



# Grass Grade Installation Guidelines



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## 1 EXCAVATION and PREPARATION

The foundation method will depend on the local conditions of the soil and the expected load during usage. The foundation may need to be determined by specialists in order to reach the desired results, if the surface is to be used by heavy vehicles.

Below are the typical guidelines:

Excavate to hard sub base (clay or sand)

Prepare a foundation of 100-150mm compacted crushed stones and gravel (depending on the load) to form a permeable subbase. For vehicle use it is recommended that SureTex geotextile is laid over the compacted crushed stones and gravel to separate it from the base course (see below). Instability of the surface may result if this is not done.

## 2 LAY THE BASE COURSE

A levelled base of mixed sand and crushed stone with a thickness of 50-70mm should be placed on top of the geotextile sheet and levelled.

## 3 INSTALL THE EDGING

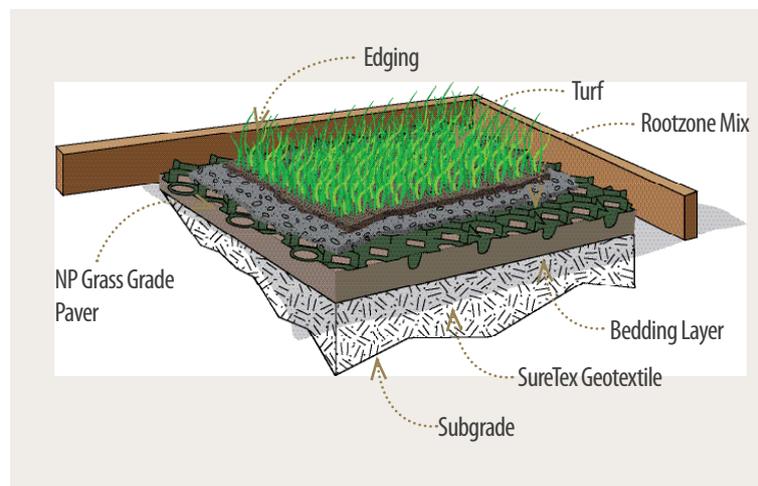
Edging of your choice is required to prevent sheets from shifting during usage. To allow the sheets to expand during high ambient temperatures, it is recommended that an expansion space of 20-50mm be left between edges and obstacles, depending on the total surface size. Natural Paving Grass pavers can be placed against walls or existing paved areas without edging if required.

## 4 LAY THE NATURAL GRASS PAVERS

After completing the foundation, base and edging, the sheets can be laid quickly. Use a stretcher bond pattern for additional stability. Anchors are integrated at the bottom of the sheets for additional stability. For slopes or banks additional anchoring may be required. Use light compacting machines if required. For shaping the sheets at corners or obstacles a handsaw or circular saw can be used.

## 5 GRASS & MAINTENANCE

Drought resistant grasses, appropriate to the area and climatic conditions should be used. After filling the honeycomb sheets with a mixture of sand, peat and soil (approx 40/30/30%) watering of the Natural Paving grass pavers is recommended prior to sowing. Use a suitable fertilizer and water frequently to ensure fast and consistent grass growth. Over time the soil mixture used to fill the sheets will compact by about 10mm leaving sufficient space for the grass to grow undamaged. Normal lawn maintenance including watering, fertilising and cutting should be done at regular intervals. Alternatively instant turf can be used. Ensure it is pressed or rolled firmly onto the pavers



## Things to consider before starting your Natural Paving job

To create a long lasting paving area, consider the following factors:

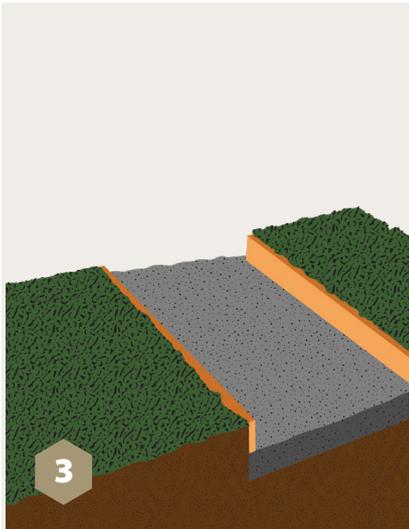
What level of traffic will the path carry? More, higher and heavier traffic requires making the base course thicker. Occasional trucks and SUV's can drive on Grass Grade with no detriment if the base course is 50% thicker.

If the sub-grade is soft or clay, and the pavement is for cars: use a SureTex geotextile on the subgrade to stop mud mixing with the base-course.

If the area is boggy, the base course should be thicker and the sub grade should have a SureTex geotextile to stop soft wet sub-grade soil, or clay, mixing with the base course. It may also be an advantage for the finished level of the path to be higher than boggy ground.

Soft spots in the sub-grade need more excavation.

Natural Paving is permeable. Water from rain and irrigation will soak straight through. Water needs to soak away from under the pavement. This can use the natural fall of the land or the inherent permeability of the sub-grade. If excavation is into clay, this will need to be designed so as not to hold water, make an exit for the water. If the area is flat, slope the sub-grade to a shallow trench along one side of the paved area and lay a drainage coil wrapped in filter geotextile in this trench (on top of the SureTex). Connect the outlet of the drainage coil into a storm-water drain, or a soakage trench away from under the pavement.



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