zone is a blend of semi-rounded sands of a selected grain size mix and sandy soils. Root-zone is used on most good sports pitches, golf courses and for horticultural uses. Root-zone has good drainage, encourages good and rapid grass growth and has a good bearing capacity.

#### Notes on grass:

It is recommended a hard wearing amenity grass seed mix – mini ryes and fescue's for example – is used for seeding. The grass – when established – will need to cope with trafficking, wet and dry conditions. There needs to be care as to the time scales when the SUREGREEN PP40 grass paver surface is used for the intended trafficking. The area should only be used for critical movements at first. There are two main reasons for this; Firstly, if trafficked too fast the tender young shoots will be easily damaged and the grass stunted or even killed off. Secondly, SUREGREEN PP40 plastic pavers have been designed to allow the grass root structure to entangle with the pavers open structure providing strength and stability to resist the loadings imposed by the trafficking. It must also be considered, when sowing the grass, what time of year it is and the prevailing weather conditions. A strong vibrant grass growth is needed and will generally take approximately 6 to 8 weeks in the growing season to become viable for trafficking. The best times of the year to seed is spring and autumn and away from the extremes of heat and cold. Please contact for further advice if unsure.