SUD PAVE

South Africa's first locally manufactured permeable paving grid!

Grassed Surfaces Installation Guide

Excavate ground to shape and level to achieve sufficient gradient and load bearing.

Depending on the soil type and projected traffic loadings, a geotextile and/or geogrid may be laid on the excavated surface. Cohesive soil may require subsoil drainage.

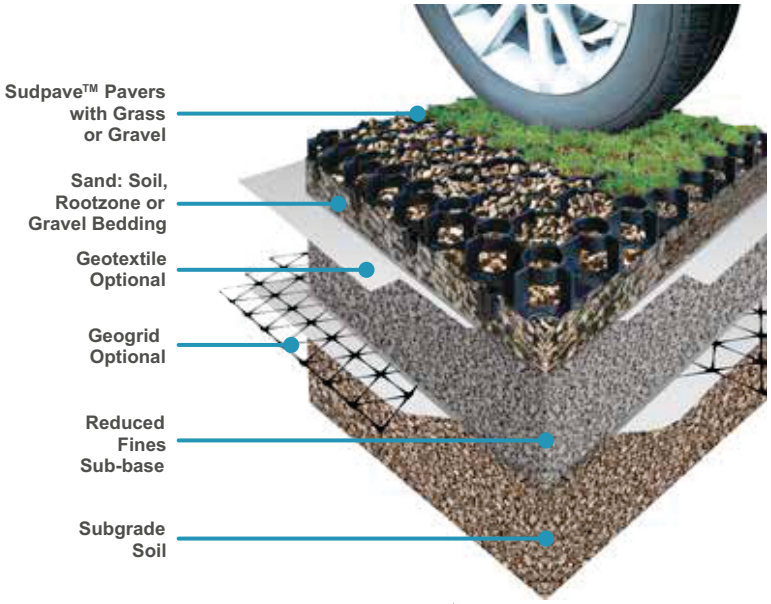
Place and compact a suitable base course material to sufficient depth to take projected loadings, (refer to guide in Table 1), ensuring that the area is shaped to sufficient gradients to prevent ponding.

A geotextile can be laid on top of the base course as a separation layer between this and the sandy top soil bedding layer to prevent migration of the particles. This is essential when using a permeable reduced fines base course but optional when using a roading type base course.

Install edging restraints (and irrigation if required). Edging restraints can be concrete road kerbs or timber or metal strips depending on requirement or specification.

Place a minimum 70 mm layer of root zone mix comprising sandy topsoil, (60% course sand to 40% good screened topsoil), over the base course layer. Compact and screed to level.

Lay **Sudpave™** panels on the sandy topsoil layer working from left to right with the connecting lugs on the panel leading.



Avoid standing directly on the prepared surface - stand on the **Sudpave™** panels and ensure they interlock together correctly.

Panels can be offset by cell increments or cut to shape using simple hand tools to fit around obstructions and curves. The use of cut-pieces which do not have the correct unique, interlocking system should be avoided wherever possible. **Sudpave™** also has integral stabilising spikes for steep slopes or heavy turning areas.

Loose fill the panels with the same root zone mix as used for the bedding layer, to 5 mm from the top of the **Sudpave™** panels. For compaction use a plate compactor to work the filling material into the pavers. Fill any voids with more root zone mix and leave filling material just below the **Sudpave™** panels to allow for seeding & soil to cover the seeds.

Carry out a normal seeding, fertilizing and watering program. Hydro seeding is a good option.

If using rolled turf or instant lawn, ensure filling matenal is finished 10 mm below the top of the **Sudpave™** panels and roll the turf into the surface to ensure the root zone is protected by the panel cell structure.

Normal establishment time should be allowed for the grass before the surface is trafficked but, for critical/emergency access purposes it can be used immediately.

Table 1

TRAFFIC TYPE	TYPICAL BASE COURSE THICKNESS
Pedestrian/Bicycles	50 - 100 mm
Light Vehicles	75- 150 mm
Heavy Vehicles	>150 mm

The base course design will need to be designed to the projected loadings, traffic volume and soil conditions and other contributing factors that correspond directly with the project.

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