



INSTALLATION DETAILS FOR GRASSGUARD CONCRETE GRASS PAVING

General Information

On delivery, the product should be inspected. If there are **any** issues, please report them immediately and do not commence installation.

Before installation commences a certain amount of sorting of the product may be required to ensure consistency of colour, texture and dimensional tolerance.

Health and Safety Information

Safe working practices should be employed at all times during the construction process and all necessary Personal Protective Equipment (PPE) should be worn.

Pavement Design

For most domestic applications a sub-base of minimum 150mm should prove to be sufficient. However, the paving design must be based upon the prevalent ground conditions and type and frequency of anticipated loads. Planting roots provide much of the systems long term load carrying ability and it should be noted that the full strength of the installation will only be developed when grass cover is fully established.

Sub-base

Sub-base formation should consist primarily of free draining granular material such as Type 1 material or good quality quarry waste. In addition, the sub-base should also contain 20% humus type material to support root development and maintain grass growth.

Edge restraints

Fixed edge restraints are recommended to prevent displacement of the units in trafficked applications. Where Grassguard units are installed without edge restraint, precautions should be taken to prevent overrunning of the edge until the grassed area is fully established. Edge restraints should be sufficiently robust to resist imposed loading requirements placed upon the paving and prevents loss of bedding/regulating material. Kerb or edgings units should be fully bedded onto a concrete foundation and haunched at the rear.

Bedding/regulating layer

The sub-base should be overlaid by a bedding/regulating layer of sharp sand or pea shingle, 25mm thick to ensure the units are adequately bedded and evenly supported. Cementitious material should not be present in the bedding/regulating layer.

Installation

Units should be installed directly onto the bedding/regulating layer using lifting equipment where necessary. The units should not rock or be unevenly supported.

Bond pattern

Paving units should be laid in a bonded pattern to increase resistance to early trafficking before grass growth is fully established. The bond should be perpendicular to the main flow of vehicles.

Seeding and aftercare

After installation, loosely fill all pockets with clean friable fine soil or loam to approximately 30mm below the top surface of the units. The grass seed will be sown while the mixture is still loose then covered with a thin layer of soil and levelled using a stiff broom. Use a seeding mix of Chewing Fescues and Browntop Brent suitable for overrun of vehicles. The top soil should lie approximately 12mm below the top surface of the units to protect the emerging grass roots from damage by wheeled vehicles. Seeding rate should be 17g/m².

Cutting

Cutting may be carried out using a diamond tipped power saw. Voids at boundaries should be filled with a suitable growing medium.

Early trafficking

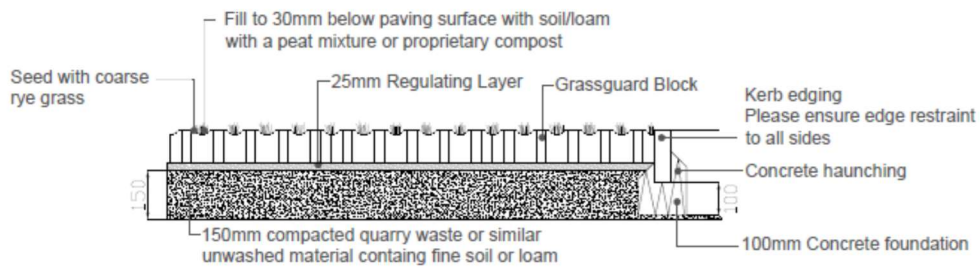
Grassguard units may be used immediately after installation, but it should be noted that the full strength of the installation will only develop when grass cover is fully established. Trafficking should not take place until the pockets of the units have been fully filled with planting soil.

Inclement weather

Laying operations should be discontinued (and open work face covered), if the weather conditions are such that the performance of the pavement may be jeopardised. All unfinished areas and stockpiles of material should be covered to prevent saturation.

Maintenance

Grassguard units themselves require no specific maintenance during service. Grassguard paved areas are easily maintained by the use of hover or rotary/gang mowers provided care is taken to set the bladed high enough to avoid damage on the concrete surface. It is recommended that liquid fertilisers are used at the beginning and end of each growing season. Any localised settlement may be rectified by lifting and re-bedding individual units as required.



9 Typical section through a driveway constructed in accordance with Marshalls Register Installation Procedures
 D03 Scale 1:20 @ A3

Further Information

For further technical advice, or when confronted by unusual problems or circumstances, please contact Marshalls Technical Advisory Services on 0370 411 2233, or by email on advisory.services@marshalls.co.uk